March 2019

HIGH-RISK SERIES

Substantial Efforts Needed to Achieve Greater Progress on High-Risk Areas
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What GAO Found

The ratings for more than half of the 35 areas on the 2019 High-Risk List remain largely unchanged. Since GAO’s last update in 2017, seven areas improved, three regressed, and two showed mixed progress by improving in some criteria but declining in others. Where there has been improvement in high-risk areas, congressional actions have been critical in spurring progress in addition to actions by executive agencies.

GAO is removing two of the seven areas with improved ratings from the High-Risk List because they met all of GAO’s five criteria for removal. The first area, Department of Defense (DOD) Supply Chain Management, made progress on seven actions and outcomes related to monitoring and demonstrated progress that GAO recommended for improving supply chain management. For example, DOD improved the visibility of physical inventories, receipt processing, cargo tracking, and unit moves. Improvements in asset visibility have saved millions of dollars and allow DOD to better meet mission needs by providing assets where and when needed.

The second area, Mitigating Gaps in Weather Satellite Data, made significant progress in establishing and implementing plans to mitigate potential gaps. For example, the National Oceanic and Atmospheric Administration successfully launched a satellite, now called NOAA-20, in November 2017. NOAA-20 is operational and provides advanced weather data and forecasts. DOD developed plans and has taken actions to address gaps in weather data through its plans to launch the Weather System Follow-on–Microwave satellite in 2022.

There are two new areas on the High-Risk List since 2017. Added in 2018 outside of GAO’s biennial high-risk update cycle, the Government-Wide Personnel Security Clearance Process faces significant challenges related to processing clearances in a timely fashion, measuring investigation quality, and ensuring information technology security. The second area, added in 2019, is Department of Veterans Affairs (VA) Acquisition Management. VA has one of the most significant acquisition functions in the federal government, both in obligations and number of contract actions. GAO identified seven contracting challenges for VA, such as outdated acquisition regulations and policies, lack of an effective medical supplies procurement strategy, and inadequate acquisition training.

Overall, 24 high-risk areas have either met or partially met all five criteria for removal from the list; 20 of these areas fully met at least one criterion. Ten high-risk areas have neither met nor partially met one or more criteria.

While progress is needed across all high-risk areas, GAO has identified nine that need especially focused executive and congressional attention, including Ensuring the Cybersecurity of the Nation, Resolving the Federal Role in Housing Finance, addressing Pension Benefit Guaranty Corporation Insurance Programs, Managing Risks and Improving VA Health Care, and ensuring an effective 2020 Decennial Census. Beyond these specific areas, focused attention is needed to address mission-critical skills gaps in 16 high-risk areas, confront three high-risk areas concerning health care and tax law enforcement that include billions of dollars in improper payments each year, and focus on a yawning tax gap.

Highlights of GAO-19-157SP, a report to congressional committees

Why GAO Did This Study

The federal government is one of the world’s largest and most complex entities; about $4.1 trillion in outlays in fiscal year 2018 funded a broad array of programs and operations. GAO’s high-risk program identifies government operations with vulnerabilities to fraud, waste, abuse, and mismanagement, or in need of transformation to address economy, efficiency, or effectiveness challenges.

This biennial update describes the status of high-risk areas, outlines actions that are still needed to assure further progress, and identifies two new high-risk areas needing attention by the executive branch and Congress. Solutions to high-risk problems save billions of dollars, improve service to the public, and would strengthen government performance and accountability.

GAO uses five criteria to assess progress in addressing high-risk areas: (1) leadership commitment, (2) agency capacity, (3) an action plan, (4) monitoring efforts, and (5) demonstrated progress.

What GAO Recommends

This report describes GAO’s views on progress made and what remains to be done to bring about lasting solutions for each high-risk area. Substantial efforts are needed by the executive branch to achieve progress on high-risk areas. Addressing GAO’s hundreds of open recommendations across the high-risk areas and continued congressional oversight and action are essential to achieving greater progress.

View GAO-19-157SP. For more information, contact J. Christopher Mihm at (202) 512-6806 or mihmj@gao.gov.
GAO’s 2019 High-Risk List

**Strengthening the Foundation for Efficiency and Effectiveness**
- Strategic Human Capital Management
- Managing Federal Real Property
- Funding the Nation’s Surface Transportation System
- Modernizing the U.S. Financial Regulatory System
- Resolving the Federal Role in Housing Finance
- USPS Financial Viability
- Management of Federal Oil and Gas Resources
- Limiting the Federal Government’s Fiscal Exposure by Better Managing Climate Change Risks
- Improving the Management of IT Acquisitions and Operations
- Improving Federal Management of Programs That Serve Tribes and Their Members
- 2020 Decennial Census
- U.S. Government Environmental Liability

**Transforming DOD Program Management**
- DOD Weapon Systems Acquisition
- DOD Financial Management
- DOD Business Systems Modernization
- DOD Support Infrastructure Management
- DOD Approach to Business Transformation

**Ensuring Public Safety and Security**
- Government-wide Personnel Security Clearance Process (new)
- Ensuring the Cybersecurity of the Nation
- Strengthening Department of Homeland Security Management Functions
- Ensuring the Effective Protection of Technologies Critical to U.S. National Security Interests
- Improving Federal Oversight of Food Safety
- Protecting Public Health through Enhanced Oversight of Medical Products
- Transforming EPA’s Processes for Assessing and Controlling Toxic Chemicals

**Managing Federal Contracting More Effectively**
- VA Acquisition Management (new)
- DOE’s Contract Management for the National Nuclear Security Administration and Office of Environmental Management
- NASA Acquisition Management
- DOD Contract Management

**Assessing the Efficiency and Effectiveness of Tax Law Administration**
- Enforcement of Tax Laws

**Modernizing and Safeguarding Insurance and Benefit Programs**
- Medicare Program & Improper Payments
- Strengthening Medicaid Program Integrity
- Improving and Modernizing Federal Disability Programs
- Pension Benefit Guaranty Corporation Insurance Programs
- National Flood Insurance Program
- Managing Risks and Improving VA Health Care

*Legislation is likely to be necessary in order to effectively address this area.*
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March 6, 2019

The Honorable Ron Johnson  
Chairman  
The Honorable Gary C. Peters  
Ranking Member  
Committee on Homeland Security and Governmental Affairs  
United States Senate

The Honorable Elijah E. Cummings  
Chairman  
The Honorable Jim Jordan  
Ranking Member  
Committee on Oversight and Reform  
House of Representatives

Since the early 1990s, our high-risk program has focused attention on government operations with greater vulnerabilities to fraud, waste, abuse, and mismanagement, or that are in need of transformation to address economy, efficiency, or effectiveness challenges. This effort, supported by the Senate Committee on Homeland Security and Governmental Affairs and by the House of Representatives Committee on Oversight and Reform, has brought much needed attention to problems impeding effective government and costing billions of dollars each year.

We have made hundreds of recommendations to reduce the government’s high-risk challenges. Executive agencies either have addressed or are addressing many of them and, as a result, progress is being made in a number of areas. Congress also continues to take important actions. For example, Congress has enacted a number of laws since our last report in February 2017 that are helping to make progress on high-risk issues. Financial benefits to the federal government due to progress in addressing high-risk areas over the past 13 years (fiscal year 2006 through fiscal year 2018) totaled nearly $350 billion or an average of about $27 billion per year. In fiscal year 2018, financial benefits were the highest we ever reported at nearly $47 billion.¹

¹Financial benefits are based on actions taken in response to our work, such as reducing government expenditures, increasing revenues, or reallocating funds to other areas.
This report describes (1) progress made addressing high-risk areas and the reasons for that progress, and (2) actions that are still needed. It also identifies two new high-risk areas—Government-wide Personnel Security Clearance Process and Department of Veterans Affairs (VA) Acquisition Management, and two high-risk areas we removed from the list because they demonstrated sufficient progress in managing risk—Department of Defense (DOD) Supply Chain Management and Mitigating Gaps in Weather Satellite Data.  

Substantial efforts are needed on the remaining high-risk areas to achieve greater progress and to address regress in some areas since the last high-risk update in 2017. Continued congressional attention and executive branch leadership attention remain key to success.

How We Identify and Rate High-Risk Areas

To determine which federal government programs and functions should be designated high-risk, we use our guidance document, Determining Performance and Accountability Challenges and High Risks.  

We consider qualitative factors, such as whether the risk

- involves public health or safety, service delivery, national security, national defense, economic growth, or privacy or citizens' rights, or
- could result in significantly impaired service, program failure, injury or loss of life, or significantly reduced economy, efficiency, or effectiveness.

We also consider the exposure to loss in monetary or other quantitative terms. At a minimum, $1 billion must be at risk, in areas such as the value of major assets being impaired; revenue sources not being realized; major agency assets being lost, stolen, damaged, wasted, or underutilized; potential for, or evidence of improper payments; and presence of contingencies or potential liabilities.

Before making a high-risk designation, we also consider corrective measures planned or under way to resolve a material control weakness and the status and effectiveness of these actions.

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2Government-wide Personnel Security Clearance Process was added to the High-Risk List in January 2018.

Our experience has shown that the key elements needed to make progress in high-risk areas are top-level attention by the administration and agency leaders grounded in the five criteria for removal from the High-Risk List, as well as any needed congressional action. The five criteria for removal that we issued in November 2000 are as follows:

- **Leadership commitment.** Demonstrated strong commitment and top leadership support.
- **Capacity.** Agency has the capacity (i.e., people and resources) to resolve the risk(s).
- **Action plan.** A corrective action plan exists that defines the root cause, solutions, and provides for substantially completing corrective measures, including steps necessary to implement solutions we recommended.
- **Monitoring.** A program has been instituted to monitor and independently validate the effectiveness and sustainability of corrective measures.
- **Demonstrated progress.** Ability to demonstrate progress in implementing corrective measures and in resolving the high-risk area.

Starting in our 2015 update, we added clarity and specificity to our assessments by rating each high-risk area’s progress on the five criteria and used the following definitions:

- **Met.** Actions have been taken that meet the criterion. There are no significant actions that need to be taken to further address this criterion.
- **Partially met.** Some, but not all, actions necessary to meet the criterion have been taken.
- **Not met.** Few, if any, actions towards meeting the criterion have been taken.

Figure 1 shows a visual representation of varying degrees of progress in each of the five criteria for a high-risk area. Each point of the star represents one of the five criteria for removal from the High-Risk List and each ring represents one of the three designations: not met, partially met, or met. An unshaded point at the innermost ring means that the criterion has not been met, a partially shaded point at the middle ring means that the criterion has been partially met, and a fully shaded point at the outermost ring means that the criterion has been met. Further, a plus symbol inside the star indicates the rating for that criterion progressed since our last high-risk update. Likewise, a minus symbol inside the star indicates the rating for that criterion declined since our last update.
Some high-risk areas are comprised of segments or subareas that make up the overall high-risk area. For example, the high-risk area Protecting Public Health through Enhanced Oversight of Medical Products includes two segments—Response to Globalization and Drug Availability—to reflect two interrelated parts of the overall high-risk area. Multidimensional high-risk areas such as these have separate ratings for each segment as well as a summary rating of the overall high-risk area that reflects a composite of the ratings received under the segment for each of the five high-risk criteria. High-risk areas that are primarily based on the need for congressional action are not rated on the criteria and do not receive a star graphic.

We are removing two areas—DOD Supply Chain Management and Mitigating Gaps in Weather Satellite Data—from the list due to the progress that was made in addressing the high-risk issues. As we have with areas previously removed from the High-Risk List, we will continue to monitor these areas to ensure that the improvements we have noted are sustained. If significant problems again arise, we will consider reapplying the high-risk designation. We added two areas to the High-Risk List since our 2017 update—Government-Wide Personnel Security Clearance Process and VA Acquisition Management. See pages 6-18 for more information on the two high-risk areas being removed.
In addition to specific areas that we have designated as high risk, other important challenges facing our nation merit continuing close attention. One of these is the use of illicit drugs and the misuse of prescription drugs and the ways they affect individuals, their families, and the communities in which they live.
We are removing this high-risk area because the Department of Defense (DOD) has made sufficient progress on the remaining seven actions and outcomes we recommended for improving supply chain management. Congressional attention, DOD leadership commitment, and our collaboration contributed to this successful outcome.

**Why Area Was High Risk**
DOD manages about 4.9 million secondary inventory items, such as spare parts, with a reported value of $92.9 billion as of September 2017. Effective and efficient supply chain management is critical for (1) supporting the readiness and capabilities of the force and (2) helping to ensure that DOD avoids spending resources on unneeded inventory that could be better applied to other defense and national priorities. We define supply chain management as including three segments—inventory management, asset visibility, and materiel distribution.

DOD Supply Chain Management has been on our High-Risk List since 1990—starting with inventory management—because of inefficient and ineffective management practices leading to excess inventory. In 2005, we added asset visibility and materiel distribution to this high-risk area due to weaknesses identified during operations in Iraq and Afghanistan, including backlogs of hundreds of pallets and containers at distribution points.

In 2017, we removed inventory management from this area because DOD made key improvements, such as reducing on-order excess inventory by about $600 million and addressing each of our high-risk criteria, resulting in demonstrable and sustained improvements.

**Contact Information**
For additional information about this high-risk area, contact Diana Maurer at 202-512-9627 or maurerd@gao.gov.

**Why High-Risk Area is Being Removed**
From 2014 to 2017, we identified 18 actions and outcomes DOD needed to implement in order for its supply chain management to be removed from our High-Risk List. In our 2017 High-Risk Report, we reported that DOD had made progress in addressing 11 actions and met the criteria of leadership commitment, capacity, and action plan for asset visibility and materiel distribution. However, DOD needed to take additional actions to fully implement the remaining seven actions and outcomes related to the monitoring and demonstrated progress criteria.

(See fig. 2.)

**Figure 2: Segments of GAO’s Department of Defense’s Supply Chain Management High-Risk Area**

**Asset visibility** is DOD’s ability to provide timely and accurate information on the location, quantity, condition, movement, and status of its inventory. DOD had weaknesses in maintaining visibility of supplies, such as problems with inadequate radio-frequency identification information to track all cargo movements.

**Materiel distribution** is DOD’s ability to operate its global distribution pipeline to deliver the right item, to the right place, at the right time, and at the right cost. DOD faced challenges in delivering supplies and equipment, including meeting delivery standards and timelines for cargo shipments as well as maintaining complete delivery data for surface shipments.

We are removing DOD Supply Chain Management from the High-Risk List because, since 2017, DOD has addressed the remaining two criteria (monitoring and demonstrated progress) for asset visibility and materiel distribution by addressing the seven actions and outcomes identified in our 2017 High-Risk Report.
Since our 2017 High-Risk Report, DOD has continued to meet the criteria of leadership commitment, capacity, and action plan for asset visibility. Further, DOD has fully addressed the three remaining actions and outcomes we outlined in 2017 in order to mitigate or resolve long-standing weaknesses in asset visibility. Consequently, DOD has met the monitoring and demonstrated progress criteria for asset visibility to remove this area from our High-Risk List.

**Leadership commitment: met.** Senior leaders have continued to demonstrate commitment through their involvement in groups such as the Supply Chain Executive Steering Committee—senior-level officials responsible for overseeing asset visibility improvement efforts—and through the Asset Visibility Working Group, which identifies opportunities for improvement and monitors the implementation of initiatives by issuing its Strategy for Improving DOD Asset Visibility (Strategy) in 2014, 2015, and 2017.

**Capacity: met.** DOD continues to demonstrate that it has the capacity—personnel and resources—to improve asset visibility. For example, DOD's 2015 and 2017 Strategies advise the components to consider items such as staffing, materiel, and sustainment costs when documenting cost estimates for the initiatives in the Strategy, as we recommended in January 2015.


Importantly, since 2017 DOD addressed the three remaining actions and outcomes related to the monitoring and demonstrated progress criteria through updates to and implementation of the Strategies (see table 1).
### Table 1: Status of Asset Visibility Remaining Action Items Required to Remove Supply Chain Management from GAO’s High-Risk List

<table>
<thead>
<tr>
<th>Action items</th>
<th>Action item status</th>
<th>High-risk category</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Incorporate the attributes of successful performance measures (e.g., clear, quantifiable, objective, and reliable), as appropriate, in subsequent updates to the Strategy for Improving DOD Asset Visibility</td>
<td>Met</td>
<td>Monitoring</td>
</tr>
<tr>
<td>2. Take steps to incorporate into after-action reports information relating to performance measures for the asset visibility initiatives</td>
<td>Met</td>
<td>Monitoring</td>
</tr>
<tr>
<td>3. Demonstrate sustained progress in implementing initiatives that result in measurable outcomes and progress towards realizing the goals and objectives in the Strategy for Improving DOD Asset Visibility</td>
<td>Met</td>
<td>Demonstrated progress</td>
</tr>
</tbody>
</table>

Source: GAO analysis and prior GAO report. | GAO-19-157SP

**Monitoring: met.** DOD provided guidance in its 2017 update to the Strategy for the military components to consider key attributes of successful performance measures during metric development for their improvement initiatives. As appropriate, the military components have followed the guidance and provided high-level summary metrics updates to the Asset Visibility Working Group. In addition, DOD has taken steps to monitor asset visibility by incorporating into after-action reports, as appropriate, information relating to performance measures. These after-action reports serve as closure documents and permanent records of each initiative’s accomplishments.

**Demonstrated progress: met.** DOD has demonstrated sustained progress by completing 34 of the 39 initiatives to improve asset visibility and continues to monitor the remaining 5 initiatives. These initiatives have supported DOD’s goals and objectives, which include: (1) improving visibility efficiencies of physical inventories, receipt processing, cargo tracking, and unit moves; (2) ensuring asset visibility data are discoverable, accessible, and understandable to support informed decision-making across the enterprise; and (3) increasing efficiencies for delivery accuracy and cycle times. Also, the Asset Visibility Working Group meets regularly to identify opportunities to further improve asset visibility within DOD.

DOD has taken the following actions to demonstrate sustained progress: (1) created an integrated single portal system providing 7,500 users access to near-real-time, in-transit visibility of eight million lines of items of supply and transportation data; and (2) increased its visibility of assets through radio-frequency identification (RFID), an automated data-capture technology that can be used to electronically identify, track, and store information contained on a tag. There are two main types of RFID tags,
passive and active, which show whether assets are in-storage, in-transit, in-process, or in-use. Passive tags, such as mass transit passes, do not contain their own power source and cannot initiate communication with a reader; while active tags, such as an “E-Z pass,” contain a power source and a transmitter, and send a continuous signal over longer distances.

DOD closed nine initiatives from its Strategies by implementing RFID technology. For example, the Marine Corps implemented long-range passive RFID for visibility and accountability of items, resulting in improvements that include an increased range for “reading” an item—from 30 feet to 240 feet—and reduced inventory cycle times from 12 days to 10 hours. Also, the Navy reported that the use of passive RFID technology to support the overhaul of its nuclear-powered attack submarines enabled the Navy to better track parts, resulting in 98 percent fewer missing components and an average cost avoidance of $1.3 million per boat.

Additionally, according to DOD, the use of RFID tags to provide visibility of sustainment cargo at the tactical leg resulted in $1.4 million annual cost savings. Further, DOD reported that the migration of the active RFID enterprise from a proprietary communication standard to a competitive multivendor environment reduced the cost of active RFID tags by half, resulting in an estimated $5.7 million annual reduction in costs.

Since our 2017 High-Risk Report, DOD has continued to meet the criteria of leadership commitment, capacity, and action plan for materiel distribution. Further, DOD has fully addressed the four remaining actions and outcomes we outlined in 2017 in order to mitigate or resolve long-standing weaknesses in materiel distribution. Consequently, DOD has met the monitoring and demonstrated progress criteria for materiel distribution to remove this area from our High-Risk List.

**Leadership commitment: met.** Senior leaders continue to demonstrate commitment through their involvement in groups such as the Supply Chain Executive Steering Committee—senior-level officials responsible for overseeing materiel distribution corrective actions—and through the Distribution Working Group, which helped develop the Materiel Distribution Improvement Plan (Improvement Plan) in 2016.

**Capacity: met.** DOD has continued to demonstrate that it has the personnel and resources, such as key organizations and the associated
governance structure, to improve materiel distribution. The Improvement Plan recognizes that additional resources will be required to accomplish its corrective actions and close any identified performance gaps within the time frame specified.

**Action plan: met.** In 2016, DOD developed its corrective action plan to address the department’s materiel distribution challenges. The Improvement Plan details specific goals and actions to better measure the end-to-end distribution process, ensure the accuracy of underlying data, and strengthen and integrate distribution policies and the governance structure.

Importantly, since 2017, DOD has fully addressed the four remaining actions and outcomes related to monitoring and demonstrated progress to mitigate or resolve long-standing weaknesses in materiel distribution (see table 2).

**Table 2: Status of Materiel Distribution Remaining Action Items Required to Remove Supply Chain Management from GAO’s High-Risk List**

<table>
<thead>
<tr>
<th>Action items</th>
<th>Action item status</th>
<th>High-risk category</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Make progress in developing Department of Defense’s (DOD’s) suite of distribution performance metrics, improving the quality of data underlying those metrics, and sharing metrics information among stakeholders.</td>
<td>Met</td>
<td>Monitoring</td>
</tr>
<tr>
<td>2. Integrate distribution metrics data, including cost data, from the combatant commands and other DOD components, as appropriate, on the performance of all legs of the distribution system, including the tactical leg.</td>
<td>Met</td>
<td>Monitoring</td>
</tr>
<tr>
<td>3. Refine existing actions in the Materiel Distribution Improvement Plan or incorporate additional actions based on interim progress and results, and update the Materiel Distribution Improvement Plan accordingly.</td>
<td>Met</td>
<td>Monitoring</td>
</tr>
<tr>
<td>4. Demonstrate that the actions implemented under its Materiel Distribution Improvement Plan improve its capability to comprehensively measure distribution performance, identify distribution problems and root causes, and identify and implement solutions.</td>
<td>Met</td>
<td>Demonstrated progress</td>
</tr>
</tbody>
</table>

Source: GAO analysis and prior GAO report. | GAO-19-157SP

aThe tactical leg is the last segment of the distribution system between the supply points in a military theater of operations and the forward operating bases and units.

**Monitoring: met.** DOD has monitored materiel distribution by making progress in developing its suite of distribution performance metrics, improving the quality of their underlying data, and sharing metrics information with stakeholders. For example, in January 2017, DOD developed a suite of performance metrics that provides a comprehensive picture of the distribution process, including whether supplies are
delivered on time and at sufficient quantity and quality. Also, DOD implemented checklists to assess the quality of data underlying each performance metric based on relevance, accuracy, comparability, and interpretability.

The checklists and their standards assist in identifying root causes and addressing areas where performance data quality may be lacking. DOD has also incorporated internal control requirements in its supply chain management guidance to increase confidence in the performance data. Additionally, DOD has revised its policy documents to require stakeholders to routinely capture and share distribution performance metrics, including cost data, and the department maintains websites to provide current performance information to distribution stakeholders.

DOD has also incorporated distribution metrics, as appropriate, on the performance of all legs of the distribution system, including the tactical leg (i.e., the last segment of the distribution system). We previously reported on DOD’s deficiencies to accurately assess its distribution performance at the tactical leg, such as missing delivery dates for shipments in Afghanistan. Since that time, the geographic combatant commands have been tracking metrics at the tactical leg, including required delivery dates, to determine the movement and causes of delays for shipments, and have been sharing distribution performance information with the U.S. Transportation Command (TRANSCOM) through their deployment and distribution operations centers. DOD is implementing a cost framework to incorporate transportation costs for all legs of the distribution system, which will provide an additional metric for distribution stakeholders to assess the efficiency of the system. The first phase of the cost framework began operating in August 2018 and is expected to be fully implemented in 2019.

DOD is making progress in refining its Improvement Plan and is incorporating additional actions based on interim progress and results. Since DOD issued the Improvement Plan in September 2016, the agency has (1) documented the results and monitored the status of each corrective action, (2) revised completion dates as needed, and (3) periodically provided decision makers with summary action charts, plans, and milestones. DOD is also updating its instruction on management and oversight of the distribution enterprise to clarify the roles and responsibilities of all distribution stakeholders. DOD officials have not determined a date for when this instruction will be issued.

**Demonstrated progress: met.** DOD has demonstrated sustained progress in improving its capability to comprehensively measure distribution performance, identify distribution problems and root causes, and implement solutions. DOD has implemented 10 of 18 corrective actions in its Improvement Plan and is on track to implement the
remaining 8 by September 2019. Because of this progress, DOD’s monthly shipment reports have assessed performance against enhanced metrics across the distribution system. For example, in December 2017, TRANSCOM investigated performance standards for truck deliveries from its Defense Logistics Agency warehouses in Bahrain to customers in Kuwait due to frequent delays in shipments. TRANSCOM determined that inadequate time for clearing customs in Kuwait resulted in an unrealistic delivery standard.

TRANSCOM, in coordination with distribution stakeholders, adjusted the delivery standard to adequately account for the in-theater customs process. In addition, TRANSCOM, in partnership with the Defense Logistics Agency and the General Services Administration, developed and implemented initiatives focused on distribution process and operational improvements to reduce costs and improve distribution services to the warfighter. According to DOD, these efforts have resulted in at least $1.56 billion in distribution cost avoidances to date.

Monitoring After Removal

DOD has demonstrated commendable, sustained progress improving its supply chain management. This does not mean DOD has addressed all risk within this area. It remains imperative that senior leaders continue their efforts to implement initiatives and corrective actions to maintain visibility of supplies, track cargo movements, meet delivery standards, and maintain delivery data for shipments. Continued oversight and attention are also warranted given the recent reorganization of the Office of the Under Secretary of Defense for Acquisition and Sustainment and the resulting change in the oversight structure of Supply Chain Management. We will therefore continue to conduct oversight of supply chain management at DOD.

Related GAO Products


We are removing this high-risk area because—with strong congressional support and oversight—the National Oceanic and Atmospheric Administration (NOAA) and the Department of Defense (DOD) have made significant progress in establishing and implementing plans to mitigate potential gaps in weather satellite data.

**Why Area Was High Risk**

The United States relies on two satellite systems for weather forecasts and observations: (1) polar-orbiting satellites that provide a global perspective every morning and afternoon and (2) geostationary satellites that maintain a fixed view of the nation. NOAA is responsible for the polar satellite program that crosses the equator in the afternoon and for the geostationary satellite program. DOD is responsible for the polar satellite program that crosses the equator in the early morning orbit. These agencies are planning or executing major satellite acquisition programs to replace existing polar and geostationary satellites that are nearing the end of, or are beyond, their expected life spans.

A gap in satellite data would result in less accurate and timely weather forecasts and warnings of extreme events—such as hurricanes and floods. Given the criticality of satellite data to weather forecasts, the likelihood of significant gaps in weather satellite data, and the potential impact of such gaps on the health and safety of the U.S. population and economy, we concluded that the potential gap in weather satellite data was a high-risk area and added it to the High-Risk List in 2013. More recently, in recognition of NOAA’s progress, we removed the geostationary satellite segment from the high-risk area in 2017.

**Contact Information**

For additional information about this high-risk area, contact Carol C. Harris at 202-512-4456 or at harriscc@gao.gov.

**Why High-Risk Area Is Being Removed**

In our 2017 High-Risk Report, we reported that NOAA had fully implemented criteria associated with demonstrating leadership commitment, having the needed capacity to address risks, and monitoring progress.

We also reported that NOAA had partially implemented the criteria for establishing an action plan and demonstrating progress. In addition, our 2017 report noted DOD’s slow progress in establishing plans for its follow-on weather satellite program and for determining how it would fulfill other weather requirements in the early morning orbit.

Since that time, (1) NOAA has fully implemented actions in response to the remaining two criteria that had previously been partially implemented and (2) DOD, pursuant to statutes and accompanying congressional direction, established and began implementing plans both for its follow-on weather satellite program and for addressing the key requirements that were not included in that satellite program. Consequently, we are removing the need to mitigate gaps in weather satellite data from our High-Risk List.
Since our last high-risk update in 2017, NOAA continues to meet the criteria of leadership commitment, capacity, and monitoring and now also meets the criteria of action plan and demonstrated progress.

**Leadership commitment: met.** NOAA program officials met the leadership commitment criteria in 2015 and have continued to sustain their strong leadership commitment to mitigating potential satellite data gaps since that time. For example, NOAA issued and frequently updated its polar satellite gap mitigation plan, which identifies the specific technical, programmatic, and management steps the agency is taking to ensure that satellite mitigation options are viable. In addition, NOAA executives continue to oversee the acquisition of polar-orbiting satellites through monthly briefings on the cost, schedule, and risks affecting the satellites’ development.

**Capacity: met.** NOAA continues to meet the criterion of improving its capacity to address the risk of a satellite data gap. In December 2014, we recommended that NOAA investigate ways to prioritize the gap mitigation projects with the greatest potential benefit to weather forecasting, such as by improving its high-performance computing capacity. NOAA agreed with this recommendation and implemented it. For example, NOAA upgraded its high-performance computers, which allowed the agency to move forward on multiple other mitigation activities, including experimenting with other data sources and assimilating these data into its weather models.

**Action plan: met.** NOAA now meets the criterion for having a plan to address the risk of a polar satellite data gap, which is an increase over its rating in 2017. In June 2012, we reported that, while NOAA officials communicated publicly and often about the risk of a polar satellite data gap, the agency had not established plans to mitigate the gap. We recommended that NOAA establish a gap mitigation plan, and the agency did so in February 2014. However, in December 2014, we recommended that NOAA revise its plan to address shortfalls, including (1) adding recovery time objectives for key products, (2) identifying opportunities for accelerating the calibration and validation of satellite data products, (3) providing an assessment of available alternatives based on their costs and impacts, and (4) establishing a schedule with meaningful timelines and linkages among mitigation activities.

The agency agreed with the recommendation and subsequently addressed it. Specifically, NOAA issued three updates to its gap...
mitigation plan between January 2016 and February 2017. With the last of the updates, the agency addressed the shortfalls we had identified.

**Monitoring: met.** NOAA met this criterion in 2017, and continues to meet it now, by implementing our recommendations to more consistently and comprehensively monitor its progress on gap mitigation activities. For example, all three NOAA organizations responsible for gap mitigation projects regularly brief senior management on their progress.

**Demonstrated progress: met.** NOAA now meets the criterion for demonstrated progress, which is an increase over its prior rating. In our 2017 High-Risk Report, we noted that NOAA had identified 35 different gap mitigation projects and was making progress in implementing them. These projects fell into three general categories: (1) understanding the likelihood and impact of a gap, (2) reducing the likelihood of a gap, and (3) reducing the impact of a gap. Nevertheless, one of the most important steps in reducing the likelihood of a gap—keeping the launch of the next polar satellite on schedule—had encountered problems. Specifically, agency officials decided to delay the launch due to challenges in developing the ground system and a critical instrument on the spacecraft. This delay exacerbated the probability of a satellite data gap.

More recently, however, NOAA was able to demonstrate progress by successfully launching the satellite in November 2017. That satellite, now called NOAA-20, is currently operational and is being used to provide advanced weather data and forecasts. Moreover, the agency is also working to build and launch the next satellites in the polar satellite program.

Since our last high-risk update in 2017, DOD now meets all five high-risk criteria.

**Leadership commitment: met.** With strong congressional oversight, DOD now meets this criterion. Pursuant to enactment of the Carl Levin and Howard P. ‘Buck’ McKeon National Defense Authorization Act for Fiscal Year 2015 (NDAA for FY 2015), the National Defense Authorization Act for Fiscal Year 2016 (NDAA for FY 2016), and the Consolidated Appropriations Act, 2016, DOD leadership committed to developing and implementing plans to address its weather satellite requirements. For example, in late 2017, the department awarded a contract for its Weather System Follow-on—Microwave satellite to fulfill core weather requirements.
Mitigating Gaps in Weather Satellite Data

Capacity: met. With strong congressional oversight, DOD now meets the capacity criterion. Specifically, the NDAA for FY 2015 restricted the availability of 50 percent of the FY 2015 funds authorized for the Weather Satellite Follow-on System (now called the Weather System Follow-on—Microwave satellite program) until DOD submitted to the congressional defense committees a plan to meet weather monitoring data collection requirements. In addition, the explanatory statement that accompanied the Consolidated Appropriations Act, 2016, recommended that the Air Force focus on ensuring that the next generation of weather satellites meet the full spectrum of requirements and work with civil stakeholders to leverage appropriate civil or international weather assets.

As called for in the law and the explanatory statement, DOD established plans to meet weather monitoring data collection needs, including by acquiring satellites as part of a family of systems to replace its aging legacy weather satellites. Additionally, DOD formally coordinated with NOAA on weather monitoring data collection efforts. In January 2017, the Air Force and NOAA signed a memorandum of agreement, and in November 2017, signed an annex to that agreement, to allow for the exchange of information and collaboration on a plan for collecting weather monitoring data. The Air Force and NOAA are now developing plans to relocate a residual NOAA satellite over the Indian Ocean, an area of concern for cloud characterization and area-specific weather imagery coverage.

Action plan: met. In our 2017 High-Risk Report, we reported that DOD was slow to establish plans for its Weather System Follow-on—Microwave program and had made little progress in determining how it would meet weather satellite requirements for cloud characterization and area-specific weather imagery. Pursuant to the NDAA for FY 2015, the NDAA for FY 2016, and the explanatory statement that accompanied the Consolidated Appropriations Act, 2016, the department developed and began implementing plans to address its weather satellite requirements. As mentioned above, in late 2017, the department awarded a contract for its Weather System Follow-on—Microwave satellite to fulfill core weather requirements. Under this program, the department may launch a demonstration satellite in 2021 and plans to launch an operational satellite in 2022.

DOD also developed plans for providing its two highest-priority capabilities—cloud characterization and area-specific weather imagery data collection—that will not be covered by the Weather System Follow-on—Microwave satellite program. The department is planning a longer-term solution, called the Electro-Optical/Infrared Weather Systems program, to meet these needs, with a planned satellite launch in 2024.
Monitoring: met. DOD now meets the monitoring criterion as evidenced by its actions to initiate a major acquisition program, the Weather System Follow-on–Microwave, and award a contract for the first satellite. In addition, program officials stated that they plan to monitor the program’s progress toward addressing critical needs and assess its operations and sustainment costs.

Demonstrated progress: met. DOD now meets the demonstrated progress criterion because it has developed plans and taken actions to address gaps in weather data through its plans to launch the Weather System Follow-on–Microwave satellite in 2022. The department also plans to launch the Electro-Optical/Infrared Weather Systems satellite in 2024. By developing these plans, DOD has reduced the risk of a gap in weather satellite data and addressed the concerns about a lack of planning that we identified in our 2017 High-Risk Report. DOD’s effective implementation of its plans will be key to further reducing the risks of gaps in weather satellite data in the future.

Monitoring After Removal

Moving forward, we will continue to monitor both NOAA and DOD efforts to develop and launch the next satellites in their respective weather satellite programs. NOAA plans to launch its next geostationary weather satellite in 2021 and to launch its next polar weather satellite in 2022. DOD plans satellite launches in 2021 (potentially), 2022, and 2024. In addition, we will continue to monitor DOD’s efforts to develop long-term plans to meet its weather satellite requirements.

Related GAO Products


Executive branch agencies are not meeting investigation timeliness objectives, and these processing delays have contributed to a significant backlog that the National Background Investigations Bureau (NBIB)—the agency responsible for personnel security clearance investigations—reported to be approximately 565,000 investigations as of February 2019. In addition, the executive branch has not finalized performance measures to ensure the quality of background investigations and some long-standing key reform initiatives remain incomplete. Further, information technology (IT) security concerns may delay planned milestones for the development of a new background investigation IT system.

We included the DOD program on our High-Risk List in 2005 and removed it in 2011 because of improvements in the timeliness of investigations and adjudications, and steps toward measuring the quality of the process. We put the government-wide personnel security clearance process on our High-Risk List in January 2018 because of significant challenges related to the timely processing of security clearances and completing the development of quality measures. In addition, the government’s effort to reform the personnel security clearance process, starting with the enactment of the Intelligence Reform and Terrorism Prevention Act of 2004, has had mixed progress, and key reform efforts have not been implemented government-wide. Since adding this area to the High-Risk List, the Security Clearance, Suitability, and Credentialing Performance Accountability Council (PAC), including its four principal members—the Deputy Director for Management of the Office of Management and Budget (OMB), the Director of National Intelligence (DNI); the Under Secretary of Defense for Intelligence; and the Director of the Office of Personnel Management (OPM)—have not fully met the five criteria for high-risk removal.

Several issues contribute to the risks facing the government-wide personnel security clearance process:

- **Clearance processing delays.** Executive branch agencies are not meeting most investigation timeliness objectives. The percentage of executive branch agencies meeting established timeliness objectives for initial secret clearances, initial top secret clearances, and periodic reinvestigations decreased each year from fiscal years 2012 through 2018. For example, 97 percent of the executive branch agencies we

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reviewed did not meet the timeliness objectives for initial secret clearance investigations in fiscal year 2018.

- **Lack of quality measures.** While the executive branch has taken steps to establish government-wide performance measures for the quality of background investigations—including establishing quality assessment standards and a quality assessment reporting tool—it is unclear when this effort will be completed.

- **Security clearance reform delays.** The executive branch has reformed many parts of the personnel security clearance process—such as updating adjudicative guidelines to establish common adjudicative criteria for security clearances; however, some long-standing key initiatives remain incomplete—such as completing plans to fully implement and monitor continuous evaluation.

- **IT security.** DOD is responsible for developing a new system to support background investigation processes, and DOD officials expressed concerns about the security of connecting to OPM’s legacy systems since a 2015 data breach compromised OPM’s background investigation systems and files for 21.5 million individuals. As of December 2018, OPM has not fully taken action on our priority recommendations to update its security plans, evaluate its security control assessments, and implement additional training opportunities.

However, since we added this area to our High-Risk List, the PAC has demonstrated progress in some areas. For example, NBIB reported that the backlog of background investigations decreased from almost 715,000 cases in January 2018 to approximately 565,000 cases in February 2019. NBIB officials credit an Executive Memorandum—issued jointly in June 2018 by the DNI and the Director of OPM and containing measures to reduce the investigation backlog—as a driver in backlog reduction.

Further, in response to a requirement in the Securely Expediting Clearances Through Reporting Transparency (SECRET) Act of 2018, in September 2018, NBIB reported to Congress, for each clearance level, (1) the size of the investigation backlog, (2) the average length of time to conduct an initial investigation and a periodic reinvestigation, and (3) a discussion of the factors contributing to investigation timeliness. The PAC is also reporting publicly on the progress of key reforms through www.performance.gov, and for fiscal year 2018, the website contains quarterly action plans and progress updates, which present figures on the

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average timeliness of initial investigations and periodic reinvestigations for the executive branch as a whole, investigation workload and backlog, and investigator headcounts.

We have made numerous recommendations to PAC members to address risks associated with the personnel security clearance process between 2011—when we removed DOD’s personnel security clearance program from the High-Risk List, and 2018—when we placed the government-wide personnel security clearance process on the High-Risk List. We consider 27 of these recommendations key to addressing the high-risk designation. Eight recommendations key to the high-risk designation have been implemented, including three since January 2018.

Nineteen of these key recommendations remain open—including recommendations that the principal members of the PAC (1) conduct an evidence-based review of investigation and adjudication timeliness objectives, (2) develop and report to Congress on investigation quality measures, (3) prioritize the timely completion of efforts to modernize and secure IT systems that affect clearance holders government-wide, and (4) develop and implement a comprehensive workforce plan that identifies the workforce needed to meet current and future demand for background investigations services and to reduce the investigations backlog.

See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.

<table>
<thead>
<tr>
<th>VA Acquisition Management Added to the High-Risk List</th>
</tr>
</thead>
<tbody>
<tr>
<td>VA spends tens of billions of dollars to procure a wide range of goods and services—including medical supplies, IT, and construction of hospitals, clinics, and other facilities—to meet its mission of providing health care and other benefits to millions of veterans. VA has one of the most significant acquisition functions in the federal government, both in obligations and number of contract actions. The Veterans Health Administration (VHA) provides medical care to veterans and is by far the largest administration in the VA. Since we began focusing on VA’s acquisition management activities in 2015, we have reported numerous challenges in this area. Since 2015, we have made 31 recommendations, 21 of which remain open, that cover a range of areas to address challenges in VA’s acquisition management.</td>
</tr>
</tbody>
</table>

In fiscal year 2019, VA received the largest discretionary budget in its history—$86.5 billion, about $20 billion higher than in 2015. About a third of VA’s discretionary budget in fiscal year 2017, or $26 billion, has been
used to contract for goods and services. VA’s acquisition management continues to face challenges including (1) outdated acquisition regulations and policies; (2) lack of an effective medical supplies procurement strategy; (3) inadequate acquisition training; (4) contracting officer workload challenges; (5) lack of reliable data systems; (6) limited contract oversight and incomplete contract file documentation; and (7) leadership instability.

In light of these challenges and given the significant taxpayer investment, it is imperative that VA show sustained leadership commitment to take steps to improve the performance of its procurement function so that it can use its funding in the most efficient manner possible to meet the needs of those who served our country.

This area has been added to the High-Risk List for the following reasons in particular:

- **Outdated acquisition regulations and policies.** VA’s procurement policies have historically been outdated, disjointed, and difficult for contracting officers to use. In September 2016, we reported that the acquisition regulations contracting officers currently follow have not been fully updated since 2008 and that VA had been working on completing a comprehensive revision of its acquisition regulations since 2011. VA’s delay in updating this fundamental source of policy has impeded the ability of contracting officers to effectively carry out their duties. We recommended in September 2016 that VA identify measures to expedite the revision of its acquisition regulations and clarify what policies are currently in effect. VA concurred with this recommendation but has not yet fully implemented it.

- **Lack of an effective medical supplies procurement strategy.** VA’s Medical Surgical Prime Vendor-Next Generation (MSPV-NG) program for purchasing medical supplies to meet the needs of about 9 million veterans at 172 medical centers has not been effectively executed, nor is it in line with practices at leading hospitals that have launched similar programs. We reported in November 2017 that VA’s approach to developing its catalog of supplies was rushed and lacked key stakeholder involvement and buy-in. As a result, VA was not able to accomplish some of the key efficiencies the program was intended to achieve, such as streamlining the purchase of medical supplies and saving money. We recommended in November 2017 that VA develop, document, and communicate to stakeholders an overarching strategy for the program. VA concurred with this recommendation and reported that it would develop a new strategy by March 2019.
• **Contracting officer workload challenges.** The majority of our reviews since 2015 have highlighted workload as a contributing factor to the challenges that contracting officers face. Most recently, in September 2018, we reported that about 54 percent of surveyed VA contracting officers said their workload was not reasonable. In addition, in September 2016, we reported that VHA contracting officers processed a large number of emergency procurements of routine medical supplies, which accounted for approximately 20 percent of VHA’s overall contract actions in fiscal year 2016, with obligations totaling about $1.9 billion. Contracting officers told us that these frequent and urgent small-dollar transactions reduce contracting officers’ efficiency and ability to take a strategic view of procurement needs. We recommended in November 2017 that VHA network contracting offices work with medical centers to identify opportunities to more strategically purchase goods and services frequently purchased on an emergency basis. VA concurred with this recommendation and reported in December 2018 that it is utilizing a supply chain dashboard to track items purchased on an emergency basis and determine which of those items to include on the catalog. VA noted that it added 13,300 items to the catalog from June 2018 to December 2018, including items often purchased on an emergency basis. We requested documentation showing which items added to the catalog were previously purchased on an emergency basis, but as of January 2019, VA had not yet provided it.

Among other things, VA should implement our 21 open recommendations and specifically needs to take the following steps to demonstrate greater leadership commitment and strategic planning to ensure efficient use of its acquisition funding and staffing resources:

- Prioritize completing the revision of its acquisition regulations, which has been in process since 2011.
- Develop, document, and communicate to stakeholders a strategy for the Medical Surgical Prime Vendor program to achieve overall program goals.
- Identify opportunities to strategically purchase goods and services that are frequently purchased on an emergency basis.

See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.
Emerging Issue Requiring Close Attention: Federal Efforts to Prevent Drug Misuse

In addition to specific areas that we have designated as high risk, other important challenges facing our nation merit continuing close attention. One of these is the use of illicit drugs and the misuse of prescription drugs and the ways they affect individuals, their families, and the communities in which they live. Over 70,000 people died from drug overdoses in 2017—about 191 people every day—according to the Centers for Disease Control and Prevention, with the largest portion of these deaths attributed to opioids. Further, drug overdoses are the leading cause of death due to injuries in the United States. They are currently at their highest ever recorded level and, since 2011, have outnumbered deaths by firearms, motor vehicle crashes, suicide, and homicide, according to the Drug Enforcement Administration. The Council of Economic Advisors estimates that in 2015, the economic cost of the opioid crisis alone was more than $500 billion when considering the value of lives lost due to opioid-related overdose.

Federal drug control efforts spanning prevention, treatment, interdiction, international operations, and law enforcement represent a considerable federal investment. According to the President’s fiscal year 2019 budget, federal drug control funding for fiscal year 2017 was $28.8 billion. Multiple federal agencies have ongoing efforts to respond to this crisis, including efforts to reduce the supply and demand for illicit drugs, to prevent misuse of prescription drugs, and to treat substance use disorders.

However, we previously found that many efforts lacked measures to gauge the success of the federal response. Further, we have long advocated an approach to decision-making based on risk management. Such an approach would (1) link agencies’ plans and budgets to achieving their strategic goals, (2) assess values and risks of various courses of actions to help set priorities and allocate resources, and (3) provide for the use of performance measures to assess progress.

The Office of National Drug Control Policy (ONDCP) is responsible for overseeing and coordinating the implementation of U.S. drug policy, including developing the National Drug Control Strategy (Strategy). ONDCP released the 2019 Strategy on January 31, 2019. The Strategy focuses on approaches related to prevention, treatment and recovery, and steps to reduce the availability of illicit drugs in the United States. We will continue to monitor the extent to which ONDCP and other federal agencies are employing a risk management and coordinated approach to their efforts to limit drug misuse.
In particular, we have ongoing and planned work to assess ONDCP’s operations, including its (1) leadership and coordination of efforts across the federal government; (2) the effects of the drug crisis on labor force participation and productivity and on people with disabilities and other vulnerable populations; (3) key federal efforts to reduce the availability of illicit drugs; and (4) agency efforts around drug education and prevention. We will determine whether this issue should be added to the High-Risk List once we have completed this ongoing and planned work.

High-Risk Areas That Made Progress

Agencies can show progress by addressing our five criteria for removal from the list: leadership commitment, capacity, action plan, monitoring, and demonstrated progress. As shown in table 3, 24 high-risk areas, or about two-thirds of all the areas, have met or partially met all five criteria for removal from our High-Risk List; 20 of these areas fully met at least one criterion. Compared with our last assessment, 7 high-risk areas showed progress in one or more of the five criteria without regressing in any of the criteria. Ten high-risk areas have neither met nor partially met one or more criteria. Two areas showed mixed progress by increasing in at least one criterion and also declining in at least one criterion. Three areas declined since 2017. These changes are indicated by the up and down arrows in table 3.

Table 3: 2017 High-Risk Areas Rated Against Five Criteria for Removal from GAO’s High-Risk List

<table>
<thead>
<tr>
<th>High-risk area</th>
<th>Change since 2017</th>
<th>Number of criteria</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Defense (DOD) Supply Chain Management</td>
<td>↑</td>
<td></td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Mitigating Gaps in Weather Satellite Data</td>
<td>↑</td>
<td></td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>DOD Support Infrastructure Management</td>
<td>↑</td>
<td></td>
<td>2</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Medicare Program &amp; Improper Payments</td>
<td>↑</td>
<td></td>
<td>2</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>DOD Financial Management</td>
<td>↑</td>
<td></td>
<td>1</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>DOE’s Contract Management for the National Nuclear Security Administration and</td>
<td>↑</td>
<td></td>
<td>1</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Office of Environmental Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOD Business Systems Modernization</td>
<td>↑</td>
<td></td>
<td>0</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>DOD Approach to Business Transformation</td>
<td>↑↓</td>
<td></td>
<td>1</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>USPS Financial Viability</td>
<td>↑↓</td>
<td></td>
<td>1</td>
<td>3</td>
<td>1</td>
</tr>
</tbody>
</table>

6Additional detail on our high-risk criteria and ratings is in appendix I.
<table>
<thead>
<tr>
<th>High-risk area</th>
<th>Change since 2017</th>
<th>Number of criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Acquisition Management</td>
<td>↓</td>
<td>Met: 1, Partially met: 4, Not met: 0</td>
</tr>
<tr>
<td>Transforming the Environmental Protection Agency’s (EPA) Processes for Assessing and Controlling Toxic Chemicals</td>
<td>↓</td>
<td>Met: 0, Partially met: 5, Not met: 0</td>
</tr>
<tr>
<td>Limiting the Federal Government’s Fiscal Exposure by Better Managing Climate Change Risks</td>
<td>↓</td>
<td>Met: 0, Partially met: 3, Not met: 2</td>
</tr>
<tr>
<td>Strengthening Department of Homeland Security Management Functions</td>
<td>●</td>
<td>Met: 3, Partially met: 2, Not met: 0</td>
</tr>
<tr>
<td>DOD Contract Management</td>
<td>●</td>
<td>Met: 1, Partially met: 4, Not met: 0</td>
</tr>
<tr>
<td>DOD Weapon Systems Acquisition</td>
<td>●</td>
<td>Met: 1, Partially met: 4, Not met: 0</td>
</tr>
<tr>
<td>Enforcement of Tax Laws</td>
<td>●</td>
<td>Met: 1, Partially met: 4, Not met: 0</td>
</tr>
<tr>
<td>Ensuring the Cybersecurity of the Nation</td>
<td>●</td>
<td>Met: 1, Partially met: 4, Not met: 0</td>
</tr>
<tr>
<td>Improving the Management of IT Acquisitions and Operations</td>
<td>●</td>
<td>Met: 1, Partially met: 4, Not met: 0</td>
</tr>
<tr>
<td>Managing Federal Real Property</td>
<td>●</td>
<td>Met: 1, Partially met: 4, Not met: 0</td>
</tr>
<tr>
<td>Protecting Public Health through Enhanced Oversight of Medical Products</td>
<td>●</td>
<td>Met: 1, Partially met: 4, Not met: 0</td>
</tr>
<tr>
<td>Strategic Human Capital Management</td>
<td>●</td>
<td>Met: 1, Partially met: 3, Not met: 1</td>
</tr>
<tr>
<td>Ensuring the Effective Protection of Technologies Critical to U.S. National Security Interests</td>
<td>●</td>
<td>Met: 0, Partially met: 5, Not met: 0</td>
</tr>
<tr>
<td>Improving and Modernizing Federal Disability Programs</td>
<td>●</td>
<td>Met: 0, Partially met: 5, Not met: 0</td>
</tr>
<tr>
<td>Management of Federal Oil and Gas Resources</td>
<td>●</td>
<td>Met: 0, Partially met: 5, Not met: 0</td>
</tr>
<tr>
<td>Modernizing the U.S. Financial Regulatory System</td>
<td>●</td>
<td>Met: 0, Partially met: 5, Not met: 0</td>
</tr>
<tr>
<td>National Flood Insurance Program</td>
<td>●</td>
<td>Met: 0, Partially met: 5, Not met: 0</td>
</tr>
<tr>
<td>Strengthening Medicaid Program Integrity</td>
<td>●</td>
<td>Met: 0, Partially met: 5, Not met: 0</td>
</tr>
<tr>
<td>Resolving the Federal Role in Housing Finance</td>
<td>●</td>
<td>Met: 0, Partially met: 4, Not met: 1</td>
</tr>
<tr>
<td>Improving Federal Oversight of Food Safety</td>
<td>●</td>
<td>Met: 0, Partially met: 3, Not met: 2</td>
</tr>
<tr>
<td>Managing Risks and Improving VA Health Care</td>
<td>●</td>
<td>Met: 0, Partially met: 2, Not met: 3</td>
</tr>
<tr>
<td>2020 Decennial Census</td>
<td></td>
<td>Met: 1, Partially met: 4, Not met: 0</td>
</tr>
<tr>
<td>Improving Federal Management of Programs that Serve Tribes and Their Members</td>
<td></td>
<td>Met: 0, Partially met: 5, Not met: 0</td>
</tr>
<tr>
<td>U.S. Government’s Environmental Liability</td>
<td></td>
<td>Met: 0, Partially met: 1, Not met: 4</td>
</tr>
<tr>
<td>Funding the Nation’s Surface Transportation System</td>
<td></td>
<td>Met: 0, Partially met: 1, Not met: 4</td>
</tr>
<tr>
<td>Pension Benefit Guaranty Corporation Insurance Programs</td>
<td></td>
<td>Met: 0, Partially met: 1, Not met: 4</td>
</tr>
</tbody>
</table>

(↑ indicates one or more areas progressed; ↓ indicates one or more areas declined since 2017; ↑↓ indicates mixed progress; ● indicates no change)

Source: GAO. | GAO-19-157SP

- Medicare Program & Improper Payments was only rated on the Improper Payments program; we did not rate other elements of the Medicare program because the area is subject to frequent legislative updates and the program is in a state of transition.
- Four areas are receiving ratings for the first time because they were newly added in 2017 and 2018.
- Two high-risk areas were not rated because addressing them primarily involves congressional action (Funding the Nation’s Surface Transportation System and Pension Benefit Guaranty Corporation Insurance Programs).
Figure 3 shows that since our 2017 update, the most progress was made on the action plan criterion—four high-risk areas received higher ratings. We rated two areas lower on leadership commitment and two areas lower on monitoring.

**Leadership Attention Needed to Meet High-Risk Criteria**

Table 4 shows that 17 of the 34 high-risk areas we rated have met the leadership commitment criterion while two high-risk area ratings regressed on leadership commitment from met to partially met since our last report.

Leadership commitment is the critical element for initiating and sustaining progress, and leaders provide needed support and accountability for managing risks. Leadership commitment is needed to make progress on
the other four high-risk criteria. Table 4 shows that only three high-risk areas met the criterion for capacity, six met the criterion for action plan, and two met the criterion for demonstrated progress. One high-risk area—U.S. Government’s Environmental Liability—has partially met only one criterion since we added the area to our list in 2017 and the rest are not met.

Table 4: 2019 High-Risk Area Ratings on Five Criteria for Removal from GAO’s High-Risk List

<table>
<thead>
<tr>
<th>High-risk area</th>
<th>Leadership commitment</th>
<th>Capacity</th>
<th>Action plan</th>
<th>Monitoring</th>
<th>Demonstrated progress</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Of Defense (DOD) Supply Chain Management</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>Mitigating Gaps in Weather Satellite Data</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>Strengthening Department of Homeland Security</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>Management Functions</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>Medicare Program &amp; Improper Payments</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
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<tr>
<td>DOD Support Infrastructure Management</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>2020 Decennial Census</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
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<tr>
<td>DOD Contract Management</td>
<td>★</td>
<td>★</td>
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<td>★</td>
<td>★</td>
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<tr>
<td>DOD Weapon Systems Acquisition</td>
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<td>★</td>
<td>★</td>
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<td>Enforcement of Tax Laws</td>
<td>★</td>
<td>★</td>
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<tr>
<td>Ensuring the Cybersecurity of the Nation</td>
<td>★</td>
<td>★</td>
<td>★</td>
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<td>★</td>
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<tr>
<td>Improving the Management of Information Technology</td>
<td>★</td>
<td>★</td>
<td>★</td>
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<td>★</td>
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<tr>
<td>Acquisitions and Operations</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Managing Federal Real Property</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
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<tr>
<td>Protecting Public Health through Enhanced Oversight</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
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<tr>
<td>of Medical Products</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>DOD Approach to Business Transformation</td>
<td>★</td>
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<td>★</td>
<td>★</td>
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<tr>
<td>NASA Acquisition Management</td>
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<td>DOD Financial Management</td>
<td>★</td>
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<td>★</td>
<td>★</td>
</tr>
<tr>
<td>Strategic Human Capital Management</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>High-risk area</td>
<td>Leadership commitment</td>
<td>Capacity</td>
<td>Action plan</td>
<td>Monitoring</td>
<td>Demonstrated progress</td>
</tr>
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<td>--------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>Government-wide Personnel Security Clearance Process</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>DOE’s Contract Management for the National Nuclear Security Administration and Office of Environmental Management</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>USPS Financial Viability</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>DOD Business Systems Modernization</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>Ensuring the Effective Protection of Technologies Critical to U.S. National Security Interests</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>Improving and Modernizing Federal Disability Programs</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>Improving Federal Management of Programs that Serve Tribes and Their Members</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>Management of Federal Oil and Gas Resources</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
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<tr>
<td>Modernizing the U.S. Financial Regulatory System</td>
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<td>★</td>
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<tr>
<td>National Flood Insurance Program</td>
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<td>★</td>
<td>★</td>
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<td>★</td>
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<tr>
<td>Strengthening Medicaid Program Integrity</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
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<tr>
<td>Transforming the Environmental Protection Agency’s (EPA) Processes for Assessing and Controlling Toxic Chemicals</td>
<td>★</td>
<td>★</td>
<td>★</td>
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<tr>
<td>Resolving the Federal Role in Housing Finance</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
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<tr>
<td>Limiting the Federal Government’s Fiscal Exposure by Better Managing Climate Change Risks</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>Improving Federal Oversight of Food Safety</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
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<tr>
<td>Managing Risks and Improving VA Health Care</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
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<tr>
<td>U.S. Government’s Environmental Liability</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
</tbody>
</table>

Legend: ★ Met ★ Partially Met ★ Not Met

Source: GAO. | GAO-19-157SP

Notes: Two high-risk areas—Funding the Nation’s Surface Transportation System and Pension Benefit Guaranty Corporation Insurance Programs—did not receive ratings against the five high-risk criteria because progress would primarily involve congressional action.
*Medicare Program & Improper Payments was only rated on the Improper Payments, and we did not rate other elements of the Medicare program.
Progress in High-Risk Areas

As noted, seven areas showed improvement in one or more criterion without regressing in any criteria. Two areas showed sufficient progress to be removed from the High-Risk List. The other five high-risk areas remaining on the 2019 list demonstrated improvement and are described below. Three of these five improving high-risk areas are the responsibility of the Department of Defense (DOD)—DOD Support Infrastructure Management, DOD Financial Management, and DOD Business Systems Modernization. The two other improving areas are Department of Energy’s (DOE’s) Contract Management for the National Nuclear Security Administration and Office of Environmental Management, and Medicare Program & Improper Payments.

- **DOD Support Infrastructure Management:** DOD manages a portfolio of real property assets that, as of fiscal year 2017, reportedly included about 586,000 facilities—including barracks, maintenance depots, commissaries, and office buildings. The combined replacement value of this portfolio is almost $1.2 trillion and includes about 27 million acres of land at nearly 4,800 sites worldwide. This infrastructure is critical to maintaining military readiness, and the cost to build and maintain it represents a significant financial commitment. Since our 2017 High-Risk Report, DOD’s rating for two criteria—leadership commitment and action plan—improved from partially met to met.

  DOD has demonstrated leadership commitment by stating its commitment to addressing key recommendations we have made by, for example, (1) better forecasting the initial Base Realignment and Closure (BRAC) costs for military construction, IT, and relocating military personnel and equipment; (2) better aligning infrastructure to DOD force structure needs by, for example, improving the accuracy and sufficiency of its excess capacity estimates; and (3) pursuing an effort to consolidate and standardize leases, which includes analyzing whether it is feasible to relocate functions from commercial leased space to existing space on an installation, thereby reducing leases and better utilizing excess space.

  DOD has developed action plans to better identify excess infrastructure and thus be positioned to dispose of it. For example, in the 2017 High-Risk Report, we stated that DOD’s Real Property Efficiency Plan includes DOD’s goals for reducing the footprint of its real property inventory and metrics to gauge progress, to be implemented by the end of 2020. We also found in 2018 that DOD was achieving cost savings and cost avoidance as it had begun using intergovernmental support agreements between military installations and local governments to obtain installation services, such as waste removal, grounds maintenance, and stray animal control. As a result of these and other actions, DOD now meets the action plan criterion for this high-risk area.
As of December 2018, 23 recommendations related to this high-risk area remain open. DOD continues to partially meet the criteria for capacity, monitoring, and demonstrated progress.

See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.

- **DOD Financial Management**: Since our 2017 High-Risk Report, ratings for the DOD Financial Management high-risk area improved for the criteria of leadership commitment and monitoring. For the leadership commitment criterion, the high-risk area rating improved from partially met to met in 2019 due to several DOD leadership actions. For example, in 2018, DOD leadership met the goal of undergoing an agency-wide financial statement audit and established a process to remediate any audit findings—ultimately to improve the quality of financial information that is most valuable in managing the department’s day-to-day operations. In addition, according to a DOD official, audit remediation efforts have produced benefits in certain inventory processes that have led to operational improvements.

  DOD leadership demonstrated its commitment to making needed improvements by developing a database that tracks hundreds of findings and recommendations that came out of the audits. In addition, senior leadership has been meeting bimonthly with military services’ leadership for updates on the status of corrective action plans to address audit findings and recommendations, and the Under Secretary of Defense (Comptroller) has been meeting frequently with the Secretary of Defense to review the plans.

  These same DOD actions also led to the high-risk area’s rating for the criterion of monitoring to improve from not met to partially met. For example, the database mentioned above is intended to capture, prioritize, and assign responsibility for auditor findings and related corrective action plans, which are meant to be used to measure progress towards achieving a clean audit opinion.

  Further, DOD leadership has held frequent meetings to discuss the status of corrective action plans. In addition, DOD also established councils in certain areas (e.g., financial reporting) to review the status of audit remediation activities and challenges. All of these actions demonstrate an improvement in DOD’s monitoring activities for its financial management function.

  However, DOD’s efforts to improve its financial management continue to be impaired by long-standing issues—including its decentralized environment; cultural resistance to change; lack of skilled financial
management staff; ineffective processes, systems, and controls; incomplete corrective action plans; and the need for more effective monitoring and reporting. DOD remains one of the few federal entities that cannot accurately account for and report on its spending or assets. As of December 2018, 53 recommendations for this high-risk area are open. The DOD Financial Management high-risk area continues to partially meet the capacity and action plan criteria and not meet the demonstrated progress criterion.

See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.

• **DOD Business Systems Modernization:** DOD spends billions of dollars each year to acquire modernized systems, including systems that address key areas such as personnel, financial management, health care, and logistics. This high-risk area includes three critical challenges facing DOD: (1) improving business system acquisition management, (2) improving business system investment management, and (3) leveraging DOD’s federated business enterprise architecture.

DOD’s capacity for modernizing its business systems has improved over time and, since our 2017 High-Risk Report, DOD’s overall rating for the criterion of action plan improved from not met to partially met in 2019. DOD established a plan for improving its federated business enterprise architecture (i.e., description of DOD’s current and future business environment and a plan for transitioning to the future environment). Specifically, the rating improved for DOD’s federated business enterprise architecture segment of the high-risk area because DOD’s assistant deputy chief management officer approved a business architecture improvement plan in January 2017.

Since 2017, we have made 10 recommendations related to this high-risk issue. As of December 2018, 27 recommendations are open. The leadership, capacity, monitoring, and demonstrated progress criteria remain partially met as in 2017.

See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.

• **DOE’s Contract Management for the National Nuclear Security Administration and Office of Environmental Management:** DOE oversees a broad range of programs related to nuclear security, science, energy, and waste cleanup, among other areas. As the largest civilian contracting agency in the federal government, DOE relies primarily on contractors to carry out its programs. For instance, DOE spends about 90
percent of its annual budget on contracts and acquiring capital assets. In fiscal year 2018, DOE’s budget was $34.5 billion.

The high-risk area focuses on contracts, as well as major projects—those with an estimated cost of $750 million or greater—managed by DOE’s National Nuclear Security Administration (NNSA) and Office of Environmental Management (EM).

Since our 2017 High-Risk Report, DOE has made progress by improving from a not met to a partially met rating for the demonstrated progress criterion. Specifically, through its Office of Cost Estimating and Program Evaluation, NNSA has enhanced its capability to estimate costs and schedules, and to assess alternatives for programs and projects, among other things. NNSA also made progress by adopting best practices in several areas, such as those for estimating costs and schedules in nuclear weapons refurbishment activities and capital asset acquisitions. For example, we determined that DOE’s revised cost estimate of $17.2 billion to construct a Mixed Oxide Fuel Fabrication Facility to dispose of surplus, weapons-grade plutonium substantially met best practices—providing assurance that the estimated costs could be considered reliable. This finding contributed to DOE’s reevaluation of the project and ultimate termination, in October 2018, in favor of a potentially less costly disposal approach.

Fifty-one of our recommendations were open as of December 2018; 15 recommendations were made since the last high-risk update in February 2017. DOE continues to meet the criterion of leadership commitment, partially meet the criteria for action plan and monitoring, and not meet the criterion for capacity.

See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.

- **Medicare Program & Improper Payments**: In calendar year 2017, Medicare, which is overseen by the Centers for Medicare & Medicaid Services (CMS), financed $702 billion worth of health services for approximately 58 million elderly and disabled beneficiaries. Medicare faces a significant risk with improper payments—payments that either were made in an incorrect amount or should not have been made at all—which reached an estimated $48 billion in fiscal year 2018.

Since our 2017 High-Risk Report, estimated improper payment rates declined more than one percent across the Medicare program. In addition, CMS’ rating for the capacity criterion of the improper payments segment improved from partially met to met in 2019 due to several actions. First, the Center for Program Integrity’s (CPI) budget and
resources have increased over time and the agency has established work groups and interagency collaborations to extend its capacity. For example, CMS allocated more staff to CPI after Congress provided additional funding. CPI's full-time equivalent positions increased from 177 in 2011 to 419 in 2017.

Additionally, in August 2017, we reported that CMS's Fraud Prevention System, which analyzes claims to identify health care providers with suspect billing patterns, helped speed up certain fraud investigation processes. Further, the Healthcare Fraud Prevention Partnership helped improve information sharing among payers inside and outside of the government.

Since 1990, when we added Medicare to our High-Risk List, we have made many recommendations related to the Medicare program, 28 of which were made since the last high-risk update in February 2017. As of December 2018, more than 80 recommendations remain open. CMS continues to meet the criterion of leadership commitment and to partially meet the remaining three criteria of action plan, monitoring, and demonstrated progress.

See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.

<table>
<thead>
<tr>
<th>Congressional Action</th>
<th>Congress enacted several laws since our last report in February 2017 to help make progress on high-risk issues. Table 5 lists selected examples of congressional actions taken on high-risk areas.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aided Progress on High-Risk Issues</td>
<td></td>
</tr>
<tr>
<td>High-risk area</td>
<td>Congressional actions taken</td>
</tr>
<tr>
<td>----------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td><strong>Department of Defense (DOD) Approach to Business Transformation</strong></td>
<td>Section 901(c) of the National Defense Authorization Act (NDAA) for Fiscal Year 2017 created the position of Chief Management Officer (CMO) within DOD, effective February 1, 2018. The 2016 passage of the NDAA is consistent with our February 2005 report, in which we identified the need for DOD to have a full-time CMO position created through legislation, with responsibility, authority, and accountability for DOD’s overall business transformation efforts. Based on congressional direction, DOD established and is beginning to restructure its CMO office to fulfill its responsibilities given by Congress. Continued leadership commitment at the highest levels will help sustain focus on this business transformation. The longer this critical position is filled by someone in an acting capacity, the greater the risk that DOD’s transformation efforts could be impacted. (Leadership commitment)</td>
</tr>
<tr>
<td><strong>Improving the Management of Information Technology (IT) Acquisitions and Operations</strong></td>
<td>Subtitle G of title X of the NDAA for Fiscal Year 2018 established a Technology Modernization Fund and Board, and allowed agencies to establish agency information technology system modernization and working capital funds. We identified the need to better manage the billions of dollars the federal government spends annually on legacy IT when we added this area to the High-Risk List in 2015. We further examined the government’s heavy reliance on legacy IT systems in our 2016 report. These provisions (1) allowed agencies to establish working capital funds for use in transitioning away from legacy IT systems and (2) created a technology modernization fund to help agencies retire and replace legacy systems, as well as acquire or develop new systems. (Capacity)</td>
</tr>
<tr>
<td><strong>Government-wide Personnel Security Clearance Process</strong></td>
<td>Section 925(k) of the NDAA for Fiscal Year 2018 requires the Director of National Intelligence, in coordination with the Chair and other principals of the Suitability, Security, and Credentialing Performance Accountability Council, to provide an annual assessment of any impediments to the timely processing of personnel security clearances. The 2017 passage of the NDAA is consistent with our December 2017 report, in which we asked Congress to consider both reinstate and adding to the requirement in the Intelligence Reform and Terrorism Prevention Act of 2004 for the executive branch to report to appropriate congressional committees annually on its background investigation process. Annual assessments will help Congress monitor the timeliness of the executive branch’s background investigations to monitor its own timeliness. The act requires the executive branch to report the length of time for initiating and conducting investigations and finalizing adjudications, and case load composition and costs, among other matters deemed relevant by Congress. (Monitoring)</td>
</tr>
<tr>
<td>High-risk area</td>
<td>Congressional actions taken</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>--------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Mitigating Gaps in Weather Satellite Data</td>
<td>Provisions of the NDAA for Fiscal Year 2015 limited the availability of certain funds until the Secretary of Defense submitted to congressional defense committees a plan related to weather satellites. Similarly, the NDAA for Fiscal Year 2016 limited the availability of certain funds until (1) the Secretary of Defense briefed the congressional defense committees on a plan for cloud characterization and theater weather imagery, and (2) the Chairman of the Joint Chiefs of Staff certified to the committees that the plan would meet DOD requirements without negatively affecting commanders of combatant commands.</td>
</tr>
<tr>
<td>Limiting the Federal Government’s Fiscal Exposure by Better Managing Climate Change Risks</td>
<td>Section 1234(a)(5) of the Disaster Recovery Reform Act of 2018 allows the President to set aside, with respect to each major disaster, a percentage of certain grants to use for pre-disaster hazard mitigation. Section 1206(a)(3) makes federal assistance available to state and local governments for building code administration and enforcement.</td>
</tr>
<tr>
<td>Ensuring the Cybersecurity of the Nation</td>
<td>An explanatory statement accompanying the Consolidated Appropriations Act, 2018 directed the National Protection and Programs Directorate to brief the appropriations committees on its specific plans to address GAO recommendations including the National Cybersecurity and Communications Integration Center’s (NCCIC) implementation of the recommendations for ensuring that it fulfills its statutory functions, such as sharing information about cyber threats, by timely reporting information that is relevant and actionable, and establishing appropriate performance metrics.</td>
</tr>
</tbody>
</table>
## High-risk area

### Managing Risks and Improving VA Health Care

**Congressional actions taken**

The No Veterans Crisis Line Call Should Go Unanswered Act directs the Department of Veterans Affairs (VA) to develop a quality assurance document for carrying out the toll-free Veterans Crisis Line, and requires VA to develop a plan to ensure that each telephone call, text message, and other communication received is answered in a timely manner.  

**How GAO work contributed to congressional actions**

About 6 months prior to the passage of this legislation, our May 2016 report identified the need for VA to take several steps to better test, track, and assess the performance of the Veterans Crisis Line in order to improve the timeliness and quality of its responses to veterans and others.  

**Impact on high-risk area**

In July 2017, VA updated a quality assurance plan with measurable targets and time frames for key performance indicators needed to assess Veterans Crisis Line performance. VA also established an Executive Leadership Council in March 2017 to monitor data on the key performance indicators. These two actions will assist with the oversight and accountability of the Veterans Crisis Line, and the services provided to veterans. *(Leadership commitment, Action plan, and Monitoring)*

### Improving Federal Management of Programs that Serve Tribes and Their Members

**Congressional actions taken**

An explanatory statement accompanying the Consolidated Appropriations Act, 2018 directed the Indian Health Service (IHS) to report to the appropriations committees on the status of its efforts on improving wait times for patients seeking primary and urgent care, including an explanation of how these efforts will address GAO recommendations.  

**How GAO work contributed to congressional actions**

We found that IHS had not conducted any systematic, agency-wide oversight of the timeliness of primary care in its federally operated facilities and recommended that IHS communicate specific agency-wide standards for patient wait times; monitor patient wait times; and ensure corrective actions are taken when standards are not met.  

**Impact on high-risk area**

IHS developed specific standards for patient wait times and developed a plan and timeline for implementing an agency-wide standard for patient wait times. It is also in the process of updating its patient wait time policy to include emergency department wait times and developing automated data collection for wait times. *(Leadership commitment, Action plan, and Monitoring)*

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Source: GAO analysis.  |  GAO-19-157SP

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7. Chairman Rodney P. Frelinghuysen of the Committee on Appropriations of the House of Representatives filed an explanatory statement relating to the House amendment of H.R. 1625 in the Congressional Record on March 22, 2016. 164 Cong. Rec. H2045, H2557. Section 4 of the Consolidated Appropriations Act, 2018, states that this explanatory statement shall have the same effect with respect to the allocation of funds and implementation of divisions A through L of the act as if it were a joint explanatory statement of a committee of conference. Pub. L. No. 115-141, § 4, 132 Stat. 348, 350 (2018).
Chairman Rodney P. Frelinghuysen of the Committee on Appropriations of the House of Representatives filed an explanatory statement relating to the House amendment of H.R. 1625 in the Congressional Record on March 22, 2016. 164 Cong. Rec. H2045, H2628. Section 4 of the Consolidated Appropriations Act, 2018, states that this explanatory statement shall have the same effect with respect to the allocation of funds and implementation of divisions A through L of the act as if it were a joint explanatory statement of a committee of conference. Pub. L. No. 115-141, § 4, 132 Stat. 348, 350 (2018).

Congressional oversight also plays a vital role in addressing high-risk issues. For example, at a May 2018 hearing, we testified that the Census Bureau’s (Bureau) cost estimate was not reliable, and that the actual cost could be higher than planned.\textsuperscript{7} Further, the Secretary of Commerce created a dedicated team to provide oversight and guidance to the Bureau on cost estimation.

In addition to its instrumental role in supporting progress in individual high-risk areas, Congress also enacted the following statutes that, if implemented effectively, will help foster progress on high-risk issues government-wide:

- **Fraud Reduction and Data Analytics Act of 2015 (FRDAA).**\textsuperscript{8} FRDAA is intended to strengthen federal antifraud controls. FRDAA requires OMB to use our Fraud Risk Framework\textsuperscript{9} to create guidelines for federal agencies to identify and assess fraud risks, and then design and implement control activities to prevent, detect, and respond to fraud. Agencies, as part of their annual financial reports beginning in fiscal year 2017, are further required to report on their fraud risks and their implementation of fraud reduction strategies, which should help Congress monitor agencies’ progress in addressing and reducing fraud risks.

To aid federal agencies in better analyzing fraud risks, FRDAA requires OMB to establish a working group tasked with developing a plan for creating an interagency library of data analytics and data sets to facilitate the detection of fraud and the recovery of improper payments. This working group and the library should help agencies coordinate their fraud detection efforts and improve their ability to use data analytics to monitor databases for potential improper payments. The billions of dollars in improper payments, some of which may be a result of fraud, are a central


part of the Medicare Program, Medicaid Program, and Enforcement of Tax Laws (Earned Income Tax Credit) high-risk areas.

We reported in 2018 that, among other things, OMB did not involve all agencies subject to the act as required by FRDAA or hold the required minimum number of working-group meetings in 2017. As shown in figure 4, a majority of the 72 agencies surveyed indicated a lack of involvement with and information from the working group as challenges in implementing FRDAA. We made three recommendations, including that OMB ensure the working group meets FRDAA’s requirements to involve all agencies that are subject to the act and ensure that mechanisms to share controls, best practices, and data-analytics techniques are in place. OMB did not concur with our recommendations. We continue to believe the recommendations are valid, as discussed in the 2018 report.

Figure 4: Percentage of Agencies That Identified Their Involvement with the Fraud Reduction and Data Analytics Act of 2015 Working Group as a Great or Moderate Challenge

<table>
<thead>
<tr>
<th></th>
<th>All agencies</th>
<th>Chief Financial Officers (CFO) Act agencies</th>
<th>Non-CFO Act agencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sufficiency of information from the working group</td>
<td>68</td>
<td>63</td>
<td>71</td>
</tr>
<tr>
<td>Sufficiency of your agency’s involvement with the working group</td>
<td>54</td>
<td>67</td>
<td>73</td>
</tr>
</tbody>
</table>

Source: GAO analysis of survey data. | GAO-19-157SP

• IT Acquisition Reform, statutory provisions known as the Federal Information Technology Acquisition Reform Act (FITARA):\(^{11}\) FITARA, enacted in December 2014, was intended to improve how agencies acquire IT and better enable Congress to monitor agencies' progress in reducing duplication and achieving cost savings. Since the enactment of these provisions, OMB and federal agencies have paid greater attention to IT acquisition and operation, resulting in improvements to the government-wide management of this significant annual investment. These efforts have been motivated in part by sustained congressional support for improving implementation of this law, as highlighted in agencies' FITARA implementation scores issued biannually by the House Committee on Oversight and Reform.

This continuing oversight has produced positive results. For example, in the committee's December 2018 FITARA implementation scorecard, 18 of the 24 major federal agencies received the highest possible rating for their efforts to improve the management of software licenses, of which we have found there are thousands annually across the government. Seven months earlier, in the prior scorecard, only eight agencies had achieved this rating. Moreover, federal agencies have taken actions to address 106 of the 136 related recommendations that we have made in this area since 2014.

FITARA includes specific requirements related to seven areas: the federal data center consolidation initiative, enhanced transparency and improved risk management, agency Chief Information Officer authority enhancements, portfolio review, expansion of training and use of IT acquisition cadres, government-wide software purchasing, and maximizing the benefit of the federal strategic sourcing initiative.

In November 2017, Congress extended or removed the sunset dates of several of these statutory requirements that were originally to end in 2018 and 2019.\(^{12}\) While all of the 24 federal agencies covered by this law have developed FITARA implementation plans, the agencies need to effectively execute these plans. Successfully addressing FITARA requirements is central to making progress in Improving the Management of IT Acquisitions and Operations, which has been on our High-Risk List since 2015.


• **Program Management Improvement Accountability Act (PMIAA):**

Enacted in December 2016, the act is intended to improve program and project management in certain larger federal agencies. Among other things, the act requires the Deputy Director for Management of OMB to adopt and oversee implementation of government-wide standards, policies, and guidelines for program and project management in executive agencies. The act also requires the Deputy Director to conduct portfolio reviews to address programs we identify as high-risk. It further creates a Program Management Policy Council to act as the principal interagency forum for improving practices related to program and project management. The council is to review programs identified as high-risk and make recommendations to the Deputy Director or designee.

OMB has produced a general strategy for implementing the law through 2022 and met some initial milestones required by PMIAA. For example, in June 2018, OMB issued OMB Memorandum M-18-19, which includes: (1) agency guidance for implementing PMIAA, (2) a five-year strategic outline for improving program and project management, and (3) initial program management standards and principles. Further, agencies have designated Program Management Improvement Officers to guide their implementation of PMIAA.

According to OMB, it began implementing PMIAA’s requirement to conduct portfolio reviews on high-risk areas by requiring relevant agencies to provide several items for discussion during the 2018 Strategic Review meetings. These annual meetings are to consist primarily of a discussion of agency progress towards each of the strategic objectives outlined in their strategic plans, but also cover other management topics such as enterprise risk management and high-risk area progress. According to OMB documents, in advance of these meetings, OMB required agencies to provide a high-level summary of (1) any disagreements with our recommendations, (2) progress barriers, and (3) actions needed by OMB, other agencies, or Congress to help the agency achieve progress towards removal from our High-Risk List.

OMB officials told us their 2018 Strategic Review meetings did not address each high-risk area but did address government-wide high-risk areas, such as cybersecurity, information technology, and strategic human capital as they related to the President’s Management Agenda.

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In the past, senior management officials from OMB, applicable agencies, and our agency have met to address areas where additional management attention could be beneficial to high-risk issues. These trilateral meetings, beginning in 2007 and pre-dating PMIAA’s 2016 enactment, have continued across administrations.

However, OMB has organized only one of these high-risk meetings since the last high-risk update in 2017, on the Government-wide Personnel Security Clearance Process. In November 2018, OMB told us of plans to hold additional meetings on priority high-risk areas, including the 2020 Decennial Census, Strategic Human Capital Management, Ensuring the Cybersecurity of the Nation, National Aeronautics and Space Administration (NASA) Acquisition Management, and Managing Federal Real Property.

Effective implementation of PMIAA provides an important opportunity to enhance progress on high-risk areas by focusing leadership attention through the portfolio reviews and trilateral meetings. Further, a number of high-risk areas have longstanding or significant program and project management concerns, including the acquisition-related high-risk areas for DOD, DOE, NASA, and VA. These and other programs can benefit from improving program and project management. In December 2019, we will report on OMB’s progress in implementing PMIAA, including what further steps it has taken to use the portfolio review process required in PMIAA to address issues on our High-Risk List.

Executive Branch Action on Our Recommendations Aided Progress on High-Risk Issues

Agency leaders took actions to implement our recommendations. These resulted in numerous improvements to programs and operation and improved service. Further, these actions to implement our recommendations resulted in significant financial benefits. Table 6 shows some examples of the financial benefits achieved since our last High-Risk Report.
### Table 6: Examples of GAO High-Risk Area Recommendations Leading to Financial Benefits

<table>
<thead>
<tr>
<th>High-risk area</th>
<th>GAO recommendations leading to financial benefits</th>
<th>Financial benefits achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strengthening Medicaid Program Integrity</td>
<td>In multiple reports, we found that demonstration spending limits approved by the Department of Health and Human Services (HHS) often were not budget neutral, as required by HHS policy. This increased the federal government’s fiscal liability by billions of dollars. We recommended that HHS better ensure that valid methods are used to determine spending limits.</td>
<td>HHS responded by limiting the amount of unspent funds states may accrue and reducing the federal government’s fiscal liability. As a result, the Centers for Medicare &amp; Medicaid Services was able to identify a total of $23.5 billion in financial benefits for fiscal year (FY) 2017.</td>
</tr>
<tr>
<td>Improving the Management of Information Technology (IT) Acquisitions and Operations</td>
<td>In multiple reports, we made recommendations for improving the management of IT portfolios, which resulted in reduced agency commodity IT spending and fewer duplicative investments.</td>
<td>Agencies have achieved about $2.5 billion in savings from fiscal years 2012 to 2017 through the Office of Management and Budget’s PortfolioStat that was intended to consolidate and eliminate duplicative systems. Agencies have the potential to achieve about $3.5 billion in additional savings.</td>
</tr>
<tr>
<td>Resolving the Federal Role in Housing Finance</td>
<td>In June 2013, we recommended actions for the Federal Housing Administration (FHA) to increase returns on sales of foreclosed properties with FHA-insured mortgages.</td>
<td>FHA’s actions in response to our recommendations improved its returns and led to financial benefits totaling about $1.3 billion in 2017.</td>
</tr>
<tr>
<td>Medicare Program &amp; Improper Payments</td>
<td>In December 2015, we recommended that Congress consider directing the Secretary of HHS to equalize payment rates between physician offices and hospital outpatient departments for evaluation and management services and to return the associated savings to the Medicare program.</td>
<td>This change in reimbursement resulted in estimated cost savings to the program of $1.6 billion in FYs 2017 and 2018, and will result in additional savings going forward.</td>
</tr>
<tr>
<td>Enforcement of Tax Laws</td>
<td>In June 2015, we expressed concerns to Internal Revenue Service (IRS) officials about fraudsters potentially using taxpayer account information stolen in the 2014 and 2015 “Get Transcript” online service data breach to file multiple fraudulent returns and receive refunds. In response, IRS changed its authentication and monitoring procedures for accounts affected by the breach.</td>
<td>As a result of our suggestion and the new authentication procedures, in August 2017 we found that IRS prevented paying a total of $480.2 million in fraudulent refunds in FYs 2015 and 2016. In 2018, we found that IRS prevented an additional $110 million in FY 2017.</td>
</tr>
<tr>
<td>National Flood Insurance Program</td>
<td>Staff from the Federal Emergency Management Administration (FEMA) identified a number of actions that the agency has taken or has underway to address issues we raised related to its rate-setting methods in June 2011. In response to a congressional matter we made, congressional staff notified us that Congress passed the Biggert-Waters Flood Insurance Reform Act of 2012 which eliminated or phased out subsidized premium rates for several types of properties.</td>
<td>As a result of changes FEMA has made in rates for certain subsidized properties, we estimate that policyholders with these subsidized premiums paid $338.4 million (net present value) more in premiums as of the end of FY 2017 than they would have paid prior to the enactment of the Biggert-Waters Act.</td>
</tr>
</tbody>
</table>

Source: GAO analysis. | GAO-19-157SP
Successful outcomes in highly uncertain environments require leadership and commitment to managing risks and other complex outcomes. Enterprise Risk Management (ERM) is the practice of identifying and managing risks that cover an entire organization, including how risks interact, as an interrelated portfolio. To help ensure that agencies are effectively managing risks that could affect the achievement of agency strategic objectives, OMB added ERM in its Circular A-11 on budget preparation in July 2014 and its Circular A-123 on agencies’ responsibility for ERM and Internal Control in July 2016. In the spring of 2018, agencies were to follow the OMB guidance to profile their top risks as part of the discussion in OMB’s required Strategic Review meetings.

To further assist agencies in managing their risks, in December 2016 we identified six essential elements of ERM—along with agency good practices—that federal leaders can use to implement and sustain an effective risk management program.15 The consistent and regular use of ERM can help agency leaders identify and manage risks, including high-risk issues. Figure 5 shows the six essential elements we identified.

In the 2 years since our last High-Risk Report, three areas—NASA Acquisition Management, Transforming EPA’s Process for Assessing and Controlling Toxic Chemicals, and Limiting the Federal Government’s Fiscal Exposure By Better Managing Climate Change Risks—have regressed in their ratings against our criteria for removal from the High-Risk List. In addition, while progress is needed across all high-risk areas, we have identified nine additional areas that require significant attention to address imminent, longstanding, or particularly broad issues affecting the nation.
NASA plans to invest billions of dollars in the coming years to explore space, improve its understanding of the Earth’s environment, and conduct aeronautics research, among other things. We designated NASA’s acquisition management as high risk in 1990 in view of NASA’s history of persistent cost growth and schedule delays in the majority of its major projects.

Following several years of continuing a generally positive trend of limiting cost growth and schedule delays for its portfolio of major projects, we found that NASA’s average launch delay increased from 7 to 12 months between May 2017 and May 2018. Further, the overall development cost growth increased from 15.6 percent to at least 18.8 percent over the same time period. NASA’s largest science project, the James Webb Space Telescope, has experienced schedule delays of 81 months and cost growth of 95 percent since the project’s cost and schedule baseline was first established in 2009.

NASA is at risk for continued cost growth and schedule delays in its portfolio of major projects. Since our 2017 high-risk update, we have lowered NASA acquisition management from meeting the rating to partially meeting the rating in two criteria—leadership commitment and monitoring. The other three criteria ratings remained the same as in 2017. Ratings for capacity and demonstrated progress remain partially met and the rating for action plan remains met.

Over the next several years, NASA plans to add new, large, and complex projects to the portfolio, including a lunar Gateway—currently being discussed as a platform in a lunar orbit to mature deep space exploration capabilities. In addition, many of NASA’s current major projects, including some of the most expensive ones, are in the phase of their life cycles when cost growth and schedule delays are most likely.

NASA acquisition management requires significant attention for the following reasons:

- NASA leadership has approved risky programmatic decisions for complex major projects, which compounded technical challenges. For example, leadership has approved some programs to proceed (1) with low cost and schedule reserves, (2) with overly aggressive schedules,
and (3) without following best practices for establishing reliable cost and schedule baselines.

- NASA leadership has also not been transparent about cost and schedule estimates for some of its most expensive projects. Without transparency into these estimates, both NASA and Congress have limited data to inform decision making.

- NASA has not yet instituted a program for monitoring and independently validating the effectiveness and sustainability of the corrective action measures in its new action plan, which NASA finalized in December 2018.

In addition, while NASA has taken some steps to build capacity to help reduce acquisition risk, including updating tools aimed at improving cost and schedule estimates, other areas still require attention. For example, we reported in May 2018 that several major NASA projects experienced workforce challenges, including not having enough staff or staff with the right skills. NASA has also identified capability gaps in areas such as scheduling, earned value management, and cost estimating, and has efforts underway to try to improve capacity in these areas.

Since 2017, we have made 9 recommendations on this high-risk area, and as of December 2018, 15 recommendations remain open. These recommendations include that NASA needs to improve transparency of major project cost and schedule estimates, especially for its human spaceflight programs, as well as continue to build capacity to reduce acquisition risk. NASA will also need to implement its new action plan and track progress against it. See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.

Transforming EPA's Process for Assessing and Controlling Toxic Chemicals

The Environmental Protection Agency's (EPA's) ability to effectively implement its mission of protecting public health and the environment is dependent on it assessing the risks posed by chemicals in a credible and timely manner. Such assessments are the cornerstone of scientifically sound environmental decisions, policies, and regulations under a variety of statutes.

Based on our work since our 2017 High-Risk Report, the overall rating for leadership commitment decreased from met to partially met due to limited information for completing chemical assessments and proposed budget cuts in the Integrated Risk Information System (IRIS) Program. The ratings for the remaining four criteria remain unchanged and are partially met.
The EPA Acting Administrator indicated his commitment to fulfill the agency’s obligations under the Toxic Substances Control Act (TSCA) as amended by the 2016 Frank R. Lautenberg Chemical Safety for the 21 Century Act (Lautenberg Act) and ensure chemicals in the marketplace are safe for human health and the environment. Nonetheless, EPA needs to give more attention to several areas to fully realize the benefits of the new law, and to demonstrate additional progress in the IRIS Program, such as:

- While EPA released a document in late December 2018 called the IRIS Program Outlook, the Outlook fails to list the projected date for most of the assessments and includes no information regarding assessment prioritization—including how these assessments will meet program and regional office needs.

- The Lautenberg Act increases both EPA’s responsibility for regulating chemicals and its workload. EPA recently issued a rule under the act to collect fees from certain companies to defray a portion of the implementation costs, but it is unclear whether the fees collected will be sufficient to support relevant parts of the program.

- EPA issued a First Year Implementation Plan in June 2016 noting that this document is intended to be a roadmap of major activities EPA will focus on during the initial year of implementation. As of mid-February 2019 the plan has not been updated, according to publically available information, although EPA had indicated that it is a living document that will be further developed over time.

EPA needs to ensure that the people and resources dedicated to the IRIS Program and TSCA implementation are sufficient. Our March 2019 report on chemical assessments provides information on what remains to be done to address challenges in the IRIS program and implement the Lautenberg Act.\(^\text{16}\)

Since we added this area to our High-Risk List in 2009, we have made 12 recommendations to EPA related to IRIS and TSCA. As of February 2019, seven recommendations remain open. See appendix II for additional detail on this high-risk area including actions that need to be taken.

Numerous studies have concluded that climate change poses risks to many environmental and economic systems and creates a significant fiscal risk to the federal government. The rising number of natural disasters and increasing reliance on the federal government for assistance is a key source of federal fiscal exposure. As of December 2018, total federal funding for disaster assistance since 2005 is approaching half a trillion dollars (about $430 billion), most recently for catastrophic hurricanes, flooding, wildfires, and other losses in 2017 and 2018. The costliness of disasters is projected to increase as extreme weather events become more frequent and intense due to climate change. There are five areas where government-wide action is needed to reduce federal fiscal exposure, including, but not limited to, the federal government’s role as (1) the insurer of property and crops; (2) the provider of disaster aid; (3) the owner or operator of infrastructure; (4) the leader of a strategic plan that coordinates federal efforts and informs state, local, and private-sector action; and (5) the provider of data and technical assistance to decision makers.

Neither global efforts to mitigate climate change causes nor regional adaptation efforts currently approach the scales needed to avoid substantial damages to the U.S. economy, environment, and human health over the coming decades, according to the November 2018 Fourth National Climate Assessment. Government-wide action is needed to improve the nation’s resilience to natural hazards and reduce federal fiscal exposure to climate change impacts.

Congress continues to show its commitment to progress on this high-risk issue by enacting legislation such as the National Defense Authorization Act of 2018, which among other things required DOD to report on climate impacts to its installations.\(^\text{17}\) However, the federal government has not made measurable progress since 2017 to reduce its fiscal exposure to climate change, and in some cases, has revoked prior policies designed to do so. Specifically, since 2017, the ratings for four criteria remain unchanged—three at partially met and one at not met. The rating for one criterion—monitoring—regressed to not met.

Limiting the federal government’s fiscal exposure to climate change requires significant attention because the federal government has revoked prior policies that had partially addressed this high-risk area and has not implemented several of our recommendations that could help.

reduce federal fiscal exposure. For example, since our 2017 high-risk update, the federal government:

- revoked Executive Order 13690, which had established a government-wide federal flood risk management standard to improve the resilience of communities and federal assets against the impacts of flooding. This action could increase federal fiscal exposure, as taxpayer-funded projects may not last as long as intended because they are not required to account for future changes in climate-related risk.
- rescinded its guidance directing agencies to consider climate change in their National Environmental Policy Act of 1969 reviews for certain types of federal projects.
- has not implemented our July 2015 recommendation to establish a comprehensive investment strategy identifying, prioritizing, and implementing federal disaster resilience investments that could reduce federal fiscal exposure to climate change.
- has not implemented our November 2015 recommendations to create a national climate information system providing authoritative, accessible information useful for state, local, and private-sector decision making.

We have made 62 recommendations related to this high-risk area, 12 of which were made since our February 2017 high-risk update. As of December 2018, 25 remain open. The federal government needs a cohesive strategic approach with strong leadership and the authority to manage climate change risks across the entire range of federal activities. See appendix II for additional detail on this high-risk area, including actions that need to be taken.

Additional High-Risk Areas That Need Significant Attention

Ensuring the Cybersecurity of the Nation

Federal agencies and the nation’s critical infrastructures—such as energy, transportation systems, communications, and financial services—are dependent on information technology systems to carry out operations. The security of these systems and the data they use is vital to public confidence and national security, prosperity, and well-being. The risks to systems underpinning the nation’s critical infrastructure are increasing as security threats evolve and become more sophisticated.
We first designated information security as a government-wide high-risk area in 1997. This was expanded to include protecting cyber critical infrastructure in 2003 and protecting the privacy of personally identifiable information in 2015. In 2018, we updated this high-risk area to reflect the lack of a comprehensive cybersecurity strategy for the federal government.

Since 2010, we have made over 3,000 recommendations to agencies aimed at addressing cybersecurity shortcomings, including protecting cyber critical infrastructure, managing the cybersecurity workforce, and responding to cybersecurity incidents. Of those 3,000 recommendations, 448 were made since our last high-risk update in February 2017. Although many recommendations have been addressed, about 700 have not yet been implemented.

Despite the number of unimplemented recommendations, since our 2017 High-Risk Report, the administration has made progress in this high-risk area as it continues to meet the leadership commitment criterion through various actions. These include the President issuing (1) an executive order in May 2017 requiring federal agencies to take a variety of actions, including better managing their cybersecurity risks and coordinating to meet reporting requirements related to cybersecurity of federal networks and critical infrastructure\(^\text{18}\) and (2) a National Security Strategy in December 2017 citing cybersecurity as a national priority and identifying needed actions. Further, the administration issued a government-wide reform plan and reorganization recommendations in June 2018 with, among other things, proposals for solving the federal cybersecurity workforce shortage. Additionally, the administration released a National Cyber Strategy in September 2018 outlining activities such as securing critical infrastructure, federal networks, and associated information.

However, additional actions are needed. We have identified four major cybersecurity challenges facing the nation: (1) establishing a comprehensive cybersecurity strategy and performing effective oversight, (2) securing federal systems and information, (3) protecting cyber critical infrastructure, and (4) protecting privacy and sensitive data. To address the four major cybersecurity challenges, we identified 10 critical actions the federal government and other entities need to take. These critical actions include, for example, developing and executing a more

comprehensive federal strategy for national cybersecurity and global cyberspace; addressing cybersecurity workforce management challenges; and strengthening the federal role in protecting the cybersecurity of critical infrastructure (see figure 6).
Figure 6: Ten Critical Actions Needed to Address Four Major Cybersecurity Challenges

<table>
<thead>
<tr>
<th>Major challenges</th>
<th>Critical actions needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Establishing a comprehensive cybersecurity strategy</td>
<td>Develop and execute a more comprehensive federal strategy for national cybersecurity and global cyberspace.</td>
</tr>
<tr>
<td>and performing effective oversight</td>
<td>Mitigate global supply chain risks (e.g., installation of malicious software or hardware).</td>
</tr>
<tr>
<td>Securing federal systems and information</td>
<td>Address cybersecurity workforce management challenges.</td>
</tr>
<tr>
<td></td>
<td>Ensure the security of emerging technologies (e.g., artificial intelligence and Internet of Things).</td>
</tr>
<tr>
<td>Protecting cyber critical infrastructure</td>
<td>Improve implementation of government-wide cybersecurity initiatives.</td>
</tr>
<tr>
<td></td>
<td>Address weaknesses in federal agency information security programs.</td>
</tr>
<tr>
<td></td>
<td>Enhance the federal response to cyber incidents.</td>
</tr>
<tr>
<td>Protecting privacy and sensitive data</td>
<td>Strengthen the federal role in protecting the cybersecurity of critical infrastructure (e.g., electricity grid and telecommunications networks).</td>
</tr>
<tr>
<td></td>
<td>Improve federal efforts to protect privacy and sensitive data.</td>
</tr>
<tr>
<td></td>
<td>Appropriate limit the collection and use of personal information and ensure that it is obtained with appropriate knowledge or consent.</td>
</tr>
</tbody>
</table>

Source: GAO analysis. | GAO-19-157SP
Until these shortcomings are addressed, federal agencies’ information and systems will be increasingly susceptible to the multitude of cyber-related threats that exist. See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.

The expanded federal role in housing finance that began during the 2007–2009 financial crisis has substantially increased the government’s exposure to potential mortgage losses. Federally supported mortgages include those backed by the Federal National Mortgage Association (Fannie Mae) and the Federal Home Loan Mortgage Corporation (Freddie Mac)—collectively, the enterprises—which the Federal Housing Finance Agency (FHFA) placed into government conservatorships in 2008. Federal support also occurs through Federal Housing Administration (FHA) mortgage insurance and Government National Mortgage Association (Ginnie Mae) guarantees on mortgage-backed securities. The substantial financial assistance the enterprises required during and after the crisis, coupled with the large fiscal exposure they and other federal mortgage entities represent today, underscore the need to reform the federal role in housing finance.

Delay in resolving the federal role in housing finance poses considerable risks. Through the enterprises, FHA, and Ginnie Mae, the federal government is exposed to potential losses on several trillion dollars in mortgage debt. A severe economic downturn could trigger significant taxpayer assistance to one or more of these entities.

Congress and federal agencies have taken some steps to facilitate the transition to a revised federal role, such as holding hearings, introducing legislation, issuing regulations, and developing market monitoring tools. For example, in 2013 and 2014, housing and regulatory agencies finalized rules designed to prevent a recurrence of risky practices in originating and securing mortgages that contributed to the financial crisis. Additionally, FHFA and the Consumer Financial Protection Bureau have developed a representative database of mortgage information that could be useful for examining the effect of mortgage market reforms. However, overall progress on resolving the federal role will be difficult to achieve until Congress provides further direction by enacting changes to the housing finance system.

Several issues contribute to the risks facing federal housing finance, including the following:

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**Resolving the Federal Role in Housing Finance**
More than 10 years after entering federal conservatorships, the enterprises’ futures remain uncertain and billions of taxpayer dollars remain at risk. Under agreements with the Department of the Treasury (Treasury), the enterprises have received $191.4 billion in capital support as of the end of fiscal year 2018 and have paid dividends to the department exceeding that amount. If they were to incur major additional losses, they would draw required amounts from their remaining $254.1 billion in Treasury commitments. In addition, prolonged conservatorships could hinder development of the broader mortgage securities market by creating uncertainty and crowding out private investment.

Nonbanks (lenders and loan servicers that are not depository institutions) have played an increasingly large role in the mortgage market in recent years. While nonbanks have helped provide access to mortgage credit, they also may pose additional risks, in part because they are not federally regulated for safety and soundness. However, FHFA lacks statutory authority to examine nonbank mortgage servicers and other third parties who do business with and pose potential risks to the enterprises.

The statutory 2 percent capital requirement for FHA’s $1.26 trillion mortgage insurance fund is not based on a specified risk threshold, such as the economic conditions the fund would be expected to withstand. As a result, it may not provide an adequate financial cushion under scenarios in which Congress may anticipate the fund would be self-sufficient. During the last housing downturn, the fund’s capital ratio fell below the required level and remained there for 6 consecutive years. At the end of fiscal year 2013, the fund required supplemental funds—about $1.7 billion—for the first time in its history.

Six of our federal housing recommendations remain open, including those we made in June 2015 on assessing the effects of mortgage reforms already in place.

Further, as we previously recommended in November 2016 and January 2019, Congress should consider housing finance reform legislation that:

- establishes objectives for the future federal role in housing finance, including the role and structure of the enterprises within the housing finance system;
- provides a transition plan to a reformed system that enables the enterprises to exit federal conservatorship; and
- addresses all relevant federal entities, including FHA and Ginnie Mae.

As we recommended in March 2016 and November 2017, respectively, Congress also should consider granting FHFA explicit authority to
examine nonbank servicers and other third parties that do business with the enterprises, and specifying the economic conditions FHA’s insurance fund would be expected to withstand without a substantial risk of requiring supplemental funds. See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.

Due to the significance and risk associated with Resolving the Federal Role in Housing Finance, we are separating it from the high-risk area of Modernizing the U.S. Financial Regulatory System. These areas were combined in our 2017 High-Risk report.

The Pension Benefit Guaranty Corporation (PBGC) is responsible for insuring the defined benefit pension plans for nearly 37 million American workers and retirees, who participate in about 24,800 private sector plans. PBGC faces an uncertain financial future due, in part, to a long-term decline in the number of traditional defined benefit plans and the collective financial risk of the many underfunded pension plans that PBGC insures.

PBGC’s financial portfolio is one of the largest of all federal government corporations. While PBGC’s single employer program had a net surplus of about $2.4 billion at the end of fiscal year 2018, its multiemployer program had a net deficit of about $54 billion—or a combined net accumulated financial deficit of over $51 billion. Its deficit has increased by nearly 45 percent since fiscal year 2013. PBGC has estimated that, without additional funding, its multiemployer insurance program will likely be exhausted by 2025 as a result of current and projected pension plan insolvencies. The agency’s single-employer insurance program is also at risk due to the continuing decline of traditional defined benefit pension plans, as well as premiums that are not well aligned to the financial risk presented by the plans it insures.

While Congress and PBGC have taken significant and positive steps to strengthen the agency in the past 5 years, challenges related to PBGC’s funding and governance structure remain. Congress established a temporary Joint Select Committee on multiemployer pension plans in 2018—with the goal of improving the solvency of the multiemployer program. However, the committee did not release draft legislation. Addressing the significant financial risk and governance challenges that PBGC faces will require additional congressional action.

Over the years since we added PBGC to the High-Risk List, we have suggested a number of matters for congressional consideration,
including: (1) authorizing a redesign of PBGC’s single employer program premium structure to better align premium rates with sponsor risk; (2) adopting additional changes to PBGC’s governance structure—in particular, expanding the composition of its board of directors; (3) strengthening funding requirements for plan sponsors as appropriate given national economic conditions; (4) working with PBGC to develop a strategy for funding PBGC claims over the long term as the defined benefit pension system continues to decline; and (5) enacting additional structural reforms to reinforce and stabilize the multiemployer system, and balance the needs and potential sacrifices of contributing employers, participants, and the federal government.

Absent additional steps to improve PBGC’s finances, the long-term financial stability of the agency remains uncertain, and the retirement benefits of millions of American workers and retirees could be at risk of dramatic reductions. See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.

VA operates one of the largest health care delivery systems in the nation through its Veterans Health Administration (VHA), with 172 medical centers and more than 1,000 outpatient facilities organized into regional networks. VA has faced a growing demand by veterans for its health care services—due, in part, to the needs of an aging veteran population—and that trend is expected to continue. The total number of veterans enrolled in VA’s health care system rose from 7.9 million to more than 9 million from fiscal year 2006 through fiscal year 2017. Over that same period, VHA’s total budgetary resources have more than doubled, from $37.8 billion in fiscal year 2006 to $92.3 billion in fiscal year 2017.

Given the importance of VHA’s mission, coupled with its lack of progress in addressing its high-risk designation, we continue to be concerned about VHA’s ability to ensure its resources are being used effectively and efficiently to improve veterans’ timely access to safe and high-quality health care. We have identified five areas of concern: (1) ambiguous policies and inconsistent processes; (2) inadequate oversight and accountability; (3) IT challenges; (4) inadequate training for VA staff; and (5) unclear resource needs and allocation priorities. VHA has begun to address each of these areas but, prior to Secretary Robert Wilkie’s July 2018 confirmation, its efforts were impeded by leadership instability. Since taking office, Secretary Wilkie has demonstrated his commitment to addressing the department’s high-risk designation by, among other things, creating an office to direct an integrated, focused high-risk
approach and communicating to VA leaders the importance of addressing our recommendations.

While VHA completed root cause analyses for each area of concern and developed an action plan in response, the plan lacks milestones and metrics needed to effectively monitor its implementation and demonstrate progress made in addressing the high-risk designation. Additionally, many of VHA’s capacity-building initiatives are either in the initial stages of development or are lacking necessary funding and resources. As such, VHA has not made sufficient progress since our 2017 update to improve its overall ratings, as two high-risk criteria remain partially met and three criteria remain unmet.

We remain concerned about VHA’s ability to oversee its programs, hold its workforce accountable, and avoid ambiguous policies and inconsistent processes that jeopardize its ability to provide safe, high-quality care to veterans:

- In November 2017, we reported that, due in part to misinterpretation or lack of awareness of VHA policy, VA medical center officials did not always document or conduct timely required reviews of providers when allegations were made against them. As a result, we concluded that VA medical center officials may have lacked necessary information to reasonably ensure that their providers were competent to provide safe, high-quality care to veterans and to grant approvals about these providers’ privileges to perform specific clinical services at VA medical centers. We made four recommendations related to this and other findings, all of which remain open.

- In June 2018, we reported that VHA could not systematically monitor the timeliness of veterans’ access to Veterans Choice Program (VCP) care because it lacked complete, reliable data to do so. We also found that veterans, who were referred to the VCP for routine care because health care services were not available in a timely manner, could potentially wait for care up to 70 calendar days if the maximum amount of time allowed by VA processes is used. This wait time exceeds the statutory requirement that veterans receive VCP care within 30 days of the dates their VA health care providers indicated they should receive appointments, or if no such date existed, within 30 days of the veteran’s preferred date. We made 10 recommendations related to this and other findings, all of which remain open.

- Similarly, in July 2018, we reported that VA collected data related to employee misconduct and disciplinary actions, but data fragmentation
and reliability issues impeded department-wide analysis of those data. Additionally, we found that VA did not consistently ensure that allegations of misconduct involving senior officials were reviewed according to its investigative standards or ensure these officials were held accountable. We made 16 recommendations related to this and other findings, all of which remain open.

- In November 2018, we reported that VHA’s suicide prevention media outreach activities declined in recent years due to leadership turnover and reorganization. Additionally, we found that VHA did not assign key leadership responsibilities or establish clear lines of reporting for its suicide prevention media outreach campaign, which hindered its ability to oversee the campaign. Consequently, we concluded that VHA may not be maximizing its reach with suicide prevention media content to veterans, especially those who are at-risk. This is inconsistent with VHA’s efforts to reduce veteran suicides, which is VA’s highest clinical priority. We made two recommendations related to this and other findings, both of which remain open.

VA needs to further develop its capacity-building initiatives and establish metrics to monitor and measure its progress addressing the high-risk areas of concern. It is also important that our recommendations continue to be implemented. The department has implemented 209 of the 353 recommendations related to VA health care that we made from January 1, 2010 through December 2018, but more than 125 recommendations remain open as of December 2018. This includes 17 that are older than 3 years. In addition to addressing our recommendations, VA needs to make systemic change to department management and oversight in order to fully address the high-risk issues and improve the health care provided to our nation’s veterans.

See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.

Strategic Human Capital Management

Mission-critical skills gaps both within federal agencies and across the federal workforce impede the government from cost-effectively serving the public and achieving results. For example, the difficulties in recruiting and retaining skilled health care providers and human resource staff at VHA’s medical centers make it difficult to meet the health care needs of more than 9 million veterans. As a result, VHA’s 168 medical centers have large staffing shortages, including physicians, registered nurses, physician assistants, psychologists, physical therapists, as well as human resource specialists and assistants.
OPM continues to demonstrate top leadership commitment through its numerous efforts to assist agencies’ in addressing mission-critical skills gaps within their workforces. This includes providing guidance, training and on-going support for agencies on the use of comprehensive data analytic methods for identifying skills gaps and the development of strategies to address these gaps. However, since we first added strategic human capital management to our High-Risk List in 2001, we have reported on the need for agencies to address their workforce skills gaps.

As of December 2018, OPM had not fully implemented 29 of our recommendations made since 2012 relating to this high-risk area. Staffing shortages and the lack of skills among current staff not only affect individual agencies but also cut across the entire federal workforce in areas such as cybersecurity and acquisition management. Skills gaps caused by insufficient number of staff, inadequate workforce planning, and a lack of training in critical skills are contributing to our designating other areas as high-risk.

As table 7 shows, of the 34 other high-risk areas covered in this report, skills gaps played a significant role in 16 of the areas.

<table>
<thead>
<tr>
<th>High-risk area</th>
<th>Examples of skills gaps and causes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020 Decennial Census</td>
<td><strong>Staffing:</strong> Lack of staff to oversee the $886 million contract for integrating the Information Technology (IT) systems needed to conduct the 2020 Census.</td>
</tr>
</tbody>
</table>
| Strengthening DHS Management Functions | **Workforce Planning:** Lack of guidance on how to identify critical cybersecurity and acquisition skills needed to support its new IT delivery model.  
**Training:** Insufficient technical skills to support its biometric identification services program. |
| DOD Business Systems Modernization | **Workforce Planning:** Incomplete assessment of the extent to which DOD personnel meet IT management knowledge and skill requirements.  
**Staffing:** Slow and inefficient hiring processes have led to challenges in recruiting and retaining qualified chief information officers (CIO) and IT personnel.  
**Training:** Statutorily required guidance and training for cross-functional team members and presidential appointees not completed. |
| DOD Financial Management | **Staffing:** Financial management staff remains insufficient in number, qualifications, and expertise. |
| DOD Contract Management | **Staffing:** Challenges in recruiting talent for acquisition management. |
| DOE’s Contract Management for the National Nuclear Security Administration and Office of Environmental Management | **Workforce Planning:** Unmet critical staffing needs and evidence that the agency is understaffed across all functions.  
**Staffing:** Competing agency priorities and limited hiring have contributed to critical staff shortages to manage and oversee strategic materials programs. |
<table>
<thead>
<tr>
<th>High-risk area</th>
<th>Examples of skills gaps and causes</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Government’s Environmental Liability</td>
<td><strong>Workforce Planning:</strong> Lack of information to evaluate overall project and program performance, including number of staff and skills needed to meet its environmental management cleanup mission.</td>
</tr>
</tbody>
</table>
| Improving Federal Management of Programs that Serve Tribes and Their Members | **Staffing:** Lack of expert staff to review proposals for wind and solar projects, or petroleum engineers to review oil and gas proposals. Additionally, shortages of health care providers, including physicians, nurses, midwives, dentists, and pharmacists.  
**Training:** Limited funding and lack of a safety training plan contributed to incomplete training to protect Bureau of Indian Education schools. |
| Management of Federal Oil and Gas Resources             | **Workforce Planning:** Lacks plan for identifying key oil and gas positions and their respective technical competencies. No evaluation of the effectiveness of its recruitment and retention incentives as well as its student loan repayment program.  
**Training:** No evaluation of its training needs, training effectiveness, or opportunities for its bureaus to share training resources. |
| NASA Acquisition Management                            | **Staffing and Skills:** Lacks staff or staff with skills in the areas of avionics, flight software, systems engineering, business management, software development for certain acquisition projects, as well as gaps in areas such as cost estimating and earned value management capabilities. |
| Protecting Public Health Through Enhanced Oversight of Medical Products | **Staffing:** At times, significant gaps in staffing still remain during the time staff complete necessary processes to be stationed overseas. |
| Improving and Modernizing Federal Disability Programs   | **Staffing:** SSA’s disability appeals plan calls for increased hiring to reduce disability appeals backlogs and improve timeliness, and VA has not completed hiring and planning efforts to ensure it has the capacity to comprehensively update its disability eligibility criteria. |
| VA Acquisition Management                              | **Training:** Lack of training for contracting officers.                                                                                                      |
| Managing Risks and Improving VA Health Care             | **Workforce Planning:** No annual tracking and reviewing of data related to IT skills needed in the future.  
**Staffing:** Insufficient number of community care staff and medical support assistants.  
**Training:** No assessment of the training needs or monitoring of completed training for patient advocate positions. |
| Ensuring the Cybersecurity of the Nation                | **Staffing and Training:** The administration’s June 2018 government reform plan includes recommendations for solving the federal cybersecurity workforce shortage, including prioritizing and accelerating efforts to reform how the federal government recruits, evaluates, selects, pays, and places cyber talent. |
| Improving the Management of IT Acquisitions and Operations | **Workforce Planning:** None of the 24 major federal agencies had IT management policies that fully addressed the role of their CIOs. The majority of the agencies minimally addressed or did not address their CIO’s role in assessing agency IT workforce needs, and developing strategies and plans for meeting those needs. |

Source: GAO analysis.  | GAO-19-157SP

Over the years since we added this area to our High-Risk List, in addition to recommendations to address critical skills gaps in individual high-risk areas, we have made numerous recommendations to OPM related to this high-risk issue, 29 of which remain open. Agencies also need to take action to address mission-critical skills gaps within their own workforces – a root cause of many high-risk areas. See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.
The 2010 Census was the costliest in history at about $12.3 billion; as of October 2017, the 2020 Census is projected to cost about $15.6 billion, a 27 percent increase. For the 2020 Census, the U.S. Census Bureau (Bureau) plans to implement several innovations, including new IT systems. Implementing these innovations, along with other challenges, puts the Bureau’s ability to conduct a cost-effective census at risk.

The decennial census is mandated by the U.S. Constitution and provides vital data for the nation. Census data are used, among other purposes, to apportion seats in the Congress and allocate billions of dollars in federal assistance to state and local governments. To ensure its success, this complicated and costly undertaking requires careful planning, risk management, and oversight. Census activities, some of which are new for the 2020 cycle, must be carried out on schedule to deliver the state apportionment counts to the President by December 31, 2020.

The Bureau and the Department of Commerce (Commerce) have strengthened leadership commitment with executive-level oversight of the 2020 Census by holding regular meetings on the status of IT systems and other risk areas. In addition, in 2017 Commerce designated a team to assist senior Bureau management with cost estimation challenges. These examples demonstrate both the Bureau’s and Commerce’s strong leadership commitment to implementing the 2020 Census.

One of the Bureau’s major challenges is to control any further cost growth and develop cost estimates that are reliable and reflect best practices for the 2020 Census. According to the Bureau, the total cost of the 2020 Census is now estimated to be approximately $15.6 billion, more than $3 billion higher than previously estimated by the Bureau. The higher estimated life-cycle cost is due, in part, to the Bureau’s failure to previously include all cost associated with the decennial census.

The Bureau’s schedule for developing IT systems has experienced delays that have compressed the time available for system testing, integration testing, and security assessments. These schedule delays have contributed to systems experiencing problems after deployment, as well as cybersecurity challenges. For example, as of December 2018, the Bureau had identified nearly 1,100 system security weaknesses that needed to be addressed. Continued schedule management challenges may compress the time available for the remaining system testing and security assessments, and increase the risk that deployed systems will either not function as intended, have security vulnerabilities, or both.
As of January 2019, 30 of our recommendations related to this high-risk area had not been implemented. To make continued progress, the Bureau needs to ensure that its approach to strategic planning, IT management, cybersecurity, human capital management, internal collaboration, knowledge sharing, as well as risk and change management are all aligned toward delivering more cost-effective outcomes. Among other things, the Bureau needs to ensure cost growth is controlled and that the development and testing of key systems is completed and fully integrated with all census operations before the 2020 Census. In addition, the Bureau needs to address cybersecurity weaknesses in a timely manner and ensure that security risks are at an acceptable level before systems are deployed. See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.

Medicare, Medicaid, and Earned Income Tax Credit Improper Payments

An improper payment is any payment that should not have been made or that was made in an incorrect amount (including overpayments and underpayments) under statutory, contractual, administrative, or other legally applicable requirements. Reducing improper payments—such as payments to ineligible recipients or duplicate payments—is critical to safeguarding federal funds. However, the federal government has consistently been unable to determine the full extent of improper payments and reasonably assure that appropriate actions are taken to reduce them.

Since 2003—when certain agencies were required by statute to begin reporting improper payments—cumulative improper payment estimates have totaled about $1.5 trillion. As shown in figure 7, for fiscal year 2018, federal entities estimated about $151 billion in improper payments. Medicare and Medicaid improper payments and the Earned Income Tax Credit (EITC) improper payments—a part of the Enforcement of Tax Laws high-risk area—accounted for about 68.5 percent of this total.

Federal spending for Medicare programs and Medicaid is expected to significantly increase in the coming years, so it is especially critical to take appropriate measures to reduce improper payments in these programs. Internal Revenue Service estimates also show that the EITC has consistently had a high improper payment rate. OMB has designated Medicare programs, Medicaid, and EITC as high-priority programs for improper payments, indicating they are amongst the highest-risk programs where the government can achieve the greatest return on investment for the taxpayer by ensuring that improper payments are eliminated.
Our work has identified a number of strategic and specific actions agencies can take to reduce improper payments, which could yield significant savings, and help ensure that taxpayer funds are adequately safeguarded. Continued agency attention is needed to (1) identify susceptible programs, (2) develop reliable methodologies for estimating improper payments, (3) report as required by statute, and (4) implement effective corrective actions based on root cause analysis. Absent such continued efforts, the federal government cannot be assured that taxpayer funds are adequately safeguarded.

See appendix II for additional detail on the Medicare Program & Improper Payments, Strengthening Medicaid Program Integrity, and Enforcement of Tax Laws high-risk areas including more details on actions that need to be taken.

The Internal Revenue Service (IRS) continues to face two pressing challenges in enforcing tax laws: addressing the tax gap—amounting to hundreds of billions of dollars each year when some taxpayers fail to pay the taxes that they owe—and combatting identity theft (IDT) refund fraud. Enforcement of Tax Laws has been on GAO’s high risk list since 1990.
IRS enforcement of tax laws helps fund the U.S. government by collecting revenue from noncompliant taxpayers and, perhaps more importantly, promoting voluntary compliance by giving taxpayers confidence that others are paying their fair share. In 2016, IRS estimated that the average annual net tax gap, the difference between taxes owed and taxes paid on time, was $406 billion, on average, for tax years 2008-2010.

While IRS continues to demonstrate top leadership support to address the tax gap, IRS’s capacity to implement new initiatives and improve ongoing enforcement and taxpayer service programs remains a challenge. For example, IRS’s strategic plan includes a goal to facilitate voluntary compliance and deter noncompliance that could address the tax gap. However, IRS could do more to identify specific efforts for improving compliance in its strategic plan, measure the effects of compliance programs—such as those used for large partnerships—and develop specific quantitative goals to reduce the tax gap. Such efforts would help IRS make more effective use of its resources and gauge the success of its strategies.

The second challenge facing IRS is IDT refund fraud, which occurs when an identity thief files a fraudulent tax return using a legitimate taxpayer’s identifying information and claims a refund. IRS estimates that at least $12.2 billion in individual IDT tax refund fraud was attempted in 2016, of which it prevented at least $10.5 billion (86 percent). Of the amount attempted, IRS estimated that at least $1.6 billion (14 percent) was paid.

IRS’s ability to combat IDT fraud continues to be challenged as more personally identifiable information has become readily available as a result of large-scale cyberattacks on various entities. This makes it more difficult for IRS to distinguish between fraudsters and legitimate taxpayers.

While IRS has demonstrated some progress by developing tools and programs to further detect and prevent IDT refund fraud, it has not completed updating its authentication procedures to be in compliance with new government standards. As a result, IRS may be missing an opportunity to implement the most secure, robust technologies to protect taxpayers.

As of December 2018, 189 GAO recommendations related to this high-risk area had not been implemented. To make continued progress on closing the tax gap, IRS needs to re-establish goals for improving voluntary compliance and develop and document a strategy that outlines
how it will use its data to help address this issue. Reducing the tax gap will also require targeted legislative actions, including additional third-party information reporting, enhanced electronic filing, expanded math error authority (also referred to as correctible error authority), and paid preparer regulation. To help stay on top of IDT refund fraud, IRS should develop a comprehensive process to evaluate alternative options for improving taxpayer authentication. Given that IDT refund fraud continues to be a challenge, targeted legislative action, such as requiring a scannable code on returns prepared electronically but filed on paper could help IRS address such fraud.

See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.

The federal government currently invests more than $90 billion annually in IT, and OMB has implemented several key initiatives intended to help better manage this investment. Additionally, enactment of FITARA, in conjunction with greater attention paid to the acquisition and operation of IT, has helped further improve the government-wide management of this significant annual investment. OMB’s current level of top leadership support and commitment to ensure that agencies successfully execute its guidance on implementing FITARA and related IT initiatives has helped this high-risk area meet the leadership commitment high-risk criteria.

Additional positive government-wide actions have enabled this high-risk area to partially meet the four remaining high-risk criteria. For example, OMB has established an IT Dashboard—a public website that provides detailed information on major IT investments at 26 federal agencies—and agencies’ data center consolidation efforts have resulted in a total savings of slightly more than 80 percent of the agencies’ planned $5.7 billion in savings since 2011. However, major federal agencies have yet to fully address the requirements of FITARA and realize billions of dollars in planned or possible savings and improved government performance through more efficient budgeting and management of IT.

As government-wide spending on IT increases every year, the need for appropriate stewardship of that investment increases as well. However, OMB and federal agencies have not made significant progress since

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2017 in taking the steps needed to improve how these financial resources are budgeted and utilized. While OMB has continued to demonstrate its leadership commitment through guidance and sponsorship of key initiatives, agencies still have not fully implemented all requirements of FITARA, such as putting into place authorities the law requires for chief information officers (CIO). Additionally, while the President’s Management Agenda has a goal to improve IT spending transparency, agencies are underreporting IT contract obligations by billions of dollars. OMB and the agencies also have not yet implemented hundreds of our recommendations on improving shortcomings in IT acquisitions and operations.

In an August 2018 review of the 24 federal agencies covered by FITARA, none had IT management policies that fully addressed the role of their CIOs consistent with federal laws and guidance. Specifically, the majority of the agencies only minimally addressed, or did not address, their CIO’s role in assessing agency IT workforce needs and developing strategies and plans for meeting those needs. Correspondingly, the majority of the 24 CIOs acknowledged that they were not fully effective at implementing IT management responsibilities, such as IT strategic planning and investment management.

Further, in January 2018, we reported that the majority of 22 agencies did not identify all of their IT acquisition contracts, totaling about $4.5 billion in IT-related contract obligations beyond those reported by agencies. In addition, in November 2018 we reported that four selected agencies lacked quality assurance processes for ensuring that billions of dollars requested in their IT budgets were informed by reliable cost information. Until agencies properly identify IT contracts and establish processes for ensuring the quality of cost data used to inform their budgets, agency CIOs are at risk of not having appropriate oversight of IT acquisitions and may lack adequate transparency into IT spending to make informed budget decisions.

As of December 2018, OMB and federal agencies had fully implemented only 59 percent of the recommendations we have made since fiscal year 2010 to address shortcomings in IT acquisitions and operations. OMB and agencies should work toward implementing our remaining 456 open recommendations related to this high-risk area. These remaining recommendations include 12 priority recommendations to agencies to, among other things, report all data center consolidation cost savings to OMB, plan to modernize or replace obsolete systems as needed, and
improve their implementation of PortfolioStat—an initiative that is to consolidate and eliminate duplicative systems.

OMB and agencies need to take additional actions to (1) implement at least 80 percent of our open recommendations related to the management of IT acquisitions and operations, (2) ensure that a minimum of 80 percent of the government’s major IT acquisitions deliver functionality every 12 months, and (3) achieve at least 80 percent of the over $6 billion in planned PortfolioStat savings.

See appendix II for additional detail on this high-risk area, including more details on actions that need to be taken.

Our high-risk program continues to be a top priority at GAO and we will maintain our emphasis on identifying high-risk issues across government and on providing recommendations and sustained attention to help address them, by working collaboratively with Congress, agency leaders, and OMB. As part of this effort, we hope to continue to participate in regular meetings with the OMB Deputy Director for Management and with top agency leaders to discuss progress in addressing high-risk areas. Such efforts have been critical for the progress that has been made.

We are providing this update to the President and Vice President, congressional leadership, other Members of Congress, OMB, and the heads of major departments and agencies.

Gene L. Dodaro
Comptroller General of the United States
Appendix I: Background

What Is the History of the High-Risk Program?

In 1990, we began a program to report on government operations that we identified as “high risk.” Since then, generally coinciding with the start of each new Congress, we have reported on the status of progress addressing high-risk areas and have updated the High-Risk List. Our last high-risk update was in February 2017.¹ That update identified 34 high-risk areas. Since then, we added a high-risk area outside of our normal biennial reporting cycle in 2018—Government-wide Personnel Security Clearance Process. In 2019 we separated one high-risk area—Modernizing the U.S. Financial Regulatory System and Federal Role in Housing Finance—into two high-risk areas—Modernizing the U.S. Financial Regulatory System and Resolving the Federal Role in Housing Finance—to provide additional clarity on what needs to be done to address both areas.

Overall, this program has served to identify and help resolve serious weaknesses in areas that involve substantial resources and provide critical services to the public. Since our program began, the federal government has taken high-risk problems seriously and has made long-needed progress toward correcting them. In a number of cases, progress has been sufficient for us to remove the high-risk designation. A summary of changes to our High-Risk List over the past 29 years is shown in table 8. This 2019 update identifies 35 high-risk areas.

<table>
<thead>
<tr>
<th>Number of areas</th>
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</thead>
<tbody>
<tr>
<td>Original High-Risk List in 1990</td>
</tr>
<tr>
<td>High-risk areas added since 1990</td>
</tr>
<tr>
<td>High-risk areas removed since 1990</td>
</tr>
<tr>
<td>High-risk area separated out from existing area</td>
</tr>
<tr>
<td>High-risk areas consolidated since 1990</td>
</tr>
<tr>
<td>High-Risk List in 2019</td>
</tr>
</tbody>
</table>

Source: GAO. | GAO-19-157SP

The five high-risk criteria form a road map for efforts to improve and ultimately address high-risk issues. Addressing some of the criteria leads to progress, while satisfying all of the criteria is central to removal from the list. Our April 2016 report provided additional information, drawn from our 2015 high-risk update, on how agencies had made progress addressing high-risk issues. We provided illustrative actions that agencies took that led to progress or removal from our High-Risk List. This information provides additional guidance to agencies whose programs are on the High-Risk List.

Figure 8 shows the five criteria and illustrative actions taken by agencies to address the criteria as cited in that report. Importantly, the actions listed are not “stand alone” efforts taken in isolation from other actions to address high-risk issues. That is, actions taken under one criterion may be important to meeting other criteria as well. For example, top leadership can demonstrate its commitment by establishing a corrective action plan including long-term priorities and goals to address the high-risk issue and using data to gauge progress—actions which are also vital to monitoring criteria.

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Figure 8: Criteria for Removal from the High-Risk List and Examples of Actions Leading to Progress

<table>
<thead>
<tr>
<th>LEADERSHIP COMMITMENT ACTIONS</th>
<th>CAPACITY ACTIONS</th>
<th>ACTION PLAN ACTIONS</th>
<th>MONITORING ACTIONS</th>
<th>DEMONSTRATED PROGRESS ACTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developing Organizational Changes and Initiatives</td>
<td>Allocating or Reallocation Funds or Staff</td>
<td>Establishing Goals and Performance Measures</td>
<td>Ensuring Data Quality/Adequacy or Using Third-Party Assessments and Validation</td>
<td>Implementing Recommendations</td>
</tr>
<tr>
<td>Establishing High-Level Governance Structures</td>
<td>Establishing and Maintaining Procedures or Systems</td>
<td>Identifying and Analyzing Root Causes of Problems</td>
<td>Holding Frequent Review Meetings to Assess Status and Performance</td>
<td>Using Data to Show Action on Plan Implementation</td>
</tr>
<tr>
<td>Establishing Long-Term Priorities and Goals</td>
<td>Establishing Work Groups with Specific Responsibilities</td>
<td>Identifying Critical Actions and Outcomes to Address Root Causes</td>
<td>Reporting to Senior Managers on Program Progress and Potential Risks</td>
<td>Showing High-Risk Issues are Being Effectively Managed and Root Causes are Being Addressed</td>
</tr>
<tr>
<td>Improving Collaboration through Networks or Establishing Memorandums of Understanding/Agreements with Other Agencies</td>
<td>Improved Collaboration with other Agencies, Stakeholders, and the Private Sector</td>
<td>Developing an Action Plan with Clear Milestones and Metrics</td>
<td>Tracking Performance Measures and Progress Against Goals</td>
<td>Taking Actions to Ensure Progress (or Improvements) are Sustained</td>
</tr>
<tr>
<td>Initiating or Implementing Legislation and Issuing an Executive Order/Presidential Initiative</td>
<td>Providing Guidance and Training to Staff and Addressing Skills Gaps</td>
<td>Ensuring there are Processes for Reporting Progress</td>
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<tr>
<td>Issuing Agency Leadership Directives</td>
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<td>Making Plans Accessible and Transparent to Other Agencies, Congress, and the Public</td>
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<tr>
<td>Providing Continuing Oversight and Accountability</td>
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Source: GAO-16-480R, GAO-19-157SP
What Is the History of Programs Removed from the High-Risk List?

A summary of areas removed from our High-Risk List over the past 29 years is shown in figure 9.

Figure 9: History of Areas Removed from the High-Risk List

Source: GAO analysis. | GAO-19-157SP
When Were Areas Added to the High-Risk List?

The areas on our 2019 High-Risk List, and the year each was designated as high risk, are shown in figure 10.

![Figure 10: Areas on GAO's 2019 High-Risk List Were Designated as High Risk, by Year Added]

Source: GAO analysis. GAO-19-157SP
Appendix II: Overview for Each High-Risk Area

The following pages provide overviews of the 35 high-risk areas on our updated list. Each overview discusses (1) why the area is high risk, (2) the actions that have been taken and that are under way to address the problem since our last update in 2017, and (3) what remains to be done. Each of these high-risk areas is also described on our High-Risk List website, http://www.gao.gov/highrisk/overview.
The Office of Personnel Management and federal agencies must continue developing the capacity to measure and address existing mission-critical skills gaps, and use workforce analytics to predict and mitigate future gaps so agencies can effectively carry out their missions.

**Why Area Is High Risk**

Mission-critical skills gaps both within federal agencies and across the federal workforce pose a high risk to the nation because they impede the government from cost-effectively serving the public and achieving results. This area was added to the High-Risk List in 2001. We, along with OPM and individual agencies, have identified skills gaps in such government-wide occupations in the fields of science, technology, engineering, mathematics, cybersecurity, and acquisitions. Causes for these skills gaps vary; however, they often occur due to a shortfall in one or more talent management activities such as robust workforce planning or training. Additionally, the changing nature of federal work and the high percentage of employees eligible for retirement could produce gaps in leadership and institutional knowledge, and could threaten to aggravate the problems created from existing skills gaps. For example, 31.6 percent of permanent federal employees who were on board as of September 30, 2017, will be eligible to retire in the next five years with some agencies having particularly high levels of employees to retire. Mission-critical skills gaps are a contributing factor in making other areas across the government high risk. Of the 34 other high-risk areas, skill gaps played a significant role in 16 areas, such as veterans’ health care.

**Contact Information**

For additional information about this high-risk area, contact Robert Goldenkoff at (202) 512-2757 or goldenkoffr@gao.gov or Yvonne D. Jones at (202) 512-2717 or jonesy@gao.gov.

**Leadership commitment: met.** The Office of Personnel Management (OPM) continues to demonstrate top leadership commitment through its numerous efforts to assist agencies in addressing mission-critical skills gaps within their workforces. OPM’s regulation on strategic human capital management, which took effect in April 2017, requires executive branch agencies to issue human capital operating plans that, in part, must describe the agencies’ skills gaps and the strategies to be used for closing these gaps. OPM has provided guidance, training, and on-going support for agencies on the use of comprehensive data analytic methods for identifying skills gaps and the development of strategies to address these gaps. Additionally, the Director of OPM uses the Chief Human Capital Officers (CHCO) Council’s quarterly meetings to review and discuss agency data on the closure of agency-specific skills gaps.

**Capacity: partially met.** OPM and the CHCO Council continue supporting the efforts of the Federal Agency Skills Teams (FAST), which consist of occupational leaders and CHCO representatives who are responsible for setting goals for closing skills gaps and using measureable targets and appropriate metrics. OPM staff meet quarterly with FASTs to provide guidance on the development of action plans and use of OPM’s multi-factor model, a methodology for identifying skills gaps. In mid-2019, OPM plans to launch an automated version of the multi-factor model to facilitate and promote its use among FASTs.

**Action plan: partially met.** On a quarterly basis, OPM staff review and provide feedback to FASTs on the content of their action plans, such as the identification of the root causes for the skills gap, assignment of roles and responsibilities for implementing strategies, and the creation of outcome-oriented performance metrics. Additionally, OPM staff stated that they continue to train FAST members on applying OPM’s multi-factor model, developing a sound action plan, and identifying strategies for addressing identified skills gaps.
Monitoring: partially met. On a quarterly basis, OPM provides to agencies’ management and FASTs a data dashboard of 12 metrics which gives a snapshot of agencies’ progress on closing identified skills gaps. In March 2019, OPM plans to begin a “midterm” review of agencies’ efforts to mitigate skills gaps by issuing a memo to agencies asking for the status on their specific skills gaps and a description of challenges encountered during their efforts.

Demonstrated progress: not met. On the one hand, OPM has, among other actions, issued a regulation and developed tools and processes that could help agencies better identify and address current and newly emerging skills gaps. Additionally, senior agency leaders are required to meet annually with OPM officials to hold high-level, data-driven discussions on agencies’ progress towards meeting their human capital goals.

On the other hand, OPM needs to ensure that individual agencies implement guidance, tools, and training, and fully develop and implement effective strategies to mitigate and close skills gaps within their own workforces. For instance, the inability of the Veterans Health Administration’s human resource staff to implement an effective recruitment strategy has affected the ability of its medical centers to maintain an adequate team of medical professionals to meet veterans’ health care needs.


What Remains to Be Done

Over the years since we added this area to our High-Risk List, in addition to recommendations to address critical skills gaps in individual high-risk areas, we have made numerous recommendations to OPM related to this high-risk issue, 29 of which remain open. OPM needs to fully address the recommendations in our January 2015 report which call on the Director of OPM to make more strategic use of government workforce data to build a predictive capacity for identifying and mitigating emerging skills gaps.
across government. Our January 2015 report also recommended that
OPM work with agency CHCOs to bolster the ability of agencies to
assess workforce competencies by sharing competency surveys, lessons
learned, and other tools and resources. Agencies also need to take action
to address mission-critical skills gaps within their own workforces—a
significant factor contributing to many high-risk areas.

Related GAO Products

Embassy Construction: Pace is Slower Than Projected, and State Could

Tax Administration: Opportunities Exist to Improve Monitoring and

Information Technology: IRS Needs to Take Actions to Address

Cybersecurity Workforce: Agencies Need to Improve Baseline

Defense Acquisition Workforce: Opportunities Exist to Improve Practices

Cybersecurity Workforce: Urgent Need for DHS to Take Actions to

Bureau of Prisons: Better Planning and Evaluation Could Help Ensure

National Weather Service: Actions Have Been Taken to Fill Increasing
Vacancies, but Opportunities Exist to Improve and Evaluate Hiring.

Strategic Human Capital Management: NRC Could Better Manage the
Size and Composition of Its Workforce by Further Incorporating Leading

Veterans Health Administration: Actions Needed to Better Recruit and
Managing Federal Real Property

The federal government would save millions of dollars by disposing of unneeded buildings and reducing lease costs. Federal departments and agencies should also improve data reliability and federal facility security.

Why Area Is High Risk
The federal government's real estate portfolio is vast and diverse—including about 267,000 domestic buildings as of September 2016 that cost billions of dollars annually to operate and maintain. OMB and GSA both provide management support to agencies. OMB establishes federal policies and chairs the Federal Real Property Council. GSA provides space for federal tenants and collects data on real property.

Additionally, DHS has management-level responsibilities through the DHS-chaired Interagency Security Committee (ISC) that sets security standards, and its Federal Protective Service (FPS) protects about 9,000 federal buildings. Federal managers, however, rely on other agencies to reduce unneeded properties, produce reliable data, and follow ISC standards.

Since federal real property management was placed on the High-Risk List in 2003, the federal government has given high-level attention to this issue; however, federal agencies continue to face long-standing challenges, including: (1) effectively disposing of excess and underutilized property, (2) relying too heavily on leasing, (3) collecting reliable real property data for decision making, and (4) protecting federal facilities.

Contact Information
For additional information about this high-risk area, contact Lori Rectanus at rectanusl@gao.gov or (202) 512-2834.

Managing Federal Real Property

Since our 2017 High-Risk Report, overall, the five criteria remain unchanged although there was progress within some individual segments. Three agencies involved in managing, tracking, and protecting federal real property government-wide—Office of Management and Budget (OMB), General Services Administration (GSA), and Department of Homeland Security (DHS)—have made steady progress over multiple administrations in addressing federal real property challenges.

However, momentum has slowed, due to delayed implementation of the Federal Assets Sale and Transfer Act of 2016 (FASTA) and decreased implementation of reforms by federal agencies. Over the years since we added this area to our High-Risk List, we have made numerous recommendations related to this high-risk issue, 40 of which were made since the last high-risk update in February 2017. As of December 2018, 63 recommendations are open.

Excess and Underutilized Property

Ratings for this segment remain unchanged since our 2017 High-Risk Report.

Leadership commitment: met. In 2015, OMB implemented our recommendation to issue government-wide guidance—the National Strategy for the Efficient Use of the Real Property (National Strategy)—which identified actions to reduce the size of the federal real property portfolio by prioritizing consolidation, co-location, and disposal actions, consistent with the Reduce the Footprint policy that required agencies to set goals for reducing unneeded space. An OMB official said that the National Strategy and Reduce the Footprint Policy are still in place.
In 2016, FASTA established a 7-member civilian board to recommend unneeded federal buildings for disposal. However, the administration has not yet appointed a chair, a full board, or staff.

In 2018, the Administration released its plan on Delivering Government Solutions in the 21st Century. As part of this plan, the Administration proposed a series of improvements to streamline and accelerate the disposal of excess federal property. These improvements include reducing the number of steps needed to dispose of unneeded federal property and creating incentives for disposals by allowing agencies to retain the proceeds from sales.

**Capacity: partially met.** As noted in our 2017 high-risk update, OMB created the National Strategy and the Reduce the Footprint Policy to assist agencies, which represented positive steps. However, the National Strategy does not address the extent to which underlying challenges, such as budget limitations, impede agencies’ abilities to dispose of or better use real property, nor does it offer guidance on how agencies can overcome these challenges. Once the board is appointed, FASTA has the potential to increase the federal government’s capacity by establishing a process for identifying and disposing of unneeded federal buildings.

**Action plan: met.** We noted in 2017 that OMB had, through the Reduce the Footprint policy, established a government-wide action plan to (1) use property as efficiently as possible, and (2) reduce portfolios through annual reduction targets.

**Monitoring: partially met.** OMB and GSA monitor progress in meeting space reduction targets using the government-wide real property database called the Federal Real Property Profile (FRPP). However, the database is not yet sufficiently reliable to produce accurate results. The Department of Defense (DOD) has almost half of the federal government’s buildings. However, OMB chose not to use DOD’s real property data in reporting the 2017 results of the Reduce the Footprint policy—the most recent year for which data is available—because the data were not sufficiently reliable. We reported in 2018 that weaknesses in the quality of the DOD’s real property data result, in part, because DOD has not developed a strategy to identify and address risks with accompanying time frames and performance metrics. Without such a strategy, DOD may miss the opportunity to reasonably ensure that the information needed for effective decision making by DOD, Congress, and other federal agencies is available to meet real property accountability and reporting objectives.

**Demonstrated progress: partially met.** The fiscal year 2016 results from Reduce the Footprint show progress with the federal government more than doubling its reduction goal. However, in fiscal year 2017, the
federal government failed to reach the halfway point of its more modest reduction goal.

What Remains to Be Done

As part of the reforms that OMB is considering, it should:

- identify alternative approaches to address underlying causes of real property problems and address the extent to which challenges impede progress, as we recommended in 2016; and
- refocus agency attention on meeting space reduction targets, as discussed.

Additionally, the Administration needs to appoint vacant FASTA board positions and hire staff.

Costly Leasing

The ratings for capacity and action plan improved since our 2017 High-Risk Report and the remaining three criteria remain unchanged.

**Leadership commitment: met.** OMB and GSA continue to take action to reduce costly leasing. For example, OMB proposed the creation of a capital revolving fund designed to facilitate ownership over operating leases for large-dollar buildings, although no action has been taken to implement it. An OMB staff member said that the legislative proposal to establish a capital fund was similar to an option we identified in a 2014 report. Additionally, GSA has developed a strategy to reduce leasing costs by a projected $4.7 billion by fiscal year 2023, through steps that include focusing resources on high-value lease renewals.

**Capacity: partially met.** GSA made improvements and now partially meets the capacity criterion. Specifically, GSA implemented our September 2013 recommendation to develop a strategy to increase ownership investments for a prioritized list of high-value leases. These leases are for properties where it would be less expensive in the long run to own. GSA plans to purchase at least one leased building in 2019. In addition, as noted in our 2017 high-risk update, GSA could potentially help tenant agencies save millions of dollars from some leases by loaning them funds to improve newly leased spaces instead of agencies financing these costs with private-sector owners at private-sector interest rates. While GSA officials agreed that doing so would save money in interest fees, it has not yet developed a legislative proposal to obtain the needed authority, as we recommended in 2016.
**Action plan: met.** GSA has made improvements and now meets the action plan criterion. GSA created an action plan to purchase buildings when it is more cost-effective than leasing by establishing criteria to rank and prioritize leased spaces that would benefit from federal ownership as discussed above. Additionally, GSA is implementing strategies to better manage leases that include avoiding short-term extensions and identifying opportunities to enter into long-term and lower cost leases.

**Monitoring: partially met.** GSA continues to partially meet this criterion through implementation of the National Strategy, as noted in our 2017 high-risk update. However, GSA should also implement our recommendations to reduce the costs to tenants by exploring strategies to enhance competition for GSA leases and reducing unneeded fees. Additionally, GSA has identified actions to better monitor leases at different points along the process in order to minimize the need to enter into short-term, costly lease extensions.

**Demonstrated progress: partially met.** GSA has made some progress in reducing the long-term costs of leasing by stemming the growth in leasing according to GSA data and committing to further reducing leasing costs. However, GSA must follow through on its plans to purchase leased buildings and reduce costs. GSA could also further reduce costs by loaning tenant agencies the funds needed to improve newly leased spaces but still needs to develop a legislative proposal to obtain authority to do so.

**What Remains to Be Done**

GSA should develop a legislative proposal to obtain authority to loan agencies funds needed to improve newly leased spaces, as we recommended in 2016.

**Data Reliability**

Ratings for one criterion improved since our 2017 High-Risk Report and the other four criteria remain unchanged.

**Leadership commitment: met.** In December 2017, GSA continued efforts to improve data reliability by completing a major effort to make the Federal Real Property Profile (FRPP) public. Also, as we reported in our 2017 High-Risk Report, GSA issued its Federal Real Property Data Validation and Verification (V&V) Guidance in May 2016 and required agencies to address 13,257 data anomalies it found in fiscal year 2016 data.
**Capacity:** met. OMB and GSA continue to help agencies’ increase their capacity to submit accurate data. For example, GSA revised certain data elements’ definitions in 2016 and incorporated them in the 2018 FRPP Data Dictionary. In addition, OMB and GSA have further increased the capacity of FRPP to act as a government-wide database since additional agencies are required to report.

**Action plan:** met. GSA has made progress by developing an action plan in 2017 for federal agencies to develop processes to assess, address, and track FRPP data quality. Specifically, this plan identifies data elements to appropriately indicate data quality, identifies best practices and other methods that help agencies measure and assess improvements, and enables federal agencies to develop performance metrics.

**Monitoring:** partially met. While GSA required agencies to research the anomalies it found in its V&V process, only some agencies have identified and committed to correct mistakes. Further, of the 13,257 anomalies GSA identified in the fiscal year 2016 data, agencies overall acknowledged that less than 8 percent of the anomalies (1,004 anomalies) represented erroneous data to be corrected, while indicating that the others were correct. Furthermore, some agencies acknowledged less than 1 percent of the anomalies represented erroneous data. In addition, we found in 2018 that DOD did not correct discrepancies identified by its own V&V process.

**Demonstrated progress:** partially met. While GSA and some agencies have taken action to correct data, serious data reliability challenges remain with some individual agencies that undermine the reliability of the FRPP. In 2018, we found that DOD’s real property data continue to be inaccurate and incomplete, and that DOD lacks a plan for making the necessary improvements.

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**What Remains to be Done**

OMB and GSA should continue working with federal agencies to improve the reliability of their real property data through V&V efforts and encouraging agencies to implement action plans to better assess, address, and track data quality, as discussed in the above action plan. In particular, DOD should take steps to ensure that DOD improves the reliability of its real property data, as we recommended in 2018.
Ratings for this segment remain unchanged since our 2017 High-Risk Report.

**Leadership commitment:** met. DHS’s Federal Protective Service (FPS) continues to take action to address our recommendations. The Interagency Security Committee (ISC), an organization chaired by DHS that sets standards for physical security for federal nonmilitary facilities, also continues to implement the updated Risk Management Process—a consolidated set of standards for physical security at federal facilities. In addition, in 2018, GSA, the Administrative Office of the U. S. Courts (AOUSC), the U.S. Marshals Service, and FPS implemented our 2017 recommendation to establish a national-level working forum for courthouse security, known as the Interagency Judicial Security Council.

**Capacity:** partially met. FPS has taken several actions to address identified physical security issues since our 2017 High-Risk Report. For example, in 2018 FPS improved its risk assessment tool to incorporate all necessary elements recommended by the ISC, which has now certified it. In 2018, FPS also addressed our recommendation related to improving training for instructors and identified actions to address our recommendations associated with tracking guard training. Finally, in 2018, FPS also implemented several actions associated with our recommendation to develop human capital-related performance measures to evaluate progress towards agency goals.

Some agencies may not have the capacity to conduct adequate risk assessments because their processes do not fully align with the ISC Risk Management Process. To improve their capacity, the U.S. Customs and Border Protection, Federal Aviation Administration, and the Department of Veterans’ Affairs still need to complete an assessment of their policies against the ISC’s standards in response to our 2017 and 2018 recommendations.

**Action plan:** partially met. In September 2018, FPS and GSA signed a memorandum of agreement (MOA) clarifying their respective roles and responsibilities for federal facility security. However, FPS, GSA, and the Department of Justice have not yet addressed our 2011 recommendation to address a number of courthouse security challenges. Specifically, FPS, the U.S. Marshals Service, AOUSC, and GSA are still working to finalize the draft MOA on courthouse security.
Monitoring: partially met. FPS continues to develop a system that will allow FPS to verify independently that FPS’s contract guards are current on all training and certification requirements, and are taking steps to close this recommendation as implemented. FPS expects that system to be in place in 2019. In 2018, we also found that actions were needed to better address various emerging security threats to federal facilities.

Demonstrated progress: not met. The federal government has not demonstrated progress to improve physical security. Although agencies have taken some actions, time is needed for agencies to demonstrate the results of these actions. Additionally, agencies need to complete other actions. For example, once FPS, the U.S. Marshals Service, AOUSC, and GSA sign their MOA on courthouse security, they will be able to better protect federal facilities. Further, once FPS fully implements its guard management system and it interacts with its training system, FPS will be able to obtain information to assess its guards’ capability to address physical security risks across its portfolio.

What Remains to be Done

To improve the physical security of federal buildings, the following steps are necessary:

- Clarify roles and responsibilities for the protection of federal facilities by finalizing the MOA for federal courthouse security between GSA, FPS, the U.S. Marshals, and AOUSC, as we recommended in 2011.
- FPS must validate training information being entered to ensure that guards are getting critical training, as we recommended in 2012.
- Implement our recommendations for agencies to improve their monitoring of collaborative efforts to protect federal facilities, as we recommended in 2015.
- Take actions to better address emerging security threats to federal facilities, as we recommended in 2018.

Related GAO Products


Managing Federal Real Property


Congress needs to pass a long-term, sustainable solution for funding surface transportation.

We are not rating this high-risk area because addressing the identified issues primarily involves congressional action.

Motor fuel taxes and additional truck-related taxes that support the Highway Trust Fund—the major source of federal surface transportation funding—are eroding. Federal motor fuel tax rates have not increased since 1993, and we reported in 2012 that drivers of passenger vehicles with average fuel efficiency paid about $96 per year in federal gasoline taxes. Because of inflation, the 18.4 cent-per-gallon federal tax on gasoline has about one-third less purchasing power than it did when the tax was last raised in 1993.

To maintain spending levels of about $45-50 billion a year for highway and transit programs and to cover revenue shortfalls, Congress transferred a total of about $141 billion in general revenues to the Highway Trust Fund on eight occasions from 2008 through 2015. These transfers each represented a one-time infusion of funding, not a sustainable long-term source of revenues. This funding approach effectively ended the long-standing principle of “users pay” in highway finance, breaking the link between the taxes paid and the benefits received by highway users.

Most recently, the Fixing America’s Surface Transportation (FAST) Act authorized around $70 billion of the $141 billion in transfers for 2015 through 2020. After 2021, the gap between projected revenues and spending will recur. In January 2019, the Congressional Budget Office estimated that $159 billion in additional funding would be required to maintain current spending levels plus inflation from 2022 through 2029, as shown in figure 11.
A long-term sustainable plan for funding surface transportation requires congressional action and remains the pivotal action that will determine whether this issue remains on, or is removed from, our High-Risk List. However, it is also important that federal funding for surface transportation be spent wisely and efficiently.

Over the last decade we have noted opportunities to improve performance and accountability in how surface transportation funds are spent by maximizing the use of existing resources and linking funding to performance. These opportunities include (1) implementing a performance-based approach to surface transportation funding, and (2) improving how surface transportation projects are selected through DOT’s discretionary grant programs.

Performance-based approach to surface transportation funding. Historically, spending for surface transportation programs has not effectively addressed key challenges, such as deteriorating infrastructure conditions and increasing congestion and freight demand. This is because federal goals and roles have been unclear, programs have lacked links to performance, and programs have not used the best tools and approaches to ensure effective investment decisions. Beginning in 2008, we suggested that Congress consider a fundamental reexamination of these programs to improve performance and accountability by
clarifying federal goals and roles, establishing performance links, and improving investment decision-making.

Provisions enacted in 2012 in the Moving Ahead for Progress in the 21st Century Act (MAP-21) and affirmed in the 2015 FAST Act have begun to address these key challenges. Specifically, MAP-21 included provisions to move toward a more performance-based surface transportation program by establishing national performance goals in areas such as infrastructure condition, safety, and system performance. The act and its implementing regulations set forth a three-stage process in which (1) DOT establishes performance measures and standards, (2) states and other grantees set targets based on these performance measures and states report progress to DOT, and (3) DOT evaluates whether grantees have met or made significant progress toward their targets.

DOT has been implementing the performance-based approach envisioned in MAP-21. For example, in January 2017, the Federal Highway Administration (FHWA) finalized the last of six interrelated rules establishing performance measures in the areas of safety, pavement and bridge conditions, and system performance. States and other grantees began setting targets in 2018. In July 2017 we reported that without a formal plan guiding and coordinating FHWA’s efforts, the agency might struggle to articulate the goals and purpose of the transition, and to identify and address the activities best suited to help states and others overcome challenges. As a result, we recommended that FHWA develop an implementation plan—including strategic goals for the transition to a performance-based approach, specific efforts FHWA plans to take to help states and other grantees successfully make the transition, and a timetable for when these efforts would be completed. In July 2018, FHWA publicly released an implementation plan that addressed the issues we identified and the recommendation we made in 2017.

Discretionary grants. Discretionary grants are an important component in improving the performance and accountability of transportation funding decisions. We have reported that the historic approach to funding surface transportation, in particular highways, poses challenges because funding has been principally provided through formulas designed largely to return revenues to their attributed state of origin in order to closely align the states’ contributions to the Highway Trust Fund with the funding they receive. The FAST Act authorized about a dozen new discretionary grant programs. For example, the FAST Act established a grant program to fund freight and highway projects of regional or national importance, and in 2016 DOT awarded nearly $760 million for the Fostering Advancements in Shipping and Transportation for the Long-term Achievement of National Efficiencies (FASTLANE) grant program to 18 projects. While over 90 percent of spending from the Highway Trust Fund will continue to be distributed by formula, the FAST Act represents a
promising development to address national and regional transportation priorities.

We have found challenges with DOT’s implementation of discretionary grant programs, including problems with the transparency of the application review and selection process, and a lack of documentation of key decisions. For example, in November 2017 we reported that, due to inconsistencies in assessing applications for the FASTLANE program, we were unable to determine the rationale DOT used to award $759.2 million to the 18 projects it selected. Similarly, in December 2016, we found that the Federal Transit Administration (FTA) did not document key decisions in awarding $3.6 billion in discretionary grants for projects to increase the resilience of transit systems to withstand future disasters in areas affected by Hurricane Sandy. We have raised concerns about the lack of documentation of key decisions in DOT discretionary grant programs since 2011.

Given the continuing challenges we have found with DOT discretionary grant programs, and the number of new programs authorized by the FAST Act, we recommended in December 2016 that the Secretary of Transportation issue a directive governing department-wide and modal administration discretionary grant programs. Such a directive should include requirements to, among other things, (1) develop an up-front plan for evaluating project proposals to ensure DOT reviews applications consistently, and (2) document key decisions, including the reason for any rating changes, as well as how high-level concerns raised during the process were addressed. DOT concurred with the recommendation and stated it planned to implement it in 2019 by updating its Financial Assistance Guidance Manual. In order to fully implement this recommendation, DOT needs to issue a directive that incorporates all of the elements identified above.

| Congressional Actions Needed | Congress and the administration need to agree on a long-term plan for funding surface transportation. Continuing to augment the Highway Trust Fund with general revenues may not be sustainable, given competing demands and the federal government’s long-term fiscal challenges. A sustainable solution would balance revenues to and spending from the Highway Trust Fund. New revenues from users can come only from taxes and fees; ultimately, major changes in transportation spending or in revenues, or in both, will be needed to bring the two into balance. In 2008, we reported that Congress should consider addressing the imbalance between federal surface transportation revenues and spending. That matter has not been addressed, and the current authorization for surface transportation funding expires in October 2020. |

### What Remains to Be Done

While passage by Congress of a long-term sustainable plan for funding surface transportation is the pivotal action that is needed to remove this issue from our High-Risk List, it is also increasingly important that the effectiveness of surface transportation programs be improved by maximizing the use of existing resources and linking funding to performance. Specifically, DOT can:

- continue to make progress implementing the performance-based framework established in MAP-21, and
- enhance the management of its discretionary grant programs and respond to our recommendation to develop a directive to help ensure the integrity of future DOT discretionary grant programs.

### Related GAO Products


Modernizing the U.S. Financial Regulatory System

Financial regulators need to strengthen systemic risk oversight and monitor progress on reforms, and Congress may want to consider options to address inefficiencies that hamper the financial regulatory system.

Why Area Is High Risk
The U.S. financial regulatory structure remains complex, with responsibilities fragmented among a number of regulators that have overlapping authorities. The current structure introduces significant challenges for efficient and effective oversight of financial institutions and activities. Moreover, in the decades leading up to the financial crisis of 2007—2009, the financial regulatory system failed to adapt to significant changes.

First, although the financial sector increasingly had become dominated by large, interconnected financial conglomerates, no single regulator was tasked with monitoring and assessing the risks that these firms' activities posed across the entire financial system. Second, entities that had come to play critical roles in the financial markets were not subject to sufficiently comprehensive regulation and oversight. Third, the regulatory system was not effectively providing key information and protections for new and more complex financial products for consumers and investors. Consequently, we added this area to the High-Risk List in 2009.

Modernizing the U.S. financial regulatory system and aligning it to current conditions is essential to reducing the likelihood that our nation will experience another major financial crisis.

Contact Information
For additional information about this high-risk area, contact Lawrance Evans, Jr. at (202) 512-8678 or evanslj@gao.gov.

Since our 2017 High-Risk Report, ratings for all five criteria remain unchanged. Actions are needed by financial regulators and Congress to address this high-risk area.

Leadership commitment: partially met. Since policymakers enacted the Dodd-Frank Wall Street Reform and Consumer Protection Act (Dodd-Frank Act) in July 2010, financial regulators have shown leadership commitment by finalizing rules to implement most of the Dodd-Frank Act’s rule-making requirements. While the act included provisions to better position the financial regulatory system to address key financial stability risks, it generally left the financial regulatory structure unchanged. In February 2016, we reported that remaining fragmentation and overlap in the structure have created inefficiencies in regulatory processes and inconsistencies in how regulators oversee similar types of institutions. We also reported that while the Dodd-Frank Act created the Financial Stability Oversight Council (FSOC) to identify and address threats to financial stability, FSOC’s legal authorities may not allow it to respond effectively to systemic risks.

Capacity: partially met. The Dodd-Frank Act created FSOC and included other provisions intended to increase the capacity of the financial regulatory system to identify and address risks to the stability of the financial system. While most of these reforms have been implemented, rulemakings for certain reforms have only recently been finalized or taken effect, while others are currently being modified under the May 2018 Economic Growth, Regulatory Relief and Consumer Protection Act. In addition, FSOC and the Department of the Treasury’s Office of Financial Research (OFR) have not completed steps to clarify their respective responsibilities for monitoring financial stability risks.

Action plan: partially met. FSOC’s annual reports have served as the council’s key accountability document, as each report (1) discusses the progress regulators have made in implementing reforms, (2) identifies newly emerging threats, and (3) includes recommendations to address
them. While FSOC can respond to certain potential systemic risks, primarily through its designation authority, FSOC cannot compel regulators to act with respect to other sources of systemic risk. This presents a challenge to holding FSOC and the financial regulators accountable for addressing systemic risk.

In addition, financial regulators are required to conduct retrospective reviews of the effects of their regulations. However, some have not yet developed plans for how these reviews will incorporate quantitative analysis and identify opportunities for streamlining bodies of regulation.

**Monitoring: partially met.** FSOC monitors and reports on indicators of financial stability and potential emerging threats to financial stability. Since the financial crisis, the Board of Governors of the Federal Reserve System’s (Federal Reserve) stress test programs have played a key role in supervisory efforts to evaluate and maintain financial stability. In November 2016, we recommended that the Federal Reserve enhance the effectiveness of these stress test programs by further assessing—and adjusting as needed—the severity of the stress scenarios and other aspects of the test design.

**Demonstrated progress: partially met.** The new agencies and oversight bodies created under the Dodd-Frank Act have taken actions to carry out their missions. For example, FSOC meets regularly to discuss issues related to risks to the U.S. financial system. The Federal Reserve and the OFR have taken steps to reduce potential duplication and ensure comprehensive efforts to monitor systemic risks. For example, the two agencies coordinated semi-annual meetings to jointly discuss views from their respective monitoring of the financial system. In our continuing work to monitor this area, we determined that federal financial regulators could take additional steps to improve the efficiency and effectiveness of the financial regulatory system. For example, additional progress is needed in the areas of planning for retrospective reviews of rules and implementing the Federal Reserve’s stress test programs.

**What Remains to Be Done**

Over the years since we added this area to our high-risk list, we have made numerous recommendations related to this area. As of December 2018, 26 of these recommendations remain open. FSOC and its member agencies should implement our open recommendations related to strengthening oversight of risks to financial stability and assessing the effectiveness of Dodd-Frank Act reforms:

- FSOC and the OFR should clarify their respective responsibilities to monitor risks to financial stability to avoid gaps and duplication in these efforts.
Modernizing the U.S. Financial Regulatory System

- To improve the effectiveness of its stress test programs, the Federal Reserve should further assess key aspects of stress scenario design and take steps to improve its ability to manage model risk (the potential for adverse consequences from decisions based on incorrect or misused model outputs). Although the Federal Reserve has taken responsive actions related to some of our recommendations in this area, taking the additional steps we recommended can help the Federal Reserve identify and manage the risks introduced into its models, and account appropriately for uncertainty and sensitivity of model results.

- Under their authority, FSOC should work with federal financial regulators to establish formal coordination policies that clarify issues such as when interagency coordination should occur around rulemakings and the role FSOC should play in facilitating that coordination.

- The Federal Reserve and the Office of the Comptroller of the Currency should develop plans for how they will conduct required retrospective analyses of rulemakings, including how and when they will collect, analyze, and report needed data.

Congressional Actions Needed

Addressing weaknesses in the U.S. financial regulatory structure will require additional congressional leadership in the following two areas as suggested in our reports:

- Addressing fragmentation and overlap in the regulatory structure. Congress should consider whether additional changes to the financial regulatory structure are needed to reduce or better manage fragmentation and overlap in the oversight of financial institutions and activities to improve (1) the efficiency and effectiveness of oversight; (2) the consistency of consumer and investor protections; and (3) the consistency of financial oversight for similar institutions, products, risks, and services.

  For example, Congress could consider consolidating the number of federal agencies involved in overseeing the safety and soundness of depository institutions, combining the entities involved in overseeing the securities and derivatives markets, and determining the optimal federal role in insurance regulation, among other considerations.

- Clarifying FSOC’s authorities and mission. Congress should consider whether legislative changes are necessary to align FSOC’s authorities with its mission to respond to systematic risks. Congress could do so by making changes to FSOC’s mission, its authorities, or both, or to the missions and authorities of one or more of the FSOC member agencies to support a stronger link between the responsibility and capacity to respond to systemic risks.
Modernizing the U.S. Financial Regulatory System

Related GAO Products


Resolving the Federal Role in Housing Finance

Congress should consider establishing objectives for the future federal role in housing finance and establishing a transition plan that enables Fannie Mae and Freddie Mac—to exit federal conservatorship. Additionally, housing and regulatory agencies need to take actions to help manage mortgage-related risk.

Our ratings for the five criteria remain unchanged from our 2017 High-Risk Report. Actions are needed by housing and regulatory agencies and by Congress to address this high-risk area.

**Leadership commitment:** partially met. Housing and regulatory agencies have demonstrated some leadership commitment. For example, in January 2013 and December 2014, respectively, agencies finalized “qualified mortgage” and “qualified residential mortgage” regulations designed to prevent a recurrence of risky practices in originating and securitizing mortgages that contributed to the financial crisis.

Resolving the federal role in housing finance will require statutory changes. Congress held hearings and developed legislative proposals on housing finance reform since our 2017 High-Risk Report. However, it has not enacted legislation establishing objectives for the future federal role in housing finance or a transition plan that enables the enterprises—the Federal National Mortgage Association (Fannie Mae) and Federal Home Loan Mortgage Corporation (Freddie Mac)—to exit federal conservatorship. Also, some prior proposals have not had a system-wide focus. For example, some proposals address the enterprises but do not consider other entities such as the Federal Housing Administration (FHA) and the Government National Mortgage Association (Ginnie Mae).

**Capacity: partially met.** Under the Federal Housing Finance Agency’s (FHFA) conservatorship, the enterprises—which guarantee more than $5 trillion in mortgage-backed securities—generally have operated profitably since 2012. FHFA also has taken actions to assess the financial capacity of the enterprises and mitigate some of their risks by overseeing annual stress tests and directing them to take actions that have transferred increasing amounts of credit risk to private market entities.

However, FHFA lacks statutory authority to examine nonbank mortgage servicers (nondepository institutions that collect loan payments, among
other functions) and other third parties who do business with and pose potential risks to the enterprises. Also, prolonged conservatorships could create uncertainties for market participants and hinder the development of the broader mortgage securities market.

FHA has enhanced its risk-management practices in response to our recommendations, and while the agency’s Mutual Mortgage Insurance Fund did not meet its statutory minimum capital requirement in fiscal years 2009–2014, it has met the requirement each subsequent year. FHA’s capital requirement, however, is not based on a specified risk threshold, such as the economic conditions the fund would be expected to withstand.

A severe economic downturn could strain the capacity of FHA and the enterprises, and require taxpayer funds to cover actual or expected losses, as occurred during the financial crisis and associated housing market crash.

**Action plan: partially met.** Although fundamental changes to the housing finance system have yet to be enacted, federal agencies have taken some planning steps to facilitate the transition to a future federal role. For example, FHFA has continued efforts to create a common securitization platform for the enterprises, with the ultimate goal of building an infrastructure that could be used by other market participants in the future. Additionally, in July 2016, the Department of the Treasury, FHFA, and the Department of Housing and Urban Development (of which FHA is a component) issued a report with guiding principles for future efforts to mitigate mortgage losses, based on lessons from the financial crisis.

If Congress enacts changes to the housing finance system, relevant federal agencies will need to develop action plans to effectively implement the changes.

**Monitoring: partially met.** Federal agencies have taken some steps to provide the types of monitoring that may aid assessment of the effects of changes to the housing finance system. For example, FHFA and the Consumer Financial Protection Bureau monitor different aspects of the mortgage market, including emerging risks and consumer challenges, through activities such as examinations of regulated entities and analysis of consumer complaints.

FHFA and the Consumer Financial Protection Bureau also have continued a joint initiative—the National Mortgage Database Program—that could be useful for examining the effect of mortgage market reforms. One component is developing a representative database of loan-level information on the terms and performance of mortgages, as well as characteristics of the associated borrowers and properties. Another
component is a quarterly national survey of a representative sample of recent borrowers about their experiences in obtaining a mortgage. But housing and regulatory agencies have not taken all necessary steps, including specifying metrics and methods, to assess the effects of key mortgage regulations implemented in response to the last housing crisis.

**Demonstrated progress: not met.** Overall progress on resolving the federal role in housing finance will be difficult to achieve until Congress provides further direction by enacting changes to the housing finance system. Assessing progress against specific goals is not yet possible because Congress has not provided an overall blueprint for the future federal role in housing finance or determined the specific roles federal agencies will play.

### What Remains to Be Done

Housing and regulatory agencies should implement our previous recommendations designed to help manage mortgage-related risks and assess the effects of mortgage reforms already in place:

- The Department of Housing and Urban Development should develop a plan that identifies the metrics, baselines, and analytical methods needed to conduct retrospective reviews of its qualified mortgage regulations (i.e., analyze how well the regulations work in practice), consistent with Executive Orders and Office of Management and Budget guidance.

- Agencies responsible for the qualified residential mortgage regulations—including the Federal Deposit Insurance Corporation, Board of Governors of the Federal Reserve System, Office of the Comptroller of the Currency, and Department of Housing and Urban Development—should develop plans that identify the metrics, baselines, and analytical methods to be used for retrospective reviews.

Over the years since we added this area to the High-Risk List, we have made numerous recommendations related to this high-risk issue, two of which were made since the last high-risk update in February 2017. As of December 2018, six recommendations are open.

### Congressional Actions Needed

Congressional actions we have previously recommended will be needed to help resolve the federal role in housing finance and manage federal fiscal exposure to the mortgage market.

Specifically, Congress should consider housing finance reform legislation that

- establishes objectives for the future federal role in housing finance, including the role and structure of the enterprises within the housing finance system,
- provides a transition plan to a reformed system that enables the enterprises to exit federal conservatorship, and
• considers all relevant federal entities, including FHA and Ginnie Mae.
  Congress also should consider other actions we have previously recommended to help manage mortgage risks, such as
• granting FHFA explicit authority to examine nonbank servicers and other third parties that do business with the enterprises, and
• specifying the economic conditions that FHA’s Mutual Mortgage Insurance Fund would be expected to withstand without substantial risk of drawing on supplemental funds, and require FHA to specify and comply with a capital ratio consistent with these conditions.

Related GAO Products


Comprehensive legislative reform and additional cost-cutting are needed for the U.S. Postal Service (USPS) to achieve sustainable financial viability.

Why Area Is High Risk

USPS’s financial viability has been on our High-Risk List due to the need for action to address USPS’s poor financial condition. In July 2009, we reported that USPS’s financial condition needed attention by Congress and the executive branch to achieve broad-based restructuring. Currently one open Matter for Congressional Consideration is related to this high-risk area.

USPS financial viability continues to be high-risk because USPS cannot fund its current level of services and financial obligations from its revenues. As an independent establishment in the executive branch, USPS has long been expected to provide affordable, quality, and universal postal service to all parts of the country while remaining self-financing. Specifically, USPS is expected to be financially self-sufficient by covering its expenses through revenues generated from the sale of its products and services.

However, USPS is no longer able to do so. USPS’s most profitable product—First-Class Mail—is expected to continue declining for the foreseeable future, and USPS faces increasing competition in its less profitable package shipping business. Meanwhile, key costs, such as compensation and benefits, are rising.

Leadership commitment: partially met. USPS continues to seek some legislative changes intended to improve its financial condition. For example, USPS has sought legislation that would integrate its retiree health program with Medicare, which would significantly reduce its total unfunded liabilities. USPS also has sought legislation that would require a rate increase for most mail. Further, USPS is seeking the elimination of the price cap that generally limits rate increases for most mail to the rate of inflation.

USPS has implemented limited initiatives to manage its labor costs, such as a small reduction to its workforce in fiscal year 2018 through attrition. USPS has stated that opportunities for further cost savings are limited under the existing legal framework and would do little to close its financial gap.

Capacity: partially met. USPS plans to increase capital spending in the coming decade to replace and modernize its infrastructure after years of reduced capital investment. For example, USPS plans to replace its aging fleet of delivery vehicles, which is intended to increase its capacity to deliver mail and packages in a more cost-efficient manner.

However, given the uncertainty of USPS’s financial situation, the ability to carry out this spending may require tradeoffs with other commitments. USPS is only able to make capital investments and pay for its ongoing spending through revenues from its products and services.

Since our 2017 High-Risk Report, ratings for one criterion improved, one regressed, and three remain unchanged. The monitoring progress criterion is now met, but the demonstrated progress criterion regressed to not met.

Removal of USPS’s financial viability from the High-Risk List would require fundamental changes. Both Congress and USPS need to act to put it on a sustainable financial footing. USPS has lost $69.0 billion over the past 11 fiscal years—including $3.9 billion in fiscal year 2018—and has budgeted for a $6.6 billion net loss in fiscal year 2019.

Contact Information
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operations by not making certain required federal payments to fund accrued retirement benefits.

**Action plan: partially met.** USPS issued its 5-year strategic plan for fiscal years 2017 to 2021 outlining its strategy for making progress towards financial viability, and developed annual performance plans that specify goals for each fiscal year. However, these plans fall short of maximizing what USPS can do within its existing authority to operate more efficiently and reduce its costs. For example, USPS has no plans to resume consolidating its processing facilities, recognizing that actions such as this would likely face stakeholder resistance.

**Monitoring: met.** USPS regularly monitors its financial condition and issues quarterly and independently-audited annual financial reports. The independent audits have consistently found that USPS’s financial statements conform with U.S. generally accepted accounting principles and fairly present, in all material aspects, USPS’s financial position at the end of each fiscal year, as well as the results of its operations and cash flows. USPS’s quarterly and annual financial reports provide information on key trends and measures, such as (1) revenues and expenses; (2) unfunded liabilities; and (3) debt obligations. USPS publishes the reports on its public website and provides quarterly public webcasts on its financial results.

**Demonstrated progress: not met.** USPS’s overall financial condition is deteriorating and unsustainable. The savings from USPS cost-reduction efforts have dwindled in recent years and although USPS has stated it will aggressively reduce costs within its control, USPS’s plans will not achieve the kind of savings necessary to significantly reduce current operating costs. USPS expenses are now growing faster than its revenues, in part due to rising compensation and benefits costs combined with continuing declines in First-Class Mail. Further, USPS’s total unfunded liabilities and debt were $143 billion at the end of fiscal year 2018, an amount double its annual revenue.

As we testified in February 2017, a comprehensive package of legislative actions is needed to improve USPS’s financial viability. In that testimony, we also stated that USPS’s financial situation leaves Congress with difficult choices and trade-offs to achieve the broad-based restructuring that will be necessary for USPS to become financially sustainable.

In addition, USPS has missed $48.2 billion in required payments for postal retiree health and pension benefits through fiscal year 2018, including $42.6 billion in missed payments for retiree health benefits since fiscal year 2010, and $5.6 billion for pension benefits since fiscal year 2014. USPS has stated that it missed these payments to minimize the risk of running out of cash, citing its precarious financial condition and the need to cover current and anticipated costs and any contingencies.
USPS appears likely to miss required payments for retiree health benefits for the foreseeable future. Based on Office of Personnel Management projections, the fund supporting postal retiree health benefits would be depleted in fiscal year 2030 if USPS continues to miss all payments. If the fund is depleted, USPS would be required by law to make the payments necessary to cover its share of health benefits premiums for postal retirees. However, current law does not address what would happen if USPS misses those payments. Depletion of the fund, together with USPS’s potential inability to make remaining contributions, could affect postal retirees as well as USPS, customers, and other stakeholders, including the federal government.

What Remains to Be Done

As USPS has stated, it needs to aggressively pursue additional cost-reduction initiatives in areas in which it has managerial discretion. Because USPS actions under its existing authority will be insufficient to restore its financial viability, a balanced package of legislative reform continues to be needed.

Congressional Actions Needed

Congress should consider a comprehensive package of legislative actions to improve USPS's financial viability, including (1) facilitating USPS’s ability to better align costs with revenues; (2) putting postal retiree health benefits on a more sustainable financial footing; and (3) requiring any binding arbitration in the negotiation process for USPS labor contracts to take USPS’s financial condition into account. Congress should consider various options to better align USPS costs with revenues, and address constraints and legal restrictions that limit USPS’s ability to reduce costs and improve efficiency.

Related GAO Products


Management of Federal Oil and Gas Resources

To enhance its oversight of oil and gas development on federal lands and waters, the Department of the Interior (Interior) needs to accurately determine and collect royalties; resolve its human capital challenges; and, address leadership commitment deficiencies within the Bureau of Safety and Environmental Enforcement.

Since our 2017 update, Interior has partially met all criteria for this high-risk area. This high-risk area is composed of three segments: royalty determination and collection, human capital, and restructuring of offshore oil and gas oversight. Under human capital, for example, Interior has taken steps to assess its special salary rates but has not provided evidence that it evaluated its bureaus' training needs, training effectiveness, or opportunities for the bureaus to share training resources. Each of our five recommendations related to human capital, such as annually evaluating the bureaus' training programs, also remain open.

In February 2016, we reported that BSEE had not addressed longstanding oversight deficiencies. In March 2017, we reported that BSEE needed to improve its leadership commitment toward completing strategic initiatives for enhancing offshore oversight and internal management. These reports were the basis for adding the third segment to this High-Risk area in 2017.

Over the years since we added this area to our High-Risk List, we have made numerous recommendations related to this high-risk issue, 4 of which were made since the last high-risk update in February 2017. As of December 2018, 17 recommendations are open or unimplemented.
Ratings for this segment remain largely unchanged since our previous High-Risk Report in 2017, though the rating for leadership commitment has been revised from met to partially met due to recent regulatory actions. Ratings for the four remaining criteria remain unchanged.

**Leadership commitment: partially met.**
We revised the rating from met to partially met in light of recent regulatory actions addressing methane emissions and oil and gas measurement that may adversely affect the agency’s past efforts to implement our recommendations.

In October 2010 and July 2016, we found that Interior could take steps to better account for and manage methane emissions and issued several recommendations. For example, in October 2010, we found that economically capturing onshore vented and flared methane could increase federal royalty payments by $23 million annually. In response, Interior took steps to implement our recommendations. Specifically, in November 2016, Interior issued regulations intended to reduce wasteful methane emissions from onshore oil and gas production, which were consistent with our recommendations. In June 2017, however, Interior postponed compliance dates with relevant sections of the new regulations, and then suspended certain requirements in December 2017. Interior subsequently issued revised regulations in September 2018. Interior’s revised regulations were not consistent with our prior work because they eliminated certain regulations that would potentially have addressed our recommendations. Better methane control is important for ensuring the federal government receives all the royalties it is due.

In April 2015, we found that Interior had not updated several oil and gas measurement and site security regulations in over 25 years. As a result, Interior’s measurement regulations did not reflect current measurement technologies and standards, and its site security regulations did not require the tracking of the number or location of its royalty measurement points. This hampered Interior’s ability to have reasonable assurance that oil and gas production was being accurately measured and verified, raising concerns about whether the federal government was receiving the royalties it was due. Accordingly, we recommended that Interior update those regulations. In response, Interior issued new regulations consistent with our recommendations, which went into effect in January 2017. Later that month, Interior announced a new rulemaking effort to begin in January 2019 to revise its oil and gas measurement and site security regulations. It is uncertain whether these revisions will be consistent with
our prior work and provide reasonable assurance that the federal
government is receiving the royalties it is due.

We will continue to monitor Interior’s regulatory actions and reevaluate its
progress to regulate methane emissions and measurement, and site
security.

Capacity: partially met. Interior has an uneven capacity to address
weaknesses in its ability to determine and collect royalties. Interior was
unable to consistently meet its oil and gas measurement goals—an
important control for ensuring accurate royalty payments—for fiscal years
(BLM) officials stated that while BLM had generally met its goals for high-
priority oil and gas measurement inspections for fiscal years 2014 through
2017, it was unable to meet its goals for low-priority inspections, in part
due to insufficient staff.

Action plan: partially met. In March 2017, the Secretary of the Interior
established the Royalty Policy Committee, which is tasked with providing
advice to the Secretary on the fair market value of and on the collection of
revenues derived from development of energy and natural resources on
Federal lands. Since then, the Committee has met several times. This
effort is ongoing.

Monitoring: partially met. Interior has undertaken efforts to monitor its
performance addressing royalty determination and collection
weaknesses. For instance, Interior has implemented a majority of our
recommendations addressing royalty determination and collection.
However, it is uncertain if the effect of Interior’s recent regulatory actions
on methane emissions and oil and gas measurement will be consistent
with our prior work. Additionally, BLM has still not completed a planned
internal review to assess the overall effectiveness of previously issued
guidance on commingling requests—requests to combine oil or gas from
public, state, or private leases prior to royalty measurement.

Demonstrated progress: partially met. Interior has demonstrated
progress addressing weaknesses in its revenue collection policies and
practices. As of December 2018, Interior fully implemented 47 of our 50
recommendations. However, the effect of Interior’s recent regulatory
actions on methane emissions and oil and gas measurement may not be
consistent with our prior work. Our recommendations related to methane
emissions and oil and gas measurement are important for ensuring the
government collects the royalties it is due. Interior may hinder its
demonstrated progress if its recent regulatory actions jeopardize its prior
efforts to implement our recommendations.
What Remains to Be Done  Interior has made good progress addressing our recommendations yet needs to (1) continue to consider how to ensure the public gets a fair return from oil and gas produced from onshore and offshore leases, (2) complete its rulemaking to replace its recently issued onshore oil and gas measurement and site security regulations, (3) continue to assess technologies to minimize methane emissions, where applicable, (4) meet its goals for onshore and offshore oil and gas measurement inspections, and (5) consider technological options to more efficiently and effectively receive oil and gas volume data from companies. As of December 2018, 3 of the 50 recommendations we have made related to this segment remain unimplemented. Interior generally concurred with the remaining unimplemented recommendations. However as stated above, some of Interior’s recent regulatory actions may not be consistent with our prior work. We will continue to monitor Interior’s regulatory actions and reevaluate its progress to regulate methane emissions and measurement, and site security.

Human Capital Challenges

Interior continues to partially meet all criteria for this segment, as it did in 2017.

Leadership commitment: partially met. Interior has taken steps to implement each of our five recommendations related to human capital, such as evaluating the need for and viability of a certification program for BSEE inspectors. But Interior officials need to provide the guidance and direction to ensure Interior continues to work toward full implementation of these recommendations.

Capacity: partially met. In January 2017, Interior stated that it would direct BLM, BSEE, and the Bureau of Ocean Energy Management to identify their technical competency needs for key oil and gas personnel and develop a plan with milestones. In May 2018, Interior said it asked the bureaus to provide a plan for identifying key oil and gas positions and their respective technical competencies. As of December 2018, Interior had not provided us with a plan for developing technical competencies.

Action plan: partially met. Among other actions, Interior has taken initial steps to assess the effectiveness of its special salary rates by examining hiring and retention data from the fiscal year 2017 hiring cycle. However, as of December 2018, Interior had not evaluated the bureaus’ training needs, training effectiveness, or opportunities for the bureaus to share training resources.

Monitoring: partially met. In September 2016, Interior outlined steps it will take to assess the effectiveness of special salary rates, as well as
recruitment, relocation, and retention incentives by tracking measures such as turnover and acceptance rates. As of December 2018, the three bureaus had taken initial steps to regularly evaluate the effectiveness of the special salary rates incentive by examining data from fiscal year 2017 but had not yet evaluated the effectiveness of recruitment, relocation, and retention incentives, or its student loan repayment program.

**Demonstrated progress: partially met.** In September 2016, we reported on Interior's progress to hire, train, and retain staff, and made five recommendations. Interior has agreed with one recommendation, partially agreed with three, and disagreed with the remaining one. The agency has made some progress, but all recommendations remain open.

**What Remains to Be Done**

In 2016, we made five recommendations to Interior and all remain open. Interior needs to fully implement our recommendations to address its human capital challenges.

To help ensure Interior can hire, retain, and train needed staff, we recommended that Interior (1) regularly evaluate the effectiveness of incentives, such as special salary rates, to hire and retain key oil and gas staff; (2) annually evaluate the bureaus' training programs, including training needs and effectiveness, and potential opportunities for the bureaus to share training resources; (3) develop technical competencies for all key oil and gas staff; (4) evaluate the need for and viability of a certification program for BSEE inspectors; and (5) create or use an existing mechanism to facilitate collaboration across the three bureaus in addressing their shared hiring, retention, and training challenges.

**Restructuring of Offshore Oil and Gas Oversight**

We added this segment to our 2017 High-Risk List and are rating it for the first time.

**Leadership commitment: partially met.** In March 2017, we reported that BSEE leadership had started several initiatives to improve its safety and environmental oversight capabilities, but its limited efforts to obtain and incorporate input from within the bureau hindered its progress. In March 2017, we recommended that BSEE establish a mechanism for management to obtain and incorporate input from bureau personnel and any external parties that can affect the bureau's ability to achieve its objectives. We highlighted this recommendation as a top priority for the Secretary of the Interior. BSEE has taken some actions to address our concerns, including establishing an Ombudsman position within the bureau in May 2017, an Employee Engagement Council in February 2018, and an Innovation
Program in April 2018. However, BSEE has not yet demonstrated that these actions represent an enduring institutionalization of improved communication throughout the bureau.

**Capacity: partially met.** Since March 2017, BSEE has taken some actions for management to obtain and incorporate input from bureau personnel and any external parties that can affect the bureau's ability to achieve its objectives. However, BSEE has not completed other actions, such as a risk analysis of the regional-based reporting structure of the Environmental Compliance Division, including actions to mitigate any identified risk.

**Action plan: partially met.** In September 2016, BSEE issued a plan with milestones for implementing its case management system for investigations of offshore incidents. However, BSEE has not completed other actions, such as developing a plan to address documented environmental oversight staffing needs.

**Monitoring: partially met.** In April 2016, BSEE issued a bureau manual chapter regarding the review and adjustment of civil penalty amounts, and in February 2018 added a supplementary standard operating procedure that defines business practices for civil penalty inflation adjustment and identifies specific bureau roles, responsibilities, and timelines. However, BSEE has not completed other actions. For example, BSEE has not coordinated with the Administrator of the Environmental Protection Agency to consider existing interagency agreements for monitoring operator compliance with National Pollutant Discharge Elimination System permits on the Outer Continental Shelf and, if necessary, update them to reflect current oversight needs.

**Demonstrated progress: partially met.** We made a total of 13 recommendations to improve BSEE oversight capabilities and internal management, 9 of which remain open regarding its implementation of oversight divisions, ability to meet strategic objectives, and efforts to improve organizational trust.

**What Remains to be Done**

Interior should implement all open recommendations to complete the restructuring of BSEE’s oversight functions and improve leadership commitment to its key strategic initiatives for improving offshore oversight and internal management. Interior neither agreed nor disagreed with our recommendations.

**Related GAO Products**


Limiting the Federal Government’s Fiscal Exposure by Better Managing Climate Change Risks

To reduce its fiscal exposure, the federal government needs a cohesive strategic approach with strong leadership and the authority to manage risks across the entire range of related federal activities.

Why Area Is High Risk
Numerous studies have concluded that climate change poses risks to many environmental and economic systems and creates a significant fiscal risk to the federal government. For example, according to the November 2018 National Climate Assessment report, the continued increase in the frequency and extent of high-tide flooding due to sea level rise threatens America’s trillion-dollar coastal property market and public infrastructure, with cascading impacts to the larger economy. We added this area to the High-Risk List in 2013.

There are five areas where government-wide action is needed to reduce federal fiscal exposure, including, but not limited to, the federal government’s role as (1) the insurer of property and crops; (2) the provider of disaster aid; (3) the owner or operator of infrastructure; (4) the leader of a strategic plan that coordinates federal efforts and informs state, local, and private-sector action; and (5) the provider of data and technical assistance to decision makers.

We have made 62 recommendations related to this high-risk area, 12 of which were made since the February 2017 high-risk update. As of December 2018, 25 remain open.

Contact Information
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The rising number of natural disasters and increasing reliance on federal assistance is a key source of federal fiscal exposure. Since 2005, federal funding for disaster assistance is approaching half a trillion dollars (about $430 billion), most recently for catastrophic hurricanes, flooding, wildfires, and other losses in 2017 and 2018. Disaster costs are projected to increase as extreme weather events become more frequent and intense due to climate change—as observed and projected by the U.S. Global Change Research Program and the National Academies of Sciences, Engineering, and Medicine.

One way to reduce federal fiscal exposure is to enhance resilience by reducing or eliminating long-term risk to people and property from natural hazards. For example, we reported that elevating homes and strengthened building codes in Texas and Florida prevented greater damages during the 2017 hurricane season. Additionally, in October 2018, the Disaster Recovery Reform Act of 2018 was enacted, which, among other things, allows the President to set aside, with respect to each major disaster, a percentage of certain grants to use for pre-disaster hazard mitigation. However, for some Native American tribes and communities, such as Alaska Native villages, climate change impacts are an immediate threat, and we and others have reported on institutional barriers that limit proactive responses. We have ongoing work examining how to identify and prioritize resilience projects.

According to the November 2018 Fourth National Climate Assessment, neither global efforts to reduce emissions nor regional resilience efforts approach the scales needed to avoid substantial damages over the coming decades. However, beginning in 2017, the administration revoked policies that had identified addressing climate change as a priority and demonstrated top leadership support for executive branch action. Although leadership commitment remains partially met due to congressional action since our 2017 High-Risk Report, the federal
government has not made measurable progress to reduce its fiscal exposure to climate change. As a result, ratings for four criteria remain unchanged and monitoring has regressed to not met.

Federal Flood and Crop Insurance Programs

Federal flood and crop insurance programs were not designed to generate sufficient funds to fully cover all losses and expenses. The flood insurance program, for example, was about $21 billion in debt to the Treasury as of September, 2018. Further, the Congressional Budget Office estimated in January 2017 that federal crop insurance would cost the federal government an average of about $8 billion annually from 2017 through 2026. Implementing our prior recommendations to improve the long-term resiliency of insured structures and crops and address structural weaknesses may decrease federal fiscal exposure to climate change.

The ratings for this segment remain unchanged at partially met or not met.

Leadership commitment: partially met. Leadership commitment remains partially met to reflect action by Congress, such as passage of the Biggert-Waters Flood Insurance Reform Act of 2012. Specifically, the Biggert-Waters Act created the Technical Mapping Advisory Council (TMAC) and directed it to produce a “Future Conditions Risk Assessment and Modeling Report” with recommendations on how to ensure that (1) rate maps incorporate the best available climate science; and (2) the Federal Emergency Management Agency (FEMA) uses the best available methodology to consider the impact of rising sea levels and future development on flood risk. In its 2015 report, TMAC made several recommendations to FEMA for how to incorporate climate science into FEMA’s maps and tools on an advisory basis, which FEMA has plans to implement.

However, our rating for top leadership support within the executive branch has regressed because related executive orders have been rescinded. For example, the March 2017 E.O. 13783 Promoting Energy Independence and Economic Growth revoked E.O. 13653, which we previously found had partially met this criterion. Specifically, we had found that E.O. 13653 demonstrated top leadership support for federal agencies, such as FEMA and the United States Department of Agriculture (USDA), to incorporate adapting to climate change risks into their planning efforts.
Capacity: partially met. FEMA and USDA continue to take actions to improve stakeholder capacity to increase their resilience to climate change. For instance, FEMA reported progress at developing information on future conditions for flood maps in June 2017. Additionally, USDA’s Climate Hubs continue to deliver relevant science-based knowledge that may improve producers’ capacity to manage climate change impacts for crop insurance.

Action plan: partially met. FEMA and USDA have previously identified actions to address aspects of climate change in their programs on an advisory basis, in FEMA’s 2015 TMAC Future Conditions report and USDA’s 2016 Building Blocks for Climate Smart Agriculture and Forestry initiative. In its 2017 annual report, TMAC identified additional actions FEMA could take to advance its development of future conditions products and services, such as assessing stakeholders’ highest-priority needs.

Monitoring: not met. FEMA has yet to publish metrics and milestones to assess its progress incorporating future conditions into flood map products. USDA established milestones for certain actions to improve resilience from 2016 through 2018, but it no longer monitors its progress.

Demonstrated progress: not met. The federal government has not implemented our recommendations to improve the resilience of federally-insured property or address structural weaknesses in each program, as described in the following section.

What Remains to Be Done

The federal government needs to incentivize climate resilience by incorporating it into the requirements for federal insurance programs. Specifically, we made the following recommendations in October 2014:

- FEMA should consider amending the floodplain management minimum standards to incorporate forward-looking requirements, similar to the minimum flood risk reduction standard adopted by the Hurricane Sandy Rebuilding Task Force. FEMA agreed with this recommendation and plans to start implementing it in 2020.

- USDA should consider working with agricultural experts to incorporate long-term resilience into the good farming practices that are required for claim payments. USDA neither agreed nor disagreed with this recommendation; as of this report, USDA has not implemented it.

Congressional Actions Needed

Reducing federal fiscal exposure to climate change risks will also require congressional action to address other structural challenges in these insurance programs that send inaccurate price signals to policyholders about their risk of loss or increase the cost of these programs to taxpayers. For example,
In April 2017, we reported that Congress should consider comprehensive reform to the flood insurance program to improve its solvency and enhance the nation’s resilience to floods, including funding for flood mitigation and flood mapping.

In July 2017, we reported that Congress should consider repealing certain provisions in the Agricultural Act of 2014 that hinder the crop insurance program’s ability to adjust participating private insurers’ rate of return and share of premiums as changing conditions warrant.

In September 2018, we reported that the four near-sequential hurricane and wildfire disasters in 2017 created an unprecedented demand for federal disaster resources and that hurricanes Harvey, Irma, and Maria ranked among the top five costliest hurricanes on record. Subsequently, fall of 2018 brought additional catastrophic disasters such as Hurricanes Florence and Michael and devastating California wildfires, with further needs for federal disaster assistance. We have also reported that disaster costs are a key source of federal fiscal exposure and will likely continue to rise. Implementing our prior recommendations to improve state and local resilience and adopting adequate budgeting procedures to account for the costs of disasters could help decision makers better manage federal fiscal exposure to climate change.

In October 2018, the Disaster Recovery Reform Act (DRRA) of 2018 was enacted. DRRA, among other things, allows the President to set aside, with respect to each major disaster, a percentage of the estimated aggregate amount of certain grants to use for pre-disaster hazard mitigation and makes federal assistance available to state and local governments for building code administration and enforcement. It is too early to tell what impact the implementation of the act will have on state and local resilience and this high-risk rating. Additionally, we have ongoing work examining managed retreat from vulnerable areas as an option to reduce communities’ exposure to climate change impacts.

The ratings for this segment remain unchanged at partially met or not met.

**Leadership commitment: partially met.** Leadership commitment remains partially met to reflect action by Congress, such as passage of DRRA in October 2018. Additionally, according to FEMA’s 2018–2022 Strategic Plan, the agency will work with Congress and others to
incentivize investments that reduce risk, including pre-disaster mitigation, and increase the number of properties covered by flood insurance.

However, top leadership support within the executive branch has regressed, as related executive orders have been rescinded. For example, the August 2017 E.O. 13807 Establishing Discipline and Accountability in the Environmental Review and Permitting Process for Infrastructure Projects revoked E.O. 13690, which we previously found had partially met this criterion. E.O. 13690 had established a government-wide federal flood risk management standard to improve the resilience of communities and federal assets against the impacts of flooding.

**Capacity: partially met.** FEMA has continued to improve federal capacity by implementing our July 2015 recommendation to improve its Public Assistance delivery model. Additionally, as noted previously, DRRA allows the president to set aside certain funding for pre-disaster hazard mitigation efforts and requires FEMA to issue guidance on the acquisition of property for open space as a mitigation measure, which may improve state and local capacity for resilience.

**Action plan: not met.** The federal government has yet to implement our July 2015 priority recommendation to establish a comprehensive investment strategy to identify, prioritize, and implement federal disaster resilience investments. FEMA and its partners have developed a draft National Mitigation Investment Strategy (NMIS) that may address this recommendation, but it is too early to assess its responsiveness because it has not been finalized, although FEMA plans to do so in February 2019. Additionally, FEMA’s 2018–2022 strategic plan—issued in March 2018—established the performance targets of doubling the number of properties covered by flood insurance and quadrupling the amount of pre-disaster mitigation by 2022. However, without a comprehensive strategy in place to identify and prioritize FEMA’s resilience investments, it is unclear whether these efforts will reduce federal fiscal exposure.

**Monitoring: not met.** The federal government has not established a mechanism to track the effectiveness of federal investments in disaster resilience government-wide.

**Demonstrated progress: not met.** The federal government has not developed the information necessary to account for its fiscal exposure to climate change nor a strategy to reduce this exposure, as described below.

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**What Remains to Be Done**

The federal government needs to develop the information needed to manage disaster assistance programs’ long-term exposure to climate change and fully implement measures that promote resilience from our
prior recommendations and the recently enacted DRRA. Specifically, the federal government should:

- implement our April 2018 recommendation to provide, concurrent with any future climate change funding reports to Congress, funding information for federal programs with fiscal exposure to climate change, including costs for disaster assistance programs. OMB disagreed with this recommendation and has not implemented it as of this report;

- implement our July 2015 priority recommendation to develop a comprehensive strategy for identifying, prioritizing, and implementing investments for disaster resilience by incorporating these elements into the draft NMIS and finalizing it, which FEMA plans to do in February 2019.

- implement our September 2012 priority recommendation to update the methodology for assessing jurisdictions’ capability to respond and recover from a disaster without federal assistance. In 2017, FEMA had proposed establishing a disaster deductible but abandoned this effort in August 2018 in response to public comments. FEMA is currently exploring alternative options to update its methodology, but it has not provided a timetable for their implementation.

- implement our March 2011 recommendation to complete a national preparedness assessment of capability gaps at each jurisdiction’s level based on tiered, capability-specific performance objectives to enable better prioritization of FEMA grant funding to states and localities. FEMA reported that it plans on implementing a new methodology to assess core capabilities by December 2019 and will be able to provide complete assessment results in 2020.

- implement our 2003 recommendation to adopt adequate budgeting and forecasting procedures to account for fiscal exposures, such as major disaster costs, as part of the federal budget process. These procedures should provide a comprehensive view of overall funding and the trade-offs between spending with long-term benefits, such as resilience investments and short-term benefits, such as post-disaster repairs and recovery. OMB neither agreed nor disagreed with this recommendation and has not taken any action to implement it as of this report;

- consistent with our criteria for removal from the High-Risk List, implement its efforts to manage disaster assistance programs’ long-term exposure by (1) defining the responsibilities of federal and other partners, (2) identifying the resources necessary to sustain its efforts, and (3) tracking its results.
The federal government owns and operates hundreds of thousands of facilities and manages millions of acres of land that could be affected by a changing climate and represent a significant federal fiscal exposure. For example, the Department of Defense (DOD) owns and operates domestic and overseas infrastructure with an estimated replacement value of about $1 trillion. In September 2018, Hurricane Florence damaged Camp Lejeune and other Marine Corps facilities in North Carolina, with a preliminary Marine Corps repair estimate of $3.6 billion. One month later, Hurricane Michael devastated Tyndall Air Force Base in Florida, with a preliminary Air Force repair estimate of $3 billion and upwards of five years to complete the work. Implementing our prior recommendations to improve the resilience of federally-owned and operated property by accounting for climate change impacts in planning processes and decisions could reduce federal fiscal exposure to climate change.

Two ratings for this segment regressed to not met and three others remain unchanged at partially met and not met.

**Leadership commitment: partially met.** Leadership commitment remains partially met to reflect action by Congress, such as passage of the National Defense Authorization Act for Fiscal Year 2018, which requires DOD to report on climate change impacts to its installations and to provide an overview of mitigation actions to address them.

However, top leadership support within the executive branch has regressed, as executive orders and agencies revoked policies indicating leadership support. The August 2017 E.O. 13807 revoked E.O. 13690, which we previously found had established a standard for reducing the flood risk of federally-funded projects in flood plains. This action potentially increases the federal government’s fiscal exposure to climate change, as taxpayer-funded projects may not last as long as intended because they are not required to account for future climate-related changes in risk.

**Capacity: not met.** The May 2018 E.O.13834 Regarding Efficient Federal Operations revoked E.O. 13693, which we previously found had partially met this criterion because it directed federal agencies to incorporate resilient design elements into their facilities as part of federal sustainability goals. Additionally, in April 2017, the Council on Environmental Quality (CEQ) rescinded its guidance directing agencies to consider climate change in their National Environmental Policy Act of 1969 (NEPA) reviews for certain types of federal projects. We had
previously found that this guidance helped partially meet this criterion. Without such guidance, agencies no longer have White House direction to consider climate change impacts, such as sea level rise, when planning federally-funded infrastructure.

**Action plan: partially met.** DOD has made some progress implementing our May 2014 recommendations to consider climate change impacts for its domestic installations. In November 2017, we made six recommendations to DOD to also consider climate change impacts for its overseas installations. DOD partially concurred with four of these recommendations and non-concurred with two. All six recommendations remain open as of this report. Further, as mentioned above, the National Defense Authorization Act for Fiscal Year 2018 requires DOD to provide an overview of mitigation actions to address climate change impacts.

**Monitoring: not met.** E.O. 13834 revoked E.O. 13693, which we previously found had partially met this criterion because it established a mechanism for OMB to monitor agencies’ progress toward sustainability goals. These goals included federal facilities’ resilience to climate change impacts.

**Demonstrated progress: not met.** The federal government has not implemented our recommendations to improve resilience government-wide, as described in the following section.

### What Remains to be Done

The federal government needs a comprehensive approach to improve the resilience of the facilities it owns and operates, and land it manages. This involves incorporating climate change resilience into agencies’ infrastructure and facility planning processes, such as DOD’s efforts to implement our prior recommendations. It also involves accounting for climate change in NEPA analyses and working with relevant professional associations to incorporate climate change information into structural design standards. We made the following recommendations:

- In April 2013, we recommended that CEQ should finalize guidance on how federal agencies can consider climate change in their evaluations of proposed federal actions under NEPA. CEQ neither agreed nor disagreed with this recommendation but in August 2016, CEQ implemented it by issuing final guidance. However, in April 2017, CEQ rescinded this guidance.

- In November 2016, we recommended that the Department of Commerce should convene federal agencies to provide the best available forward-looking climate information to standards-developing organizations. Commerce neither agreed nor disagreed with this recommendation and as of May 2018, Commerce had not implemented it.
Additionally, in our 2017 High-Risk Report, we reported that implementing the January 2015 federal flood risk management standard—which required all future federal investments in, and affecting, floodplains to meet a certain elevation level—would have enhanced federal flood resilience by ensuring agencies addressed current and future flood risk. The August 2017 E.O. 13807 rescinded this standard.

Further, once the federal government provides leadership support to improve the resilience of federal property, it should identify the resources necessary to implement its plans, sustain its efforts over time and track its results.

Federal Government as Leader of National Climate Strategic Plan

As noted previously, as of December 2018, federal obligations and appropriations for disaster assistance are approaching half a trillion dollars since 2005. However, the federal government is currently not well organized to address the fiscal exposure presented by climate change, partly because of the inherently complicated crosscutting nature of the issue. Implementing our prior recommendations, such as developing a strategic approach to guide federal adaptation efforts and providing information on related fiscal exposures to Congress, could improve the nation’s ability to prepare for and adapt by reducing the government’s fiscal exposure. Additionally, we have ongoing work on how the federal government could identify and prioritize adaptation projects of national significance.

Four ratings regressed to not met and one remains unchanged at not met since our 2017 update.

Leadership commitment: not met. The March 2017 Executive Order E.O. 13783 revoked policies, including the Climate Action Plan and E.O. 13653 that we previously found had demonstrated leadership support for reducing aspects of fiscal exposure to climate change.

Capacity: not met. The May 2018 E.O.13834 revoked E.O. 13693, which we had previously found partially met this criterion. Specifically, E.O. 13693 had directed the Office of Personnel Management to include resilience in federal training and also directed the creation of interagency workgroups to address, among other things, resilience planning in coordination with states and other stakeholders.
Action plan: not met. Executive orders 13783 and 13834 withdrew previous direction to develop adaptation plans and strategic sustainability performance plans that identified agency actions to prepare for climate change impacts and improve resilience. As previously mentioned, FEMA and its partners have developed a draft National Mitigation Investment Strategy (NMIS) that may partially meet this criterion, if the final version includes a strategy to identify, prioritize, and implement federal disaster resilience investments. However, it is too early to assess the NMIS because it has not been finalized, although FEMA plans to do so in February 2019.

Monitoring: not met. Executive orders 13783 and 13834 also eliminated monitoring mechanisms that we previously found had partially met this criterion. Specifically, E.O. 13783 revoked E.O. 13653, which had directed agencies to submit adaptation plans to CEQ and OMB for review and E.O. 13834 revoked E.O. 13693, which had directed OMB to evaluate agencies’ strategic sustainability performance.

Demonstrating progress: not met. The federal government has not implemented key recommendations in this area, as described in the following section.

What Remains to be Done

The federal government could better reduce its fiscal exposure if federal efforts were coordinated and directed toward common goals such as improving climate resilience. For example, entities within the Executive Office of the President (EOP), including OMB should:

- implement our May 2011 recommendation to develop a strategic plan to guide the nation’s efforts to adapt to climate change, which includes clear priorities that reflect the full range of climate-related federal activities, as well as establishes clear roles, responsibilities, and working relationships among federal, state, and local governments;
- implement our September 2017 recommendation to use information on potential economic effects from climate change to help identify significant climate risks and craft appropriate federal responses; and
- implement our April 2018 recommendation to provide information on fiscal exposures related to climate change to Congress in conjunction with any future reports on climate change funding.

EOP neither agreed nor disagreed with our 2011 recommendation to develop a strategic plan to guide adaptation efforts and our 2017 recommendation to use information on potential economic effects from climate change to identify significant risks and responses. OMB disagreed with our 2018 recommendation to provide information on fiscal exposures related to climate change to Congress in conjunction with any future
climate change funding reports. As of this high-risk update, EOP and OMB have not implemented any of these recommendations.

Further, to meet our criteria for removal from the High-Risk List, the federal government’s approach will need to include measurable goals; identify the responsibilities and relationships among federal, state, and other entities; determine how such efforts will be funded and staffed over time; and establish mechanisms to monitor and demonstrate its progress. Because decisions at the state and local levels drive much of the federal government’s fiscal exposure, coordination between levels of government is essential.

Decision makers at all levels of government can affect federal fiscal exposure to climate change. Specifically, state, local, and private-sector decision makers can drive federal fiscal exposures because they are responsible for planning, constructing, and maintaining certain types of vulnerable infrastructure paid for with federal funds, insured by federal programs, or eligible for federal disaster assistance. For example, the federal government annually invests billions of dollars in infrastructure that state and local governments plan and build. To reduce fiscal exposure, the federal government has a role to play in providing information to decision makers at all levels so they can make more informed choices about how to manage climate change risks.

Two ratings for this segment regressed to not met and three others remain unchanged at not met.

**Leadership commitment: not met.** The March 2017 E.O. 13783 revoked the Climate Action Plan and E.O. 13653 that we previously found had partially met this criterion because they demonstrated top leadership support for federal technical assistance.

**Capacity: not met.** Under the Global Change Research Act of 1990, the administration released the Fourth National Climate Assessment in November 2018, which summarizes the impacts of climate change on the U.S. and provides some web-based tools to help people understand and manage their climate-related risk. However, this criterion remains not met because the resources and government-wide structure for providing technical assistance to decision makers—with clear roles, responsibilities, and working relationships among federal, state, local, and private-sector entities—remain undefined. We have made multiple recommendations to
the EOP to address these issues; however, the EOP has yet to make progress implementing them. Additionally, E.O. 13783 revoked E.O. 13653, which had directed federal agencies to develop and provide authoritative and accessible climate information to support federal and nonfederal decision makers.

**Action plan: not met.** We had previously found that E.O. 13653 and the Climate Action Plan had partially met this criterion because they outlined some steps for federal agencies to provide information to support resilience. However, these policies were revoked by E.O. 13783.

**Monitoring: not met.** There are still no programs or mechanisms to monitor government-wide progress in addressing the challenges we have identified related to the federal government’s role in providing climate-related technical assistance. These challenges include clarifying the roles, responsibilities, and working relationships among federal, state, local, and private-sector entities; identifying the necessary resources and establishing the government-wide structure necessary to implement plans; and addressing the fragmentation of federal climate information across individual agencies that use the information in different ways to meet their missions.

**Demonstrated progress: not met.** The federal government has not implemented our recommendations to improve its technical assistance to decision makers, as described in the following section.

### What Remains to be Done

The federal government needs a government-wide approach for providing federal, state, local, and private-sector decision makers with (1) the best available climate-related information, and (2) assistance for translating climate-related data into accessible information.

In November 2015, we found that federal efforts, such as the National Climate Assessment, provide useful information about climate change impacts. However, we also found that these efforts did not fully meet the climate information needs of federal, state, local, and private sector decision makers, which hinders their planning efforts. We found that these decision makers would benefit from a national climate information system that would develop and update authoritative climate observations and projections specifically for use in decision-making. As a result, we recommended that EOP should:

- designate a federal entity to develop and periodically update a set of authoritative climate observations and projections for use in federal decision-making, which other decision makers could also access, and
• designate a federal entity to create a national climate information system with defined roles for federal agencies and nonfederal entities with existing statutory authority.

EOP neither agreed nor disagreed with our recommendations and as of this report, has not implemented them.

Related GAO Products


Improving the Management of IT Acquisitions and Operations

To better manage billions of dollars in information technology (IT) investments, the Office of Management and Budget (OMB) and other federal agencies should further implement the requirements of federal IT acquisition reforms.

Why Area Is High Risk
The executive branch has undertaken numerous initiatives to better manage the more than $90 billion that is annually invested in IT. However, federal IT investments too frequently fail or incur cost overruns and schedule slippages while contributing little to mission-related outcomes. These investments often suffered from a lack of disciplined and effective management, such as project planning, requirements definition, and program oversight and governance. In 2015, we added the government’s management of IT acquisitions and operations to the High-Risk list.

Recognizing the severity of issues related to the government-wide management of IT, in December 2014, Congress and the President enacted federal IT acquisition reform legislation; in November 2017, the sunset dates of several of these statutory provisions were extended or removed. Among other things, these laws require covered agencies to: (1) enhance agency CIO authority, (2) enhance transparency and improve risk management, (3) consolidate federal data centers, (4) review IT investment portfolios, (5) purchase government-wide software licenses, (6) maximize the benefit of federal strategic sourcing and (7) expand training and use of IT acquisition cadres.

Contact Information
For additional information about this high-risk area, contact Carol Harris at 202-512-4456 or harrisc@gao.gov.

Since our 2017 High-Risk Report, ratings for all five criteria remain unchanged.

Leadership commitment: met. OMB continues to demonstrate its leadership commitment by (1) issuing guidance for covered departments and agencies (agencies) to implement statutory provisions commonly referred to as the Federal Information Technology Acquisition Reform Act (FITARA), (2) optimizing federal data centers, and (3) acquiring and managing software licenses. It will be important for OMB to maintain its current level of top leadership support and commitment to ensure that agencies successfully execute OMB’s guidance on implementing FITARA and related IT initiatives. Sustained Congressional focus on implementing FITARA has led to improvement, as highlighted in agencies’ FITARA implementation scores issued biannually by the House Committee on Oversight and Reform. However, further Executive branch and Congressional attention is required.

Capacity: partially met. OMB has established guidance for FITARA and related IT management practices that addresses how agencies are to implement roles and responsibilities. The guidance covers, among other things, enhancing the authority of federal chief information officers (CIO) and ensuring that program staff has the necessary knowledge and skills to effectively acquire IT. As we reported in August 2018, none of the 24 major federal agencies had IT management policies that fully addressed the role of their CIOs consistent with federal laws and guidance. The majority of the agencies minimally addressed or did not address their CIO’s role in assessing agency IT workforce needs, and developing strategies and plans for meeting those needs. Correspondingly, the majority of the 24 CIOs acknowledged they were not fully effective at implementing IT workforce responsibilities.

In November 2016, we reported that while the five agencies we reviewed had demonstrated important progress in implementing key IT workforce planning activities, each had shortfalls. For example, four agencies had
not demonstrated an established IT workforce planning process. All five agencies either agreed or partially agreed with our recommendations and identified planned actions to address our recommendations to improve their IT workforce planning. However, as of December 2018, none of our recommendations had been fully implemented.

**Action plan: partially met.** In addition to requiring covered agencies to conduct self-assessments, OMB’s FITARA implementation guidance requires agencies to develop and implement plans describing changes they will make to ensure that IT management responsibilities for CIOs and other senior agency officials are effectively implemented. These plans are to address the areas of IT management that we have identified as high risk, such as reviewing poorly performing investments, managing agencies’ IT portfolios, and implementing incremental development. While all 24 major federal agencies have developed FITARA implementation plans, the agencies need to demonstrate additional progress in effectively implementing these plans. As of December 2018, our continuing work to monitor progress in this area showed that 22 of the 24 major federal agencies had publicly reported at least partial completion of their FITARA milestones; however, all 22 of those agencies also reported incomplete milestones.

Significant work remains for federal agencies to establish action plans to modernize or replace obsolete IT investments. In May 2016, we reported that agencies were using systems which had components that were, in some cases, at least 50 years old. To address this issue, we recommended that 12 agencies identify and plan to modernize or replace legacy systems, including establishing time frames, activities to be performed, and system functions to be replaced or enhanced. Of the 12 agencies, 10 either concurred or partially concurred with our recommendations, while 2 stated they had no comment. However, as of December 2018, only 3 of the 12 agencies had implemented our recommendation and made progress in planning to modernize their legacy systems.

**Monitoring: partially met.** The President’s Management Agenda identified improving IT spending transparency as one of the Administration’s 14 cross-agency priority goals and tasked OMB with leading the drive towards better agency reporting on IT spending.

In January 2018, we reported that the majority of 22 agencies that we reviewed did not identify all of their IT contracts, leaving about $4.5 billion in IT-related contract obligations beyond those reported by agencies. Further, in November 2018, we reported that four selected agencies lacked quality assurance processes for ensuring that billions of dollars requested in their IT budgets were informed by reliable cost information. We made recommendations for those agencies to improve how IT
Improving the Management of IT Acquisitions and Operations

acquisitions are identified and to establish procedures for ensuring IT budgets are informed by reliable cost information. Until agencies properly identify IT acquisitions and establish processes for ensuring the quality of cost data used to inform their IT budgets, agency CIOs are at risk of not having appropriate oversight of IT acquisitions worth billions of dollars and not having adequate transparency into IT spending to make informed budget decisions.

OMB has taken action to improve monitoring through its IT Dashboard—a public website that provides detailed information on major IT investments at 26 federal agencies, including ratings from CIOs that should reflect the level of risk facing each investment. However, in June 2016, we reported that our assessments of IT Dashboard risk ratings showed more risk on the majority of agency IT investments we sampled than did the associated CIO ratings. Consequently, we made 25 recommendations to 15 agencies to improve their CIO’s risk ratings; 12 agencies generally agreed with or did not comment on our recommendations, and 3 disagreed. As of December 2018, only 14 of the recommendations had been fully implemented. Agencies should continue to fully and accurately report on these risks to ensure their IT investments receive appropriate oversight.

An additional area of concern regarding the monitoring of IT acquisitions is agencies’ reported use of incremental development; OMB policy requires that IT investments deliver functionality in 6-month increments. However, our May 2014 report found that delivery rate to be challenging for agencies and, thus, we recommended that OMB instead require increments of 12 months. While OMB disagreed with our recommendation, our continuing work in this area has found that most agencies have reported progress in improving the rate at which their IT acquisitions deliver functionality at the 12-month rate. Nonetheless, in November 2017, we reported that most agencies lacked the required policies intended to ensure adequate consideration of incremental development approaches for major IT investments and we made 19 recommendations to 17 agencies to address this issue. Eleven agencies agreed with our recommendations, 1 partially agreed, and 5 did not state whether they agreed or disagreed. As of December 2018, 11 of our 19 recommendations remained open.

Demonstrated progress: partially met. In our 2017 high-risk update, we identified agency plans to save $5.3 billion from data center consolidation, a number which included $3.3 billion planned through fiscal year 2015. Agencies subsequently reported achieving $2.8 billion of that amount. In 2016, OMB issued new guidance on consolidating data centers and subsequently, a number of agencies revised their planned savings, resulting in $2.4 billion planned from fiscal years 2016 through 2018. As of August 2018, our continuing work to monitor progress in this area has
shown that over $1.9 billion of that savings had been achieved. The total achieved savings of $4.7 billion represents slightly more than 80 percent of the agencies’ planned $5.7 billion in savings since 2011. In our 2017 high-risk update, we cited this 80 percent target as one of several actions that should be taken and recognize the positive government-wide progress this demonstrates. However, improvement is still needed in other areas.

Since fiscal year 2010, we have made 1,242 recommendations to address shortcomings in IT acquisitions and operations; 514 since this area was added to the High-Risk List in February 2015. As of December 2018, OMB and federal agencies had fully implemented only 735 (or about 59 percent) of the total recommendations and only 169 (about 33 percent) of the recommendations made since February 2015. In addition, agencies have made progress in achieving about $2.5 billion in savings across a key OMB initiative—PortfolioStat—intended to improve the management of IT investments by consolidating and eliminating duplicative systems, among other things. Through fiscal year 2016, agencies had saved almost $1.8 billion, with more than $754 million in fiscal year 2017. Nevertheless, agencies have approximately $3.5 billion in their reported planned savings still to be achieved.

What Remains to Be Done

As we have recommended, OMB and covered federal agencies should further implement the requirements of FITARA. OMB will need to provide sustained oversight to ensure that agency actions are completed and the desired results are achieved.

- Beyond implementing FITARA and OMB’s guidance to improve the capacity to address our high-risk area, agencies need to implement our recent recommendations related to improving CIO authorities, as well as past recommendations on improving IT workforce planning practices.
- Agencies must establish action plans to modernize or replace obsolete IT investments.
- Agencies need to implement our recommendations to address weaknesses in their IT Dashboard reporting of investment risk and incremental development implementation.
- OMB and agencies should work toward implementing our remaining 456 open recommendations related to this high-risk area. These remaining recommendations include 12 priority recommendations for agencies to, among other things, report all data center consolidation cost savings to OMB, plan to modernize or replace obsolete systems as needed, and improve their implementation of PortfolioStat. OMB and agencies need to take additional actions to (1) implement at least 80 percent of our open recommendations related to the management of IT acquisitions and operations, (2) ensure that a minimum of 80 percent of the government’s
major IT acquisitions deliver functionality every 12 months, and (3) achieve at least 80 percent of the over $6 billion in planned PortfolioStat savings.

Related GAO Products


Improving Federal Management of Programs that Serve Tribes and Their Members

The Bureau of Indian Education (BIE), Indian Health Service (IHS), and Bureau of Indian Affairs (BIA) have demonstrated some progress in all high-risk area segments. All three agencies continue to face challenges retaining permanent leadership and a sufficient workforce.

Why Area Is High Risk

Because our work has shown federal agencies have ineffectively administered Indian education and health care programs, and inefficiently met their responsibility for managing the development of Indian energy resources, we added this area to our High-Risk List in 2017. It includes three components across agencies in two departments, including BIE and BIA under Interior’s Office of the Assistant-Secretary of Indian Affairs (Indian Affairs), and IHS in Health and Human Services.

Education. BIE challenges included poor conditions at BIE school facilities that endangered students and the agency’s weak oversight of school spending.

Health care. HHS’s inadequate oversight has hindered IHS’s ability to ensure that Indian communities have timely access to quality health care.

Energy. BIA mismanagement of Indian energy resources held in trust limited opportunities for tribes and their members to use those resources to create economic benefits and improve the well-being of their communities.

Contact Information

For additional information about this high-risk area and our Indian Education work, contact Melissa Emrey-Arras at (617) 788-0534 or emreyarrasm@gao.gov; for our Indian Health work, contact Jessica Farb at (202) 512-7114 or farbj@gao.gov; and for our Indian Energy work, contact Frank Rusco at (202) 512-3841 or ruscof@gao.gov.

We added this area to our High-Risk List in 2017 and are assessing all three segments against our high-risk criteria for the first time. Overall, the three agencies have partially met the leadership commitment, capacity, action plan, monitoring, and demonstrated progress criteria for the education, health care, and energy areas.

Since we added this area to our High-Risk List in 2017, we have testified at seven congressional hearings. We believe that it is vital for Congress to maintain its focus on improving the effectiveness with which federal agencies meet their responsibilities to serve tribes and their members in these areas.

When we added this area to our High-Risk List in February 2017, there were 39 open recommendations. Since then, we added 13 recommendations. As of December 2018, 32 recommendations remain open.

Education

The education segment has partially met all five criteria for addressing high-risk issues.

Leadership commitment: partially met. Indian Affairs leaders have shown commitment to addressing key weaknesses in the management of BIE schools. For example, the BIE Director formed an internal working group, convened meetings with other senior leaders within Indian Affairs, and publicly stated that his agency is committed to implementing our recommendations. We also met with the new Assistant Secretary-Indian Affairs, who expressed her commitment to supporting the agency’s efforts...
to address weaknesses in the management of BIE schools. However, frequent turnover in key leadership positions in recent years has hampered Indian Affairs’ efforts to make improvements to Indian education.

**Capacity: partially met.** BIE and other Indian Affairs offices that support BIE schools have made some progress in increasing their capacity to address risks to Indian education. For example, BIE officials hired a full-time program analyst to coordinate the agency’s working group and help oversee the implementation of our recommendations. However, about 50 percent of all BIE positions have not been filled and the bureau has not completed a workforce plan to address staffing and training gaps, as we previously recommended. BIE officials told us they are developing a workforce plan, which they plan to complete by the end of 2018.

**Action plan: partially met.** Among other actions, BIE implemented a new action plan, including written procedures and risk criteria for overseeing BIE school expenditures, which fully addressed two priority recommendations. However, Indian Affairs has not provided documentation that it has developed and put in place action plans on other important issues, such as a comprehensive, long-term capital asset plan to inform its allocation of school facility funds, which we recommended.

**Monitoring: partially met.** Indian Affairs, in consultation with Department of Interior’s Office of Occupational Safety and Health, has taken actions to monitor corrective measures that address weaknesses with the agency’s safety program—which covers safety at BIE schools. However, the agency has not yet demonstrated that it is monitoring several other areas, such as whether relevant employees are being held to the agency’s required performance standards for safety inspections.

**Demonstrated progress: partially met.** Since our 2017 High-Risk report, Indian Affairs has fully addressed 11 of our 23 outstanding recommendations on Indian education. Overall, this represents a substantial increase in implementing our recommendations on Indian education since we identified the area as high-risk. Significant work, however, remains to address our outstanding recommendations in several key areas, such as workforce planning and accountability for BIE school safety and school construction projects.

**What Remains to Be Done** Continued progress will depend on sustained direction and support of top management in Indian Affairs and BIE. In addition, to increase its capacity to support functions related to administering and overseeing BIE schools, BIE needs to conduct strategic workforce planning and determine how
best to align its human capital program with its mission and programmatic goals, as we have recommended. As of December 2018, 12 recommendations related to this high-risk area remain open and Indian Affairs concurred with all 12 recommendations.

**Health Care**

IHS has partially met all five criteria to address the health care high-risk segment.

**Leadership commitment: partially met.** IHS officials have demonstrated leadership commitment by regularly meeting with us to discuss the agency’s progress in addressing our recommendations. In addition, IHS has chartered a policy advisory council that will focus on issues related to strategic direction, recommended policy, and organizational adjustments. According to IHS, this advisory council will, among other things, serve as a liaison among IHS leadership for issues involving strategic direction and policy, as well as monitor and facilitate related policy workgroups. However, IHS still does not have permanent leadership—including a Director of IHS.

**Capacity: partially met.** Among other actions, IHS officials stated that the agency is expanding the role of internal audit staff within its enterprise risk management program to augment internal audits and complement both the Department of Health and Human Services Inspector General and our audits. In addition, IHS has developed a new Office of Quality, which is expected to develop and monitor agency-wide quality of care standards. However, according to IHS, there are still vacancies in several key positions.

**Action plan: partially met.** IHS is in the final stages of developing a strategic plan and a related work plan to address certain root causes of management challenges and define solutions and corrective measures for the agency. The draft strategic plan divides these challenges into three categories: (1) access to care, (2) quality of care, and (3) program management and operations. We will examine the final strategic plan and related work plan to determine whether they contain the needed elements of an action plan once issued.

**Monitoring: partially met.** IHS has taken some steps toward monitoring the agency’s progress in addressing the root causes of their management weaknesses. In addition to developing its new Office of Quality, IHS has taken steps to develop a patient experience of care survey, as well as standards for tracking patient wait times. These efforts should be
reflected in the agency’s corrective plan, as part of an overall framework for monitoring progress that includes goals and performance measures to track their efforts and ultimately verify the effectiveness of their efforts.

**Demonstrated progress: partially met.** IHS has made progress in implementing corrective actions related to the management of health care programs. Specifically, since our 2017 High-Risk report, IHS implemented four of our 13 open recommendations. For example, in response to our April 2013 recommendation, to ensure that IHS’s payment rates for contracted services do not impede patient access to physician and other nonhospital care, IHS developed an online tool that enables the agency to track providers that do not accept IHS’s payment rates. In addition, IHS officials told us that they plan to complete the implementation of additional recommendations in 2019.

**What Remains to Be Done**

We have identified several priority actions for IHS in its role of providing accessible health care services to Indian tribes.

- IHS needs to ensure stable, permanent leadership that can assign the tasks needed to address weaknesses and hold individuals accountable for progress.
- IHS needs to continue to develop a corrective action plan that defines root causes, identifies solutions, and provides for substantially completing corrective measures.
- IHS needs to set up goals and performance measures to monitor the outcomes from its action plan.
- IHS needs to continue to address our open recommendations in this area, including (1) ensuring that agency-wide standards for the quality of care are developed, that facility performance in meeting these standards is systematically monitored over time, and that enhancements are made to its adverse event reporting system, and (2) monitoring patient wait times and ensuring corrective actions are taken when standards are not met.

As of December 2018, 7 out of the 13 recommendations in our 2017 High-Risk report remain open, and we have added one additional recommendation—for a total of 8 open recommendations related to this high-risk area. IHS fully concurred with these 8 recommendations.

**Congressional Actions Needed**

We have an open matter for Congress to consider requiring IHS to develop and use a new method to more equitably allocate Purchased/Referred Care program funds—which allow patients to receive care from external providers—across areas.
Energy

BIA has partially met all five criteria to address the energy high-risk segment.

Leadership commitment: partially met. In June 2018, a permanent Assistant Secretary for Indian Affairs was confirmed. This action provided an opportunity to improve Indian Affairs’ oversight of federal actions associated with energy development. However, BIA does not have a permanent Director, and BIA’s Office of Trust Services—which has significant responsibility over Indian energy activities—does not have a permanent Director or Deputy Director.

Capacity: partially met. In November 2016, we recommended that BIA establish a documented process for assessing the workforce at its agency offices. BIA conducted a survey to identify workforce needs related to energy development to support staffing decisions at the new Indian Energy Service Center. However, BIA officials said the agency does not have the staff or resources to implement a comprehensive workforce planning system to ensure it has staff in place at its agency offices to meet its organization needs.

Action plan: partially met. BIA officials met with us several times in fiscal year 2018 to discuss actions and plans for implementing our recommendations related to Indian energy resources. BIA officials told us that they proposed several modifications to the bureau’s land records data management system that will enable increased tracking and monitoring of key documents that BIA must review prior to the development of Indian energy resources. However, the agency does not have a comprehensive plan in place to identify causes of long-standing management weaknesses or an action plan to address the problems.

Monitoring: partially met. BIA has taken steps to improve monitoring by holding frequent meetings assessing its progress in implementing our recommendations. However, BIA has not taken steps to monitor its progress addressing the root causes of management weaknesses.

Demonstrated progress: partially met. BIA has shown significant progress developing data collection instruments and processes needed to track and review response times for a number of different actions associated with energy development. However, more needs to be done to close open recommendations, as discussed below.
What Remains to be Done

BIA needs to (1) provide decision makers with key information on resources needed to assess the composition of its workforce and implement a comprehensive workforce planning system, and (2) continue to identify causes of weaknesses with the management of Indian energy and mineral resources, and develop a plan to address these problems with clear milestones, well-defined performance measures, and a monitoring approach. As of December 2018, 12 of the 14 recommendations in our 2017 High-Risk report remain open. BIA fully concurred with all 12 recommendations.

Related GAO Products

For the 2020 Census, the U.S. Census Bureau (Bureau) plans to implement several innovations, including new IT systems. The challenges associated with successfully implementing these innovations, along with other challenges, puts the Bureau’s ability to conduct a cost-effective census at risk.

The 2020 Decennial Census was first added in 2017 as a high-risk area. Since then, the Bureau has met the criterion for leadership commitment and made progress on the other four criteria.

**Leadership commitment: met.** The Bureau and the Department of Commerce have strengthened this area with executive-level oversight of the 2020 Census by holding regular meetings on the status of IT systems and other risk areas. In addition, in 2017 the Department of Commerce designated a team to assist senior Bureau management with cost estimation challenges. Moreover, on January 2, 2019, a new Director of the Census Bureau took office, a position that had been vacant since June 2017; and in June 2018 the once-vacant Deputy Director position was filled.

**Capacity: partially met.** To enhance the capacity of its Decennial Directorate, the Bureau brought in new leadership in October 2017 with significant experience in program execution. The Bureau also improved the cost estimation process of the decennial when it established guidance including:

- roles and responsibilities for oversight and approval of cost estimation processes,
- procedures requiring a detailed description of the steps taken to produce a high-quality cost estimate, and
- a process for updating the cost estimate and associated documents over the life of a project.

However, the Bureau continues to experience skills gaps in the government program management office overseeing the $886 million contract for integrating the IT systems needed to conduct the 2020 Census. Specifically, as of November 2018, 21 of 44 positions in this office were vacant. These vacant positions add risk that the office may not be able to provide adequate oversight of contractor cost, schedule, and performance.
Action plan: partially met. In December 2018, the Bureau issued an updated operational plan for the 2020 Census that laid out risks, decisions made, issues to be resolved, and related milestones for each of its major operations. However, the 2020 Census schedule lacks a risk assessment and certain other best scheduling practices, which affects its overall reliability. In addition, during the 2018 End-to-End Test we found the Bureau’s data management reporting system did not always provide accurate information because of a software issue. As a result, Bureau staff had to rely on multiple systems to manage field operations, making monitoring inefficient.

Monitoring: partially met. The Department of Commerce holds biweekly meetings with Bureau leadership to discuss the status of 2020 Census operations, including our open recommendations. To track performance of decennial census operations, the Bureau relied on reports to track progress against pre-set goals for a test conducted in 2018. According to the Bureau, these same reports will be used in 2020 to track progress.

The Bureau has also taken steps to improve its cost estimation process for 2020; however, it needs to implement a system to track and report variances between actual and expected cost elements. Further, the Bureau’s schedule for developing IT systems during the 2018 End-to-End Test experienced delays that compressed the time available for system testing, integration testing, and security assessments. These schedule delays contributed to systems experiencing problems after deployment, as well as cybersecurity challenges. For example, as of December 2018, the Bureau had identified nearly 1,100 system security weaknesses that needed to be addressed.

Demonstrated progress: partially met. According to Department of Commerce officials, in the summer of 2018, the Bureau began conducting an analysis of oversight recommendations, including ours, to determine the root cause of shortfalls and set a timeline for addressing those recommendations and related root causes. We have standing quarterly meetings with Senior Bureau officials to discuss the status and expected actions for our open recommendations related to the 2020 Census. We also periodically meet with the Under Secretary for Economic Affairs to discuss the Department of Commerce’s oversight of the decennial census.

The Bureau is also using the cost estimate as a management tool for making decisions and assessing tradeoffs. For example, the cost estimate served as the basis for the fiscal year 2019 funding request developed by the Bureau. The Bureau also said it used the 2020 Census cost estimate to establish cost controls during budget formulation activities and to monitor spending levels for fiscal year 2019 activities.
While these actions and others are important steps forward, we found that the Bureau scaled back testing of new innovations in 2017 and 2018. Specifically, the Bureau cancelled the field portion of the 2017 test and then conducted a full operational test in only one site—Providence County, Rhode Island—instead of three test sites as originally planned. Moreover, the Bureau did not test all 2020 Census systems and IT capabilities during its operational test. Not fully testing innovations and IT systems as designed, increases the risk that innovations and IT systems will not function as intended during the 2020 Census.

What Remains to Be Done

As of January 2019, we have made 97 recommendations related to the 2020 Census. The Bureau has implemented 67 of these recommendations and 30 remain open. The Department of Commerce generally agreed with our recommendations and is taking steps to implement them. Moreover, in our April 2018 priority recommendation letter to the Department of Commerce we identified 15 recommendations as priority—seven of which have been closed as implemented over the past year. To make continued progress, the Bureau needs to ensure its approach to strategic planning, IT management, cybersecurity, human capital management, internal collaboration, knowledge sharing, as well as risk and change management are aligned toward delivering more cost-effective outcomes. Specifically the Bureau needs to:

- fill vacant positions in its government program management office as needed to oversee the IT integration contractor;
- implement best practices for scheduling the thousands of activities that make up the 2020 Census;
- improve the management and oversight of its IT systems in order to meet milestones for system development and testing, and be ready for the major operations of the 2020 Census;
- address cybersecurity weaknesses in a timely manner and ensure that risks are at an acceptable level before systems are deployed;
- implement cost estimation best practices including a system to track and report variances between actual and expected costs for its 2020 Census cost estimate;
- resolve implementation issues that have arisen during testing, prior to the 2020 Census; and
- continue to address our recommendations, especially those designated priority recommendations.

Congressional Actions Needed

In 2017 and 2018, we testified in five congressional hearings focused on the progress of the Bureau’s preparations for the decennial census. Going forward, continued congressional oversight will be needed to ensure decennial efforts stay on track, the Bureau has needed resources,
and Bureau officials are held accountable for implementing the enumeration as planned.

Related GAO Products


The federal government’s environmental liability is vast and growing, and the Departments of Energy (DOE) and Defense (DOD), which bear the bulk of this liability, need to take steps to address the environmental risks and to monitor, report on, and better understand this liability.

### Why Area Is High Risk

The federal government’s environmental liability has been growing for the past 20 years and this rise is likely to continue even as billions are spent each year on cleanup efforts. For fiscal year 2017, the federal government’s estimated environmental liability was $465 billion—up from $212 billion since fiscal year 1997. We added this area to our High-Risk List in 2017.

DOE is responsible for the largest share of the liability ($384 billion or about 83 percent) related primarily to retrieving, treating, and disposing of nuclear and hazardous waste. DOD is responsible for the second-largest share ($68 billion or about 15 percent), related primarily to environmental cleanup and restoration activities at its installations. The remaining liability is shared among other agencies, including the Departments of Transportation, Veterans Affairs, Interior, and Agriculture.

DOE’s liability grew by $110 billion (to $494 billion) in fiscal year 2018, primarily due to an increase in the estimated cost of the cleanup at the Hanford Site in Washington State. (The total liability for the rest of the federal government in fiscal year 2018 was not available at the time this report was published.) Even with the increase, however, DOE’s cleanup responsibilities may be underestimated because under federal accounting standards, environmental liability estimates do not include cost estimates for work for which reasonable estimates cannot currently be generated.

### Contact Information

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The recent audit of DOD’s environmental liabilities found that DOD did not consistently design, document, and implement controls over its environmental and disposal liabilities and did not appropriately prepare cost estimates for certain types of environmental liabilities. For example, auditors found that in developing its environmental liabilities cost estimates, DOD did not (1) include all required cost elements, (2) adjust the estimates to reflect current dollars, (3) use current data and the correct inputs, and (4) ensure estimates were reviewed by an estimator with the appropriate training.

**Action plan: not met.** Neither DOE nor DOD has fully identified the causes of their growing environmental liability or developed a formal plan to address it.

DOE has made at least two attempts recently to prioritize cleanup activities but neither has been fully implemented. First, in August 2017, DOE-EM instituted a 45-day review to gather input from sites regarding cleanup activities that could be completed quickly. However, this effort stalled with no action plan or report issued. Second, officials acknowledged they have not analyzed in detail the root causes of the growth in its environmental liability, and in August 2018, DOE-EM asked the sites to identify the key obstacles each faced in carrying out its cleanup mission. Senior DOE-EM leaders stated that they are developing corrective actions based on this information.

This effort may provide some insights into challenges at each site, but it is not comprehensive enough to reveal why, each year, DOE’s environmental liabilities are increasing faster than DOE’s spending on cleanup efforts. Without a comprehensive effort that incorporates prior DOE efforts to conduct root cause studies regarding contract and project management issues, it is not clear that DOE will have the information to develop an action plan to effectively address its environmental liabilities.

At DOD, officials acknowledged that the agency will likely incur costs for restoration initiatives in conjunction with base closures and with returning overseas DOD facilities to host nations. However, DOD reported that it is unable to provide a reasonable estimate of those costs because the extent of required restoration is unknown. Specifically, DOD has not 1) fully estimated costs for all its liabilities because the cost to clean up some known sites is not yet estimable, 2) fully inventoried all sites and general property, plant, and equipment needing cleanup, and 3) established a consistent methodology to adequately gather data and develop estimates.

**Monitoring: not met.** DOE and DOD do not have the information needed to monitor the effectiveness of their actions to address the environmental liabilities facing their departments. In February 2019, we found that DOE’s performance measures for cleanup activities do not provide a clear
picture of overall performance. Specifically, the systems used by DOE and its contractors to track cleanup progress do not follow project management best practices and do not link performance to cost and schedule. In April 2018, we found that DOE-EM does not have adequate quality control processes in place at Hanford’s Waste Treatment and Immobilization Plant—the largest project in DOE’s cleanup program—to monitor engineering and construction deficiencies. As a result, some problems have recurred, causing cost increases and schedule delays.

DOD continues to face challenges in developing reliable information on its environmental liabilities. In April 2018, DOD provided guidance on a department-wide audit strategy and methodology for the military services and its components to use in developing auditable environmental liability estimates that would standardize the business practices for reporting environmental liabilities department-wide. However, in November 2018, the DOD Inspector General identified deficiencies within DOD’s environmental liabilities audit approach, specifically related to DOD’s ability to substantiate the completeness and amount of its environmental liability estimate. As a result, the Inspector General identified DOD’s environmental liability as a material weakness.

**Demonstrated progress: not met.** DOE has made proposals to address some waste and legal challenges, but Congress may need to take action to provide more clarity on DOE’s authority in this area for it to demonstrate progress, as we noted in May 2017. DOE has begun to explore a less expensive waste treatment alternative—grouting waste rather than turning it into glass—aimed at reducing the overall cost of the cleanup at one of its largest and most expensive cleanup site at Hanford in Washington State. However, DOE’s effort to demonstrate alternative technologies for treating waste was not funded in the fiscal year 2019 budget.

Overall, DOE’s environmental liability continues to grow: In the past two fiscal years, DOE has spent over $12 billion on cleanup activities while the reported liability has grown by $122 billion. Similarly, DOD’s liability has remained largely unchanged in recent years despite billions spent on environmental cleanup projects. More remains to be done by DOE and DOD to demonstrate progress toward fully understanding, disclosing, and reducing their environmental liability.

**What Remains to Be Done** Both DOE and DOD have open recommendations that, if implemented, would improve the quality of the environmental liability estimates and begin to address the growing liability. Among these are the following key recommendations.
DOE should:

- develop a program-wide strategy that outlines how DOE will direct available resources to address human health and environmental risks across and within sites;
- include information on annual growth in environmental liability estimates by site and the causes of that growth in DOE-EM’s Future Years Defense Environmental Management Plan, as well as an explanation of significant differences between lifecycle cost estimates in DOE-EM’s annual budget submission with the environmental liability estimates; and
- disclose the funding needed to meet all of its enforceable cleanup milestones in, for example, supplemental reports or the annual Future-Years Defense Environmental Management Plan.

DOD should:

- effectively implement its program for financial management review, approval, assessment, and monitoring of the estimation and reporting processes for environmental liabilities;
- improve compliance with federal accounting standards and Financial Management Regulations guidance;
- design a process and controls at the department level to reconcile installation-level environmental records to installation property records and then using the corrected site inventories to determine that all sites with cleanup or corrective action costs are included in its financial reports of environmental liabilities; and
- report all costs required to complete environmental cleanup at each base realignment and closure installation.

In addition to taking the actions listed above, attention to open recommendations will be key to making progress to address this high-risk area. As of December 2018, 29 of our recommendations related to this high-risk area had not been implemented, 17 of which were made since we last reported on this high-risk area in 2017.

Congressional Actions Needed

Congress should consider clarifying, in a manner that does not impair the regulatory authorities of EPA and the state of Washington and in consultation with the Nuclear Regulatory Commission, DOE’s authority at Hanford to determine whether portions of the supplemental low activity waste can be managed as other high-level waste. Providing clear authority to DOE may allow it to use alternative waste treatment approaches to treat Hanford’s supplemental low activity waste, which could reduce certain risks by neutralizing the waste faster and save tens of billions of dollars.
Related GAO Products


The Department of Defense (DOD) can get better returns on its over one trillion dollar weapon system investments by following knowledge-based practices and developing an action plan for performance measures.

Why Area Is High Risk

In April 2018, we reported that the DOD expects to invest $1.66 trillion in total to develop and procure its portfolio of 86 major defense acquisition programs. Congress and DOD have long sought to improve how major weapon systems are acquired, yet many DOD programs continue to fall short of cost, schedule, and performance goals. Consequently, DOD often pays more than anticipated, buys less than expected, and, in some cases, delivers fewer capabilities to the warfighter. We added this area to our High-Risk List in 1990.

Given substantial defense modernization and recapitalization needs, DOD must get better returns on its weapon system investments and find ways to deliver capabilities to the warfighter on time and within budget.

Contact Information

For additional information about this high-risk area, contact Michael J. Sullivan, Director, Contracting and National Security Acquisitions at (202) 512-4841 or sullivanm@gao.gov or Shelby S. Oakley, Director, Contracting and National Security Acquisitions at (202) 512-4841 or oakleys@gao.gov.

Since our 2017 High-Risk Report, our assessment of DOD’s performance against our five criteria remains unchanged.

Leadership commitment: met. DOD has implemented reforms in its acquisition policies and undertaken initiatives aimed at improving program outcomes. DOD’s reforms included a 2015 update of its acquisition instruction and a series of Better Buying Power initiatives implemented between 2010 and 2015. The Office of the Under Secretary of Defense for Acquisition, Technology and Logistics led these efforts; however, in response to congressional direction, DOD dissolved this office in February 2018. Since then, DOD has developed a new organizational structure that refocuses the Office of the Secretary of Defense’s principal role from program oversight to one intended to ensure that major DOD investments produce integrated, technically superior capability that consistently outpaces global threats.

Within this structure, the new Under Secretary of Defense for Acquisition and Sustainment has retained milestone decision authority over 11 major defense acquisition programs, including the F-35 Lightning II Joint Strike Fighter—DOD’s most expensive program. Service acquisition executives in each of the three military departments are authorized to make milestone decisions for all other current, major defense acquisition programs. Although DOD’s executives share a collective commitment to improve program performance, specifics about the new organizational structure have not been fully determined.

Capacity: partially met. In February 2018, we reported that the military services aligned extensively with 4 of the 10 key practices leading organizations use to select, train, mentor, and retain program managers. We recommended that the military services improve practices that do not align extensively with leading practices, incorporate lessons learned from the Army’s experience with the Civilian Acquisition Workforce Personnel Demonstration Project, and make greater use of existing financial awards for good performance. DOD officials agreed with the recommendations and have identified its plans to implement them.
**Action plan: partially met.** DOD reported to Congress in August 2017 that the department was at risk of not being able to acquire and sustain major weapon systems at sufficient levels due to increasing costs. To counter this risk, DOD's new position of Under Secretary of Defense for Acquisition and Sustainment is to focus on major defense acquisition program performance and on reducing costs to free up resources for further investment. Although DOD has not yet identified a plan with specific goals or performance measures, its Better Buying Power initiatives address several steps DOD can take across its acquisition portfolio to achieve better results. These initiatives include measures such as setting and enforcing affordability constraints, instituting a long-term investment plan for portfolios of weapon systems, implementing "should cost" management to control contract costs, and eliminating redundancies within portfolios. The initiatives also emphasize the need to adequately grow and train the acquisition workforce.

**Monitoring: partially met.** In December 2008, GAO, DOD, and the Office of Management and Budget agreed on a set of metrics to measure DOD program cost growth over time. We have reported on those metrics since 2011; however, DOD no longer agrees with their use. In July 2018, GAO and DOD initiated discussions, which will continue in 2019, to develop a new set of metrics. DOD is also generally required under statute to submit selected acquisition reports to Congress that detail the cost, schedule, and performance status of individual major defense acquisition programs. DOD generally prepares these reports annually in conjunction with submission of the President's Budget. Further, from 2013 to 2016, DOD assessed and reported publicly on performance across its full portfolio of programs. DOD has not issued the portfolio reports since 2016, relying instead on its selected acquisition reports to provide information to Congress.

**Demonstrated progress: partially met.** In fiscal year 2017, we analyzed the cost growth of weapon systems in development since 2009, when DOD began implementing major acquisition reforms. We compared that to cost growth over the 10-years prior to acquisition reform and reported a 75 percent reduction in cost growth that totaled $36 billion. Similarly, we reported in April 2018 that DOD programs initiated since 2010 had better cost performance between 2016 and 2017 than the rest of the portfolio—an estimated $5.6 billion decrease versus a $60.3 billion increase. At the same time, we reported that most DOD programs continue to not fully implement knowledge-based acquisition practices, which increases the risk of undesirable cost and schedule outcomes.

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**What Remains to Be Done**

Over the years since we added this area to our High-Risk List, we have made numerous recommendations related to this high-risk issue. As of November 2018, 88 recommendations remain open, 43 of which we made since the last high-risk update in February 2017. To improve its
performance in the above areas, DOD should implement our recommendations on (1) knowledge-based acquisition practices, (2) defined cost and schedule goals, and (3) more extensive alignment with commercial practices on hiring and retaining quality program managers. Further, DOD should address our related open priority recommendations, which call for DOD to:

- Prepare cost and funding summaries for each individual ship in the Ford-class aircraft carrier program (CVN 78) within Selected Acquisition Reports.
- Track the costs to correct defects after ship delivery to help determine cases in which warranties could contribute to improvements in the cost and quality of Navy ships.
- Revise the Navy’s ship delivery policy to clarify what types of deficiencies need to be corrected, what capabilities must be achieved, and when. The Navy should also clearly define what constitutes a complete ship and when that status should be achieved.
- Require the Missile Defense Agency to make its cost estimates more comprehensive, to stabilize its element and program baselines by better understanding requirements before setting a baseline, and—once a baseline is set—to track revisions to enable meaningful comparisons over time.
- Establish a pilot program involving several current or new major defense acquisition programs to test, on a broad scale, different streamlined approaches for providing decision makers with only the most essential information needed to make decisions at each milestone throughout the acquisition process.
- Implement leading practices for managing science and technology programs by defining the appropriate mix of innovative, breakthrough technologies and more moderate, incremental technology enhancements; assessing whether that mix is achieved; using existing flexibilities to more quickly initiate or discontinue projects in response to the rapid pace of innovation; incorporating acquisition stakeholders into technology development programs; and promoting advanced prototyping of breakthrough technologies.

Related GAO Products


The Department of Defense (DOD) needs to assure that leaders across the department continue to improve their efforts to address long-standing financial management problems.

Why Area Is High Risk
DOD’s financial management continues to face long-standing issues—including its decentralized environment; cultural resistance to change; lack of skilled financial management staff; ineffective processes, systems, and controls; incomplete corrective action plans; and the need for more effective monitoring and reporting.

DOD financial management was first added to our High-Risk List in 1995. DOD remains one of the few federal entities that cannot accurately account for and report on its spending or assets. DOD’s discretionary spending makes up about half of the federal government’s discretionary spending, and its assets represent more than 70 percent of the federal government’s physical assets.

Sound financial management practices and reliable, useful, and timely financial and performance information would help ensure DOD’s accountability over its extensive resources and more efficient management of its assets and budgets.

Contact Information
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Since our previous High-Risk Report, progress has been made to meet the criterion of leadership commitment and partially meet the criterion for monitoring. The other three criteria remain unchanged.

Leadership commitment: met. In 2018, DOD leadership met the goal of undergoing the first agency-wide financial statement audit and established a process to remediate any audit findings—ultimately to improve the quality of financial information that is most valuable in managing the department’s day-to-day operations. The audit effort aligns with the department’s new national defense strategy which includes a priority to reform the department’s business practices. DOD’s fiscal year 2018 financial statement audit resulted in a disclaimer of opinion—the auditors were unable to express an opinion due to insufficient evidence. That said, according to a DOD official, audit remediation efforts have produced benefits in certain inventory processes that have led to operational improvements. We support DOD’s efforts to improve its financial management and will continue to oversee and monitor the financial statement audit results and provide constructive input through recommendations related to remediation efforts.

DOD leadership also demonstrated its commitment to make needed improvements by developing a database that tracks hundreds of findings and recommendations that came out of the audit. In addition, senior leadership has been meeting bimonthly with military services’ leadership for updates on the status of corrective action plans to address audit findings and recommendations, and the Under Secretary of Defense (Comptroller) has been meeting frequently with the Secretary of Defense to review the plans. As a result of these actions, this criterion has moved from partially met in 2017 to met in 2019.

Capacity: partially met. According to DOD Office of Inspector General (OIG) ineffective information technology systems’ controls hinder DOD’s ability to produce accurate, timely, and reliable financial information. DOD’s auditors issued more than 1,100 systems-related findings and recommendations during the fiscal year 2018 financial statement audit.
and the DOD OIG has reported multiple material financial systems that do not comply with federal systems requirements. These weaknesses pose a significant risk to DOD operations and could, for example, result in payments and collections being lost, stolen, or duplicated. They may also open the department up to other cyber threats across different networks and systems.

To conduct audits and support remediation of findings, DOD allocated the resources to complete its fiscal year 2018 financial statement audit, undergo a 2019 audit, and initiate related remediation efforts. These audits are expected to help guide DOD’s overall efforts to improve its financial information which is needed to support operational readiness. For example, the Navy expanded its use of automatic data feeds to prepare for the audit and improve its efficiency and operations. As a result, the Navy has avoided $65 million of charges for service provider support that manual data entry would have required.

**Action plan: partially met.** In the past several years, the Army, Navy, and Air Force have all undergone numerous audits, and have developed corrective action plans in varying detail to address some of their audit findings. DOD developed a centralized database to summarize information about the audit findings, recommendations, and related corrective action plans. The Financial Improvement and Audit Remediation (FIAR) directorate plans to use this information to describe specific actions that DOD plans to take to address audit findings.

Audit remediation efforts have already provided some operational benefits. For example, according to a DOD official, during an initial audit, the Army found 39 Blackhawk helicopters that had not been recorded in the property system. Similarly, the Air Force identified 478 buildings and structures at 12 installations that were not in the real property systems. These benefits demonstrate how the department is leveraging audit findings to support the National Defense Strategy effort to reform business practices for greater performance and affordability.

That said, hundreds of the same problems were identified again in the fiscal year 2018 audits, and hundreds of the same recommendations were re-issued. In addition, the military services have been addressing deficiencies in how they remediate audit findings and recommendations. However, the Army and Air Force continued to have deficiencies in how they identify, track, and prioritize financial management-related findings and recommendations, and develop and monitor the status of corrective action plans.

**Monitoring: partially met.** DOD’s centralized database will be used to capture, prioritize, and assign responsibility for auditor findings and the related corrective action plans—used to measure progress towards achieving a clean audit opinion. A clean or unmodified opinion is the
opinion expressed by the auditor when the auditor concludes that the financial statements are presented fairly, in all material respects, in accordance with the applicable financial reporting framework. DOD expects the database to improve its oversight and monitoring of pervasive deficiencies as well as their related remediation efforts. However, because the database is still being populated with findings and recommendations, it is too early to assess whether DOD will be able to successfully prioritize the findings and related corrective action plans, and report information to stakeholders.

In addition, DOD leadership has held frequent meetings to discuss the status of corrective action plans. DOD also established councils in certain areas (e.g., financial reporting) to review the status of audit remediation activities and challenges. The DOD OIG reported that corrective action plans have not been developed for all long-standing material weaknesses. Without such plans to monitor and measure progress, these long-standing material weaknesses may continue to affect DOD’s ability to improve its financial management and get to a clean audit opinion.

**Demonstrated progress: not met.** The DOD OIG’s disclaimer of opinion on DOD’s fiscal year 2018 financial statement was partially based on the disclaimers of opinion for the Army, Navy, Air Force, U.S. Marine Corps, Defense Health Program, Defense Logistics Agency, U.S. Transportation Command, and U.S. Special Operations Command. The DOD OIG also reported 20 material weaknesses in internal control across the department, contributing to its disclaimer of opinion. Some of these—such as an inability to account for its property and equipment—are examples of long-standing weaknesses that DOD has been unable to address.

In addition, the DOD OIG reported on several findings and recommendations regarding inventory and related property that could have operational impacts for DOD. For example, the auditor found:

- 107 rotor blades for Blackhawk helicopters that could not be used but remained on the inventory records,
- 24 Gyro Electronics for military aircraft that should not be used but remained in the inventory records,
- 20 fuel injector assemblies for Blackhawk helicopters did not have supporting documentation to demonstrate which military service owned them.

The results of prior audits and examinations further show the extent and complexity of improvements needed to provide reliable information for financial reporting and operational readiness. For example, DOD has multiple material financial management systems that do not comply with federal systems requirements. Further complicating this issue, DOD lacks internal controls over many of its financial systems which hinders its
ability to generate accurate, reliable, and timely financial and performance information.

However, DOD has seen some early signs of progress. For example, in preparing for and undergoing its first financial statement audit, Navy’s Commander, U.S. Pacific Fleet, strengthened internal controls to improve its operations. The initiative strengthened internal controls that resulted in freeing up purchasing power to fund $4.4 million in ship repair costs.

Further, DOD reports that Army successfully implemented a materiality-based physical inventory best practice to Army depot asset counts. This process improvement ensures a more accurate inventory count and Army avoids approximately $10 million of future cost annually.

What Remains to Be Done

Over the years, since we added this area to our High-Risk List, we have made numerous recommendations related to this issue, 9 of which were made since the last high-risk update in February 2017. As of December 2018, 53 recommendations are open. To address its complex array of financial management challenges, DOD needs to take action in all areas of concern, such as:

- DOD should continue to develop and deploy enterprise resource planning systems with appropriate functionality as a critical component of DOD’s financial improvement. In addition, DOD should make changes to the remaining legacy systems to satisfy audit requirements and improve data used for day-to-day decision making.
- DOD needs to continue building a workforce with the level of training and experience needed to support and sustain sound financial management.
- Army and Air Force should continue to follow the steps in OMB’s guidance for addressing financial management related findings and recommendations reported by external auditors, including steps to identify, prioritize, and track them; develop effective action plans to remediate them; and monitor the implementation status of the plans.
- DOD leadership needs to work on its centralized monitoring and reporting process by populating the database with all of the open financial management related findings and recommendations as well as their associated corrective action plans, and to prioritize them and track their completion.
- DOD will also need to continue to ensure that it has corrective action plans to address all of its material weaknesses.

Related GAO Products


The Department of Defense (DOD) needs to improve management of its business system acquisitions, improve management of its portfolio of business system investments, and leverage its federated business enterprise architecture to identify and address potential duplication and overlap across systems.

Since our 2017 High-Risk Report, DOD has made improvements in this high-risk area by moving from a not met rating on the action plan criterion to a partially met rating. The department accomplished this by developing a plan for making improvements to its business enterprise architecture. However, DOD lacks a plan to address both the business system acquisition management and investment management process segments of this high-risk area.

Our assessment of the leadership, capacity, monitoring, and demonstrated progress criteria remains partially met.

DOD’s Business System Acquisition Management

Ratings for this segment of the high-risk area remain unchanged since our previous High-Risk Report in 2017, with DOD partially meeting three criteria elements and not meeting the remaining two.

Leadership commitment: partially met.

Since our 2017 High-Risk Report, DOD has developed updated policy and guidance for managing business system investments that reflects changes called for by the National Defense Authorization Act for Fiscal Year 2016.

In addition, DOD’s April 2018 National Defense Business Operations Plan included a commitment that it would establish quantifiable measures for improvements to the business system environment by the end of fiscal year 2018, but DOD did not demonstrate that it established such metrics as planned. DOD has also faced frequent turnover in leadership positions associated with managing its business system investments and has not...
yet demonstrated how it intends to implement legislative provisions
designating the chief management officer (CMO) as the chief information
officer (CIO) for all DOD business systems. Regarding the legislative
provisions, in November 2018, the acting CMO stated that she has a
collaborative relationship with the DOD CIO and they are working to
define their respective responsibilities.

**Capacity: not met.** The Office of the CMO, which establishes policy and
guidance for business system investments and oversees a subset of
business system investments, has not demonstrated that it has
conducted a human capital analysis, as we recommended in May 2013.
In addition, the Office of the CMO does not have a plan to analyze and
address skill gaps, thus limiting its capacity to lead improvement
initiatives in these areas.

In August 2018, we reported that the DOD CIO had only partially
addressed roles and responsibilities associated with its information
technology (IT) workforce, such as (1) annually assessing the extent to
which DOD personnel meet IT management knowledge and skill
requirements, and (2) developing strategies for hiring and training to
rectify any knowledge and skill deficiencies.

**Action plan: not met.** DOD continues to lack a plan that includes specific
actions and associated milestones to address what remains to be done
for this segment of the high-risk area. As a result, DOD does not have a
common baseline to document DOD-wide commitments and their
associated timeframes.

**Monitoring: partially met.** DOD has begun to leverage the federal IT
Dashboard to document progress in improving its business system
acquisition outcomes. However, without an approved action plan for
addressing gaps described in this segment of the high-risk area, DOD
lacks the means to monitor broader progress in making improvements to
its business system acquisition management efforts.

**Demonstrated progress: partially met.** Since our 2017 High-Risk
Report, DOD has had mixed success in delivering business system
investments that meet cost, schedule, and performance commitments.
For example, we reported in May 2018 that the Global Combat Support
System–Army met all six of its performance targets but was delayed by
10 months. We also reported that the Defense Enterprise Accounting and
Management System Increment 1 met three out of four performance
targets but increased in cost by 60 percent.

In addition, DOD has made progress in addressing certain of our
recommendations associated with making improvements in this area. For
example, since February 2017, DOD has implemented recommendations
aimed at addressing best practices in risk management, project
monitoring, and IT acquisition for a subset of its business system investments. DOD has also made progress in addressing recommendations associated with implementing incremental development.

However, DOD still needs to address our long-standing recommendations associated with the establishment of timelines and issue monitoring that impact efficient and effective use of other specific systems, and another recommendation aimed at making further improvements associated with its use of incremental development.

What Remains to Be Done DOD needs to take various steps, including:

- developing an action plan for addressing this high-risk area;
- following through with its commitment to develop measures to demonstrate improvements in its business systems environment;
- demonstrating improved success in meeting business system cost, schedule, and performance expectations; and
- addressing our various open recommendations associated with this high-risk area, including recommendations aimed at improving human capital management, CIO oversight of IT, incremental development, and recommendations associated with specific business systems.

DOD’s Business System Investment Management Process

Ratings for this segment remain unchanged since our 2017 High-Risk Report, with DOD partially meeting three criteria and not meeting the remaining two.

Leadership commitment: partially met. DOD has made progress complying with legislative provisions for managing business system investments in the National Defense Authorization Act for Fiscal Year 2016, but more remains to be done.

In addition, DOD has faced frequent turnover in leadership positions associated with managing its business system investments, and it has not yet demonstrated how it intends to implement legislative provisions designating the CMO as the CIO for all DOD business systems.

Capacity: partially met. DOD has established an investment review board and guidance for overseeing its largest business system investments. However, as we reported in April 2018, required guidance has yet to be developed at all levels throughout the agency. In addition,
the Office of the CMO has not demonstrated that it has conducted a human capital analysis as we recommended in May 2013, and does not have a plan to analyze and address skill gaps.

**Action plan: not met.** DOD continues to lack a plan with specific actions and associated milestones to address what remains to be done for this segment of the high-risk area. As a result, DOD does not have a common baseline to document DOD-wide commitments and their associated timeframes.

**Monitoring: not met.** Without an approved action plan for addressing this segment of the high-risk area, DOD lacks a means to monitor progress in making improvements to its business system investment management process.

**Demonstrated progress: partially met.** Since our 2017 High-Risk Report, DOD has taken steps to improve its business system investment management process by addressing some associated recommendations. For example, DOD has defined criteria for reviewing defense business systems at an appropriate level based on factors such as cost and risk, in support of the business system certification and approval process. However, DOD needs to show continued progress in addressing our remaining associated recommendations, such as developing improved investment management guidance and functional strategies, including measurable targets over the next 3 to 5 years.

**What Remains to Be Done**

DOD should implement our recommendations on improving its business system investment management efforts, including:

- taking a strategic approach to human capital management for the Office of the CMO,
- improving investment management policy and guidance at all levels of the organization, and
- ensuring that functional strategies include all of the critical elements identified in DOD investment management guidance.

**DOD’s Federated Business Enterprise Architecture**

Ratings for this segment have improved for two of the five high-risk criteria elements since our 2017 High-Risk Report.

**Leadership commitment: partially met.** Since our 2017 High-Risk Report, DOD’s assistant deputy CMO approved an improvement plan for DOD’s business enterprise architecture (i.e., description of DOD’s current and future business
environment and plans for transitioning to the future environment). This plan is intended to improve DOD’s ability to achieve architecture-related outcomes, including identifying and reusing existing systems across the department. The plan demonstrates that DOD leadership is committed to making needed improvements. However, DOD has faced frequent turnover in leadership positions associated with managing its business system investments, and has not yet demonstrated how it will implement legislative provisions designating the CMO as the CIO for all DOD business systems.

**Capacity: met.** As reported in our 2017 High-Risk Report, DOD has met the criterion for capacity. In particular, it has established tools and processes that are intended to improve its efforts to identify potentially duplicative systems.

**Action plan: partially met.** DOD has developed a project plan for how it will make improvements to its business enterprise architecture. However, it has not revised its plan to reflect updated milestones.

**Monitoring: partially met.** DOD has developed a plan for making needed improvements to its business enterprise architecture and receives monthly contractor status reports. However, monthly reports do not discuss progress relative to the plan and the plan has not been revised to reflect updated milestones.

**Demonstrated progress: partially met.** DOD has established the capacity to identify potentially duplicative investments and has developed a plan to further improve its capacity. DOD has also provided examples of benefits attributed, at least in part, to its business enterprise architecture. Nevertheless, DOD has not yet demonstrated that it is actively and consistently using assessments of potential duplication and overlap to eliminate duplicative systems. DOD’s business architecture improvement plan acknowledges this gap and identifies steps it intends to take to improve its ability to use the business enterprise architecture to achieve its intended goals.

**What Remains to be Done**

Over the years since we added this area to our High-Risk List, we have made numerous recommendations related to this high-risk issue, 10 of which were made since the last high-risk update in February 2017. As of December 2018, 27 recommendations are open. DOD needs to continue to execute its plan for making needed improvements to its business enterprise architecture and demonstrate that it is actively and consistently using assessments of potential duplication and overlap to identify and eliminate duplicative systems.


The Department of Defense (DOD) needs to better align its infrastructure capacity with its force structure needs and achieve efficiencies by reducing both excess infrastructure and base support costs, and maximizing the use of its underutilized facilities.

Since our 2017 High-Risk Report, DOD has made progress in two areas: meeting the criteria of leadership commitment and action plan. Our assessment of the other three criteria remains unchanged.

**Leadership commitment: met.**

DOD has demonstrated leadership commitment by (1) agreeing to improve certain cost estimating processes in future Base Realignment and Closure (BRAC) rounds by implementing, for example, our recommendation to better forecast initial BRAC costs for military construction; (2) committing to improve its excess capacity estimating method by implementing, for example, our recommendation to use reasonable assumptions in estimating excess capacity; (3) pursuing an effort to relocate from costly commercial leased space to nearby installations when possible; and (4) highlighting its need to dispose of unneeded infrastructure by requesting and completing BRAC rounds. As a result, the rating for the leadership commitment criteria for this high-risk area has improved from partially met in 2017 to met.

Between 2013 and 2017, DOD requested BRAC rounds to address excess capacity, which Congress did not authorize. DOD did not request a BRAC round in 2018. However, in the John S. McCain National Defense Authorization Act for Fiscal Year 2019, Congress provided DOD with additional authority to realign or close certain military installations if the governor of the relevant state or entity (including the District of Columbia, Puerto Rico, and Guam) recommends that the Secretary carry out the military installation’s realignment or closure. This authority includes several requirements, including statements of support for the realignment or closure from the local government, a plan for reuse, and a cost cap of $2.0 billion. DOD also has authority to close or realign installations under other circumstances, subject to certain civilian personnel thresholds and other statutory requirements. It will be important for DOD and Congress to work together to determine infrastructure needs in light of any force structure changes and to take action to dispose of excess infrastructure, as appropriate.
DOD officials have also stated that they intend to address key recommendations we have made by, for example, (1) better forecasting the initial BRAC costs for military construction, information technology, and relocating military personnel and equipment; (2) better aligning infrastructure to DOD force structure needs by, for example, improving the accuracy and sufficiency of its excess capacity estimates; and (3) pursuing an effort to consolidate and standardize leases, which includes analyzing whether it is feasible to relocate functions from commercial leased space to existing space on an installation, thereby reducing leases and better utilizing excess space.

As the responsibilities of the Assistant Secretary of Defense for Energy, Installations, and Environment are transferred to the recently established Assistant Secretary of Defense for Sustainment, it will be important for DOD to maintain its leadership commitment to aligning support infrastructure with the needs of its forces and achieving efficiencies.

**Capacity: partially met.** In 2017, we reported that DOD had demonstrated its capacity to align infrastructure with DOD force structure needs by disposing of excess infrastructure during past BRAC rounds and by consolidating some installation services at joint bases, among other efforts. However, we also reported that DOD needed to improve the accuracy of its real property data, including data on the utilization rates of its facilities.

In November 2018, we reported that DOD’s Real Property Assets Database contained inaccurate data and lacked completeness, although certain data that we reviewed had improved in accuracy. We found that the percentage of DOD facilities with missing utilization data improved in fiscal year 2016 (14.4 percent) compared to fiscal year 2014 (23.3 percent). However, DOD continues to be missing utilization data for about 93,600 facilities. To address incomplete and inaccurate data in DOD’s database, we recommended that the department fully monitor its data recording processes, develop and implement corrective actions for identified data discrepancies, and develop a strategy to address risk associated with data quality. DOD generally concurred with these recommendations and identified a series of steps the department would take to implement them.

**Action plan: met.** We reported in 2017 that DOD had developed plans, such as its Real Property Efficiency Plan, to better identify excess infrastructure and thus be positioned to dispose of it. This plan includes DOD’s goals for reducing the footprint of its real property inventory and metrics to gauge progress. The plan is scheduled to be implemented by the end of 2020. However, in 2018, the reduction numbers targeted for DOD under the Office of Management and Budget’s Reduce the Footprint Strategy could not be calculated because, according to Performance.gov (which tracks the goals and objectives of the President’s Management
Agenda), the data that DOD submitted was not of sufficient accuracy to support the calculation of its Reduce the Footprint portfolio relative to its baseline.

In October 2018, we reported that DOD had begun using intergovernmental support agreements between military installations and local governments to obtain installation services, such as waste removal, grounds maintenance, and stray animal control. In our 2018 analysis of a sample of these agreements, we found that DOD was achieving cost savings and cost avoidances. DOD agreed to monitor whether installations are evaluating opportunities to use these agreements, stating that the military services will update their policies and procedures to include a process for conducting such monitoring.

In June 2017, DOD also directed the joint bases to stop using the higher cost joint base common standards for installation services and instead use the standards of the military service in charge of providing services at any given joint base. In March 2009, we had reported that joint base costs were likely to increase because the services had not routinely funded installation support at amounts needed to meet joint base common standards. Since DOD directed the joint bases to stop using common standards, these expected increased costs are less likely to occur. As a result these actions, the rating for the action plan criteria for this high-risk area has improved from partially met in 2017 to met.

Monitoring: partially met. We reported in 2017 that DOD had committed to improve its monitoring of any future BRAC rounds and had demonstrated some ability to monitor its efforts to achieve reductions and efficiencies in infrastructure. In May 2018, we reported that DOD needed to improve the accuracy of its excess capacity estimates. In response, the department agreed to update the baseline used for such estimates; clearly lay out any assumptions used and their rationale; and update guidance, definitions, and implementing instructions and apply them in a manner that ensures consistency, but with necessary flexibility.

We also reported in November 2018 that DOD still does not have fully reliable data in its Real Property Assets Database to effectively monitor its property needed for informed management decision-making. For example, we found that over 22 percent of DOD’s facilities (about 125,000 facilities) did not have a physical inspection date in the last 5 years, as required for properties not designated as historic.

Additionally, DOD has not yet committed to implementing some related prior recommendations for any future BRAC rounds. For example, DOD has not agreed to limit the practice of bundling multiple stand-alone realignments or closures into single BRAC recommendations. We reported in 2013 that such bundling did not itemize the costs and savings associated with each separate major action within the bundle, and thus
limited the visibility into the estimated costs and savings for individual closures and realignments.

**Demonstrated progress: partially met.** DOD has demonstrated some progress in aligning its infrastructure to its force structure needs by reducing excess infrastructure through five BRAC rounds between 1988 and 2005, and by disposing of and demolishing excess facilities. DOD has also begun taking other actions that could demonstrate progress in more efficiently using underutilized facilities and reducing base support costs. For example, as of March 2017, DOD and the General Services Administration had begun sharing information about the potential use of available space on DOD installations by other federal agencies. Additionally, in December 2017, a DOD official told us that the department had begun reviewing opportunities to relocate DOD organizations currently in commercial leased space to nearby installations with available space, thereby ending lease payments by the tenant organizations. Finally, DOD has started to reduce some installation support costs by using intergovernmental support agreements to obtain installation services from local governments at lower costs.

However, DOD’s ability to demonstrate further progress continues to be challenged by unreliable real property data, as we reported in November 2018. For example, as of fiscal year 2016, nearly half of the facilities that have been identified as excess in DOD’s Real Property Assets Database do not have a date for when that determination was made, and thus their status cannot be verified as accurate.

Additionally, we found facilities that existed but were not recorded in the military services’ data systems, as well as disposed facilities that no longer existed but were still reflected as active in the database. DOD has also not committed to setting targets for eliminating excess capacity in any future BRAC rounds, which would help DOD measure its reduction of excess infrastructure. As DOD examines and adjusts its force structure, it is important that DOD also assess how its infrastructure capacity aligns with its infrastructure needs, and work with Congress, as needed, to reduce any excess infrastructure.

### What Remains to Be Done

Over the years since we added this area to the High-Risk List, we have made numerous recommendations related to this high-risk issue, 17 of which were made since the last high-risk update in February 2017. As of December 2018, 23 recommendations are open.

DOD needs to:

- fully identify the cost requirements for military construction, information technology, relocating personnel and equipment, and alternatively financed projects for any future BRAC round;
• limit the practice of bundling multiple stand-alone BRAC realignments or closures into single recommendations;
• establish targets for eliminating excess capacity for any future BRAC;
• improve the accuracy of its excess capacity estimates by reliably updating the baseline for estimating excess infrastructure capacity, using reasonable assumptions in estimating excess capacity, and developing guidance to improve its analysis and ensure consistency;
• implement processes for monitoring the benefits from intergovernmental support agreements and whether installations are evaluating opportunities to use those agreements; and
• improve the accuracy and completeness of its real property data by fully monitoring its processes for recording all required real property information, developing and implementing corrective actions for identified data discrepancies, and developing a strategy to address risks associated with data quality and information accessibility.

DOD should continue to assess its infrastructure needs in light of ongoing changes in DOD force structure (including military service personnel numbers) and work with Congress, as needed, to reduce any excess infrastructure.

Congressional Actions Needed

If Congress were to authorize additional BRAC rounds, we have suggested that it consider amending BRAC legislation to require the Secretary of Defense to formally establish specific goals for a BRAC process. Congress may also want to consider requiring DOD to implement all our applicable recommendations related to BRAC.

We have also suggested that Congress consider directing DOD to evaluate the purpose of the joint basing program to help ensure it achieves its goals and leverages additional opportunities to reduce duplication of effort.

Related GAO Products


The Department of Defense (DOD) should accurately track efficiencies gained and costs reduced as it transforms its business functions through a transition to shared services and other efficiency initiatives.

**Why Area Is High Risk**
DOD spends billions of dollars each year to maintain key business operations intended to support the warfighter, including systems and processes related to the management of contracts, finances, the supply chain, support infrastructure, and weapon systems acquisition. Weaknesses in these areas adversely affect DOD’s efficiency and effectiveness, and render its operations vulnerable to waste, fraud, and abuse. DOD’s approach to transforming these business operations is linked to DOD’s ability to perform its overall mission, directly affecting the readiness and capabilities of U.S. military forces.

We added DOD’s overall approach to managing business transformation as a high-risk area in 2005 because DOD had not taken the necessary steps to achieve and sustain business reform on a broad, strategic, department-wide, and integrated basis. Further, DOD’s historical approach to business transformation has not proven effective in achieving meaningful and sustainable progress in a timely manner. Also, DOD did not have an integrated plan for business transformation with specific goals, measures, and accountability mechanisms to monitor progress and achieve improvements.

**Contact Information**
For additional information about this high-risk area, contact Elizabeth Field at 202-512-2775 or fielde1@gao.gov.

Since our 2017 High-Risk Report, DOD has met the action plan criteria. Ratings for the leadership commitment, monitoring, and demonstrated progress criteria are unchanged at partially met, and the rating for capacity declined to partially met.

**Leadership commitment: partially met.** In February 2017, the Secretary of Defense announced that DOD would undertake an effort to identify business services and tasks that no longer merit individual military department approaches. In January 2018, DOD issued its National Defense Strategy, which included reforming the department’s business practices for greater performance and affordability. DOD has taken steps to achieve efficiencies in its business services and to implement certain statutory requirements in the National Defense Authorization Acts (NDAA) for Fiscal Years 2017 through 2019. However, as we discuss in more detail below, the structure and processes and the involvement of a key leader on DOD’s Reform Management Group (RMG) have changed and remain unclear.

Additionally, with the resignation of the Chief Management Officer (CMO), the Deputy Chief Management Officer (DCMO) assumed the role of the Acting CMO in December 2018. Given the importance of the CMO to achieving business reform, these developments raise concerns about the extent to which the department will be successful in its approach to business transformation.

Congress included a provision in the National Defense Authorization Act for Fiscal Year 2018 to create a CMO position that is distinct from the Deputy Secretary of Defense, eliminated the position of DCMO and provides a number of key responsibilities set forth in section 132a of title 10 of the U.S. Code. In February 2018, the Secretary of Defense implemented the statutory provision to establish the CMO position and disestablished the position of DCMO. Among other responsibilities, the CMO is responsible for (1) managing DOD’s enterprise business operations and shared services and (2) directing the secretaries of the military departments, and the defense agencies and field activities.
(DAFAs) that provide shared business services for the department or with regard to other matters for which the CMO is responsible.

In February 2017, the Secretary of Defense also issued a memorandum tasking the Deputy Secretary of Defense with leading an effort to identify business services and tasks that no longer merit individual military department approaches. In May 2018, DOD issued its National Defense Business Operations Plan, outlining the department's strategic goals and objectives for improving performance and reforming business operations.

These actions demonstrate a leadership commitment to business transformation. However, it will be important for the department to sustain its focus on this effort at the highest levels. In April 2005, we testified on the importance of a full-time leadership position at the right level dedicated to the planning, integration, and execution of business transformation efforts. The longer this critical position is filled by someone in an acting capacity, the greater the risk that DOD's transformation efforts could be impacted.

**Capacity: partially met.** We have downgraded the capacity criterion from met in 2017 to partially met in 2019. In 2017, we reported that the DCMO had taken several steps to improve its capacity to monitor DOD's business transformation efforts, including conducting a business process and systems review. However, with the planned establishment of the CMO position in February 2018, we reported that it would be critical that the Office of the CMO (OCMO) have the personnel and other resources needed to fulfill its significant responsibilities. While DOD has since established the OCMO and taken some steps to build its capacity, such as hiring a new Chief Data Officer and establishing plans to restructure the OCMO around its enhanced responsibilities, the OCMO may not yet have the capacity to perform certain key functions. For example, section 921 of the John S. McCain NDAA for Fiscal Year 2019 requires the CMO to review the budgets of certain defense agencies and field activities, beginning in fiscal year 2020. OCMO officials told us they are working to develop a process for this review and to determine which DAFAs would be subject to the review. Until the OCMO has developed the process and determined how many DAFAs the review will include, it will not know what, if any, resource implications this requirement has for the office.

Data show that DOD’s budget request for OCMO has declined from fiscal year 2017 to fiscal year 2019. At the same time, the CMO’s authorities and responsibilities have expanded. For example, the NDAA for Fiscal Year 2018 assigns the CMO the responsibility to serve as DOD’s Chief Information Officer for defense business systems. According to OCMO officials, DOD is still determining which responsibilities, if any, will transfer from the CIO to the CMO and what the resource implications of that
transfer will be. Moving forward, we will closely monitor the OCMO’s ability to assume these and other responsibilities.

Additionally, DOD established nine reform teams, led by senior-level functional officials throughout the department who are charged with identifying and implementing initiatives to consolidate the department’s business operations. Our recent work indicates that some reform teams have encountered challenges that could impede their progress. For example, as we reported in January 2019, the OCMO did not request funding for reform team initiatives, and reform teams reported that they lack funding needed to implement some of their initiatives. OCMO officials told us that the teams submitted nine requests for funding in fiscal year 2018, but OCMO did not have funding to support four of these requests as of the end of fiscal year 2018.

Reform team membership relies on the military services’ and DAFAs’ continued willingness to provide members for each of the teams. Further, DOD senior leaders told us they plan to move many of the teams out of the OCMO to the components responsible for the functions they are trying to reform. This development raises questions about whether the teams will be fully empowered and sufficiently independent to drive change. We will continue to closely monitor development of the OCMO and progress of the reform teams to assess the extent to which they have the capacity to achieve their goals.

**Action plan: met.** In our February 2017 High-Risk Report, we stated, among other things, that DOD should refine its performance action plan or develop a corrective action plan that identifies the processes, systems, personnel, and other resources needed to implement reform initiatives. As previously stated, in May 2018, DOD issued its National Defense Business Operations Plan. This plan establishes a strategic goal of reforming the department’s business practices for greater performance and affordability. The strategic objectives supporting that goal are to: (1) improve and strengthen business operations through a move to DOD-enterprise or shared services, and reduce administrative and regulatory burden; (2) optimize organizational structures; and (3) undergo an audit and improve the quality of budgetary and financial information. As a result of these actions, the rating for the action plan criteria for this high-risk area has improved from partially met in 2017 to met.

DOD’s Fiscal Year 2019 DOD Annual Performance Plan identifies performance goals and measures to achieve the strategic goals and objectives described in the National Defense Business Operations Plan, including the goal of reforming the department’s business practices. The Performance Plan designates several business reform team leaders as responsible for meeting performance goals and measures. For example, the leader of the Information Technology and Business Systems Reform Team is responsible for transforming how the department delivers secure,
stable, and resilient information technology infrastructure in support of warfighter lethality. This goal is consistent with the team’s overarching objective to plan and execute the transformation of all business systems affecting support areas within the department. Moving forward, it will be important for DOD to demonstrate that it is using its National Defense Business Operations Plan to guide its reform efforts.

**Monitoring: partially met.** According to officials, DOD established a Reform Management Group (RMG) in summer 2017; it was initially chaired by the Deputy Secretary of Defense and co-chaired by the CMO and the Director of Cost Assessment and Program Evaluation (CAPE), to identify opportunities for reform and provide support to the nine reform teams. The RMG was intended to (1) provide oversight and guidance, (2) make decisions on reform team recommendations, and (3) monitor the reform teams’ progress. However, according to officials, the structure and processes of the group have changed over time and remain unclear. For example, in October 2018, the Director of CAPE told us, and a senior OCMO official later confirmed, he was no longer co-chairing the group.

In addition, OCMO officials are considering whether the RMG should meet bi-weekly rather than weekly; and whether teams should meet with the RMG only when a team is chartered and when it briefs the proposed solution for its initiatives, rather than throughout implementation as has been the case. It is unclear at this point what effect these and other changes may have on oversight of the teams’ progress. DOD has also developed a dashboard containing project milestones and metrics for monitoring reform team progress. Although not completely populated in September 2018, when we received a demonstration, the dashboard will indicate whether each of the initiative’s project milestones and metrics are on track.

While these steps demonstrate progress in the area of monitoring, we remain concerned that the department has not clearly established reliable baselines for measuring progress and verifying cost savings estimates. In July 2017, we reported that DOD did not have a reliable estimate to support the cost savings it had identified for its past efficiency initiatives. As recently as May 2018, DOD provided a progress report to Congress on past efficiencies that included inconsistent documentation, raising questions about the accuracy of its prior cost savings estimates.

According to the John S. McCain NDAA for Fiscal Year 2019, the CMO is required, by not later than January 2020, to develop a baseline of costs to perform certain business activities, such as real estate management. We will be reviewing this baseline to assess the extent to which it includes all elements required under the NDAA and helps DOD track cost reductions effectively.

DOD is also working to develop a cost management framework to estimate cost savings for its reform efforts, but it is unclear what effect
this framework will have on improving the accuracy of the department’s future cost savings estimates. Without a reliable cost estimate that includes a cost baseline, DOD will be unable to determine and accurately report actual savings achieved from its reform efforts. For example, we reported in July 2017 that DOD’s projected cost savings estimates were unreliable because DOD-provided documentation, when compared with best practices for cost estimates, was not sufficiently detailed to support the estimates.

**Demonstrated progress: partially met.** As noted above, DOD established nine reform teams aligned to its functional lines of business in February 2017 to achieve its goal of reforming business practices for greater performance and affordability. These include functional lines such as financial management, supply chain and logistics, human resources, and information technology and business systems. Each of these reform teams is to implement initiatives in its respective line of business that will transform some aspect of the department’s business operations and free up resources to reinvest in warfighter priorities.

However, it remains to be seen how effective these reform teams, or the other reform initiatives in the department, will be. Notably, DOD has not met many of its internal goals and milestones for business operation reform, and the absence of a clear process for identifying and prioritizing available funding for reform teams may impede their progress. In November 2018, CMO officials told us they planned on narrowing the scope of reform efforts to focus on four areas: 1) fourth estate, or those organizations other than the military departments or combatant commands, such as the Office of the Secretary of Defense, the Joint Staff, the defense agencies, and DOD field activities; 2) information technology; 3) health care; and 4) DOD’s approach to buying goods and services more efficiently and cost effectively, called category management. This reduction in scope raises questions about the extent to which enterprise reform will be made in the areas that were deemphasized, such as human resources.

**What Remains to Be Done**

Since we added this area to our High-Risk List, we have made numerous recommendations related to this high-risk issue, including 9 since the last high-risk update in February 2017. As of December 2018, all 9 remain open.

In order to make progress in its approach to business transformation, DOD should:

- provide department-wide guidance on the CMO’s roles, responsibilities, and authorities;
• implement and communicate a process for providing resources to the reform teams, including funding to implement reform initiatives, as needed;
• demonstrate that the National Defense Business Operations Plan is being used and updated, as needed, to guide reform efforts;
• ensure that the Reform Management Group continues to monitor and oversee reform team progress;
• fully populate and actively use the dashboard and the associated milestones and metrics to gauge team success in identifying and achieving efficiencies and cost savings;
• establish the cost baseline required by section 921 of the John S. McCain NDAA for Fiscal Year 2019 and use it to accurately estimate savings anticipated within the business functions covered under the NDAA;
• develop additional cost baselines, modeled on the baseline created in accordance with the NDAA for Fiscal Year 2019, to accurately track actual savings resulting from implementation of reform initiatives in additional business functions, such as health care management;
• effectively consolidate key business functions in the department and show cost savings from the consolidation; and
• demonstrate progress in implementing reform efforts outlined in the National Defense Business Operations Plan, including those not covered by the reform teams.

Related GAO Products


The government-wide personnel security clearance process continues to face challenges in the timely processing of clearances, measuring the quality of investigations, and ensuring the security of related information technology (IT) systems.

Since we added the government-wide personnel security clearance process to our High-Risk List in January 2018, the executive branch has taken some action and made some progress addressing our criteria for removal. The executive branch has met the criterion for leadership commitment, partially met the capacity, monitoring, and demonstrated progress criteria, and has not met the action plan criterion. In addition, the administration proposed transferring the background investigation function from the Office of Personnel Management’s (OPM) National Background Investigations Bureau (NBIB) to the Department of Defense (DOD) in June 2018, and plans to issue an Executive Order regarding the transfer.

Leadership commitment: met. The Security Clearance, Suitability, and Credentialing Performance Accountability Council (PAC), chaired by the Deputy Director for Management of the Office of Management and Budget (OMB), is the government-wide entity responsible for driving the implementation of and overseeing security clearance reform, among other reform efforts. The chair of the PAC, who is concurrently serving as the Acting Director of OPM, stated that the security clearance reform process is one of her top three government-wide priorities. Further, according to officials, the PAC assembled teams of stakeholders who meet regularly to focus on developing solutions to specific problems within the security clearance process. OPM and the Office of the Director of National Intelligence (ODNI) also issued a memo in June 2018 containing measures to reduce the backlog of background investigations. While the PAC has prioritized the prompt reduction of the backlog, it has not finalized a plan to reduce it to a manageable level or prioritized improving the timeliness of investigations.

Senior DOD officials expressed commitment to the administration’s June 2018 transfer proposal and have planning efforts underway related to the transfer and the modernization of the personnel vetting process. Continued and coordinated leadership by the PAC will be important as it
works to complete other long-standing key reform initiatives, including the government-wide implementation of continuous evaluation. Focused leadership will also be critical throughout the transition of background investigative functions from OPM to DOD, as proposed by the administration, particularly during senior leadership changes at OPM and DOD.

Capacity: partially met. NBIB officials reported that NBIB has increased its workforce to approximately 8,700 federal and contract investigators to help address the investigations backlog. However, NBIB has not reported goals for increasing total investigator capacity or completed the development and implementation of a comprehensive strategic workforce plan, as we have recommended. Completing the workforce plan would better position the bureau to meet current and future demands for its services.

In addition, in August 2017, DOD submitted to the congressional defense committees a plan for the transfer of certain DOD background investigations from OPM’s NBIB to DOD. This plan included estimates of the number of full-time equivalent employees necessary to execute the transfer. However, officials told us in November 2018 that the department is no longer using the plan because it was overcome by the administration’s June 2018 organizational reform proposal for the complete transfer of the NBIB background investigation program from OPM to DOD. According to officials, DOD is now preparing for the transfer of all NBIB investigative functions by developing a new plan which is based on the total inventory of OPM’s background investigations. In preparation for the transfer, DOD should consider our recommendation to the Director of NBIB to develop a strategic workforce plan as it assumes these responsibilities.

Executive Order 13467, as amended, which establishes the PAC, among other things, assigns the Secretary of Defense the role of developing and securely operating IT systems that support all background investigation processes conducted by NBIB (Exec. Order No. 13467, § 2.6(b), as amended through Exec. Order No. 13764, 82 Fed. Reg. 8115, 8126 (Jan. 17, 2017). In addition, the National Defense Authorization Act (NDAA) for Fiscal Year 2018 included a provision that DOD conduct a review of the National Background Investigation Services (NBIS), the IT system it is developing to support background investigations, to determine whether certain enhancements are necessary (see Pub. L. No. 115-91, § 925(f) (2017)). According to officials, DOD has in place the resources needed for the development of NBIS, is actively identifying necessary system capabilities, and has begun small preliminary pilots of its services. However, according to officials, the necessary resources for full implementation of NBIS and the administration’s transfer proposal remain unclear.
**Action plan: not met.** The leaders of the reform effort have developed various plans for more than a decade to improve the process. Most recently, in March 2018, the Director of National Intelligence (DNI) issued implementation guidelines for continuous evaluation—a process to review the background of clearance holders and individuals in sensitive positions at any time during the eligibility period. Further, DOD has begun reorganizing certain entities within the department that will enable DOD to begin the transfer of investigative functions from OPM’s NBIB. While the DNI and OPM have issued a joint Executive Correspondence that contains measures clarifying and adjusting certain elements of investigation requirements, the PAC lacks plans, including goals and milestones, to (1) reduce the backlog to a manageable level; (2) meet timeliness objectives for security clearance investigations and adjudications; and (3) assess and address the potential effects of continuous evaluation on agency resources.

Officials from ODNI, DOD, and the PAC told us they are working on an initiative called Trusted Workforce 2.0, an effort to transform the fundamental approach to workforce vetting, and supporting policies that will also overhaul business processes and modernize the IT architecture. According to officials, this effort is an expansion of reform since our January 2018 high-risk designation that will consider both risk and trust. PAC and ODNI officials said Trusted Workforce 2.0 will focus on timeliness and quality goals in a future phase, after reducing the clearance backlog to a manageable level. The DNI and former Director of OPM committed to issuing this new policy framework and plans to transform vetting for the Executive Branch by the end of 2018. Officials told us in early 2019 that the issuance of related policies is expected throughout the calendar year.

**Monitoring: partially met.** The NDAA for Fiscal Year 2018 required the DNI, in coordination with the other PAC principals, to annually report for the prior fiscal year on the timeliness of initiations, investigations, and adjudications, by clearance level. This report is to cover both initial investigations and periodic reinvestigations for government and contractor employees (see Pub. L. No. 115-91, § 925(k)(1)). In November 2018, the DNI informed executive branch agencies that it intends to fulfill this and other legislative reporting requirements through a consolidated data call.

In September 2018, NBIB reported to Congress, for each clearance level, (1) the size of the investigation backlog, (2) the average length of time to conduct an initial investigation and a periodic reinvestigation, and (3) a discussion of the factors contributing to investigation timeliness. The PAC is also reporting publicly on the progress of key reforms through www.performance.gov, where OMB began tracking security clearance and suitability reform as a cross-agency priority goal in March 2014. For fiscal year 2018, www.performance.gov contains quarterly action plans
and progress updates, which present figures on the average timeliness of initial investigations and periodic reinvestigations for the executive branch as a whole, investigation workload and backlog, and investigator headcounts.

Our analysis of the latest available timeliness data showed that the number of executive branch agencies meeting investigative and adjudicative objectives decreased from fiscal years 2012 through 2018. Furthermore, the PAC has not implemented our December 2017 recommendation to conduct an evidence-based review of the investigation and adjudication timeliness objectives for completing the fastest 90 percent of initial secret and initial top secret security clearances. In addition, the PAC has not yet established performance measures to monitor investigation and adjudication quality, continuous evaluation implementation, and government-wide reciprocity.

**Demonstrated progress: partially met.** The PAC has demonstrated progress in some areas, specifically related to a reduction in the backlog of background investigations. NBIB officials report that the backlog decreased from almost 715,000 cases in January 2018—when we added the process to our High-Risk List—to approximately 565,000 cases in February 2019. Those officials credit an Executive Memorandum—issued jointly in June 2018 by the DNI and the Director of OPM and containing measures to reduce the investigation backlog—as a driver in backlog reduction. The measures adjust investigative requirements by, for example, temporarily allowing for video or telephone interviews in certain circumstances. We will continue to monitor the backlog and efforts to reduce it.

While members of the PAC have taken positive steps to improve continuous evaluation and reciprocity, including the DNI’s March 2018 continuous evaluation implementation guidelines and November 2018 guidance providing requirements for reciprocity, the PAC has not demonstrated sustained progress to address other weaknesses we have identified. For example, PAC leaders have not completed the development of quality measures for investigations, and PAC officials told us they had not made plans to report quality to Congress.

Further, the PAC has not demonstrated measurable improvements with regards to the timeliness of background investigations and adjudications. In fiscal year 2018, the percent of agencies meeting the timeliness objectives in which the fastest 90 percent are to be completed within a specified number of days are presented in Table 9 below.
Table 9: Percent of Executive Branch Agencies Meeting Security Clearance Processing Timeliness Objectives in Fiscal Year 2018

<table>
<thead>
<tr>
<th>Phase</th>
<th>Type</th>
<th>Objective</th>
<th>Percentage Meeting Objective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investigation</td>
<td>Initial Secret</td>
<td>40 days</td>
<td>3 percent</td>
</tr>
<tr>
<td></td>
<td>Initial Top Secret</td>
<td>80 days</td>
<td>13 percent</td>
</tr>
<tr>
<td></td>
<td>Periodic reinvestigations</td>
<td>150 days</td>
<td>13 percent</td>
</tr>
<tr>
<td>Adjudication</td>
<td>Initial Secret</td>
<td>20 days</td>
<td>44 percent</td>
</tr>
<tr>
<td></td>
<td>Initial Top Secret</td>
<td>20 days</td>
<td>44 percent</td>
</tr>
<tr>
<td></td>
<td>Periodic reinvestigations</td>
<td>30 days</td>
<td>65 percent</td>
</tr>
</tbody>
</table>

Source: GAO analysis of Office of the Director of National Intelligence data. | GAO-19-157SP

Agencies without delegated authority rely on OPM to conduct their background investigations, while agencies with delegated authority have been authorized to conduct their own background investigations. As such, investigative phase timeliness data for agencies without delegated authority is generally a reflection of OPM’s timeliness. While the data ODNI provided shows that timeliness continues to decline, OPM officials stated that NBIB internal monitoring shows recent improvement in investigation timeliness.

What Remains to Be Done

We have made numerous recommendations to PAC members to address risks associated with the personnel security clearance process between 2011, when we removed DOD’s personnel security clearance program from the High-Risk List and 2018, when we placed the government-wide personnel security clearance process on the High-Risk List. We consider 27 of those recommendations key to addressing the high-risk designation. Eight recommendations key to the high-risk designation have been implemented, including three since January 2018. Most recently, those recommendations implemented include ODNI formalizing plans and guidance for continuous evaluation. As of December 2018, 19 of these key recommendations remain open. Of the open recommendations, ODNI stated that it did not concur with our December 2017 recommendations on addressing investigation quality and timeliness, but did not provide specific information to explain why it did not concur.

In addition, in March 2018, we outlined necessary actions and outcomes—anchored in each of our five criteria for removal from the High-Risk List—and our prior recommendations that need to be addressed for this area to be removed. These actions and outcomes are outlined below and should be considered by all four agencies, unless a lead agency is indicated.
To continue to meet the leadership commitment criterion, these agencies should:

- continue to demonstrate that the PAC is prioritizing the (1) prompt reduction of the government-wide investigative backlog to a manageable level; (2) improvement of the timeliness of background investigations; and (3) completion of long-standing, key reform initiatives;
- continue participating regularly in leadership meetings of the PAC principals;
- provide the necessary oversight and support to PAC members to effectively accomplish assigned reform initiatives, in accordance with the roles and responsibilities outlined in Executive Order 13467 (as amended), as Chair of the PAC (OMB); and
- oversee and support NBIB and DOD during the transition period while DOD stands up background investigative functions, to include supporting resource needs.

To make progress on meeting capacity, these agencies should:

- develop and implement a comprehensive strategic workforce plan that identifies the workforce needed to meet the current and future demand for its services, as well as reduce the current backlog to a manageable level (OPM, DOD);
- coordinate with responsible executive branch agencies to identify the resources needed to effectively implement personnel security clearance reform effort initiatives within established timeframes (OMB, ODNI, DOD); and
- develop long-term funding estimates for changes to the federal government’s investigation practices resulting from the implementation of the 2012 Federal Investigative Standards. These long-term funding estimates should include, but not be limited to: (1) costs related to IT adjustments to enable government-wide data sharing; (2) costs related to implementing continuous evaluation; and (3) costs related to the changed frequency of periodic reinvestigations (OMB).

To make progress on an action plan, these agencies should:

- develop a plan, including goals and milestones, for reducing the backlog of background investigations to a manageable level;
- develop a government-wide plan, including goals and interim milestones, to meet timeliness objectives for initial personnel security clearances, periodic reinvestigations, and adjudications; and
- assess the potential effects of continuous evaluation on agency resources and develop a plan to address those effects, such as modifying the scope of periodic reinvestigations, changing the frequency
of periodic reinvestigations, or replacing periodic reinvestigations for certain clearance holders (ODNI).

To make progress on monitoring, these agencies should:

- develop and report to Congress annually on government-wide, results-oriented performance measures for the quality of security clearance background investigations and adjudications (ODNI);
- develop performance measures for continuous evaluation that agencies must track and regularly report to ODNI;
- develop metrics and government-wide baseline data for reciprocity determinations to measure the extent of reciprocity within the executive branch and report on those metrics to Congress (ODNI); and
- monitor the implementation of remedial actions intended to resolve known cybersecurity vulnerabilities, to include updating remedial action plans to reflect expected completion dates, and improve the timeliness of validating the effectiveness of actions taken to mitigate cybersecurity vulnerabilities that exposed agency information to cybersecurity incidents (OPM).

To improve on demonstrating progress, these agencies should:

- develop government-wide performance measures for the quality of background investigations and adjudications (OMB, ODNI);
- conduct an evidence-based review of the investigation and adjudication timeliness objectives for completing the fastest 90 percent of initial secret and initial top secret security clearances, and take action to adjust the objectives if appropriate;
- conduct an evidence-based review of the timeliness goal of 195 days for completing the fastest 90 percent of periodic reinvestigations and the associated goals for the different phases of periodic reinvestigations, and adjust the goal if appropriate; and
- improve and secure personnel security clearance IT systems, including implementing further security improvements to its IT environment, including contractor-operated systems, to ensure that key security controls are in place and operating as intended (OPM).

The annual assessments of timeliness and quarterly briefings required by the NDAA for Fiscal Year 2018 will serve as mechanisms for Congress and the executive branch to monitor timeliness, costs, and continuous evaluation, among other things.

**Congressional Actions Needed**

**Related GAO Products**


Federal agencies and other entities need to take urgent actions to implement a comprehensive cybersecurity strategy, perform effective oversight, secure federal systems, and protect cyber critical infrastructure, privacy, and sensitive data.

**Why Area Is High Risk**

Federal agencies and our nation’s critical infrastructures—such as energy, transportation systems, communications, and financial services—are dependent on information technology (IT) systems and electronic data to carry out operations and to process, maintain, and report essential information. The security of these systems and data is vital to public confidence and national security, prosperity, and well-being.

Because many of these systems contain vast amounts of personally identifiable information (PII), agencies must protect the confidentiality, integrity, and availability of this information. In addition, they must effectively respond to data breaches and security incidents when they occur.

The risks to IT systems supporting the federal government and the nation’s critical infrastructure are increasing, including insider threats from witting or unwitting employees, escalating and emerging threats from around the globe, and the emergence of new and more destructive attacks.

We have designated information security as a government-wide high-risk area since 1997. We expanded this high-risk area in 2003 to include protection of critical cyber infrastructure and, in 2015, to include protecting the privacy of PII.

**Contact Information:**

For additional information about this high-risk area, contact Nick Marinos at (202) 512-9342 or marinosn@gao.gov, Gregory C. Wilshusen at (202) 512-6244 or wilshuseng@gao.gov, or Vijay D’Souza at (202) 512-6240 or dsouzav@gao.gov.

Since our previous 2017 High-Risk Report, our assessment of efforts to address all five criteria remains unchanged.

**Leadership commitment: met.**

In May 2017, the President issued an executive order requiring federal agencies to take a variety of actions, including better managing their cybersecurity risks and coordinating to meet reporting requirements related to cybersecurity of federal networks and critical infrastructure.

Further, in December 2017, the President issued a National Security Strategy citing cybersecurity as a national priority and identifying needed actions, such as identifying and prioritizing risk and building defensible government networks.

The administration further described its planned approach to cybersecurity with the release of a National Cyber Strategy in September 2018. This national strategy outlines activities such as securing critical infrastructure, federal networks, and associated information, as well as developing the cybersecurity workforce. To lead the nation’s cybersecurity response activities, in November 2018, the President signed the Cybersecurity and Infrastructure Security Agency Act of 2018 into law. Among other things, the law enables the Department of Homeland Security (DHS) to restructure the existing cybersecurity components within the National Protection and Programs Directorate to create a new cyber-focused agency.

**Capacity: partially met.**

In June 2018, the administration issued a government-wide reform plan and reorganization recommendations that included, among other things, proposals for solving the federal cybersecurity workforce shortage. In particular, the plan notes the administration’s intent to prioritize and accelerate ongoing efforts to reform the way that the federal government recruits, evaluates, selects, pays, and places cyber talent. The plan further states that, by the end of the first quarter of fiscal year 2019, all 24 major federal agencies, in coordination with DHS and the Office of Management and Budget (OMB), are to develop a critical list of vacancies across their organizations.
Nevertheless, the federal government continues to face challenges in ensuring that the nation’s cybersecurity workforce has the appropriate skills. For example, we have previously reported that DHS and the Department of Defense had not fully addressed cybersecurity workforce management requirements set forth in federal laws. Further, as of June 2018, most of the 24 major federal agencies had not fully implemented all requirements associated with the Federal Cybersecurity Workforce Assessment Act of 2015. For example, three agencies had not conducted a baseline assessment to identify the extent to which their cybersecurity employees held professional certifications. As a result, these agencies may not be able to effectively gauge the competency of individuals who are charged with ensuring the confidentiality, integrity, and availability of federal information and information systems.

Action plan: partially met. In response to the May 2017 presidential executive order, DHS issued a cybersecurity strategy in May 2018 that articulated seven goals the department plans to accomplish in support of its mission related to managing national cybersecurity risks over the next 5 years. Further, OMB issued the Federal Cybersecurity Risk Assessment and Action Plan in August 2018. The assessment stated that OMB and DHS examined the capabilities of 96 civilian agencies across 76 cybersecurity metrics and found that 71 agencies had cybersecurity programs that were either at risk or at high risk. The assessment also stated that agencies were not equipped to determine how malicious actors seek to gain access to their information systems and data. The assessment identified core actions to address cybersecurity risks across the federal enterprise.

Additionally, the September 2018 National Cyber Strategy outlined the administration’s approach to cybersecurity through a variety of priority actions, such as centralizing management and oversight of federal civilian cybersecurity. However, the strategy lacks key elements that we have previously reported can enhance the usefulness of a national strategy, including clearly defined roles and responsibilities, and information on the resources needed to carry out the goals and objectives. Although the strategy states that National Security Council staff are to coordinate with departments, agencies, and OMB to determine the resources needed to support the strategy’s implementation, it is unclear what official maintains overall responsibility for coordinating these efforts, especially in light of the elimination of the White House Cybersecurity Coordinator position in May 2018.1

1The White House Cybersecurity Coordinator position was created in December 2009 to, among other things, coordinate interagency cybersecurity policies and strategies, and to develop a comprehensive national strategy to secure the nation’s digital infrastructure.
Going forward, it will be critical for the White House to clearly define the roles and responsibilities of key agencies and officials in order to foster effective coordination and hold agencies accountable for carrying out planned activities to address the cybersecurity challenges facing the nation. We have work underway examining federal roles and responsibilities for protecting the nation against cyber threats, including the implications of the decision to eliminate the cybersecurity coordinator position. We expect to report on the results of our work by the end of fiscal year 2019.

Monitoring: partially met. DHS has established the National Cybersecurity and Communications Integration Center (NCCIC), which functions as the 24/7 cyber monitoring, incident response, and management center for the federal civilian government. The United States Computer Emergency Readiness Team, one of several subcomponents of the NCCIC, is responsible for operating the National Cybersecurity Protection System. Operationally known as Einstein, this system is intended to provide DHS with situational awareness related to cybersecurity of entities across the federal government, through intrusion detection and prevention capabilities.

Nevertheless, DHS has continued to be challenged in measuring how the NCCIC is performing its functions in accordance with mandated implementing principles. For example, NCCIC is to provide timely technical assistance, risk management support, and incident response capabilities to federal and nonfederal entities; however, as of December 2018, it had not established measures or other procedures for ensuring the timeliness of these assessments, as we previously recommended.

We also continued to find persistent weaknesses in federal agencies’ monitoring of their information security programs. The Federal Information Security Modernization Act of 2014 (and its predecessor the Federal Information Security Management Act of 2002) requires federal agencies in the executive branch to develop, document, and implement an information security program and evaluate it for effectiveness. Our numerous security control audits have identified hundreds of deficiencies related to agencies’ implementation of effective security controls.

Demonstrated progress: partially met. Since 2010, we have made over 3,000 recommendations to agencies aimed at addressing cybersecurity challenges facing the government—448 of which were made since the last high-risk update in February 2017. Nevertheless, many agencies face challenges in safeguarding their information systems and information, in part because many of these recommendations have not been fully implemented. Of the roughly 3,000 recommendations made since 2010, nearly 700 had not been fully implemented as of December 2018. We have also designated 35 as priority recommendations, meaning that we believe these recommendations warrant priority attention from heads of
key departments and agencies. As of December 2018, 26 of our priority recommendations had not been fully implemented.

What Remains to Be Done

Based on our prior work, we have identified four major cybersecurity challenges: (1) establishing a comprehensive cybersecurity strategy and performing effective oversight, (2) securing federal systems and information, (3) protecting cyber critical infrastructure, and (4) protecting privacy and sensitive data. To address these challenges, we have identified 10 critical actions that the federal government and other entities need to take (see figure 12).
We also have previously suggested that Congress consider amending laws, such as the Privacy Act of 1974 and the E-Government Act of 2002, because they may not consistently protect PII. Specifically, we found that while these laws and guidance set minimum requirements for agencies, they may not consistently protect PII in all circumstances of its collection and use throughout the federal government, and may not fully adhere to
key privacy principles. However, the relevant revisions to the Privacy Act and the E-Government Act had not yet been enacted as of the date of this report.

Further, we suggested that Congress consider strengthening the consumer privacy framework and review issues such as the adequacy of consumers’ ability to access, correct, and control their personal information; and privacy controls related to new technologies such as web tracking and mobile devices. However, these suggested changes had not yet been enacted as of the date of this report.

Related GAO Products


Strengthening Department of Homeland Security Management Functions

The Department of Homeland Security (DHS) needs to continue implementing its Integrated Strategy for High-Risk Management with a particular focus on building its capacity in the areas of acquisition, information technology (IT), and financial management.

Since our 2017 High-Risk Report, ratings for all five criteria remain unchanged. DHS has continued its efforts to strengthen and integrate its acquisition, information technology, financial, and human capital management functions. It has continued to meet three out of five criteria for removal from the High-Risk List (leadership commitment, action plan, and monitoring) and partially meet the remaining two criteria (capacity and demonstrated progress).

Leadership commitment: met. DHS top leadership, including the Secretary and Deputy Secretary of Homeland Security, has continued to demonstrate exemplary commitment and support for addressing the department’s management challenges. They have also taken actions to institutionalize this commitment to help ensure the long-term success of the department’s efforts. One such effort is the Under Secretary for Management’s Integrated Priorities initiative to strengthen the integration of DHS’s business operations across the department. During monthly leadership meetings with the Under Secretary for Management, the department’s Chief Executive Officers have been providing status updates on their respective actions to address this high-risk designation.

Capacity: partially met. With regard to acquisition staffing, DHS has analyzed components’ acquisition program staffing assessments but has yet to conduct an in-depth analysis across components or develop a plan to address any gaps.

With regard to IT staffing, DHS has not identified or reported to Congress or the Office of Personnel Management (OPM) on its department-wide cybersecurity specialty areas of critical needs, such as cybersecurity management or incident response, as required by law. In February 2018, we recommended that DHS take steps to ensure that (1) its cybersecurity workforce procedures identify position vacancies and responsibilities, (2) cybersecurity workforce data are complete and accurate, and (3) plans for reporting critical needs are developed. DHS concurred and stated it planned to provide further evidence addressing the recommendations by
the end of the first quarter of fiscal year 2019, which we will assess upon receipt.

With regard to financial management capacity, DHS has continued its efforts to identify and allocate resources for financial management but additional progress is needed. For example, DHS’s financial statement auditor has identified several capacity-related issues, including resource limitations and inadequate management and staff training, as causes for the material weaknesses reported.

**Action plan: met.** In January 2011, DHS produced its first Integrated Strategy for High-Risk Management and has issued 14 updated versions, most recently in September 2018. The September 2018 strategy describes DHS’s progress to-date and planned corrective actions to further strengthen its management functions. DHS’s strategy and approach, if effectively implemented and sustained, provides a path for DHS to be removed from our High-Risk List.

**Monitoring: met.** In the most recent September 2018 Integrated Strategy for High-Risk Management, DHS included performance measures to monitor key management initiatives. For example, DHS monitors the percentage of components demonstrating effective internal controls for significant business processes as a way of gauging progress toward improving financial management. In addition, DHS is also better positioned to monitor its financial system modernization projects since it established a joint program management office in October 2017. This office is to, among other things, centralize program governance and streamline its decision-making processes, and provide DHS management with regular updates on the department’s financial system modernization efforts.

**Demonstrated progress: partially met.** In 2010, we identified, and DHS agreed, that achieving 30 specific outcomes would be critical to addressing the challenges within the department’s management areas. As of September 2018, DHS has fully addressed 17 of the 30 needed outcomes, mostly addressed 4, partially addressed 6, and initiated actions to address the remaining 3. Since our 2017 High-Risk Report, DHS has taken steps to fully address two human capital outcomes by demonstrating that components are basing hiring decisions and promotions on human capital competencies and strengthening employee engagement efforts. In addition, DHS has fully addressed two IT outcomes by (1) providing ongoing oversight and support to troubled IT investments to help improve their cost, schedule, and performance; and (2) demonstrating significant progress in implementing its IT strategic workforce planning initiative.
Important progress and work remaining in key areas include:

- **Acquisition management.** DHS continues to face challenges in funding its acquisition portfolio. In May 2018, we found that recent enhancements to DHS’s acquisition management, resource allocation, and requirements policies largely reflect key portfolio management practices. However, we also found that of the 24 major acquisition programs we assessed with approved schedule and cost goals, only 10 were on track to meet those goals during 2017—a decrease from 2016.

  In addition, we found that DHS’s portfolio of major acquisition programs is not affordable from fiscal years 2018 to 2022. DHS has taken steps to strengthen requirements development across the department, such as reestablishing the Joint Requirements Council in June 2014. However, opportunities remain to further strengthen DHS’s acquisition process by using the Joint Requirements Council to impact DHS’s budget. The council could better fulfill its mission by identifying overlapping or common requirements, and by making recommendations to senior leadership to help ensure that DHS uses its finite investment resources wisely, and maintains a balanced portfolio of investments that combine near-term operational improvements with long-term strategic planning.

- **IT management.** DHS has updated its approach for managing its portfolios of IT investments across all components. As part of the revised approach, the department is utilizing its capital planning and investment control process and the Joint Requirements Council to assess IT investments across the department on an ongoing basis. For example, as part of its capital planning process for the fiscal year 2020 budget, the Office of the Chief Information Officer worked with the components to assess each major IT investment to ensure alignment with DHS’s functional portfolios, and to identify opportunities to share capabilities across components. This updated approach should enable DHS to identify potentially duplicative investments and opportunities for consolidating investments, as well as reduce component-specific investments.

  Additionally, DHS has continued to take steps to enhance its information security program. In November 2018, the department’s financial statement auditor reported that DHS had made progress in correcting its prior year IT security weaknesses. However, for the 15th consecutive year, the auditor designated deficiencies in IT systems controls as a material weakness for financial reporting purposes. Work also remains in implementing our six open recommendations concerning DHS’s cybersecurity workforce assessment requirements.

- **Financial management.** DHS received a clean audit opinion on its financial statements for 6 consecutive years—fiscal years 2013 to 2018. However, its auditor reported two material weaknesses in the areas of financial reporting and information technology controls and financial systems, as well as instances of non-compliance with laws and regulations. These deficiencies hamper DHS’s ability to provide
reasonable assurance that its financial reporting is reliable and the department is in compliance with applicable laws and regulations. In addition, much work remains to modernize components' financial management systems and business processes.

- Human capital management. DHS has continued to strengthen its employee engagement efforts by implementing our 2012 recommendation to establish metrics of success within components’ action plans for addressing its employee satisfaction problems. Further, DHS has conducted audits to better ensure components are basing hiring decisions and promotions on human capital competencies. In addition, OPM's 2018 Federal Employee Viewpoint Survey data showed that in the past 2 years, DHS's score on the Employee Engagement Index (EEI) increased by 4 points—from 56 in 2016 to 60 in 2018—which was 1 point more than the government wide increase over the same period. While this improvement is notable, DHS's current EEI score is 1 point below its EEI baseline score in 2010, suggesting that DHS is still working to regain lost ground after an 8 point drop between 2010 and 2015. DHS has considerable work ahead to improve its employee engagement as its 2018 EEI score ranked 20th among 20 large and very large federal agencies.

- Management integration. Since 2015, DHS has focused its efforts to address crosscutting management challenges through the establishment and monitoring of Integrated Priorities. The department updated these priorities in September 2017. Each priority includes goals, objectives, and measurable action plans that are monitored at monthly leadership meetings led by senior DHS officials, including the Under Secretary for Management. To achieve this outcome, DHS needs to continue to demonstrate sustainable progress integrating its management functions within and across the department, as well as fully address the other 13 outcomes it has not yet fully achieved.

What Remains to Be Done

Over the years, we have made hundreds of recommendations related to DHS management functions and many have been implemented. Continued progress for this high-risk area depends primarily on addressing the remaining outcomes. In the coming years, DHS needs to continue implementing its Integrated Strategy for High-Risk Management to show measurable, sustainable progress in implementing corrective actions and achieving outcomes. In doing so, it remains important for DHS to

- maintain its current level of top leadership support and sustained commitment to ensure continued progress in executing its corrective actions through completion;
- continue to identify the people and resources necessary to make progress towards achieving outcomes, work to mitigate shortfalls and
prioritize initiatives as needed, and communicate to senior leadership critical resource gaps;

- continue to implement its plan for addressing this high-risk area and periodically provide assessments of its progress to us and Congress;
- closely track and independently validate the effectiveness and sustainability of its corrective actions, and make midcourse adjustments as needed; and
- make continued progress in achieving the 13 outcomes it has not fully addressed and demonstrate that systems, personnel, and policies are in place to ensure that progress can be sustained over time.

**Related GAO Products**


Ensuring the Effective Protection of Technologies Critical to U.S. National Security Interests

Agencies within this portfolio of programs have made some progress towards ensuring the effective protection of technologies, but several areas remain unaddressed including improved interagency coordination.

Since our 2017 High-Risk Report, ratings for all five criteria remain unchanged.

Additional leadership commitment is still needed to promote interagency collaboration across the portfolio of critical technology programs. Officials at both the multi-agency Committee on Foreign Investment in the United States and the Department of Defense’s National Industrial Security Program need to take action to clarify resource needs.

Additional efforts are also needed to implement recommendations we made in March 2012, May 2017, and August 2017 to develop and track metrics to monitor program performance for both export controls and other programs. Over the years since this area was added to the High-Risk List, we have made numerous recommendations related to this high-risk issue, 16 of which were made since the last high-risk update in February 2017. As of December 2018, 25 recommendations are open.

Export Controls

Since our 2017 High-Risk Report, ratings for all five criteria remain unchanged.

Leadership commitment: met. An interagency review to fundamentally reform the U.S. export control system—the Export Control Reform Initiative—was established in 2010, and it has demonstrated strong leadership commitment. Many of the actions under this initiative are complete, and leaders at key federal agencies continue to focus on remaining steps.

Why Area Is High Risk

The Department of Defense spends billions of dollars each year to develop and acquire sophisticated technologies that provide an advantage for the warfighter during combat or other missions. Many of these technologies are also sold or transferred to promote U.S. economic, foreign policy, and national security interests. These technologies can also be acquired by foreign entities through investment in the U.S. companies that develop or manufacture them. In addition, they are targets for unauthorized transfer, such as theft, espionage, reverse engineering, and illegal export.

To identify and protect technologies critical to U.S. interests, the U.S. government has a number of programs and activities. These include export controls—those developed to regulate exports and ensure that items and information are transferred to foreign parties consistent with U.S. interests—as well as other activities, including the Foreign Military Sales program, anti-tamper policies, the National Industrial Security Program, and the Committee on Foreign Investment in the United States. These activities are administered by multiple federal agencies, including the Departments of Defense, Commerce, Homeland Security, Justice, State, and the Treasury. We designated this area as high risk in 2007 because these programs, established decades ago, were ill-equipped to address the evolving 21st century challenge of balancing national security concerns and economic interests.

Contact Information

For additional information about this high-risk area, contact William T. Woods at (202) 512-4841 or woodsw@gao.gov.
Capacity: partially met. The initial review of all 21 United States Munitions List categories is nearing completion and the transition to a single information technology system—USXPORTS—is complete. However, the absence of key stakeholders’ participation has slowed progress for other efforts. The 15 federal agencies that are part of the Export Enforcement Coordination Center (E2C2) continue to coordinate and exchange investigation-related information, but according to E2C2 officials, procedures for coordination between the investigative export control enforcement agencies and the intelligence community have not been finalized.

Action plan: met. While the Export Control Reform Initiative is no longer formally active, leaders at key federal agencies told us they continue to implement efforts under the initiative—with reforms to export control lists, enforcement, and information technology.

Monitoring: partially met. We made four recommendations in March 2012 that departments with responsibilities for export control enforcement take steps to more effectively monitor resources spent on export control enforcements activities, and develop and implement metrics for monitoring their effectiveness. Of the four recommendations, one remains open: for Homeland Security to establish procedures to facilitate data sharing between the enforcement agencies and the intelligence community to measure illicit transshipment activity. Homeland Security officials told us that the department has not yet formalized its planned intelligence analytical unit and, as a result, is unable to establish baseline and trend data analysis.

Demonstrated progress: partially met. Important steps have been completed for improving the efficiency and effectiveness of the export control process. For example, the export control licensing agencies have reviewed all of the 21 United States Munitions List categories to determine which items in those categories should remain under Department of State control or move to Department of Commerce control. According to State Department officials, the public comment period ended in July 2018 for categories I-III (firearms, artillery, and ammunition, respectively), and a final decision on transfer of these items is expected in 2019.

In March 2019, we expect to issue a report reviewing export controls of firearms. Progress in export enforcement has stalled, however, because the enforcement and intelligence communities have not yet formally coordinated, and the E2C2 does not yet have a designated Intelligence Community Liaison. This liaison was mandated by Executive Order 13558, which directed the establishment of the E2C2 and identified the participating departments and agencies. Specifically, the E2C2 has not yet implemented all seven of its standard operating procedures, including
collaboration with the intelligence agencies. According to Homeland Security officials, currently the E2C2 is performing only de-confliction, a forum for sharing information among multiple export enforcement agencies and identifying and resolving conflicts between them.

What Remains to Be Done

The need for action remains in addressing Capacity, Monitoring, and Demonstrated Progress. The E2C2 is performing a critical role in coordinating export control enforcement activities, with participation across a wide breadth of federal agencies. However, according to Homeland Security officials, the E2C2 and the intelligence community’s lack of formal coordination limits E2C2’s effectiveness, stalling its efforts to develop standard operating procedures. Until this coordination occurs, the E2C2 is limited in its ability to realize its full potential to facilitate enhanced coordination and intelligence sharing.

Congressional Actions Needed

Key agencies have taken necessary steps to reconcile various definitions, regulations, and policies for export controls. If the agencies choose to proceed with consolidation activities initially planned under the 2010 Export Control Reform Initiative, Congressional action will be required. For example, because there are currently separate statutory bases for the Departments of State and Commerce to review and issue export licenses, legislation would be required to consolidate the current system into a single licensing agency.

Other Programs

Since our 2017 High-Risk Report, ratings for all five criteria remain unchanged. This segment was previously referred to as non-export controls.

Leadership commitment: partially met. Recent Congressional action may facilitate forward movement in this area. The John S. McCain National Defense Authorization Act for Fiscal Year 2019 included a requirement for the Department of Defense (DOD) to develop and annually update a critical technologies list, which has the potential to improve coordination among the critical technology programs. The act also made changes related to the Committee on Foreign Investment in the United States, an interagency group that reviews certain foreign acquisitions, mergers, or takeovers of U.S. businesses to determine their effects on U.S. national security.

Capacity: partially met. In February 2018, we reported on capacity concerns at the Committee on Foreign Investment in the United States,
noting that from 2011 to 2016, the number of transactions reviewed by this committee grew by 55 percent, while the staff assigned to the reviews increased by 11 percent. In the John S. McCain National Defense Authorization Act for Fiscal Year 2019, Congress cited our findings and provided for actions such as assessing whether adequate resources are needed for the committee and its member agencies. Likewise, in May 2018, we reported that officials responsible for the National Industrial Security Program—which safeguards federal government classified information that current or prospective contractors may access—faced resource challenges, including an inability to manage staff workloads and complete necessary trainings. We recommended that they identify the resources needed by the program, among other things, and DOD concurred.

**Action plan: partially met.** In May 2018, we reported on Defense Security Service plans to transition to a new approach for the National Industrial Security Program. We cited challenges that the program is beginning to address. Similarly, we reported in May 2017 that DOD has issued policies and guidance that require planning for anti-tamper protections—which help preserve U.S. technological superiority from exploitation when weapon systems are lost on the battlefield or exported—early in the weapon system acquisition process.

**Monitoring: partially met.** In May 2017, we reported that DOD lacked metrics for tracking the effectiveness of changes to policies and procedures supporting anti-tamper protections. DOD concurred with our recommendation that it determine how to measure progress and develop corresponding metrics but has not yet done so. Similarly, in August 2017, we found that DOD had addressed most of our past recommendations on the Foreign Military Sales program, but had not collected relevant data necessary to measure program performance.

**Demonstrated progress: partially met.** We reported in 2015 that the portfolio of critical technology programs is fragmented and poorly coordinated across the government. Individual programs and departments have taken steps to improve coordination individually within their agency or program, but collective coordination across the critical technologies portfolio still needs improvement and overall direction.

**What Remains to Be Done**

The need for action remains both at the individual program level and the portfolio level. In February 2015, we made recommendations aimed at improving coordination among the programs that are designed to protect technologies critical to national security. While progress has been made, challenges remain in several key areas. In particular, following up on resource recommendations to the Committee on Foreign Investment in the United States and the National Industrial Security Program could lead...
to significant improvements in capacity. Similarly, following up on data collection and tracking recommendations for the anti-tamper program and the Foreign Military Sales program could better enable these programs to monitor their efforts.

Related GAO Products


Improving Federal Oversight of Food Safety

A government-wide approach is needed to address fragmentation in the federal food safety oversight system.

**Why Area Is High Risk**

The safety and quality of the U.S. food supply, both domestic and imported, are governed by a highly complex system stemming from at least 30 federal laws that are collectively administered by 15 federal agencies. For more than four decades, we have reported on the fragmented federal food safety oversight system, which has caused inconsistent oversight, ineffective coordination, and inefficient use of resources. We added federal oversight of food safety to the High-Risk List in 2007. In recent years, moreover, we have made recommendations aimed at helping to reduce fragmentation in federal food safety oversight. As of November 2018, two of three recommendations related to this high-risk area had not been implemented.

A 2011 estimate by the Centers for Disease Control and Prevention (CDC)—its most recent estimate—indicates that, as a result of foodborne illness, roughly 1 in 6 Americans (48 million people) gets sick each year, 128,000 are hospitalized, and 3,000 die. CDC data also show that the number of reported multistate foodborne illness outbreaks is increasing. Although multistate outbreaks make up a small proportion of total outbreaks, they affect greater numbers of people. CDC cites several potential contributors to the increase in reported multistate outbreaks, including greater centralization of food processing practices, wider food distribution, and improved detection and investigation methods.

**Contact Information**

For additional information about this high-risk area, contact Steve Morris at morriss@gao.gov or (202) 512-3841.

Since our 2017 High-Risk Report, ratings for all five criteria remain unchanged.

**Leadership commitment:** partially met. The Department of Health and Human Services (HHS) demonstrated leadership by updating its strategic and performance-planning documents to better address crosscutting food safety efforts, as we recommended in December 2014. As of November 2018, however, the U.S. Department of Agriculture (USDA) had not fully implemented our recommendation to update its strategic and planning documents, although it agreed with our recommendation and took some steps to implement it. Moreover, in June 2018, the President proposed reorganizing USDA’s Food Safety and Inspection Service and the food safety functions of HHS’s Food and Drug Administration into a single agency. While a reorganization could be a step toward addressing our prior recommendations, additional information about the proposal, as well as additional executive and legislative branch actions, would be needed before such a proposal could be implemented.

**Capacity:** partially met. USDA has the capacity to more fully address crosscutting food safety efforts in its individual strategic and performance planning documents; however, Office of Management and Budget (OMB) action would be needed to build on HHS and USDA documents to develop a government-wide performance plan on food safety. Such action could address our March 2011 recommendation for a government-wide plan and our December 2014 matter for congressional consideration for government-wide planning. OMB has not taken action to develop such a plan.

Federal food safety agencies also have the capacity to participate in a centralized collaborative mechanism on food safety, such as the Food Safety Working Group (FSWG), which the President established in 2009 to coordinate federal food safety efforts. This group, however, is no longer meeting. Congressional action would be required to formalize such a mechanism through statute.
Improving Federal Oversight of Food Safety

**Action plan: not met.** Without a government-wide performance plan for food safety, Congress, program managers, and other decision makers are hampered in their ability to identify agencies and programs addressing similar missions and to set priorities, allocate resources, and restructure federal efforts, as needed, to achieve long-term goals. Moreover, without a centralized collaborative mechanism—like the FSWG—to address food safety, there is no forum for agencies to reach agreement on a set of broad-based food safety goals and objectives that could be articulated in a government-wide performance plan on food safety.

Development of a national strategy for food safety could also fulfill these government-wide planning and leadership needs. Such a strategy should, among other things, have a clearly stated purpose, establish sustained leadership, identify resource requirements, and describe how progress will be monitored.

**Monitoring: not met.** Without a government-wide performance plan for food safety, federal food safety efforts are not clear and transparent to the public. Congress, program managers, other decision makers, and the public must first understand what the federal government is currently doing to ensure the safety of the food supply. To do so, they must access, attempt to make sense of, and reconcile individual documents across the many federal agencies responsible for administering the numerous federal statutes governing food safety and quality. A government-wide performance plan would also enable Congress and the agencies to monitor the effectiveness of their food safety programs, particularly those involving more than one agency, and call attention to areas needing corrective measures. The need for government-wide monitoring could also be addressed through a national strategy for food safety.

**Demonstrated progress: partially met.** In January 2018, USDA and FDA signed an agreement to formalize ongoing coordination and collaboration efforts in the areas of produce safety and regulation of biotechnology products and other areas. This agreement is a positive step. However, the development of a broader government-wide performance plan or a national strategy for food safety is still needed and could involve additional agencies, such as those that we have previously identified as having a role in food safety. These other agencies include (1) the Centers for Disease Control and Prevention, which is responsible for preventing the transmission, dissemination, and spread of foodborne illness to protect the public health; (2) the Department of Commerce’s National Marine Fisheries Service, which provides voluntary fee-for-service examinations of seafood for safety and quality; and (3) the Department of Homeland Security’s Customs and Border Protection, which, among other things, inspects imports, including food products, plants, and live animals, for compliance with U.S. law and assists all federal agencies in enforcing their regulations at the border. Such a
Actions are needed to address this high-risk area. Specifically:

- As we recommended in January 2017, the appropriate entities within the Executive Office of the President (EOP), in consultation with relevant federal agencies and other stakeholders, should develop a national strategy for food safety that, among other things, establishes sustained leadership, identifies resource requirements, and describes how progress will be monitored. The EOP did not provide comments on our recommendation.

- USDA should implement our priority recommendation to more fully implement GPRA Modernization Act of 2010 requirements by providing in its strategic and performance planning documents additional detail on interagency food safety-related collaborations, as we recommended in December 2014. USDA agreed with this recommendation.

Congressional Actions Needed

Congress should consider directing OMB to develop a government-wide performance plan for food safety that includes results-oriented goals, performance measures, and a discussion of strategies and resources. Congress should also consider formalizing the Food Safety Working Group through statute to help ensure sustained leadership across food safety agencies over time. In addition, if weaknesses in the food safety system persist over the next several years, Congress may wish to consider commissioning a detailed analysis of alternative organizational structures for food safety.

Related GAO Products


Protecting Public Health through Enhanced Oversight of Medical Products

The Food and Drug Administration (FDA) needs to increase monitoring of medical products manufactured overseas and improve planning for drug shortages.

Since our 2017 High-Risk Report, our assessment of efforts to address ratings for all five criteria remains unchanged. FDA continues to demonstrate top leadership support for improving its oversight of medical products for both the globalization and drug availability segments. However, the agency has not fully met the remaining criteria.

While the overall rating has not changed, FDA has now met the capacity criterion for the globalization segment, as FDA increased inspections of foreign manufacturers. However, FDA must continue to take actions to monitor foreign establishments and its foreign offices to meet the criterion for demonstrating progress.

In addition, while the overall rating has not changed, FDA now meets the monitoring criterion for the drug availability segment, as it has implemented and consistently used a new drug shortages information system and established procedures for using this system. FDA also now has a procedure to evaluate its response to drug shortages. However, FDA’s capacity and lack of an action plan to address drug availability remains a challenge, including the agency not using its drug shortage information system to also analyze trends and identify patterns to help predict future shortages.

Response to Globalization

Since our 2017 High-Risk Report, ratings for one criterion improved and four remain unchanged. FDA continues to meet the leadership commitment and action plan criteria, and has now met the criterion for capacity.

Leadership commitment: met. FDA met this criterion in 2015. The agency has demonstrated leadership commitment by (1) creating an office dedicated to
Protecting Public Health through Enhanced Oversight of Medical Products

confronting the challenges of globalization and (2) identifying a goal of expanding its regulatory presence and partnerships overseas.

**Capacity: met.** FDA’s recent actions have met this criterion. Since 2015, FDA has consistently conducted an increased number of inspections of foreign manufacturers and selected facilities for inspection based on risk. In addition, FDA reported in 2018 that it reduced the number of foreign drug establishments with no inspection history from approximately 1,000 to just over 100. Further, the agency has also improved the capacity of its overseas offices. Overall vacancy rates for these offices have declined in recent years, though significant gaps in staffing still remain at times, while staff complete necessary processes to be stationed overseas. FDA also signed mutual recognition agreements with many European countries that have allowed it to gain capacity by using information from inspectors from these countries.

**Action plan: met.** FDA met this criterion in 2015. The agency has developed an action plan for building a stronger, more secure global product safety net. It also developed a plan to partner with other foreign regulatory authorities to leverage their resources. FDA has since determined that 20 foreign regulators are capable of conducting inspections that meet FDA’s requirements, and as of November 13, 2018, had reviewed 50 inspections conducted by foreign regulators.

**Monitoring: partially met.** In December 2016, we reported that FDA took steps to better monitor its program for inspecting foreign and domestic establishments. Since then, FDA has taken steps to improve the accuracy and completeness of information used for that program. Starting in 2017, FDA began an effort to inspect, within 3 years, all establishments for which it had no prior history of inspection. FDA has made progress in inspecting these sites and expects to complete this task in fiscal year 2019. FDA has also made progress monitoring the contributions of its overseas offices, though it has not fully developed measures that allow it to systematically track how office activities contribute to drug safety outcomes.

**Demonstrated progress: partially met.** FDA has taken a variety of steps to respond to globalization, including improving the accuracy and completeness of its information on foreign manufacturers, and deciding that it will no longer allow more than 5 years to elapse between inspections at a specific establishment. However, FDA must continue to demonstrate that it can sustain its capacity to conduct more inspections.

**What Remains to Be Done**

Over the years since we added this area to our High-Risk List, we have made numerous recommendations related to the agency’s response to globalization. As of December 2018, two recommendations remain open.
FDA should implement our recommendations to (1) develop performance measures and (2) assess the effectiveness of the foreign offices’ contributions by systematically tracking information to measure whether the offices’ activities specifically contribute to drug safety-related outcomes, such as inspecting facilities, issuing import alerts to block potentially dangerous products, and sending warning letters to manufacturers with significant regulatory violations. In addition to our two open recommendations, FDA should complete its efforts to inspect all establishments without an inspection history and ensure all establishments continue to be inspected at an appropriate frequency.

Drug Availability

Since our 2017 High-Risk Report, ratings for one criterion improved and four remain unchanged. FDA continues to meet the criteria of leadership commitment and has now met the criterion for monitoring.

**Leadership commitment: met.** In the 2015 High-Risk Report, we recognized FDA demonstrated leadership commitment by issuing a strategic plan for preventing and mitigating drug shortages, and also by including the agency’s ability to respond to drug shortages in its strategic priorities. FDA’s commitment to addressing this public health concern continues to be strong, as evidenced by its recent formation of a drug shortages task force. The task force is charged with delving more deeply into the reasons for persistent shortages and seeking solutions to address their underlying causes. FDA also held a public meeting in November 2018 to obtain advice from stakeholders on ways to avert drug shortages.

**Capacity: partially met.** As noted in prior years, FDA improved its capacity to respond to drug shortages by increasing the number of dedicated personnel devoted to responding to drug shortages and prioritized its review of applications to market generic drugs. However, with the median time to approve prioritized generic drug applications at over a year, this approach is not an effective short-term solution.

While FDA is taking steps to address drug shortages, it is important to recognize that FDA cannot resolve them alone. In the past 2 years, several agency actions may help support industry’s capacity to prevent or mitigate shortages related to manufacturing problems. First, using the authority it was given in 2016 through the 21st Century Cures Act, FDA has awarded research grants to several universities to study continuous manufacturing. This approach has the potential to shorten production times and improve the efficiency of manufacturing processes. Second,
FDA established its Emerging Technology Program to help encourage the industry to develop new technologies that may improve manufacturing and reduce the chance of supply disruptions. Through the program, industry representatives can meet with FDA staff to discuss potential concerns related to these new technologies, such as the development of ultra-long-acting oral formulations, before seeking agency approval.

However, according to FDA officials, the agency may not have sufficient resources available to ensure the availability of drugs more broadly. Specifically, in 2017, FDA noted that its resources to conduct its over-the-counter drug responsibilities were inadequate. A lengthy regulatory process has hindered the availability of new drug ingredients to the U.S. market, such as those included in sunscreen. Consequently, the agency noted that it has not allowed the marketing of many new over-the-counter drugs, or made timely changes to existing over-the-counter drugs based on emerging safety issues or evolving science.

**Action plan: partially met.** FDA implemented a new data system in 2016 to track potential and existing drug shortages and manage its workload. While it uses this system for monitoring, FDA has not made plans to use these data to analyze trends or identify patterns to help predict future shortages to assist with managing efforts. The formation of FDA’s new drug shortages task force may provide the opportunity to plan future actions strategically. According to FDA, the task force will evaluate the reimbursement policies of the Centers for Medicare & Medicaid Services and other payers that could be making it difficult for companies to manufacture certain drugs profitably. It is also exploring ways to receive more timely information about potential supply disruptions.

Nonetheless, FDA still needs to take actions to address shortcomings in its broader strategic planning efforts related to its oversight of drugs and other medical products. Also, in May 2016, we found weaknesses in the agency’s lack of measurable goals for advancing regulatory science—the science supporting its effort to assess the safety, efficacy, quality, and performance of the products it regulates.

**Monitoring: met.** FDA has met this criterion through its recent actions. In June 2017, we determined while following up on open recommendations that FDA was consistently using its new drug shortage information system to track potential and existing shortages. This system remains in use for monitoring purposes. In addition, the agency established formal procedures for using the system and performance measures to evaluate its ability to respond when shortages occur. Also, in June 2018, FDA issued its annual report on drug shortages. This report contained a full year’s worth of data and provided policymakers with the ability to more closely monitor shortage information and obtain a more realistic view of this public health problem.
Demonstrated progress: partially met. FDA has implemented some of our recommendations, including consistently using its drug shortage information system to improve its ability to respond to drug shortages. However, drug shortages remain a public health concern and FDA has not fully addressed the recommendations that we have made, such as periodically analyzing its shortage data to proactively identify risk factors, and better collecting, tracking, and analyzing data related to safety of drugs after they are marketed.

What Remains to Be Done

Over the years since we added this area to our High-Risk List, we have made numerous recommendations related to drug availability, 5 of which were made since the last high-risk update in February 2017. As of December 2018, 12 recommendations remain open. Although FDA alone cannot guarantee drug availability, the agency can take important steps to help ensure that safe and effective drugs are accessible to patients. FDA should implement our recommendations, including to:

- conduct periodic analyses to assess drug shortage information to proactively identify risk factors for potential drug shortages;
- develop comprehensive plans, including goals and time frames, to correct problems with its data for monitoring safety after a product is on the market, and ensure that these data can be easily used for oversight;
- plan strategically to identify challenges that cut across FDA’s multiple centers that oversee medical products, and document how the agency will achieve measurable goals and objectives in these areas; and
- develop and document measurable goals, such as targets and time frames, for FDA’s regulatory science efforts so it can consistently assess and report on the agency’s progress in regulatory science efforts.

Related GAO Products


Transforming EPA’s Process for Assessing and Controlling Toxic Chemicals

The Environmental Protection Agency (EPA) has taken steps to manage chemicals that pose risks to human health and the environment, but leadership and implementation challenges remain.

Since our 2017 High-Risk Report, four criteria remain unchanged. However, the leadership commitment rating decreased from met to partially met in 2019.

For more information on EPA’s recent progress toward producing chemical assessments and implementing TSCA, see our March 2019 chemical assessments report GAO-19-270.

Integrated Risk Information System (IRIS)

Since our 2017 High-Risk Report, ratings for capacity, action plan, monitoring, and demonstrated progress remain unchanged. However, the rating for leadership commitment declined to partially met.

Leadership commitment: partially met. This rating has declined from met in 2017. In our 2017 High-Risk Report, we reported that the EPA Administrator demonstrated leadership commitment to the IRIS Program by identifying action on toxics and chemical safety as one of her top seven priorities for the agency—priorities that included the IRIS Program. However, current EPA leadership has not made a similar statement. While EPA released a document in late December 2018 called the IRIS Program Outlook, identifying ongoing chemical assessments, EPA leadership also proposed significant cuts to the program’s budget. For the past two years, EPA’s budget justification for human health risk assessment work was reduced to about $22 million from its fiscal year 2017 budget of $40.5 million, contributing to a lower rating than we gave in 2017. Congress did not support these reductions. Specifically, according to the joint explanatory statements accompanying the

Why Area Is High Risk

EPA’s ability to effectively implement its mission of protecting public health and the environment is dependent on assessing the risks posed by chemicals in a credible and timely manner. Such assessments are the cornerstone of scientifically sound environmental decisions, policies, and regulations under a variety of statutes, such as the Safe Drinking Water Act and the Clean Air Act. EPA prepares assessments of chemical hazards to human health under its IRIS Program, among others. The importance of IRIS has increased over time as EPA program offices and regions have relied on the program’s toxicity assessments in making environmental protection and risk management decisions.

EPA is also authorized under TSCA to obtain information on the risks of chemicals and to control chemicals the agency determines pose an unreasonable risk. This act was amended in 2016 by the Frank R. Lautenberg Chemical Safety for the 21st Century Act. The Lautenberg Act provides EPA with greater authority to address chemical risks, but implementation will take years because of the complexity and scope of the legislation.

Because EPA had not developed sufficient chemical assessment information under these programs to limit exposure to many chemicals that may pose substantial health risks, we added this issue to the High-Risk List in 2009 as a government program in need of broad-based transformation.

Contact Information

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Transforming EPA’s Process for Assessing and Controlling Toxic Chemicals

LEADERSHIP COMMITMENT

MET

PARTIALLY MET

DECLINED

DEMONSTRATED PROGRESS

PROGRESS SINCE 2017

DECLINED SINCE 2017

CAPACITY

MONITORING

ACTION PLAN

Source: GAO analysis | GAO-19-157SP

Integrated Risk Information System

LEADERSHIP COMMITMENT

MET

PARTIALLY MET

DECLINED

DEMONSTRATED PROGRESS

PROGRESS SINCE 2017

DECLINED SINCE 2017

CAPACITY

MONITORING

ACTION PLAN

Source: GAO analysis | GAO-19-157SP
Consolidated Appropriations Act, 2018, and Consolidated Appropriations Act, 2019, Congress has agreed to continue providing funding at fiscal year 2017 enacted levels.

EPA leadership’s long-term accountability for actions has been limited, as demonstrated by four IRIS assessments that were in the later stages of development on the 2015 Multi-Year agenda but have not been released, or included on the December 2018 list of assessments. EPA provided no information on the status of these assessments or whether it plans to discontinue working on them or restart them at another time. As we have previously reported, an overarching factor that affects EPA’s ability to complete IRIS assessments in a timely manner is that once a delay in the assessment process occurs, work that has been completed can become outdated, necessitating rework throughout some or all of the assessment process. Thus, it remains to be seen when these assessments can be expected to move to the next step in the IRIS process or be completed.

**Capacity: partially met.** As our March 2019 chemical assessments report indicates, the IRIS program has made progress in addressing some challenges to its assessment process, including adopting project management principles, and new software; streamlining the peer review process; implementing systematic review; and making changes to the frequency and type of communication, among others. It will take resources to implement all of these process improvements. We will continue to monitor EPA’s efforts and assess the progress the agency is making. Our previous work has shown that decision makers in the United States and around the world rely on information from IRIS assessments. Because of this key role, we are concerned that without adequate funding, untimely implementation of IRIS assessments could have profound impacts on chemical risk management activities.

**Action plan: partially met.** As we reported in our 2017 High-Risk Report, EPA had not evaluated the demand for IRIS toxicity assessments with input from users inside and outside EPA. EPA issued an IRIS Multi-Year Agenda in December 2015. According to EPA, the purpose of the 2015 agenda was to: (1) identify IRIS assessments currently under way and their status; (2) prioritize IRIS assessments that will be initiated over the next few years; and (3) evaluate assessment needs and develop an updated process for existing IRIS values. In December 2018, EPA issued the IRIS Program Outlook, but it was missing some key information. The Outlook identifies assessments currently underway and lists the next anticipated step in the IRIS process. However, the Outlook fails to list the projected date for most of the assessments and includes no information regarding assessment prioritization—including how these assessments will meet program and regional office needs. Moreover, we recommended in May 2013 that EPA should develop an Action Plan or strategy, among other things, to address the needs of EPA program offices and regions.
when IRIS toxicity assessments are not available; the agency is still working to do so.

**Monitoring: met.** The IRIS Program produced a report to Congress, which offered an overview of progress in January 2018, and took part in a National Academies of Sciences (NAS) review of the program in February 2018, which offered a third-party assessment of the program's efforts. The resulting NAS report provided a supportive assessment of ongoing transformations aimed at ensuring data quality, new systematic approaches for data analysis and expanded stakeholder engagement efforts, and increasing efficiency of assessments. According to the report, NAS reviewers were impressed with the changes being instituted in the IRIS Program since 2014, including substantive reforms by new IRIS Program leadership, such as the development, implementation, and use of systematic review methods to conduct IRIS assessments. For EPA to sustain the rating for the monitoring criterion, the agency will need to provide clear milestones and metrics for its action plan and monitor progress toward them.

**Demonstrated progress: partially met.** EPA provided a list of chemicals in the December 2018 IRIS Program Outlook. However, it is not clear what data and priorities EPA used to establish its current priorities or when it will assign time frames and future resources to ensure sustained performance. For example, according to the 2015 IRIS Multi-Year Agenda, the formaldehyde assessment was being revised to incorporate elements of systematic review and was to be released for public comment and external peer review. However, the December 2018 IRIS Program Outlook does not list the formaldehyde assessment and provides no explanation of why the assessment was not included. The IRIS Program issued an assessment of Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in August 2018, although it took almost 2 decades.

**What Remains to Be Done** Since we added the IRIS Program to our High-Risk List in 2009, we have made nine recommendations related to the IRIS segment of this high-risk issue. As of mid-February 2019, six recommendations remain open. EPA will need to implement these recommendations, along with meeting the High-Risk criteria discussed above, to make progress. As noted in several of our recommendations, EPA should, among other things:

- Assess the feasibility and appropriateness of the established time frames for each step in the IRIS assessment process, including whether different time frames should be established for different types of IRIS assessments.
- Publish IRIS agendas on which chemicals EPA is actively assessing and when it plans to start assessments of the other listed chemicals to demonstrate progress.
• Develop a strategy to address the needs of EPA Program Offices and regions when IRIS toxicity assessments are not available.

In addition, our March 2019 chemical assessments report provides information on what remains to be done to address challenges, (e.g. producing assessments) in the IRIS Program.

Congressional Actions Needed

EPA and Congress should continue to ensure that the resources dedicated to IRIS are sufficient to implement it and to maintain a viable database of chemical assessments.

Toxic Substances Control Act (TSCA)

Since our 2017 High-Risk Report, ratings for capacity, monitoring, and demonstrated progress progressed to partially met. The rating for leadership commitment remains unchanged at met and for action plan at partially met.

Leadership commitment: met. In January 2019, the Acting Administrator indicated his commitment to fulfill EPA obligations under TSCA. He stated that EPA had, among other things, released guidance and policy on confidential business information, a strategy to reduce animal testing, and a final mercury reporting rule. In addition, EPA's First Year Implementation Plan identified actions taken to meet the deadlines in the new law, such as (1) identifying the initial 10 work plan chemicals to be assessed under TSCA, (2) establishing a process and criteria for identifying high-priority chemicals for risk evaluation under TSCA, and (3) issuing a rule that establishes EPA's process for evaluating risks from high-priority chemicals under TSCA.

Further, as of December 2018, EPA had implemented two of our recommendations made in 2013 regarding TSCA. As we elaborate in our March 2019 chemical assessments report, EPA has encountered some challenges in implementing the Lautenberg Act and as of mid-February 2019, several lawsuits were pending. In our chemical assessments report, we discuss, for example, EPA's capacity to implement the program, collect appropriate fees, and demonstrate progress. How EPA addresses these matters will be key to continuing to meet the leadership criterion in the future.

Capacity: partially met. The Lautenberg Act provides EPA with greater authority to address chemical risks, but in turn increases both EPA's responsibility for regulating chemicals and its workload. EPA recently issued a rule under the act to collect fees from certain companies to defray a portion of TSCA implementation costs, but it is unclear whether
the fees collected will be sufficient to support relevant parts of the program. According to EPA, the agency will be tracking its costs and use that information to adjust future fees, if appropriate. As required by law, EPA will evaluate and readjust, if necessary, the fees every 3 years.

**Action plan: partially met.** EPA’s strategic plan discusses general approaches for meeting statutory requirements and mandatory deadlines of TSCA. EPA issued a First Year Implementation Plan in June 2016 noting that this document is intended to be a roadmap of major activities EPA will focus on during the initial year of implementation. As of mid-February 2019, the plan had not been updated, although EPA had indicated that the plan would be further developed over time.

**Monitoring: partially met.** The Lautenberg Act provided EPA with significant new authorities to regulate chemicals, but EPA’s full implementation will take many years. EPA has partially met the criterion for monitoring because it is too soon to determine whether EPA’s approach to managing chemicals within the new TSCA authorities will position the agency to achieve its goal of ensuring the safety of chemicals. We will continue to monitor TSCA as the agency implements this important legislation.

**Demonstrated progress: partially met.** As our chemical assessments report describes, EPA has responded to many of the new provisions in the Lautenberg Act. For example, EPA has issued rules governing the prioritization and conduct of chemical assessments under TSCA. In addition, EPA told us about efforts to engage EPA offices in a variety of ways to obtain information necessary to conduct risk evaluations and to leverage the expertise and experience of experts within the agency. However, EPA did not provide us with documentation that these activities have occurred. Moreover, EPA has additional Lautenberg Act requirements to address in the years ahead.

**What Remains to Be Done** Since we added TSCA implementation to our High-Risk List in 2009, we have made three recommendations related to this high-risk issue. EPA will need to implement one open recommendation, along with meeting the high-risk criteria discussed above, to make progress. As noted in several criteria above, EPA needs to maintain leadership commitment and ensure that it has the resources and plans in place to facilitate progress. For example, for the demonstrated progress criterion, EPA will need to respond to provisions in the Lautenberg Act, such as having 20 ongoing risk evaluations by December 2019 and making findings on the safety of all new chemicals. In addition, our March 2019 chemical assessments report discusses what remains to be done to address challenges (e.g. process improvements) in implementing the Lautenberg Act.
Congressional Actions Needed

EPA and Congress should consider ensuring that the resources dedicated to TSCA activities are sufficient to implement TSCA reform activities.

Related GAO Products


The Department of Veterans Affairs (VA) Acquisition Management is a new high-risk area as VA must demonstrate greater leadership commitment and strategic planning to ensure efficient use of its acquisition funding and staffing resources.

**Outdated acquisition regulations and policies.** VA’s procurement policies have historically been outdated, disjointed, and difficult for contracting officers to use. In September 2016, we reported that (1) the acquisition regulations contracting officers currently follow have not been fully updated since 2008 and (2) VA had been working on completing a comprehensive revision of its acquisition regulations since 2011.

VA’s delay in updating this fundamental source of policy has impeded the ability of contracting officers to effectively carry out their duties. We recommended in September 2016 that VA identify measures to expedite the revision of its acquisition regulations and clarify what policies are currently in effect. VA concurred with this recommendation and has made some progress in updating its acquisition regulations and rescinding outdated policies, but more work remains to be done over the next several years.

Of the 41 parts in the new version of VA’s acquisition regulations, VA reports that:

- 14 have been published as final rules,
- 5 have completed the public comment process and VA is addressing the comments received,
- 1 is undergoing further evaluation by the Office of Management and Budget, and
• 21 are at an earlier stage of the rulemaking process.

VA reported that it is unsure when all parts will be out for public comment but the updated final version of its acquisition regulations will not be complete until April 2021. VA has also reported that it has rescinded many irrelevant policy documents and updated those that remain relevant. Officials said they plan to rescind or update the few remaining outdated policy documents in January 2019.

**Lack of an effective medical supplies procurement strategy.** VA’s program for purchasing medical supplies has not been effectively executed, nor is it in line with practices at leading hospitals. To support more efficient purchasing of medical supplies for its 172 medical centers that serve the needs of about 9 million veterans, VA launched the Medical Surgical Prime Vendor-Next Generation (MSPV-NG) program in December 2016. MSPV-NG was part of its overall effort to transform its supply chain and achieve $150 million in cost avoidance.

In November 2017, we reported that VA’s approach to developing its catalog of supplies was rushed, lacked key stakeholder involvement and buy-in, and relied on establishing non-competitive blanket purchase agreements for the overwhelming majority of products, resulting in low utilization by medical centers. VA had set a target that medical centers would order 40 percent of their supplies from the MSPV-NG catalog, but utilization rates were below this target with a nationwide average utilization rate across medical centers of about 24 percent as of May 2017. This low utilization adversely affected VA’s ability to achieve its cost avoidance goal. We recommended in November 2017 that VA develop, document, and communicate to stakeholders an overarching strategy for the program. VA concurred with this recommendation and reported that it would develop and communicate a new medical supplies procurement strategy to clinical and logistics staff. This strategy was originally planned to be completed by December 2017 but has now been delayed to March 2019.

**Inadequate acquisition training.** VA acquisition training, at times, has not been comprehensive nor provided to staff that could benefit from it. A 2006 statute required, and a 2016 Supreme Court decision (Kingdomware Technologies, Inc. v. United States) reaffirmed, that VA is to give preference to veteran-owned small businesses when competitively awarding contracts—a program known as Veterans First. In September 2018, we reported that training on VA’s Veterans First policy did not address some of its more challenging aspects. For example, many of the contracting officers we interviewed were uncertain about how to balance the preference for veteran-owned small businesses with fair and reasonable price determinations when lower prices might be found on the open market.
In addition, VA provided several installments of online training sessions on the Veterans First policy to contracting officers but did not make them mandatory. As a result, only 52 percent of VA contacting officers completed the follow-up training by the spring of 2018. We recommended in September 2018 that VA provide more targeted training to contracting officers on how to implement the Veterans First policy, particularly in the area of making fair and reasonable price determinations, and assess whether this training should be designated as mandatory. VA concurred with these recommendations and stated that it is taking steps to implement them.

**Contracting officer workload challenges.** The majority of our reviews since 2015 have highlighted workload as a contributing factor to the challenges that contracting officers face. Most recently, in September 2018, we reported that about 54 percent of surveyed VA contracting officers said their workload was not reasonable and found that workload stresses have exacerbated the struggles that they face implementing the department’s Veterans First policy.

In addition, in September 2016, we reported that the contracting officers at the Veterans Health Administration (VHA) processed a large number of small dollar-value actions to support medical center operations, many of which involve emergency procurements of routine items to support immediate patient care. Contracting officers and the department’s Acting Chief Acquisition Officer (CAO) told us that these frequent and urgent small-dollar transactions reduce contracting officers’ efficiency and ability to take a strategic view of VHA’s overarching procurement needs. We reported in November 2017 that emergency procurements accounted for approximately 20 percent—$1.9 billion—of VHA’s overall contract actions in fiscal year 2016. Figure 13 shows the percent of VHA contract actions designated as emergencies in fiscal year 2016 by each network contracting office.
Veterans Integrated Service Networks (VISNs), organizations that manage medical centers and associated clinics across a given geographic area, are served by a corresponding network contracting office. Some VISNs have been consolidated over time, and in fiscal year 2016, there were 19 VISNs despite being numbered up to 23. As of fiscal year 2017, there are only 18 in total.

We recommended in November 2017 that VHA network contracting offices work with medical centers to identify opportunities to more strategically purchase goods and services frequently purchased on an emergency basis. VA concurred with this recommendation and reported in December 2018 that it is utilizing a supply chain dashboard to track items purchased on an emergency basis and determine which of those items to include on the catalog. VA noted that it added 13,300 items to the catalog from June 2018 to December 2018, including items often purchased on an emergency basis. We requested documentation showing that items added to the catalog were previously purchased on an emergency basis, but as of January 2019, VA had not yet provided it. If implemented, this would allow for both greater contracting officer efficiency and cost savings. For example, based on a similar recommendation we made in 2012, VA reported about $10 billion in savings over a 5-year period.

Lack of reliable data systems. The lack of accurate data has been a long-standing problem at VA. In September 2016, we reported that VA had not integrated its contract management and accounting systems, resulting in duplicative efforts on the part of contracting officers and increased risk of errors. We and VA’s Inspector General each recommended that VA perform data checks between the two systems. VA concurred with this recommendation and some VA contracting organizations have made efforts to address this risk. Further, VA reported...
in December 2016 that it had selected the Department of Agriculture as the service provider for a new integrated financial system, but told us in June 2018 that the new system would not be piloted until fiscal year 2020.

In November 2017, we reported that the MSPV-NG program office relied almost exclusively on flawed data to identify medical and surgical items to be included in the catalog. The program office estimated that the items in the initial release of the MSPV-NG catalog would meet 80 percent or more of the medical centers’ needs. However, the contracting office managing the program indicated that, as of June 2017, only a third of the items in the initial MSPV-NG catalog would meet medical centers’ needs. Senior VHA acquisition officials attributed this mismatch to shortcomings with VA’s historical purchase data.

**Limited contract oversight and incomplete contract file documentation.** VA has had difficulty ensuring that its contracts are properly monitored and documented. In September 2018, we reported that, although VA obligated $3.9 billion to veteran-owned small businesses in fiscal year 2017, its contracting officers were not effectively monitoring compliance with key aspects of the department’s Veterans First policy, such as limits on subcontracting (which ensure that the goal of the program—to promote opportunities for veteran-owned businesses—is not undermined). In many cases, we found that clauses requiring compliance were not included in the VA’s contracts and orders with veteran businesses because the contracting officers either forgot to include them or were unaware of the requirement.

The contracting officers we spoke with also said that they do not have sufficient time or knowledge to conduct oversight. Through limited reviews, VA has identified a number of violations that would warrant a broader assessment of the fraud risks to the program. We recommended in September 2018 that VA establish a mechanism to ensure that mandatory subcontracting-related clauses be consistently incorporated into set-aside contracts with veteran-owned businesses and that VA conduct a fraud risk assessment for the Veterans First program. VA concurred with these recommendations and is taking steps to implement them.

We also reported in September 2016 that a number of VA contract files we reviewed were missing key documents, increasing the risk that key processes and regulations were not followed. We recommended that VA focus its internal compliance reviews to ensure that required contract documents are properly prepared and documented. VA concurred with this recommendation and stated that it plans to hold quarterly reviews of compliance review results in order to improve the quality of contract file documentation.
Leadership instability. We have previously reported, most recently in September 2018, that procurement leadership instability has made it difficult for the VA to execute and monitor the implementation of key acquisition programs and policies. For example, changes in senior procurement leadership, including the CAO and VHA’s Chief Procurement and Logistics Officer, occurred during the implementation of MSPV-NG and similar instability in leadership affected the MSPV-NG program office itself. Overall, the MSPV-NG program office has had four directors, two of whom served in an acting capacity, since its inception in 2014.

To address this instability, we recommended in November 2017 that VA appoint a non-career employee as the CAO and prioritize the hiring of the MSPV-NG program office’s director position on a permanent basis. VA concurred with these recommendations and implemented them in 2018. Stable leadership should help bring consistent and much needed direction to the MSPV-NG program, but we recently identified other areas within the VA where sustained leadership is also needed. For instance, in September 2018, we reported there have been six Acting Directors within the past two and a half years within an oversight office that helps assess whether VA is in compliance with aspects of its Veterans First policy.

What Remains to Be Done Since 2015, we have made 31 recommendations to improve VA acquisition management. As of December 2018, VA has implemented 10 of these recommendations; 21 of them remain open including those listed below. We have identified the following steps, among others, that VA needs to take to demonstrate greater leadership commitment and strategic planning to ensure efficient use of its acquisition funding and staffing resources. VA should:

- prioritize completion of the revision of its acquisition regulations, which has been in process since 2011;
- develop, document, and communicate to stakeholders a strategy for the Medical Surgical Prime Vendor program to achieve overall program goals;
- provide targeted training for the more challenging aspects of implementing the Veterans First policy;
- identify opportunities to strategically purchase goods and services that are frequently purchased on an emergency basis;
- update its contract management system’s functionality; and
- conduct a fraud risk assessment of its Veterans First program.
Related GAO Products


The National Nuclear Security Administration (NNSA) has made progress in a number of areas. However, the Office of Environmental Management (EM) needs to take action to understand the root causes of its challenges and incorporate program and project management best practices into its policies.

Since our 2017 High-Risk Report, DOE has made progress in the demonstrated progress criterion. Our assessment of the ratings for the four other criteria remains unchanged.

Leadership commitment: met. In September 2018, the Deputy Secretary of Energy issued a memorandum laying out a series of reforms to improve the department’s management of major contracts, including NNSA and EM. To ensure leadership engagement on major contracts, DOE plans to either expand the scope of the Energy Systems Acquisition Advisory Board or establish a second board to review them. This effort is recent, and we will follow DOE’s progress in implementing these reforms.

In addition, in September 2017, NNSA agreed to implement our recommendation to strengthen its program management by applying life-cycle cost and schedule management to one of its major programs. One of NNSA’s core offices, the Office of Defense Programs, strengthened program management by further implementing its Program Execution Instruction, which applies to the management of billions of dollars of nuclear weapons science and production efforts.

In July 2017, EM issued a new cleanup policy that requires EM senior leadership approval of any contracts for $200 million or more. In December 2017, DOE reorganized EM under the Office of Science—the third move for EM in 10 years. The Assistant Secretary for the Office of Environmental Management also announced an intention to develop a strategic plan to address EM’s large and growing environmental liabilities, as well as a new approach to contracting focused on accelerating the cleanup and closure of sites.

Capacity: not met. In August 2018, a statutorily required internal review of NNSA’s capacity identified unmet critical staffing needs, especially...
staffing to manage and oversee work on the agency’s uranium and plutonium missions, which are expected to grow. In addition, in June 2018, an Office of Personnel Management (OPM) study found that the agency was understaffed across all functions. The number of additional staff that OPM recommended in the study would exceed the statutory cap on NNSA’s full-time equivalent employees.

DOE revised its program and project management guidance in May 2016 to direct that capital asset acquisitions have adequate oversight staff. In recent years, NNSA has increased the number of oversight staff in some of its major project management offices, including for the Uranium Processing Facility in Tennessee and the Mixed Oxide Fuel Fabrication Facility in South Carolina. However, EM has not benefitted from this change because it does not follow DOE’s program and project management requirements for the majority of its cleanup activities. In addition, EM’s July 2017 cleanup policy does not sufficiently address the need for EM to have adequate staff for its work.

**Action plan: partially met.** The Deputy Secretary’s 2018 contract management reform memorandum lists several areas for improvement—including increasing capacity and improving performance measures—which, if realized, will strengthen DOE’s management of major contracts. After a comprehensive review of lessons learned from a multi-billion dollar warhead life extension program, NNSA has also implemented management reforms to support similar programs.

EM continues to need to identify the root causes of its contract and project management problems. DOE has conducted multiple studies over the years and closed many corrective actions plans as successful. However, these plans were not comprehensive, and their results were not linked to each other. In June 2017, EM initiated a 45-day review to identify decision-making priorities at each site, but this study was never finalized. In August 2018, EM initiated an ad-hoc root cause analysis—DOE’s fourth since 2008. EM officials stated that they are working on a continuous improvement plan based on the 2018 ad-hoc analysis, but this effort did not connect to DOE’s previously identified problems or previous corrective measures. Until EM takes steps to identify the root causes of its problems, developing an effective action plan will be challenging. Notably, EM’s 2017 cleanup policy does not direct EM to develop a root cause analysis and corrective action plan at either a program or project level when there is evidence that a cost or schedule baseline will not be met or there are cost overruns.

**Monitoring: partially met.** NNSA continues to make progress, most notably in managing contracts. For example, as it renews or recompetes contracts, NNSA has taken steps to include new contract clauses that strengthen management oversight and reporting of management
information. NNSA has also taken steps to more actively monitor and address contract performance that does not meet expectations, for example, by recompeting one multibillion-dollar contract early after two instances of poor performance. In addition, NNSA has taken steps to implement our recommendation to re-establish a process for reviewing the effectiveness of field offices’ contractor oversight by conducting four peer reviews as of October 2018, with more planned.

NNSA has also taken action to manage all contract documentation in a central recordkeeping system, as we recommended in August 2018. However, we reported in February 2019 that cost performance information was not a significant performance measure in NNSA’s review and monitoring of some types of contract evaluations. NNSA agreed with our recommendation that it should include quality cost information in its contractor performance evaluations to enable better performance assessments.

In contrast to NNSA’s progress, EM’s monitoring continues to face challenges. In February 2019, we found that EM’s 2017 cleanup policy does not follow most selected best practices for program or project management. For example, the policy does not require that DOE offices outside EM conduct independent project reviews, as is the case for capital asset projects over $50 million. We also found that the data and metrics EM uses to monitor its work do not accurately reflect cleanup performance, leaving decision makers without adequate information about what EM is achieving with its funding. EM agreed with our recommendations that it incorporate program and project management leading practices—especially by directing independent monitoring and oversight of its cleanup operations—into its 2017 cleanup policy, and generally agreed that it should integrate its data and metrics to provide a clear picture of performance.

DOE generally concurred with our March 2017 recommendation to implement leading practices for managing its risk of fraud and other improper payments but has not taken sufficient steps to implement it. The Deputy Secretary’s 2018 contract management reform memorandum, which commits DOE to using objective performance measures, including cost controls, indicates that the agency plans to take steps to improve its future monitoring.

**Demonstrated progress: partially met.** Through its Office of Cost Estimating and Program Evaluation, NNSA has enhanced its capability to estimate costs and schedules, and to assess alternatives, for programs and projects, among other things. NNSA also made progress by implementing best practices in several areas, such as those for estimating costs and schedules in nuclear weapons refurbishment activities and capital asset acquisitions. For example, we determined that
DOE’s revised cost estimate of $17.2 billion to construct a Mixed Oxide Fuel Fabrication Facility to dispose of surplus, weapons-grade plutonium substantially met best practices—providing assurance that the estimated costs could be considered reliable. This finding contributed to DOE’s reevaluation of the project and ultimate termination, in October 2018, in favor of a potentially less costly disposal approach.

However, NNSA’s cost estimates for a new uranium enrichment capability—an effort that could cost billions of dollars—did not fully meet best practices. Also, while NNSA has taken steps to implement statutorily required common financial reporting across the nuclear security enterprise, we found in January 2019 that NNSA’s plan for this effort does not follow leading project management practices—including having a detailed schedule and budget for implementing the project. NNSA generally agreed with our recommendations that it should follow leading practices in its approach to planning and implementing common financial reporting.

EM is close to completing one major cleanup project—the River Corridor Closure Project in Washington. However, another major EM cleanup project continues to face significant cost and schedule challenges. In particular, construction of the Waste Treatment and Immobilization Plant (WTP) at the Hanford site in Washington has faced persistent challenges, including quality assurance problems that have delayed it by decades and increased costs well beyond its last total program cost estimate of $17 billion. Six years after major nuclear safety and quality issues were discovered, we found in April 2018 that the contractor has not fully implemented all planned corrective measures.

Furthermore, EM has not ensured that all WTP quality assurance problems—such as engineering errors and construction deficiencies—have been identified and some previously identified problems are recurring. DOE generally agreed with our recommendations that it require the contractor to determine the extent of problems in WTP structures, systems, and components, and order work stops when problems recur. Even so, in December 2018, DOE announced that EM had increased its estimate of the total costs to clean up the Hanford site by $82 billion—to a total of $242 billion—with part of that increase attributed to WTP construction and operating costs.

**What Remains to Be Done**

Fifty-one recommendations were open as of December 2018; 15 recommendations were made since the last high-risk update in February 2017. DOE, including NNSA and EM, should implement our recommendations to use sound contract, program, and project management practices to enhance oversight and reduce the risk of fraud, waste, and abuse.
Congressional Actions Needed

Congress should consider working with NNSA to ensure that the statutory cap on staffing is re-examined and consistent with NNSA’s human capital needs, as evaluated in two recent studies.

Related GAO Products


In light of deteriorating cost and schedule performance, the National Aeronautics and Space Administration (NASA) needs to address management weaknesses and implement an action plan.

**Why Area Is High Risk**

NASA plans to invest billions of dollars in the coming years to explore space, and conduct aeronautics research, among other things. We designated NASA's acquisition management as high-risk in 1990 in view of NASA's history of persistent cost growth and schedule delays in the majority of its major projects. We have identified management weaknesses that have exacerbated the inherent technical and engineering risks faced by NASA's largest projects.

In more recent years, we found that NASA had taken steps to improve its management of its major projects—those projects and programs with an estimated life-cycle cost over $250 million. However, we reported in May 2018 that the cost and schedule performance of NASA's portfolio of major projects deteriorated. One of NASA's largest projects, the James Webb Space Telescope, has experienced delays of 81 months and cost growth of 95 percent since 2009.

In 2018, we found that additional cost and schedule growth is likely for the portfolio. Many major projects, including some of the most expensive ones, are in the phase of their life cycles when cost and schedule growth is most likely. Further, NASA faces significant challenges largely driven by the need to improve the completeness and reliability of its cost and schedule estimates, update cost and schedule estimates as new risks emerge, and ensure that programmatic decisions are not increasing risks to projects.

**Contact Information**

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Since our 2017 High-Risk Report, we have lowered two criteria ratings for NASA's acquisition management from met to partially met—leadership commitment and monitoring. Our assessment of the other three criteria remains the same. Capacity and demonstrated progress remain partially met and corrective action plan remains met.

**Leadership commitment: partially met.** NASA is no longer fully meeting the criteria for leadership commitment because of 1) a lack of transparency in major project cost and schedules, especially for its human spaceflight programs, 2) a lack of information on long-term human exploration program costs, and 3) leadership approval of risky programmatic decisions for complex major projects. When we determined that NASA met the criteria in 2015, NASA's senior leadership had implemented key components of the agency's action plan, which had resulted in improvements in the cost and schedule performance of its major projects for several years. Specifically, NASA is no longer meeting the criteria for leadership commitment in 2019 for the following reasons:

- In our May 2018 assessment of major projects, we were unable to determine the cost performance for NASA's portfolio of major projects for the first time because NASA lacked a current cost estimate for its Orion Multi-Purpose Crew Vehicle (Orion)—one of the largest projects in the portfolio. In addition, the approved cost estimate for the Space Network Ground Segment Sustainment project underestimated the expected life-cycle cost because it did not include the full scope of the project's effort.

Further, we reported in July 2018 that the Commercial Crew Program did not provide Congress with the results of its schedule analysis showing a risk of schedule delays beyond what each of its two contractors’ had previously provided. As a result, Congress does not have complete information for decision-making regarding U.S. access to the International Space Station.

- NASA has not taken action on several recommendations we made related to understanding the long-term costs of its human exploration
programs. For example, two human spaceflight programs—Exploration Ground Systems (EGS) and Space Launch System (SLS)—do not have a cost and schedule baseline that covers activities beyond the first planned flight. In addition, the third program—Orion—does not have a baseline beyond the second planned flight. As a result, NASA is now committing itself to spend billions of dollars for missions that do not have a cost and schedule baseline against which to assess progress.

- NASA leadership has approved programmatic decisions that compounded technical challenges. These decisions included establishing insufficient cost and schedule reserves, operating under aggressive schedules, and not following best practices for establishing reliable cost and schedule baselines for some of its most expensive major projects, including Orion, SLS, and the James Webb Space Telescope. As a result, these programs have been at risk of cost growth and schedule delays since NASA approved their baselines.

Further, the Mars 2020 project experienced cost growth stemming from technical challenges on a technology demonstration instrument designed to convert carbon dioxide to oxygen. NASA approved the project to proceed through its preliminary design review without maturing a critical technology for this instrument. In our prior work on best practices for systems entering product development, we have found that such decisions can increase risk for these systems.

**Capacity: partially met.** NASA has taken steps to build capacity to reduce acquisition risk including updating tools aimed at improving cost and schedule estimates but continues to experience challenges. For example:

- NASA has not always followed best practices in areas such as estimating costs and schedules and earned value management, and projects are reluctant to update their cost and schedule estimates as new risks emerge. For example, NASA partially agreed with our July 2016 recommendation that the Orion program should update its joint cost and schedule confidence analysis—a point-in-time estimate that, among other things, includes all cost and schedule elements, and incorporates and quantifies known risks that support each program’s cost and schedule baseline. In January 2018, however, NASA officials stated that they have no plans to update this analysis. An updated analysis would be beneficial given numerous conditions and risks have changed since the analysis was completed, including delays to its first planned flight.

- In our May 2018 assessment of major projects, we found that several NASA major projects experienced workforce challenges, including not having enough staff or staff with the right skills. NASA has also identified capability gaps in areas such as scheduling, earned value
management, and cost estimating, and has efforts underway to try to improve capacity in these areas.

**Action plan: met.** NASA is meeting the criteria for a corrective action plan as the agency finalized a new plan in December 2018. NASA determined that it was necessary to develop a new plan because several of its highest-profile missions recently experienced cost and schedule growth. The plan contains several initiatives that could help the agency manage its acquisitions, if implemented. For example, NASA plans to implement a training program to increase the agency’s programmatic capabilities, including those related to cost and schedule estimation and assessment. In addition, the agency plans to establish new requirements for projects over $1 billion to conduct a joint cost and schedule confidence level assessment at additional reviews throughout a project’s lifecycle, or as required by the Associate Administrator. Further, the plan includes an effort to improve portfolio analysis and planning for NASA human spaceflight programs by enhancing cross-portfolio assessments. We plan to follow up with NASA to better understand how this effort could help improve outcomes for these programs and enhance transparency into human exploration program costs.

**Monitoring: partially met.** NASA is no longer fully meeting the criteria for monitoring because it will need to institute a program for monitoring and independently validating the effectiveness and sustainability of corrective action measures in conjunction with its new action plan. NASA has been reporting metrics for its prior action plan to us on a semiannual basis; however, the agency is not performing within some of the parameters outlined in the plan—such as meeting metrics for cost and schedule performance. In addition, NASA officials stated that they plan to revise these metrics because they are outdated.

**Demonstrated progress: partially met.** We reported in May 2018 that the cost and schedule performance of NASA’s portfolio of major projects had deteriorated. The average launch delay increased from 7 months in our May 2017 report to 12 months in our May 2018 report. As mentioned above, we were not able to determine the extent of cost performance deterioration because NASA lacked a current cost estimate for its Orion crew capsule. Even without including expected Orion cost growth, the overall development cost growth for the portfolio of 17 development projects increased to 18.8 percent, up from 15.6 percent in 2017. We found that the decline in cost and schedule performance was driven by major projects encountering technical issues that were compounded by risky program management decisions; technical challenges that resulted in delays in the integration and test phase; and factors largely outside of the projects’ control, such as delays related to their launch vehicles.

In addition, NASA approved new cost and schedule commitments for the James Webb Space Telescope project in June 2018. As a result, the project has experienced total schedule delays of 81 months and cost
growth of 95 percent since the project’s cost and schedule baseline was first established in 2009. The project office updated its cost and schedule estimates after experiencing a series of delays largely due to complications with spacecraft element integration, and various technical and workmanship issues. The project’s ability to execute to its new schedule will continue to be tested through the remainder of its challenging integration and test phase, which includes executing several first-time activities such as integrating the spacecraft and telescope elements.

Further, we reported in May 2018 that NASA’s portfolio of major projects was at risk for continued cost growth and schedule delays as new, large, and complex projects enter the portfolio and expensive projects remain in the portfolio for longer than expected. For example, NASA expects to begin development on a lunar Gateway—currently being discussed as a platform in a lunar orbit to mature deep space exploration capabilities.

**What Remains to Be Done**

Since we initially designated this area as high-risk, we have made numerous recommendations. As of December 2018, 15 recommendations related to this high-risk area remain open. Of the 9 recommendations we have made since the last high-risk update in February 2017, 6 remain open.

NASA should take action in the following areas to reduce acquisition risk to its portfolio of major projects and demonstrate progress.

- Increase transparency of project costs and decline to approve cost and schedule baselines or programmatic decisions that increase risk to projects. This includes not approving project cost and schedule baselines that do not meet best practices and that do not have adequate cost and schedule reserves.

- Implement recommendations related to the long-term costs of its human exploration programs. This will be especially important for NASA to determine the affordability of its portfolio, especially now that it plans to begin developing other large, complex projects.

- Build capacity by ensuring that NASA’s workforce has the right skills to develop project cost and schedule estimates that meet best practices.

- Ensure that NASA updates project cost and schedule estimates as risks change.

- Implement the new corrective action plan and track progress against it. Continue to develop and refine outcome metrics for the human spaceflight portfolio analysis and planning effort to provide better metrics to assess improvements in program outcomes.
In conjunction with its new corrective action plan, institute a program for monitoring and independently validating the effectiveness and sustainability of corrective measures.

In October 2017, we raised a matter for Congressional consideration that Congress should consider requiring the NASA Administrator to direct the Exploration Systems Development organization within the Human Exploration and Operations Mission Directorate to establish separate cost and schedule baselines for work required to support Space Launch System and Exploration Ground Systems for the second combined exploration mission and establish separate cost and schedule baselines for each additional capability that encompass all life-cycle costs, to include operations and sustainment. We made this a matter for Congressional consideration because NASA has not acted on our May 2014 recommendation to establish baselines for these programs or for capabilities beyond NASA’s first test flight, and does not have plans to do either.

**Related GAO Products**


DOD Contract Management

The Department of Defense (DOD) faces challenges in how it defines, strategically manages, and budgets for its contracted services, which typically account for about half of the department’s $300 billion in annual contract obligations.

Why Area Is High Risk
DOD obligates hundreds of billions of dollars annually on contracts for goods and services. We added DOD’s contract management to our High-Risk List in 1992 and have identified three major areas of challenges: acquisition workforce, service acquisitions, and operational contract support.

DOD reduced the size of its acquisition workforce in the mid-1990s as defense budgets decreased. Amid concerns about skill gaps and a growing reliance on contractors, DOD has been rebuilding its workforce since 2009. A skilled acquisition workforce is vital to maintaining military readiness, increasing DOD’s buying power, and achieving savings.

DOD’s long-standing challenges in managing service contracts are evident in its difficulties clearly defining requirements, a fragmented and uncoordinated approach to acquiring services, and limited information on what the department plans to spend on specific types of contracted services in its budget forecasts.

DOD has spent billions of dollars on contractors to support military activities it conducts around the world. Since 2010, we have reported that DOD has faced difficulties in identifying capability gaps, developing guidance, and integrating operational contractor support into plans and training.

Contact Information
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Since our 2017 High-Risk Report, our assessment of all five criteria remains unchanged for DOD Contract Management. DOD continues to demonstrate top leadership support for addressing challenges in its (1) acquisition workforce, (2) service acquisitions, and (3) operational contract support (OCS), which is defined as planning for and obtaining supplies, services, and construction from commercial sources in support of joint operations.

DOD has taken steps to improve its capacity, but continues to face challenges. DOD’s progress on the action plan criterion was mixed across the segments. While the monitoring criterion remains partially met overall, we saw significant improvement within the OCS segment as DOD changed its strategy for addressing tasks that we previously found would be difficult to monitor. DOD continues to take action to meet the demonstrated progress criterion—with additional management attention needed for service acquisition.

Over the years since we added this area to our High-Risk List, we have made numerous recommendations related to this high-risk issue, 18 of which were made since the last high-risk update in February 2017. As of November 2018, 41 recommendations related to this high-risk area are open.
Ratings for this segment remain unchanged since our 2017 High-Risk Report, with DOD meeting one criterion and making mixed progress on the other four criteria.

**Leadership commitment: met.** DOD continues to exhibit leadership commitment to sustaining the size and improving the professionalism of its acquisition workforce. Specifically, DOD issued an updated acquisition workforce strategic plan in October 2016. Additionally, DOD issued a workforce rationalization plan in September 2017, which reinforces the need for the department to ensure that the civilian workforce is sized appropriately to complement its military personnel and to avoid artificial constraints on civilian workforce size and arbitrary reductions.

**Capacity: partially met.** DOD increased the size of its acquisition workforce beyond its initial 2015 target of 147,000 to more than 169,000 as of the third quarter of fiscal year 2018. It has also taken steps to ensure that the acquisition workforce has the requisite skills, tools, and training to perform key tasks. For example, DOD is conducting follow-up career field competency assessments to determine which skill gaps identified in initial assessments have been addressed based on a recommendation we made in December 2015.

However, other improvements need to be made. For example, while DOD’s October 2016 strategic plan provides an overall framework for the acquisition workforce, it does not identify time frames, metrics, or projected budgetary requirements associated with key goals or strategic priorities. Further, in a February 2018 report, we recommended ways the military departments could improve how they train, mentor, retain, and ultimately select program managers—a critical acquisition career field—based upon practices used by leading organizations. The military departments agreed with those recommendations but have not yet identified a strategy for how they will be implemented.

**Action plan: partially met.** In October 2016, DOD issued an updated acquisition workforce strategic plan which, among other things, assessed its current capacity and capability, and identified risks that DOD needed to manage to meet future needs. In addition, in September 2017, DOD issued its workforce rationalization plan. However, neither the October 2016 strategic plan nor the September 2017 workforce rationalization plan established specific targets.

Further, we reported in March 2018 that the military departments generally had not developed plans to use an annual inventory of
contracted services for workforce and budget decisions, as statutorily required. Using an annual inventory could help it make more strategic decisions about the right workforce mix of military, civilian, and contractor personnel, and better align resource needs through the budget process to achieve that mix. DOD stated in its comments on that report that it is committed to improving its inventory processes.

**Monitoring: partially met.** DOD continues to track workforce growth metrics, as well as education and training metrics, on a quarterly basis. DOD acknowledged that it will need to develop and implement other metrics to track progress toward meeting the goals identified in its October 2016 strategic workforce plan, including those related to shaping the future acquisition workforce.

**Demonstrated progress: partially met.** Metrics tracked by DOD provide evidence that DOD is sustaining the size of the acquisition workforce and making progress in improving the workforce quality. DOD has not, however, verified that the current composition of the workforce will meet its future requirements. Until DOD develops metrics to track progress associated with shaping the future acquisition workforce, such as workforce targets as a whole or by specific career fields, it will not be able to demonstrate that their strategic workforce planning efforts and associated initiatives are successful.

**What Remains to Be Done**

As of November 2018, 14 recommendations related to this high-risk area had not been implemented. To help ensure DOD’s acquisition workforce has sufficient capacity and capability to meet future needs, DOD needs to

- conduct follow-up competency assessments to assess whether identified skill gaps have been closed, and
- continue efforts to improve the utility of the inventory of contracted services.

**Service Acquisitions**

Ratings for this segment have not changed since our 2017 High-Risk Report. DOD has met one criterion and made mixed progress on the other four criteria.

**Leadership commitment: met.** DOD has demonstrated sustained leadership commitment through its ongoing efforts to revise its January 2016 service acquisition instruction. This instruction established policy, assigned responsibilities, and provided procedures for defining, assessing, reviewing, and validating requirements for service acquisitions. The
instruction formalized a hierarchical approach to more strategically manage service acquisitions at both the DOD and the component level. Our August 2017 report concluded that DOD’s efforts, simply stated, were not successful, in part because it was met with strong cultural resistance to changing DOD’s traditional decentralized approach to managing services. Our prior work had cautioned that a top-down, one-size-fits-all approach may not work.

Further, our August 2017 report showed that certain commands already managed or awarded the majority of a particular service, and were more closely aligned to the commanders that are responsible for executing the mission. In turn, this finding suggested that these commands might be in a better position to strategically manage specific service portfolios. A DOD official stated that DOD expects to issue a revised instruction by early to mid-2019. Further, DOD’s Chief Management Office is assessing ways to improve how it manages service acquisitions, including aligning its portfolios with those established under the Office of Management and Budget’s (OMB’s) category management initiative.

**Capacity: partially met.** In 2013, DOD established leadership positions in the Office of the Secretary of Defense (OSD) and at the military departments that were intended to strategically manage service acquisitions by portfolio. In August 2017 we reported, however, that individuals in these positions had multiple responsibilities and limited capacity to do so. We recommended DOD reassess the roles, responsibilities, authorities, and organizational placement of these positions. DOD concurred and is rewriting its 2016 service acquisition instruction to address our recommendation, among other things.

**Action plan: not met.** DOD does not have a comprehensive action plan but has or is undertaking a number of specific efforts to improve how it acquires services. These efforts, however, have produced limited results. For example, DOD’s January 2016 services acquisition instruction required that OSD-level leaders for each portfolio of services develop appropriate metrics to actively manage and report improvements in service acquisition. Similarly, senior leaders at the component level were to use portfolio metrics and data to effectively monitor cost and post-award performance to improve the efficiency and effectiveness of the contracted services. Further, the instruction developed a process to implement Services Requirements Review Boards to prioritize and approve services in a portfolio-based manner, but we found that they had minimal effect on supporting trade-off decisions within and across service portfolios or helping inform budgeting decisions. DOD is revising its instruction, in part to address these issues, which it hopes to issue by early- to mid-2019.

As part of its ongoing efforts, DOD intends to align its services portfolios with OMB’s category management initiative, which is intended to
streamline and manage entire categories of spending across the
government more like a single enterprise. DOD has established goals and
metrics associated with the use of OMB’s designated “best-in-class”
contracting vehicles (contracting vehicles recommended for agency use)
and the amount of services that it considers to be strategically managed.
DOD is also assessing ways to include its projected spending on services
in its future-years defense plan, which we recommended in 2016.
Relatedly, Congress has mandated that, effective October 2021, DOD
include certain information on amounts requested for services contracts in
the future-years defense program.

**Monitoring: partially met.** Because DOD lacks an action plan and
cannot determine how future budgetary requirements are affected by its
ongoing initiatives, it is not yet positioned to fully assess its progress in
improving service acquisition overall. DOD is monitoring, however, its use
of best-in-class vehicles and the amount of services it considers to be
strategically managed under the category management initiative.

**Demonstrated progress: partially met.** While DOD’s fiscal year 2018
performance results are not expected to be finalized until January 2019, a
DOD official reported that DOD expects that it will meet OMB’s target that
nearly $60 billion in DOD contract obligations would be considered to be
strategically managed, but will fall short of OMB’s target that about $12
billion would be obligated under OMB’s designated best-in-class vehicles.

What Remains to Be Done

As of November 2018, 10 recommendations related to this high-risk area
had not been implemented. To improve the acquisition of services, DOD
needs to

- define desired outcomes for service acquisitions by establishing goals
  and measures and obtaining data needed to measure progress;
- ensure that components revise their requirements review processes so
  that service acquisitions are prioritized and approved in a
  comprehensive, portfolio-based manner;
- reassess the roles, responsibilities, and organizational placement of key
  leadership positions as it revises its January 2016 instruction; and
- establish milestones to measure progress toward achieving the statutory
  requirement to include projected spending on services in its future-years
  defense program.
For this segment, the monitoring criterion improved to met since our 2017 High-Risk Report. The ratings for the other four criteria remain unchanged.

**Leadership commitment: met.** DOD continues to demonstrate sustained commitment and strong leadership support in addressing OCS issues. For example, in August 2018, the Joint Requirements Oversight Council issued an OCS memorandum approving 15 critical actions to institutionalize OCS across DOD, strengthen DOD’s ability to perform OCS, and ensure OCS contributes to all phases and ranges of joint military operations. DOD transitioned OCS responsibilities of the Deputy Assistant Secretary of Defense (Program Support) to the newly established Office of the Deputy Assistant Secretary of Defense (Logistics) in the summer of 2018. DOD officials stated that this change was due to the reorganization of the Office of the Under Secretary of Defense (Acquisition, Technology, and Logistics).

Moving forward, it will be important for DOD to demonstrate that this reorganization supports a continued commitment to OCS at the level of senior leadership. DOD officials stated in November 2018 that the Functional Capabilities Integration Board would still serve as the governance forum for OCS issues. DOD is in the process of revising and expanding the board’s charter, which it anticipates completing in 2019.

**Capacity: partially met.** DOD continues to face challenges in OCS capability shortfalls that create risk to operational effectiveness, timelines, and resource expenditures, and prevent DOD from reaching full OCS capacity. However, efforts are underway to address these shortfalls. For example, one of the 15 critical actions identified in the August 2018 Joint Requirements Oversight Council memorandum is the development of a functional competency model to capture OCS skill sets that according to DOD will be used to inform DOD-wide budgeting and manpower decisions.

**Action plan: met.** In September 2017, DOD issued its fifth OCS Action Plan, which is organized around 10 capability gaps that needed to be closed to institutionalize OCS capability. The action plan is DOD’s primary mechanism for measuring progress toward closing the capability gaps.

**Monitoring: met.** DOD monitors and documents progress against the OCS Action Plan’s identified tasks and goals. Because of these efforts, DOD has now met the monitoring criterion. In addition, DOD adjusted certain approaches to allow it to better gauge progress. For example, in
our 2017 High-Risk Report, we reported that some of the subtasks in a Joint Staff annex supplementing the 2016 OCS Action Plan were not clearly defined and would be difficult to monitor. In response, the 2017 action plan noted that those efforts would be addressed directly under a logistics working group that would track performance measures. To better integrate OCS into guidance, the 2017 OCS Action Plan identified a new effort to develop and implement procedures to analyze, update, and create tools to support integration of OCS data into (1) planning and deployment systems, and (2) training on accessing and using OCS data.

**Demonstrated progress: partially met.** DOD continues to make progress in addressing recommendations we have previously identified as high priority. For example, DOD issued a directive-type memorandum in April 2018 that identified several key DOD offices to jointly develop comprehensive, department-wide vendor vetting guidance, among other things. A dedicated working group is developing the guidance.

Additionally, DOD is revising instructions detailing how OCS should be integrated into plans and training, among other things. Senior DOD officials expect to issue the instruction in 2019. Moreover, in response to our recommendation that the military departments develop OCS guidance, the Army, Air Force, Navy, and Marine Corps have done so.

**What Remains to be Done**

As of November 2018, 17 recommendations related to this high-risk area had not been implemented. To enhance DOD’s ability to effectively manage OCS for current and future operations, DOD needs to

- address identified OCS capability shortfalls,
- develop comprehensive vendor vetting guidance, and
- integrate lessons learned into existing OCS guidance.

**Related GAO Products**


The Internal Revenue Service (IRS) needs to increase its capacity to implement new initiatives, improve ongoing enforcement and taxpayer service programs, and combat identity theft refund fraud.

**Why Area Is High Risk**
This high-risk area, added to the list in 1990, comprises two pressing challenges for IRS—addressing the tax gap and combatting IDT refund fraud. In 2016, IRS estimated that the average annual net tax gap, the difference between taxes owed and taxes paid on time, was $406 billion, on average, for tax years 2008-2010. IRS enforcement of the tax laws helps fund the U.S. government by collecting revenue from noncompliant taxpayers and, perhaps more importantly, promoting voluntary compliance by giving taxpayers confidence that others are paying their fair share.

IDT refund fraud occurs when an identity thief files a fraudulent tax return using a legitimate taxpayer’s identifying information and claims a refund. IRS estimates that at least $12.2 billion in individual IDT tax refund fraud was attempted in 2016, of which it prevented at least $10.5 billion (86 percent). Of the amount attempted, IRS estimated that at least $1.6 billion (14 percent) was paid.

**Contact Information**
For additional information about this high-risk area, contact James R. McTigue, Jr. or Jessica Lucas-Judy at 202-512-9110 or mctiguej@gao.gov or lucasjudyj@gao.gov

Since our 2017 High-Risk Report, ratings for all five criteria remain unchanged. IRS continues to demonstrate top leadership commitment for improving tax compliance and has made strides in improving tax gap data. The agency has also taken steps to address identity theft (IDT) refund fraud through continued development and deployment of the Return Review Program (RRP), a system which screens returns for potential IDT and other refund fraud before IRS issues refunds.

However, IRS’s capacity to implement new initiatives, carry out ongoing enforcement and taxpayer service programs, and combat IDT refund fraud remains a challenge. IRS continues to take actions toward meeting three other criteria for removal from our High-Risk List: developing a corrective action plan, monitoring, and demonstrating progress.

**Addressing the Tax Gap**

**Leadership commitment: met.** IRS adopted a more strategic approach to identifying and selecting budget program priorities, among other steps. For instance, IRS’s fiscal year 2018-2022 strategic plan includes a goal to facilitate voluntary compliance and deter noncompliance that could help address the tax gap.

**Capacity: not met.** IRS continues to face capacity challenges because it does not calculate return on investment estimates for each enforcement activity.
program—information IRS could use to inform resource allocation decisions. IRS has also not evaluated the costs and benefits of expanding RRP to address more tax enforcement activities, such as underreporting and noncompliance more broadly. Moreover, IRS still faces challenges for implementing new initiatives and carrying out ongoing enforcement and taxpayer service programs under an uncertain budgetary environment.

**Action plan: partially met.** IRS has a strategic plan that discusses general approaches to make voluntary compliance easier for taxpayers and to ensure taxes owed are paid. However, in some areas, the strategic plan does not include specific efforts for improving compliance. In addition, IRS has not documented a comprehensive strategy that shows how it intends to use National Research Program (NRP) data to develop or improve compliance strategies. IRS collects data through NRP audits to measure and report tax compliance for different types of taxes and taxpayers.

**Monitoring: partially met.** IRS continues to use tax gap data to study compliance behaviors and update formulas designed to identify tax returns with a high likelihood of noncompliance. In addition, the Large Business and International division is implementing a new approach to compliance that focuses on specific issues, such as partnerships that underreport certain types of income. However, IRS does not adequately measure the effect of some compliance programs, such as those used for large partnerships, because it has not clearly defined them, tracked the results from auditing such entities, or analyzed how to better use audit resources for these types of returns.

**Demonstrated progress: partially met.** IRS implemented some corrective measures to improve compliance and reduce the tax gap, including its use of RRP to screen individual returns claiming refunds, but more work remains to meet this criterion. IRS also lacks specific quantitative goals to reduce the tax gap or improve voluntary compliance. Without long-term, quantitative voluntary compliance goals and related performance measures, it will be more difficult for IRS to determine the success of its strategies.

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**What Remains to Be Done**

Over the years since we added this area to our high-risk list, we have made numerous recommendations related to this high-risk issue, 103 of which were made since the last high-risk update in February 2017. As of December 2018, 189 recommendations are open. IRS should implement all of our recommendations on improving audit effectiveness and resource investments, such as:

- re-establishing goals for improving voluntary compliance and developing and documenting a strategy that outlines how it will use its data to update compliance strategies that could help address the tax gap,
Enforcement of Tax Laws

Congressional Actions Needed

Given that the tax gap has been a persistent issue, reducing the tax gap will require targeted legislative actions, including additional third-party information reporting, enhanced electronic filing, math error authority, and paid preparer regulation. Specifically, Congress should consider:

- expanding third-party information reporting to IRS, which could increase voluntary tax compliance. For example, reporting could be required for certain payments that rental real estate owners make to service providers, such as contractors who perform repairs on their rental properties, and for payments that businesses make to corporations for services;
- requiring additional taxpayers to electronically file tax and information returns to help IRS improve compliance efficiency;
- providing IRS with authority—with appropriate safeguards—to correct math errors and to correct errors in cases where information provided by the taxpayer does not match information in government databases, among other things, could help IRS correct errors and avoid burdensome audits and taxpayer penalties; and
- establishing requirements for paid tax return preparers to help improve the accuracy of the tax returns they prepare.

Ratings for this segment of the high-risk area remain unchanged since our previous High-Risk Report in 2017, with IRS meeting two criteria and partially meeting the other three.

Leadership commitment: met. IRS has demonstrated leadership commitment in addressing IDT refund fraud. For example, IRS has taken significant actions to facilitate information sharing with states and industry partners through the Identity Theft Tax Refund Fraud Information Sharing and Analysis Center.

Capacity: partially met. In October 2016, IRS began operating RRP as its primary pre-refund system for detecting IDT and other refund fraud, automating some of IRS’s manual processes for screening returns, and identifying fraud schemes. Although IRS can adjust RRP during the filing season to respond to emerging threats or other concerns, IRS’s ability to combat IDT fraud continues to be challenged as a result of large-scale
cyberattacks on various entities. However, identity theft refund fraud is an evolving and costly problem, the risks of which have increased as more personally identifiable information has become readily available.

**Action plan: met.** IRS has a strategic plan that identifies refund fraud and IDT as major challenges facing the nation’s tax system over the next several years. IRS has also identified several strategic objectives relevant to its efforts to combat IDT. Further, IRS is using RRP to automatically detect IDT and other refund fraud in individual returns, and is working to expand RRP to detect fraud in business returns.

**Monitoring: partially met.** Following a security breach with the Get Transcript program, IRS changed its authentication procedures for affected taxpayers and has prevented a total of about $591 million in fraudulent payments between fiscal years 2015 through 2017. In addition, RRP prevented about $4.4 billion in invalid refunds during the 2017 filing season. However, in July 2018 we found ways to improve and expand the program—such as increasing the amount of data available, including loading W-2 data into it more frequently and digitizing paper returns. As we reported in June 2018, IRS also lacks internal controls to effectively monitor telephone, in-person, and correspondence authentication.

**Demonstrated progress: partially met.** IRS has demonstrated some progress by developing tools and programs to further detect and prevent IDT refund fraud, such as RRP, which uses advanced analytic techniques and business rules to compare taxpayer-reported information to W-2s. IRS has also improved telephone authentication procedures and enhanced its authentication efforts for some online services by requiring a multi-factor process using the Secure Access platform. However, in June 2018 we reported that IRS could further demonstrate progress by updating its authentication procedures to be in compliance with new government standards. Further, IRS has not articulated priorities for its foundational authentication initiatives or the resources it will require to complete them, sufficiently assessed and monitored risks, or developed a comprehensive process to evaluate potential new authentication technologies and approaches. As a result, IRS may be missing an opportunity to implement the most secure, robust technologies to protect taxpayers.

**What Remains to Be Done**

IRS should implement all of our recommendations for addressing IDT refund fraud, including:

- finding ways to improve and expand RRP, such as increasing the frequency at which incoming W-2 information is available to the program;
- assessing the benefits and costs of additional uses and applications of W-2 data for pre-refund compliance checks, such as other fraud or noncompliance before issuing refunds;
prioritizing foundational authentication initiatives and the resources required to complete them; and

developing a comprehensive process to identify and evaluate alternative options for improving taxpayer authentication.

Congressional Actions Needed

Given that IDT refund fraud has been an ongoing issue, combating it will require targeted legislative actions, including:

• requiring that returns prepared electronically but filed on paper include a scannable code printed on the return to better leverage RRP’s capabilities; and

• providing the Secretary of the Treasury with the regulatory authority to lower the threshold for electronic filing of W-2s from 250 returns annually to between 5 to 10 returns, as appropriate.

Related GAO Products


The Centers for Medicare & Medicaid Services (CMS) made some progress reducing improper payments but needs to take further action to address Medicare’s financial and oversight challenges.

Since our 2017 High-Risk Report, Medicare program officials have continued to address challenges in managing the program better. First, CMS has made progress in addressing improper payments. Specifically, CMS has demonstrated it is now meeting the capacity criterion, has maintained its leadership commitment to addressing Medicare improper payments, and partially meets the remaining three criteria.

The Medicare program has faced challenges in three additional broad segments—(1) payments, provider incentives, and program management under Medicare fee-for-service (FFS); (2) Medicare Advantage (MA) and other Medicare health plans; and (3) design and oversight of the Medicare program and the effects on beneficiaries. We are not rating CMS’s progress against the high-risk criteria for the remaining three segments for two main reasons. First, the Medicare program is subject to frequent legislative updates to provider payments and other policies. This active congressional participation in the details of the program means that many factors are outside of the agency’s control. Second, the Medicare program is in a profound state of transition from a payment system that rewards providers based on the volume and complexity of health care services they deliver to one that ties payments to the quality and efficiency of care. While this shift ultimately may save money and lead to beneficiaries receiving better care, it may be several years before we can judge the results.

Since we added Medicare to our High-Risk List in 1990, we have made more than 700 recommendations related to this high-risk area, 28 of which were made since the last high-risk update in February 2017. As of December 2018, more than 80 recommendations remain open.
Since our 2017 High-Risk Report, the capacity criterion has progressed from partially met to met and ratings for the remaining four criteria remain unchanged.

**Leadership commitment: met.** CMS has continued to demonstrate leadership commitment by naming a new Director for the Center for Program Integrity (CPI)—CMS’s centralized entity for Medicare and Medicaid program integrity issues—and implementing some of our recommendations. In December 2017, we reported CMS has committed to reducing fraud—one source of improper payments—by creating an organizational culture and structure conducive to fraud risk management.

**Capacity: met.** CPI’s budget and resources have increased over time, and the agency has established work groups and interagency collaborations to extend its capacity. For example, CMS allocated additional staff to CPI after Congress provided additional funding. CPI’s full-time equivalent positions increased from 177 in 2011 to 419 in 2017. In August 2017, we reported CMS’s Fraud Prevention System, which analyzes claims to identify health care providers with suspect billing patterns, has also helped speed up certain investigation processes. Further, the Healthcare Fraud Prevention Partnership has helped improve information sharing among payers inside and outside of the government.

**Action plan: partially met.** CMS continues to identify and report progress on corrective actions related to Medicare improper payments. It reported this progress in the Department of Health and Human Services’ (HHS) annual Agency Financial Report and started a Medicare FFS action plan based on our suggestions. However, work remains to be done to meet this criterion. As of October 2018, CMS’s action plan had yet to include clear metrics and timeframes as we suggested, and does not address MA—the private plan alternative to FFS, or Medicare Part D—the outpatient prescription drug program. In addition, as we reported in December 2017, CMS has neither conducted a complete fraud risk assessment nor created a risk-based antifraud strategy for Medicare. This strategy, if implemented, would allow the agency to better ensure it is addressing the full portfolio of risks and strategically targeting the most significant fraud.

**Monitoring: partially met.** CMS made progress to improve monitoring in some areas, such as its oversight of Medicare provider education efforts. However, to make further progress, CMS needs to implement our open recommendations related to overseeing its enrollment screening process and evaluating Medicare Administrative Contractor effectiveness in
preventing improper payments. CMS should also monitor metrics developed for its improper payment action plan.

**Demonstrated progress: partially met.** Estimated improper payment rates declined more than one percent from fiscal year 2016 to 2018 for all parts of Medicare—to 8.12 percent, 8.10 percent, and 1.66 percent for FFS, MA, and Medicare Part D, respectively. However, according to the Office of Management and Budget, the rate and amount of improper payments made in Medicare still represent some of the highest in the government. Many of our recommendations that could further lower these rates remain open. For example, CMS has not implemented recommendations to improve MA improper payment recovery or sought legislative authority to permit payment for recovery auditors to conduct prepayment claims reviews. Reviewing Medicare claims before payment can prevent improper payment. Further, CMS made some progress implementing recommendations related to expanding the use of prior authorizations based on our April 2018 report. However, CMS has yet to fully implement prior authorization expansion to additional items and services with high improper payment rates.

### What Remains to Be Done

To better prevent, identify, and recover improper payments across all parts of the Medicare program, CMS should fully implement our open recommendations related to Medicare program integrity. CMS should:

- seek legislative authority to allow the Recovery Auditors to conduct prepayment reviews in addition to postpayment claims reviews;
- provide Medicare Administrative Contractors—contractors that process and pay Medicare claims—with written guidance on how to accurately calculate and report savings from prepayment claim reviews;
- improve the processes for selecting contracts to include in its risk adjustment data validation audits—audits of MA organizations that help CMS recover improper payments in cases where beneficiary diagnoses are unsupported by medical records;
- take steps, based on the results from evaluations, to continue prior authorization, such as by resuming paused demonstrations, extending demonstrations, or by identifying new opportunities to expand prior authorization to additional items and services; and
- provide and require fraud-awareness training to its employees, conduct fraud risk assessments, and create an antifraud strategy for Medicare, including an approach for evaluation.
As CMS progresses towards full implementation of its value-based payment system, it will be important for the agency to use reliable quality and efficiency measures and methodological approaches that maximize the number of physicians for whom value can be determined.

We have not rated this segment because (1) the Medicare program is subject to frequent legislative updates to provider payments and other policies and (2) the Medicare program is currently in a state of transition from a payment system that rewards providers based on volume and complexity of health care services to one that ties payment to the quality and efficiency of care.

**Appeals process.** In May 2016, we reported Medicare had seen significant growth in the number of appeals submitted by providers, beneficiaries, and others dissatisfied with the program’s decisions to deny or reduce payments for claims. While CMS has implemented a more efficient way to adjudicate repetitive claims as we had recommended, other recommendations regarding the appeals process remain open, as discussed later in this section.

**Medicare program management.** CMS has faced challenges managing the Medicare program, including efforts to improve program efficiency and provide better service to beneficiaries. For example, we reported in September 2016 that implementation of the Durable Medical Equipment, Prosthetics, Orthotics, and Supplies Competitive Bidding Program had resulted in Medicare savings, and available evidence did not indicate widespread effects on beneficiary access; however, stakeholders have reported some specific access issues, such as difficulty locating contract suppliers that will furnish certain items. CMS suspended its competitive bidding program as of January 1, 2019, to further assess concerns raised by stakeholders and to determine whether changes were needed to improve the program’s overall effectiveness.

**Hospital value-based purchasing program.** The Hospital Value-Based Purchasing program provides financial incentives to acute-care hospitals to provide efficient, high-quality care to Medicare beneficiaries. In June 2017, we reported some hospitals with high efficiency scores received bonuses despite having relatively low quality scores. This contradicts CMS’s intention to reward high-quality care provided at a lower cost. We have an open recommendation related to the hospital value-based purchasing program, discussed later in this section.

**Cancer hospitals.** Unlike teaching hospitals paid under Medicare’s prospective payment systems (PPS), the methodology for paying PPS-exempt cancer hospitals (PCH) provides little incentive for efficiency. In our February 2015 report, we recommended Congress consider requiring Medicare to pay PCHs in the same manner it pays PPS teaching hospitals, or provide the Secretary of HHS with the authority to otherwise
modify how Medicare pays PCHs. We have an open matter related to cancer hospitals, discussed later in this section.

**Hospital-physician consolidation.** Because Medicare often pays more for services performed in a hospital outpatient department than a physician’s office, hospitals may have an incentive to acquire physician practices and hire physicians as salaried employees—a financial arrangement known as vertical consolidation. In December 2015, we reported that, from 2007 through 2013, the number of vertically consolidated hospitals increased from about 1,400 to 1,700 and the number of vertically consolidated physicians increased from 96,000 to 182,000. In our December 2015 report, we recommended Congress direct the Secretary of HHS to equalize payment rates between hospital outpatient departments and physician offices for evaluation and management office visits, and other services as appropriate. We have an open matter related to hospital-physician consolidation, discussed later in this section.

While Congress enacted legislation to exclude services furnished by off-campus hospital outpatient departments from higher payment, this exclusion does not apply to services furnished by providers under construction or billing as hospital outpatient departments prior to November 2015, or to services provided by on-campus hospital outpatient departments. However, CMS has taken some action. In November 2018, CMS issued a final rule capping payment rates for certain services furnished by off-campus hospital outpatient departments existing or under construction in 2015 at the physician fee schedule rate. Since these services furnished by these off-campus hospital outpatient departments are currently paid under a higher rate, the payment cap would equalize payment rates for clinical visits between settings. The application of the payment cap will take place over 2 years. In 2019, 50 percent of the payment reduction will be applied and in 2020 and subsequent years, 100 percent of the payment reduction will be applied. However, CMS’s authority to implement this rule has been challenged in federal district court.

**What Remains to Be Done**

We have recommended to the Secretary of HHS or CMS several actions, including the following:

- The Secretary of HHS should direct relevant agencies to modify the various Medicare appeals data systems to collect consistent data, including data on appeal categories and appeal decisions.
- CMS should revise the formula for calculating a hospital’s total performance score under the Hospital Value-Based Purchasing Program or take other actions so the efficiency score does not have a disproportionate effect on the total performance score.
We have also identified areas that would require Congressional actions to be addressed:

- In our February 2015 report, we recommended that Congress consider requiring Medicare to pay PCHs as it pays PPS teaching hospitals, or provide the Secretary of HHS with the authority to otherwise modify how Medicare pays PCHs. In doing so, Congress should provide that all forgone outpatient payment adjustment amounts be returned to the Supplementary Medical Insurance Trust Fund.

- As mentioned above, Medicare pays for evaluation and management services in all hospital outpatient departments regardless of whether they are deemed on-campus or off-campus. Congress should consider equalizing payment rates Medicare pays for certain health care services, as we suggested in December 2015, between all hospital outpatient settings, and return the associated savings to the Medicare program.

The MA program provides health care coverage to Medicare beneficiaries through private health plans. The number and percentage of Medicare beneficiaries enrolled in MA has grown steadily over the past several years, increasing from approximately 10 million (21 percent of all Medicare beneficiaries) in 2008 to about 19 million (32 percent of all Medicare beneficiaries) in 2017. Similar to the FFS program, the MA program has been in a period of transition. For example, in April 2018, CMS finalized guidance for 2019 intended to provide more flexibility to sponsors of MA plans in how they design plans, such as by expanding the types of supplemental benefits plans can offer to include services that compensate for physical impairments.

We have not rated this segment because (1) the Medicare program is subject to frequent legislative updates to provider payments and other policies and (2) the Medicare program is currently in a state of transition from a payment system that rewards providers based on volume and complexity of health care services to one that ties payment to the quality and efficiency of care.

Network adequacy. In August 2015, we reported on shortcomings in CMS’s criteria for determining network adequacy, how the agency oversees MA organizations’ adherence to its requirements, and how it ensures enrollees are properly notified about provider network changes. We have an open recommendation related to network adequacy, discussed later in this section.

MA plan payment adjustments. In January 2012 and 2013, we reported that CMS’s adjustments to account for differences between FFS and MA providers’ coding of medical diagnoses were too low, resulting in billions of excess payments to MA plans. We have an open recommendation related to MA plan payment adjustments, discussed later in this section.
Encounter data. As we reported in January 2017, CMS has begun to use encounter data—claims-like data collected from the sponsors of MA plans—in its methodology for risk adjusting payments to MA plans. While the encounter data were intended to improve the accuracy of risk adjustment, the data have yet to be fully validated. We have an open recommendation related to the encounter data, discussed later in this section.

What Remains to be Done

We have recommended to CMS several actions, including to:

- augment MA network adequacy criteria to address provider availability;
- take steps to improve the accuracy of risk score adjustments by, for example, accounting for additional beneficiary characteristics such as sex and health status; and
- (1) establish specific plans and time frames for using encounter data for all purposes other than risk adjusting payments to MA organizations; and (2) complete all the steps necessary to validate the data, including performing statistical analyses, reviewing medical records, and providing MA organizations with summary reports on findings.

Design and Oversight of the Medicare Program and the Effects on Beneficiaries

The design and CMS’s oversight of the Medicare program affect both beneficiaries’ out-of-pocket costs and the quality and safety of care they receive. Medicare FFS’s benefit design does not include a cap on the maximum cost-sharing amount a beneficiary can be responsible for during a given year for covered services, which could leave beneficiaries vulnerable to catastrophic costs, especially if they do not have supplemental insurance. In addition, Medicare spending can affect the premiums beneficiaries pay. In 2018, the Medicare Trustees estimated Medicare spending will grow at a faster rate than workers’ earnings and the economy overall, which will impose a significant burden on many Medicare beneficiaries and the country. With regard to quality, CMS reported that Medicare Quality Improvement Organizations provided oversight that helped to prevent tens of thousands of beneficiaries from being admitted or readmitted to hospitals, and reduced the number of nursing home patients with pressure ulcers or who were restrained, from fiscal years 2011 through 2014.

We have not rated this segment because (1) the Medicare program is subject to frequent legislative updates to provider payments and other policies and (2) the Medicare program is currently in a state of transition from a payment system that rewards providers based on volume and complexity of health care services to one that ties payment to the quality and efficiency of care.

End-stage renal disease. In October 2015, we reported that only a small fraction of Medicare patients had used the Kidney Disease Education
benefit, which provides pre-dialysis education intended to inform treatment decisions. Benefit utilization may be limited because of statutory limitations on the types of providers who are permitted to furnish the benefit and on the patients eligible to receive it. We have an open recommendation related to the Kidney Disease Education benefit, discussed later in this section.

**Prescription Opioids.** In October 2017, we reported that while CMS oversees the prescribing of drugs at a high risk of abuse, it does not analyze data specifically on opioids. We have three open recommendations related to prescription opioids, one of which is discussed later in this section.

### What Remains to be Done

We have recommended to CMS several actions, including to:

- examine the Kidney Disease Education benefit and, if appropriate, seek legislation to revise provider and patient eligibility criteria for the benefit; and
- take three actions related to prescription opioids, including identifying the number of at-risk beneficiaries receiving high doses of opioids.

### Related GAO Products


Strengthening Medicaid Program Integrity

The Centers for Medicare & Medicaid Services (CMS) has taken steps, but further efforts are needed to reduce improper payments, ensure the appropriate use of program dollars, and improve program data.

Why Area Is High Risk

The size, growth, and diversity of the joint federal-state Medicaid program present oversight challenges and we designated Medicaid a high-risk program in 2003. Since then, we have made more than 270 recommendations related to the program.

In fiscal year 2018, Medicaid covered an estimated 75 million low-income and medically needy individuals at a cost of $629 billion, of which $393 billion was financed by the federal government. Services are increasingly delivered through managed care, under which organizations are paid a set amount per beneficiary for care.

Our recent work highlights oversight challenges in three areas: improper payments, appropriate use of program dollars, and data. First, Medicaid improper payments represented about 9.8 percent of federal program spending—$36.2 billion—in fiscal year 2018. Second, CMS can waive certain Medicaid requirements and authorize states to incur new types of expenditures through demonstrations; as of November 2016, CMS had done so for nearly three-quarters of states. Supplemental payments—made to providers, such as local government hospitals and not linked to specific beneficiary services—grew to over $48 billion in 2016, the most recent year for which data are available. Third, CMS’s oversight of Medicaid often relies on state-reported expenditure and utilization data. Incomplete and inconsistent state data complicate program oversight.

Contact Information

For additional information about this high-risk area, contact Carolyn L. Yocom at (202) 512-7114 or yocomc@gao.gov.

Improper Payments

Since our 2017 High-Risk Report, we have increased one of the five criteria.

Leadership commitment: met. CMS has shown an increased commitment to oversight of improper payments. In June 2018, CMS communicated the agency’s strategy for improving program integrity, including plans for a number of new and enhanced efforts to detect and respond to improper payments. For example, the strategy highlighted a commitment to...
enhanced auditing efforts and monitoring compliance with new managed care rules established in 2016. Further, CMS has taken important steps towards coordinating oversight with state auditors as a means of expanding its oversight of improper payments.

**Capacity: partially met.** CMS has taken actions to enhance the resources and guidance available to states for program integrity purposes. Based on its reviews of states’ program integrity activities, CMS has targeted high-risk areas in each state, including managed care, and expanded federal-state collaborative audits to include Medicaid managed care organizations (MCO). In 2018, CMS reported working to improve federal-state collaborative audits, such as by meeting with all states to discuss how operational audit issues will be handled moving forward, including planning for new collaborative audits. However, efforts to date do not ensure CMS can estimate an improper payment rate for managed care that reflects all program risks. Additionally, as we reported in July 2018, impediments to conducting audits of managed care—such as a focus on states with certain provisions around overpayments in MCO contracts—continue.

**Action plan: partially met.** In June 2018, CMS outlined a strategy to reduce Medicaid improper payments, including plans to check the accuracy of MCO’s financial statements, assist states with screening Medicaid providers, and initiate audits of certain state beneficiary eligibility determinations. If fully implemented, these steps could address some of the concerns we raised in January 2017 and May 2018. However, CMS has not detailed the scope and timing of this strategy. For example, the strategy does not include how many states will be part of the targeted audits for MCO financial statements nor does it specify implementation dates.

**Monitoring: partially met.** Our work has detailed concerns related to the accuracy of provider eligibility and beneficiary enrollment, both of which can have an impact on CMS’s ability to monitor improper payments. To improve the effectiveness of managed care provider screening, CMS analyzed 22 databases used by MCOs and formally incorporated 6 into the agency’s provider screening process. However, efforts to enhance screening are ongoing and the agency does not require states to report MCO overpayments. Gaps also remain in CMS’s efforts to ensure that only eligible individuals are enrolled and expenditures for enrollees, mainly those eligible through the Patient Protection and Affordable Care Act expansion, are matched appropriately by the federal government.

**Demonstrated progress: partially met.** CMS’s overall estimated Medicaid improper payment rate declined from 10.5 percent in fiscal year 2016 to 9.8 percent in fiscal year 2018. This rate is comprised of three components: (1) fee-for-service (FFS) payments to providers, (2) payments to MCOs, and (3) the accuracy of beneficiary eligibility
determinations. The FFS component of the error rate is 14.3 percent, primarily due to state’s non-compliance with provider screening, enrollment, and identification requirements. The reduction in the overall error rate occurred as spending shifted from FFS to managed care, where estimates of improper payments—at 0.22 percent in 2018—do not account for all program risks. In particular, CMS’s estimates of MCO improper payments do not include a medical review of services or reviews of MCO records or data, which likely minimizes the appearance of program risks in Medicaid managed care. The beneficiary eligibility component of the error rate is 3.1 percent, a rate that CMS has not updated since 2014, raising further questions regarding the accuracy of the overall rate. CMS plans to resume eligibility component measurement in 2019.

What Remains to Be Done
Since designating Medicaid as a high-risk area in 2003, we have made at least 45 recommendations related to improper payments, 17 of which were open as of November 2018. To reduce improper payments, CMS needs to:

- mitigate program risks not measured through its estimate of MCO improper payments, such as overpayments and unallowable costs—such efforts could include actions such as revising the payment error rate methodology or focusing additional audit resources on managed care;
- expedite the issuance of planned guidance on MCO program integrity, address impediments to MCO audits, and ensure states account for overpayments when setting future payment rates; and
- review federal determinations of Medicaid eligibility for accuracy, use the information obtained from the eligibility reviews to inform expenditure reviews, and increase assurances that expenditures for different eligibility groups are correctly reported and appropriately matched.

Appropriate Use of Medicaid Dollars
We are rating this segment for the first time. CMS has taken important steps—such as improved reporting of payments and steps to mitigate federal financial exposure—to better ensure the appropriate use of Medicaid dollars. Our work has identified risks—and potential actions to mitigate these risks—related to oversight of demonstration spending under section 1115 of the Social Security Act, supplemental payments, and Medicaid expenditures more broadly.

Leadership commitment: partially met. With respect to demonstrations, CMS began implementing a policy in 2016 that significantly improves efforts to assure demonstrations are budget neutral—that is, that the
demonstration does not increase federal costs. Further, as we previously recommended in June 2013 and April 2017, the agency issued guidance to states in August 2018 articulating the agency’s budget neutrality policy, which improves transparency in how CMS approves demonstration spending limits and consistency in oversight of demonstration spending. However, additional policy changes are needed to address other questionable methods—particularly relying on hypothetical rather than actual expenditures—used to set spending limits and to provide policymakers with timely findings from evaluations of demonstrations.

With regard to supplemental payments—payments made to providers such as local government hospitals and other providers in addition to claims-based payments—CMS anticipates issuing a proposed rule in early 2019 designed to increase transparency by establishing new requirements for states. However, until CMS issues a final rule, its potential effect on program integrity efforts will remain unclear.

**Capacity: partially met.** With regard to demonstrations, CMS actions show promise, but are, to date, incomplete. As of November 2018, CMS had developed a standard reporting tool to ensure that states consistently report the data elements needed for CMS to assess compliance with demonstration spending limits and was beginning to test this tool. The agency also was developing procedures for CMS staff to consistently track spending compared with spending limits. Until these procedures are fully implemented, the impact on oversight of demonstrations remains unclear.

With regard to supplemental payments, as of November 2018, CMS had issued letters to some states clarifying that the distribution of supplemental payments must be linked to the provision of Medicaid-covered services. Because supplemental payments are not linked directly to services for beneficiaries, there is risk that they may not be made for Medicaid activities or services. CMS has not taken action on our recommendation that the agency issue guidance on the appropriate distribution of supplemental payments to all states, nor has it issued other needed guidance, including criteria to assure that payments meet statutory requirements.

With regard to oversight of states’ reported expenditures and in response to our findings, CMS plans to conduct a national assessment of whether oversight resources are adequate and target areas of greatest risk. This is critical, as the complexity of expenditure reporting has increased while staff resources used to review states’ expenditures has decreased, thus hindering CMS’s ability to target risk and protect federal and state dollars.

**Action plan: partially met.** With respect to demonstrations, the agency has issued guidance to states in 2017 and 2018 with the intent to improve efforts to ensure demonstrations are budget neutral and effectively
evaluated. However, this guidance addresses some, but not all, of the concerns we raised in January 2018 about how CMS sets spending limits and evaluates demonstrations. For example, CMS has not yet implemented its plan to establish written procedures for all states to submit a final evaluation report at the end of each demonstration cycle, nor has it established criteria for when the agency will allow limited evaluations. Further, CMS has not made progress with regard to an action plan for improving its oversight of supplemental payments.

**Monitoring: partially met.** For demonstrations, CMS has begun assessing the effect of its new budget neutrality policy with the renewal of each demonstration. Agency officials told us that CMS has developed a reporting tool for states that will allow for monitoring of the policy over time. Until CMS implements the tool, it will lack the data it needs to effectively monitor this new policy.

For supplemental payments, CMS has taken action when we and others identified questionable payments (payments where the appropriateness of the amounts or use of funds were questionable). CMS reviewed excessive payments we identified in April 2015 in New York and made retroactive payment reductions totaling more than $1.5 billion, of which the federal share was about $771 million. However, CMS continues to lack a strategy for systematically identifying questionable payments.

**Demonstrated progress: partially met.** CMS has not made significant progress towards improving its oversight of supplemental payments, for which reporting remains incomplete. With regard to oversight of demonstration spending, CMS estimated its budget neutrality policy reduced total demonstration spending limits by $109 billion for 2016 through 2018, the federal share of which is $62.9 billion. Another component of that policy does not take effect until 2021 and will be implemented as demonstrations come up for renewal—which should further reduce federal liabilities.

**What Remains to Be Done**

Since designating Medicaid as a high-risk area in 2003, we have made at least 55 recommendations related to the appropriate use of program dollars, 18 of which were open as of November 2018. CMS needs to take the following steps to better assure the appropriate use of Medicaid dollars:

- address questionable methods—particularly relying on hypothetical rather than actual expenditures—used to set demonstration spending limits, develop and document standard operating procedures for monitoring spending under demonstrations, assure timely state evaluation of demonstrations, and develop a policy for publicly releasing findings from federal evaluations of demonstrations;
ensure complete and accurate reporting on supplemental payments made to individual hospitals and institutional providers, as well as the sources of funds states use to finance their share of Medicaid payments; outline clear criteria, data, and a review process to ensure supplemental payments are economical and efficient; and write guidance clarifying its policy that requires a link between the distribution of supplemental payments and Medicaid-covered services; and

- complete a risk assessment and take steps, as needed, to assure that resources to oversee expenditures reported by states are adequate and allocated according to risk.

Congressional Actions Needed

Congressional action could improve oversight of Medicaid expenditures, particularly related to supplemental payments and demonstrations:

- Congress should consider establishing statutory requirements for the Secretary of the Department of Health and Human Services to improve the demonstration review process to more clearly outline the methods used to demonstrate budget neutrality, and

- Congress should consider broadening supplemental payment requirements around reporting and auditing to include all types of supplemental payments.

We are rating the Medicaid data segment for the first time. CMS has taken steps to improve data quality across the Medicaid program, primarily through a re-envisioning of states’ data reporting. However, CMS needs to take additional steps to ensure data quality and specify how and when it will use improved data for oversight. Accurate and complete data on beneficiary access and use of services and the costs of providing such services are critical to effectively managing and overseeing this multibillion dollar program.

Leadership commitment: partially met. CMS has made progress in improving Medicaid data through the ongoing implementation of the Transformed Medicaid Statistical Information System (T-MSIS). As of June 2018, all states, the District of Columbia, and Puerto Rico were submitting at least some T-MSIS data. However, we reported in December 2017 that these data were not complete, nor were they comparable across states. We recommended CMS take steps to expedite the use of T-MSIS data for oversight. CMS noted in July 2018 that its primary goal is to improve data quality, and more work is needed before it can use these data for oversight.
Strengthening Medicaid Program Integrity

**Capacity: partially met.** The 2016 managed care final rule includes several requirements that could improve the reliability of state-collected MCO utilization data, known as encounter data. These requirements include requiring states to conduct an independent audit of the encounter data reported by each MCO, providing CMS with an annual assessment of these data, and validating data reliability. However, it remains unclear whether state efforts to validate encounter data will be sufficient, in part because CMS has not provided minimum standards to states for doing so.

**Action plan: not met.** CMS needs to develop an action plan for using quality program data for program oversight. In December 2017, we recommended CMS articulate a plan and associated time frames for using T-MSIS data for oversight. The agency concurred, but has yet to specify such a plan. It notes the use of these data for oversight is contingent upon ongoing CMS and state efforts to ensure their quality. Similarly, in January 2017, we recommended CMS develop a plan for using data on personal care services (PCS)—assistance with activities of daily living such as bathing, dressing, and toileting, for beneficiaries with limited ability to care for themselves—to inform oversight efforts. CMS has yet to develop this plan.

**Monitoring: partially met.** In February 2018, CMS issued guidance on Medicaid PCS reported by states, which suggests that states include key data elements in PCS claims reported through T-MSIS and could address information gaps we identified. T-MSIS also includes data elements for states to report provider-specific supplemental payments, which CMS did not previously collect. However, we reported in December 2017 that several selected states were not reporting all these data elements. Without complete information, CMS’s oversight of PCS and supplemental payments will be limited.

**Demonstrated progress: partially met.** The ongoing implementation of T-MSIS has been a significant, multi-year effort. With all states now reporting at least some T-MSIS data, CMS is focused on assessing and improving data quality. CMS identified 12 top priority items and issued a State Health Official letter in August 2018 that informed states they are expected to resolve data quality issues related to these priority items within 6 months. CMS stated that it will request states that do not meet this time frame to submit a corrective action plan. CMS also noted that it intends to expand data reviews beyond the 12 top priority items, but has not specified a time frame for completing this and other data quality efforts or its plans for using these data for oversight.

**What Remains to be Done** Since designating Medicaid as a high-risk area in 2003, we have made over 35 recommendations related to Medicaid data, 13 of which were
To improve the quality of Medicaid data for use in program oversight, CMS needs to:

- provide states with guidance that includes minimum standards for encounter data validation procedures;
- provide states with information on scope and methodology requirements for MCO encounter data audits, required content of the annual assessment report, and circumstances for deferring or disallowing matching funds in response to noncompliant encounter data submissions; and
- continue efforts to assess and improve T-MSIS data, such as refining the overall data priority areas to identify those variables most critical for reducing improper payments, and articulate specific plans and associated timeframes for using T-MSIS data.

Related GAO Products

Medicaid Managed Care: Additional CMS Actions Needed to Help Ensure Data Reliability. GAO-19-10. Washington, D.C.: October 19, 2018


Improving and Modernizing Federal Disability Programs

Management attention and efforts are needed across the government to ensure that disability programs provide benefits in a timely manner, reflect current ideas about disability, and achieve positive employment outcomes.

Why Area Is High Risk

An estimated one in six working-age Americans reported a disability in 2010. Many of these Americans need help finding or retaining employment, or rely on cash benefits if they cannot work. However, federal disability programs struggle to meet their needs.

Three of the largest federal disability programs—two managed by SSA and one by VA—dispensed about $270 billion in cash benefits to 21 million people with disabilities in fiscal year 2017. Both agencies struggle to manage their workloads, specifically appealed claims.

In addition, when determining whether individuals qualify for disability benefits, SSA and VA rely on outdated criteria. While both agencies have efforts underway to update medical or occupational information used to make eligibility decisions, they continue to rely on information that can be decades old.

In addition to the aforementioned cash benefit programs, we previously identified over 40 programs managed by nine different agencies that provide a patchwork of employment support for people with disabilities. We reported in 2012 that these programs lacked a unified vision, strategy, or set of goals to guide their outcomes.

We designated improving and modernizing federal disability programs as high risk in 2003.

Contact Information

For additional information about this high-risk area, contact Elizabeth H. Curda at (202) 512-7215 or curdae@gao.gov.

Since our 2017 High-Risk Report, our assessment of ratings for all five criteria remains unchanged.

Both the Social Security Administration (SSA) and the Department of Veterans Affairs (VA) made mixed progress in addressing their claims workloads. Leadership of both agencies demonstrated commitment to reducing backlogs in their appeals workloads. However, these backlogs remain large, and persistent shortcomings in agency plans and capacity challenges could hinder progress.

Both SSA and VA demonstrated leadership commitment toward updating the criteria on which their disability determinations are made. However, action plans for both lack details on some necessary tasks that could result in delays in updating disability criteria now and in the future.

The Office of Management and Budget (OMB) reported that the administration is pursuing additional legislative and administrative changes and demonstration projects to increase workforce participation for people with disabilities. However, many efforts are still underway, and OMB continues to lack a larger vision for coordinating disability programs, which includes creating appropriate, government-wide goals and strategies.
Managing Disability Claims Workloads (SSA)

Since our 2017 High-Risk Report, our assessment of ratings for all five criteria remains unchanged.

**Leadership commitment: met.** SSA leadership set a goal to process appeals within 270 days by fiscal year 2022, and made reducing its disability appeals backlog a key initiative in its fiscal year 2019 annual performance plan.

**Capacity: partially met.** SSA continues to face capacity challenges in addressing its disability appeals backlog. SSA’s 2017 disability appeals plan called for increased hiring and other measures to reduce disability appeals backlogs and improve timeliness. SSA has also transferred appeals cases between offices to better utilize its capacity to make decisions. However, we reported in July 2018 that SSA lacks metrics to assess the effect of transfers on timeliness, and SSA agreed with our recommendation to implement such metrics. We also reported that SSA hiring freezes could affect its capacity.

**Action plan: partially met.** SSA’s 2017 appeals plan addresses large disability appeals workloads through improvements in information technology and business processes, and through increased hiring. However, it is too early to determine the extent to which this plan will allow SSA to achieve its goal of processing claims within 270 days. More broadly, SSA’s Vision 2025 strategic plan recognizes the need to provide a number of different service delivery methods, including online. However, in 2017 we reported that SSA had not developed performance measures for or analyzed common issues with online services. SSA agreed with our recommendations to do so, but had not completed its efforts as of January 2019.

**Monitoring: met.** SSA continues to monitor and report on the timeliness of processing its initial disability claims and appeals workloads.

**Demonstrated progress: partially met.** While SSA has seen a decline in applications for benefits in recent years, SSA’s inventory of initial disability claims increased somewhat from 523,000 at the end of fiscal year 2017 to 565,000 at the end of fiscal year 2018. The number of pending appeals declined from approximately 1.1 million at the end of fiscal year 2017 to 858,000 in fiscal year 2018, and average processing times improved from 605 days to 595 days during this same period. However, additional progress is needed if SSA is to meet its goal of processing appeals within 270 days by the end of fiscal year 2022.
What Remains to Be Done

Since 2003, we have made 35 recommendations related to this high-risk segment. As of December 2018, 10 remain open.

SSA should continue to make and implement plans for managing its workloads. This includes continuing to:

- refine and implement plans to address its disability appeals backlog, and
- operationalize its long-term strategic plan to ensure that the agency is well positioned to serve its customers in the future.

Managing Disability Claims Workloads (VA)

Since our 2017 High-Risk Report, our assessment of ratings for all five criteria remains unchanged.

Leadership commitment: met. VA has maintained leadership focus on managing initial disability claims and appeals workloads through various initiatives to improve benefits processing and reduce backlogs. Enhancing and modernizing VA’s disability claims and appeals processes are goals in its 2018–2024 strategic plan.

Capacity: partially met. VA has continued building the capacity to process initial disability claims, such as using an electronic system to distribute claims ready for decisions to available staff. On appeals, VA is reforming its process, onboarding hundreds of new staff, and implementing new technology. However, as we reported in March 2018, VA’s appeals planning does not provide reasonable assurance that it will have the capacity to implement the new process and manage risks. VA agreed with our recommendation to better assess risks associated with appeals reform.

Action plan: partially met. VA continues to implement plans to reduce the initial disability claims backlog. For appeals reform, VA submitted its appeals plan in November 2017 and provided several progress reports throughout 2018. In December 2018, we reported that while VA had taken steps, it had not fully addressed our recommendations on planning the new appeals process and assessing its efficacy. As of December 2018, VA officials said they continue to address our recommendations.

Monitoring: partially met. VA monitors the timeliness of initial disability claims and legacy appeals, and has set timeliness goals for three of five appeal options under the new process. VA’s plans also signal how it intends to monitor the allocation of staff for concurrent workloads in its
legacy and new appeals processes. However, as of December 2018, VA had not established complete metrics and interim goals for all appeal options, and it was unclear how and when VA will monitor implementation and efficacy of the new appeal process.

**Demonstrated progress: partially met.** VA reported it reduced the backlog of initial disability claims from 611,000 in March 2013 to just over 85,000 in August 2018. However, VA’s Office of Inspector General reported in September 2018 that VA overstated its performance by only reporting about 79 percent of the backlog. For appeals, VA addressed some gaps in its plan for implementing appeals reform, in accordance with our 2017 and 2018 recommendations, and has prioritized processing of legacy appeals. However, as of August 2018, VA still had a backlog of over 400,000 appeals.

**What Remains to Be Done**

Since 2003, we have made 65 recommendations related to managing VA workloads. As of December 2018, 13 remain open.

VA should continue updating and implementing plans to address its initial disability claims and appeals workloads at both levels. This includes:

- maintaining focus on initial claims and appeals processing,
- ensuring VA has detailed plans for creating capacity and reforming its appeals process, including modifications to information technology systems, and
- determining how well the new process is performing relative to the legacy process.

**Updating Disability Benefit Eligibility Criteria (SSA)**

Since our 2017 High-Risk Report, ratings for the action plan criterion regressed while the other four remain unchanged.

**Leadership commitment: met.** SSA has maintained leadership focus on updating both the medical and occupational criteria used to determine eligibility for Social Security disability benefits.

**Capacity: met.** Consistent with our past recommendations in June 2012, SSA continues to leverage the Bureau of Labor Statistics to develop an occupational information system (OIS) to replace SSA’s outdated Dictionary of Occupational Titles to assist in making disability determination decisions.
Action plan: partially met. SSA has developed project plans to guide the completion of OIS and update its medical criteria now and in the future. However, we are lowering SSA’s prior rating of met to partially met. Since our 2017 high-risk update, SSA told us that it began work on its Vocational Regulations Modernization (VRM) initiative—an effort SSA says will update its vocational rules to reflect labor market changes—but has not released a plan or any supporting documentation related to VRM.

Monitoring: met. SSA continues to monitor progress toward updating its medical criteria and has a timetable against which to monitor OIS development.

Demonstrated progress: partially met. A September 2018 status report from SSA stated that the agency promulgated final regulations for 13 of the 14 body systems (listings of diseases and disorders in each part of the body) and proposed a rule for comprehensively updating the last body system. SSA also reported that, once the final rule is complete, it will begin targeting updates to body systems per its plans to review and update them every 3 to 5 years. For OIS, SSA reported it planned to complete its final year of occupational data collection in 2018, and expects to start using it in deciding disability claims in calendar year 2020.

What Remains to be Done Since 2003, we have made seven recommendations related to this high-risk segment, all of which were implemented.

SSA should continue to develop and implement plans to update its disability criteria. Specifically, SSA should:

- develop an action plan for implementing its VRM initiative that addresses when and how updates to its vocational rules will align with implementation of OIS, and
- finalize its comprehensive updates of medical criteria and begin using occupational data collected through its OIS.

Updating Disability Benefit Eligibility Criteria (VA) Since our 2017 High-Risk Report, ratings for the action plan and monitoring criteria regressed while the other three remain unchanged.

Leadership commitment: met. VA has sustained leadership focus on updating its Veterans Affairs Schedule for Rating Disabilities (VASRD)—used to assign degree of disability and compensation levels for veterans with military service-connected
injuries or conditions—to reflect advances in medicine and labor market changes.

**Capacity: partially met.** In August 2017, VA officials told us that it had taken actions to hire more staff for the regulations updates and leverage outside researchers to evaluate veterans’ loss of earnings in the current economy. However, as of September 2018, the agency was still working to hire these staff. Moreover, VA’s current earnings loss study covers only 8 of over 900 diagnostic codes and 2 of 15 body systems. VA needs to continue its current hiring and earnings loss planning efforts to ensure it has the capacity to comprehensively update the VASRD.

**Action plan: partially met.** As of August 2018, VA’s efforts to update the VASRD included new plans to conduct earnings loss studies for eight diagnostic codes under two body systems. The agency intends to determine whether its current approach for evaluating earnings loss is applicable to updating other diagnostic codes. However, we are lowering VA’s prior rating of met to partially met because its August 2018 updated plan, issued since our 2017 high-risk update, provides limited detail on key planned activities. For example, VA’s plans do not indicate how and when VA will assess the applicability of its current approach, and does not include plans for updating earnings loss information for the remaining diagnostic codes and body systems.

**Monitoring: partially met.** According to VA officials, VA continues to track its progress toward finishing the medical updates by fiscal year 2020 and has updated its project plan to reflect delayed timeframes. However, we are lowering VA’s prior rating for this criterion from met to partially met because VA’s plans have changed since our last update, and although it is conducting a study to update earnings loss information for some diagnostic codes and body systems, its plan does not include timetables for monitoring these or future updates to earnings loss information.

**Demonstrated progress: partially met.** VA reported that as of December 2018, it promulgated final regulations for 6 of 15 body systems, proposed regulations for 2, and is reviewing draft regulations for the remaining 7. However, VA has fallen about 4 years behind in its efforts to fully update the VASRD and has not completed earnings loss updates.

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**What Remains to be Done**

Since 2003, we have made three recommendations related to modernizing disability criteria, all of which were implemented.

VA should continue to develop and implement plans for updating medical criteria and earnings loss information. This includes:
ensuring sufficient resources are dedicated to this effort,

developing a viable plan for monitoring progress in updating earnings loss information, and

refining plans to revisit criteria at least once every 10 years.

Since our 2017 High-Risk Report, our assessment of ratings for all five criteria remains unchanged.

Leadership commitment: partially met. In September 2018, OMB reported that the administration is pursuing several legislative changes, administrative actions, and demonstration projects intended to either improve collaboration across multiple federal agencies or address the relatively low levels of employment of people with disabilities.

However, OMB continues to lack a larger vision for coordinating over 40 programs that support employment of people with disabilities, and establishing overarching goals to improve employment of people with disabilities in both federal and non-federal sectors.

Capacity: partially met. According to OMB, the administration has proposed continued funding for several interagency demonstration projects that have potential to inform the development of reasonable goals and measures for federal programs that support employment for people with disabilities. However, it is too early to conclude whether these demonstrations will inform government-wide goals and measures, and OMB has not indicated that it will build capacity for establishing government-wide goals and improving agency coordination.

Action plan: not met. OMB has yet to establish government-wide goals and associated plans for the employment of people with disabilities outside of the federal sector.

Monitoring: partially met. Since 2017, some progress has been made toward monitoring the hiring of individuals with disabilities in the federal sector. For example, in 2018, OMB reported that it would have sufficient data by the end of the year to assess progress toward a goal the Department of Labor set in 2013 that individuals with disabilities should comprise 7 percent of the workforce for federal contractors and subcontractors.

Demonstrated progress: partially met. While progress has been made on previous goals related to federal-sector hiring, OMB has yet to develop
government-wide goals for all federal programs that support employment of people with disabilities across all sectors.

What Remains to be Done

As of December 2018, two actions related to this high-risk segment had not been fully addressed from our 2012 annual report on opportunities to reduce fragmentation, overlap, and duplication for the federal government.

Moving forward, OMB should develop a set of unifying government-wide goals for employment of people with disabilities. OMB's efforts to this end might benefit from an action plan. In general, agencies can make progress in addressing high-risk areas by developing action plans that identify and analyze the root causes of problems, and identify critical actions and outcomes to address those root causes.

Related GAO Products


Pension Benefit Guaranty Corporation Insurance Programs

The financial stability of the Pension Benefit Guaranty Corporation’s (PBGC) single- and multiemployer programs faces many structural challenges that require congressional action.

Why Area Is High Risk
With over $112 billion in assets, PBGC’s portfolio is one of the largest of any federal government corporation. Through its single-employer and multiemployer insurance programs, PBGC insures the pension benefits of nearly 37 million American workers and retirees who participate in about 24,800 private-sector defined benefit plans. PBGC’s financial future remains uncertain, due in part to a long-term decline in the number of traditional defined benefit plans and the collective financial risk of the many underfunded pension plans PBGC insures. We designated the single-employer program as high risk in 2003 and the multiemployer program in 2009. Since fiscal year 2013, PBGC’s financial deficit has increased by nearly 45 percent. At the end of fiscal year 2018, PBGC’s net accumulated financial deficit was over $51 billion—an increase of about $16 billion since 2013. The single-employer program, composed of about 23,400 plans, accounted for a surplus of $2.4 billion—an improvement of about $30 billion since 2013. The multiemployer program, composed of about 1,400 plans, accounted for a deficit of about $54 billion. In addition, PBGC estimated that its exposure to potential future losses for underfunded plans in both the single- and multiemployer programs was nearly $185 billion. According to past PBGC projections, it is nearly certain that the multiemployer program does not have the needed resources to satisfy the agency’s long-term obligations.

Contact Information
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As with our last High-Risk Report in 2017, we are not rating this high-risk area because addressing the identified issues primarily involves congressional action.

While PBGC faces a long-term challenge with its single-employer program, it faces an immediate and critical challenge with its multiemployer program. In a March 2013 report on PBGC’s multiemployer program, we recommended that Congress consider comprehensive and balanced structural reforms to reinforce and stabilize the multiemployer system.

In 2014, Congress took action to address this growing crisis by passing the Multiemployer Pension Reform Act (MPRA) that enacted several reforms responsive to our report. Specifically, MPRA provided severely underfunded plans, under certain conditions and only with the approval of federal regulators, the option to reduce the retirement benefits of current retirees to avoid plan insolvency. The act also expanded PBGC’s ability to intervene when plans are in financial distress. In addition, MPRA more than doubled the flat-rate, or per participant, premiums paid by multiemployer plans (from $12 per participant in plan year 2014 to $26 per participant in plan year 2015) and provided for future increases indexed to inflation. For plan year 2019, the per participant, flat-rate premium is $29.

Even though these reforms were intended to improve the program’s financial condition, PBGC’s projections suggest that the insolvency of the multiemployer program remains highly likely within the next 6 years. Since 2013, the agency’s net financial deficit for the multiemployer program has grown nearly sixfold (see figure 14). Prior to passage of MPRA, PBGC estimated that the multiemployer insurance fund would likely be exhausted by 2022 as a result of current and projected plan insolvencies. In February 2017, we reported that PBGC officials said that the act did not fully address the crisis in the multiemployer program. Officials predicted the act’s changes would only forestall insolvency by about an additional 3 years. As of year-end 2018, 25 multiemployer plans
submitted, under MPRA, 34 applications to suspend previously accrued and protected benefits. Of the applications submitted for Treasury review, 10 have been approved, 5 have been denied, 12 have been withdrawn, and 7 are pending review or awaiting determination.

Figure 14: Pension Benefit Guaranty Corporation’s (PBGC) Net Financial Position of the Single-Employer and Multiemployer Programs Combined, Fiscal Years 1990 through 2018

While changes were made with passage of MPRA, PBGC’s projections of the multiemployer program’s pending insolvency have become more concerning since 2017. Based on fiscal year 2017 projections, PBGC officials believe there is an over 40 percent chance that the multiemployer program will be insolvent by the year 2024. After that, the risk of insolvency rises rapidly—reaching over 90 percent by 2025 and 99 percent by 2026. If the multiemployer program becomes insolvent, participants in insolvent pension plans that receive financial assistance from PBGC will receive a small fraction of current statutory guarantees. Though guaranteed benefits depend on the years of service a participant earned through qualifying work, the maximum guarantee is currently $12,870 per year for a retiring participant that had 30 years of service. PBGC estimates that under its projection, most participants would receive less than $2,000 per year and in many cases, much less.
The Bipartisan Budget Act of 2018 established a Joint Select Committee on Solvency of Multiemployer Pension Plans. The goal of the joint committee is to improve the solvency of multiemployer pension plans and PBGC. The joint committee held five hearings on the multiemployer system and PBGC as well as how stakeholders—particularly current workers, retirees, and employers—are likely to be affected by potential insolvencies. The act tasked the joint committee, which by law was set to terminate by December 31, 2018, with voting on a report that includes any findings, conclusions and recommendations—as well as proposed legislative language to carry out any recommendations—by November 30, 2018. However, the co-chairmen of the joint committee released a statement committing to working to solve the multiemployer pension crisis past the November 30th deadline. On January 9, 2019 the chairman of the House Ways and Means Committee introduced legislation with bi-partisan co-sponsorship that would establish a new agency within Treasury that would be tasked with providing and overseeing loans to certain troubled multiemployer plans.

Although the net deficit for the single-employer program has improved significantly since we last reported, PBGC continues to face longstanding, structural funding challenges due to an overall decline in the defined benefit pension system. While tens of thousands of companies continue to offer traditional defined benefit plans, the number of single- and multiemployer plans and participants have declined significantly. Since 1985, there has been a 78 percent decline in the number of plans insured by PBGC—from about 114,400 plans to about 24,800 plans in 2018. In addition, nearly 13 million fewer workers are actively participating in these plans.

While the PBGC's single-employer program currently is in surplus, it is not certain that the program will remain in surplus into the future. Further, PBGC's net financial position is highly sensitive to prevailing economic conditions. PBGC's past experience with large claims shows that the single-employer program’s condition can change quickly and precipitously. For example, the spate of plan terminations in the airline and steel industries from 2001 through 2006 resulted in more than $20 billion of net claims. The possibility for large, future claims persists as underfunded plans sponsored by companies with credit ratings below investment grade represent $175 billion in potential exposure as of fiscal year-end 2018.

The structure of PBGC’s premium rates—a key component of its funding—has long been another area of concern. Despite periodic increases in premium rates, which are set according to statute, the premiums do not align with the multiplicity of risks PBGC insures against. Currently, plan underfunding is the only risk factor currently considered in determining a sponsor’s premium rate. Under the current premium
structure for its single-employer program, PBGC collects from sponsors a per-participant flat-rate premium and a variable-rate premium that is based on a plan’s level of underfunding. To date, no legislation incorporating additional risk factors, such as company financial health or plan investment mix, into PBGC’s premium structure has been enacted.

PBGC’s governance structure is another area of weakness noted in several of our past reports. In particular, we have long recommended that PBGC’s board—currently composed of the Secretary of the Treasury, the Secretary of Labor, and the Secretary of Commerce—be expanded to include additional members who possess diverse knowledge and expertise useful to PBGC’s mission. In addition, the National Academy of Public Administration recommended in a 2013 report to Congress that PBGC’s board be expanded if PBGC is provided greater responsibility over its policies. We have long emphasized that PBGC requires strong and stable leadership to ensure it can meet its future financial challenges.

**What Remains to Be Done**

Although Congress and PBGC have taken significant and positive steps to strengthen the agency over the past 5 years since the passage of MPRA, concerns are becoming increasingly urgent with particular respect to the multiemployer program and PBGC’s overall funding structure and governance. Also, the premium structure for PBGC’s single-employer program continues to result in rates that do not align with the risk the agency insures against. Absent additional steps to improve PBGC’s finances, the long-term financial stability of the agency remains uncertain and the retirement benefits of millions of American workers and retirees could be at risk of dramatic reductions.

**Congressional Actions Needed**

As we have previously recommended over the years since we added PBGC to the High-Risk List, Congress should consider improving the long-term financial stability of both of PBGC’s insurance programs by:

- authorizing a redesign of PBGC’s single-employer program premium structure to better align premium rates with sponsor risk;
- adopting additional changes to PBGC’s governance structure—in particular, expanding the composition of its board of directors;
- strengthening funding requirements for plan sponsors, as appropriate given national economic conditions;
- working with PBGC to develop a strategy for funding PBGC claims over the long term as the defined benefit pension system continues to decline; and
- enacting additional structural reforms to reinforce and stabilize the multiemployer system, and balance the needs and potential sacrifices of contributing employers, participants, and the federal government.
Related GAO Products


Congress should consider comprehensive reform of the National Flood Insurance Program (NFIP) to improve the program’s solvency and enhance the nation’s resilience to floods. The Federal Emergency Management Agency (FEMA) should also take steps to complete the implementation of improvements to its rate-setting methods and compensation of insurance companies, among other actions.

Since our 2017 High-Risk Report, there have been no changes to the five criteria ratings because action on open recommendations has not yet been completed by FEMA, and comprehensive reform of the program has not yet been enacted by Congress.

Leadership commitment: partially met. FEMA leadership continues to show a commitment to implementing our recommendations, for example, by eliminating some potential barriers to the private flood insurance market. FEMA also took steps to protect the program’s financial stability such as purchasing reinsurance. However, Congress has yet to enact comprehensive program reforms.

Capacity: partially met. FEMA’s capacity remains strained as it deals with multiple challenges, including responding to multiple natural disasters and implementing provisions of recent legislation and leadership changes in the flood insurance program.

Action plan: partially met. FEMA identified actions to address our recommendations and tracks outstanding recommendations through an internal controls program to guide its own efforts and provide us with status updates. For example, they track and provide us with regular updates on their efforts to update their methodology for calculating premium rates. However, FEMA lacks a comprehensive plan to address the issues that placed NFIP on our High-Risk List. Such a plan could help FEMA define causes and identify effective solutions.

Monitoring: partially met. FEMA has a process to monitor progress in implementing our recommendations, including regular discussions at FEMA and the Department of Homeland Security. However, FEMA lacks a process to evaluate the effectiveness of those actions. Additional monitoring would help ensure appropriate corrective actions are taken.

Demonstrated progress: partially met. FEMA has taken steps to implement many of our recommendations, for example, by addressing a
potential challenge to consumers who wish to purchase private flood insurance. However, FEMA’s efforts to address our recommendations in other areas are in progress or could take years to complete. For example, FEMA is in the process of updating its premium rate-setting methodology, but these changes will not begin until 2020. Congress held hearings on reforming NFIP and passed several short-term reauthorizations. However, Congress has yet to enact reforms related to the six areas we identified in April 2017 (program debt, full-risk-rates, affordability, consumer participation, private-sector involvement, and flood mitigation).

What Remains to Be Done

Over the years since we added this area to our High-Risk List, we have made numerous recommendations related to this high-risk issue. As of December 2018, 13 recommendations are open. The flood insurance program has improved in a number of areas, but to demonstrate progress, FEMA should:

- complete implementation of the Biggert-Waters Flood Insurance Reform Act of 2012 and Homeowner Flood Insurance Affordability Act of 2014,
- develop a comprehensive plan for removing NFIP from the High-Risk List,
- initiate broader monitoring of the effectiveness and sustainability of actions to implement our recommendations,
- continue ongoing efforts to improve NFIP rate-setting methods and evaluate approaches to obtain flood risk information needed to determine full-risk rates for properties with previously subsidized rates, and
- complete efforts to establish a new information technology system for NFIP.

Congressional Actions Needed

We have an open matter for Congress to consider from our April 2017 report that examined actions Congress and FEMA could take to reduce federal fiscal exposure and improve resilience to floods. We stated that Congress should consider comprehensive reform, which could include actions in six areas: (1) addressing the current debt, (2) removing existing legislative barriers to FEMA’s ability to revise premium rates to reflect the full risk of loss, (3) addressing affordability, (4) increasing consumer participation, (5) removing barriers to private-sector involvement, and (6) protecting NFIP flood resilience efforts.

Related GAO Products


Managing Risks and Improving VA Health Care

The Department of Veterans Affairs (VA) has taken steps to maintain its leadership commitment and develop its action plan, but still needs to demonstrate capacity and establish metrics to monitor and demonstrate progress addressing VA health care concerns.

**Why Area Is High Risk**

The VA operates one of the largest health care delivery systems in the nation, providing health care to more than 9 million veterans. Since we designated VA health care as a high-risk area in 2015, VA has begun to address each of the identified five areas of concern: (1) ambiguous policies and inconsistent processes; (2) inadequate oversight and accountability; (3) information technology challenges; (4) inadequate training for VA staff; and (5) unclear resource needs and allocation priorities.

Since we issued our 2017 High-Risk Report, VA has undergone significant transition. Prior to Secretary Wilkie’s confirmation in July 2018, VA’s leadership was in a state of flux with numerous senior-level vacancies, including the Secretary, Under Secretary for Health, Chief Financial Officer, Chief Information Officer, and the Deputy Under Secretary for Health for Community Care positions. During this period of leadership instability, VA began implementing several major modernization initiatives. It is transitioning to the same electronic health record system the Department of Defense is currently deploying, and VA’s community care program has undergone major structural change and received significant funding increases.

**Contact Information**

For additional information about this high-risk area, contact Debra A. Draper at (202) 512-7114 or draperd@gao.gov, or Sharon Silas at (202) 512-7114 or silass@gao.gov.

Since our 2017 High-Risk Report, ratings for all five criteria remain unchanged.

Specifically, the leadership commitment and action plan criteria remain partially met. Although VA has experienced leadership instability over the past 2 years in several senior positions, a new Secretary was confirmed in July 2018. Secretary Robert Wilkie has demonstrated his commitment to addressing the department’s high-risk designation by, among other things, creating an office to direct an integrated, focused high-risk approach and communicating to VA leaders the importance of addressing our recommendations. The Secretary’s actions, to date, have allowed the department to maintain its leadership commitment rating. The action plan criterion also remains partially met. In March 2018, VA submitted an action plan to address the underlying causes of its high-risk designation, but the plan did not clearly link actions to stated outcomes and goals or establish a framework to assess VA’s progress. VA officials have indicated that they are currently working to revise their action plan, and that the January 2019 draft VHA Plan for Modernization is intended, among other things, to address our long-standing concerns.

The monitoring, demonstrated progress, and capacity criteria remain unmet since our 2017 High-Risk Report. In order to address the monitoring and demonstrated progress criteria, VA’s ongoing revisions to its action plan need to include the addition of certain essential components, including metrics, milestones, and mechanisms for monitoring and demonstrating progress in addressing the high-risk areas of concern. VA’s capacity rating also remains not met. Though the department took steps to establish offices, workgroups, and initiatives to address its high-risk designation, many of these efforts are either in the initial stages of development or resources have not been allocated.

We have made 353 recommendations related to VA health care since 2010, 175 of which were made after VA health care was put on the High-Risk List in 2015. As of December 2018, the department has
implemented nearly 60 percent of the recommendations related to VA health care made since January 2010.

Ambiguous Policies and Inconsistent Processes

Since our 2017 High-Risk Report, ratings for all five criteria remain unchanged.

**Leadership commitment: partially met.** VA has implemented a structure for leadership input into the policy process, such as at the Veterans Health Administration (VHA) Chief of Staff level. However, senior leadership has lacked the stability needed to ensure issued policy meets agency goals.

**Capacity: not met.** Since 2017, VA has issued an updated directive on policy management, and put in place procedures to train staff and obtain input from all levels on policy development. However, VA continues to face challenges in this area because it is reliant on contracts and information technology (IT) resources, which if delayed, can impede progress toward meeting goals.

**Action plan: partially met.** Since 2017, VA has further refined its root cause analysis for this area of concern. VA relied on these root causes as the foundational drivers for a January 2019 draft of the VHA Plan for Modernization. However, VA has not used the root cause analysis to develop and prioritize appropriate milestones and metrics in the action plan. Additionally, VA’s action plan did not include all goals and substantive actions taken. For example, in its March 2018 action plan, VA described its future plans to determine the roles of national and local policy in agency operations. However, VA’s action plan did not reflect the October 2017 establishment of an inventory of approximately 55,000 local policies, which set a baseline for understanding policy burden, or explain how it will use that inventory to inform the pilot process for national policy development that is mentioned in the action plan.

**Monitoring: not met.** Since the March 2018 action plan lacked specific metrics and mechanisms for assessing and reporting progress, it is not clear how VA is monitoring its progress.

**Demonstrated progress: not met.** Our work continues to indicate VA is not yet able to demonstrate progress in this area. Since its 2015 high-risk designation, we have made 48 new recommendations in this area of concern, 30 of which were made since our 2017 report was issued. For example, in September 2017, we found that VHA does not have a process to systematically ensure that local policies align with national policies. Without such a process, VHA may be unable to ensure that its
facilities consistently implement national policies as intended to ensure timely, high-quality care for the nation’s veterans. As a result, we recommended that VHA establish a standard process to periodically monitor that local policies align with national policies. VA concurred with this recommendation, which remains open.

What Remains to Be Done

We have made 90 recommendations related to this area of concern since 2010. As of December 2018, 35 recommendations remain open. In addition to implementing those recommendations, VA should improve its policies and processes by building capacity and finalizing its action plan.

Inadequate Oversight and Accountability

Since our 2017 High-Risk Report, ratings for one criterion improved and four remain unchanged.

Leadership commitment: partially met. Since this area of concern’s 2015 designation, VA has made organizational changes, including establishing the Office of Integrity, to standardize and streamline the agency’s oversight of its programs and personnel. However, since 2017, the lack of stability in the Under Secretary for Health position has hindered its ability to demonstrate sustained commitment to improving this area of concern.

Capacity: not met. VA has begun to implement capacity-building initiatives directed at improving oversight and accountability. For example, VHA’s Office of Internal Audit and Risk Assessment, a key component of the department’s oversight and accountability model, began conducting audits in 2018. However, according to VA’s action plan, the department has yet to allocate resources for this office, such as sufficient staff to carry out its activities.

Action plan: partially met. In 2018, VA conducted an analysis of the root causes contributing to findings of inadequate oversight and accountability, an important step in identifying the underlying factors contributing to this area of concern. However, the resulting action plan lacked key elements, including clear metrics to monitor and assess progress.

Monitoring: not met. The March 2018 action plan lacked specific metrics and mechanisms for assessing and reporting progress in this area.

Demonstrated progress: not met. Our work continues to indicate VA is not demonstrating progress in this area. Since its 2015 designation, we made 85 new recommendations in this area of concern, 50 of which were
made since our 2017 report was issued. For example, in June 2018, we reported that VHA could not systematically monitor the timeliness of veterans’ access to Veterans Choice Program care because it lacked complete, reliable data to do so. As a result, we recommended that VA take steps to improve its oversight of the future consolidated community care program that will replace the Veterans Choice Program when authority sunsets on June 6, 2019. VA concurred with this recommendation, which remains open.

**What Remains to Be Done**

We have made 148 recommendations related to this area of concern since 2010. As of December 2018, 59 recommendations remain open. In addition to implementing those recommendations, VA should demonstrate commitment to oversight and accountability by building capacity and finalizing its action plan.

**Congressional Actions Needed**

Congress should consider continuing to hold hearings and receive periodic updates from VA, through which it can examine and address VA health care challenges and bring increased visibility to VA’s progress in addressing its high-risk designation.

**Information Technology Challenges**

Since our 2017 High-Risk Report, ratings for one criterion regressed, one improved, and three remain unchanged.

**Leadership commitment: not met.** In January 2019, the Senate confirmed a new VA Chief Information Officer. This is the fourth official to lead VA’s IT organization since our 2017 High-Risk Report, and the frequent turnover in this position raises concerns about VA’s ability to address the department’s IT challenges.

**Capacity: not met.** In May 2018, VA awarded a contract to acquire the same commercial electronic health record system as the Department of Defense (DOD). However, VA is early in the transition and its actions are ongoing. Additionally, VA has developed a strategy for decommissioning its legacy IT systems, which are tying up funds that could be reallocated for new technology to enable improved veteran care, but has made limited progress in implementing this effort.

**Action plan: partially met.** In 2018, VA conducted an analysis to identify the root causes of IT challenges, which informed the goals in its action plan. However, VA’s action plan contained significant information gaps, including missing interim milestone dates. These information gaps raise
questions about VA’s commitment to addressing IT-related root causes and need to be addressed before we can consider this criterion met.

**Monitoring: not met.** The March 2018 action plan lacked specific metrics and mechanisms for assessing and reporting progress.

**Demonstrating progress: not met.** Our work continues to indicate VA is not yet able to demonstrate progress in this area. Since its 2015 high-risk designation, we have made 14 new recommendations in this area, 12 of which were made since our 2017 report was issued. For example, in June 2017, to address deficiencies we found related to VA’s pharmacy system, we recommended that VA take 6 actions to provide clinicians and pharmacists with improved tools to support pharmacy services to veterans and reduce risks to patient safety, including assessing the extent to which the interoperability of VA and DOD’s pharmacy systems impacts transitioning service members. VA generally concurred with these recommendations, all of which remain open.

**What Remains to be Done**

We have made 25 recommendations related to this area of concern since 2010. As of December 2018, 15 recommendations remain open. In addition to implementing those recommendations, VA should demonstrate commitment to addressing its IT challenges by stabilizing senior leadership, building capacity, and finalizing its action plan.

**Inadequate Training for VA Staff**

Since our 2017 High-Risk Report, ratings for one criterion improved and four remain unchanged.

**Leadership commitment: not met.** VA officials have reported progress in establishing a process to develop an enterprise-wide annual training plan to better ensure that VA staff are adequately trained to provide high-quality care to veterans. However, the actions necessary to complete and implement this training plan are not reflected in VA’s March 2018 action plan for the training area of concern, raising questions about the process through which it will be developed. The lack of progress in setting clear goals for improving training demonstrates that VA lacks leadership commitment to address our concerns in this area.

**Capacity: not met.** VA has created working groups and task forces—such as the Learning Organization Transformation Subcommittee in the National Leadership Council—with specific responsibilities. However, VA’s ability to demonstrate capacity is limited because, according to VA’s
March 2018 action plan, the department relies on external contractor support services to meet training goals, and that funding has not been allocated.

**Action plan:** partially met. VA completed a root cause analysis for training deficiencies, which informed the goals underlying its action plan, resulting in an increased rating. However, the action plan continues to have deficiencies identified in 2017. For example, not all goal descriptions correspond to planned actions and the action plan lacks detail about how and which data will be collected to assess progress.

**Monitoring:** not met. The March 2018 action plan lacked specific metrics and mechanisms for assessing and reporting progress.

**Demonstrated progress:** not met. Our work continues to indicate that VA is not yet able to demonstrate progress in this area. Since its 2015 designation, we have made 10 new recommendations in this area of concern, 2 of which were made since our 2017 report was issued. For example, in April 2018 we reported that, while the department has recommended training for patient advocates—staff members who receive and document feedback from veterans or their representatives—it has not developed an approach to routinely assess their training needs or monitored training completion. The failure to conduct these activities increases VA’s risk that staff may not be adequately trained to advocate on behalf of veterans. As a result, we recommended VHA develop an approach to routinely assess training needs and monitor training completion. VA concurred with our recommendations, which remain open.

**What Remains to be Done**

We have made 16 recommendations related to this area of concern since 2010. As of December 2018, 3 recommendations remain open. In addition to implementing those recommendations, VA should improve training by stabilizing senior leadership, finalizing its action plan, and allocating necessary resources.

**Unclear Resource Needs and Allocation Priorities**

Since our 2017 High-Risk Report, ratings for one criterion improved and four remain unchanged.

**Leadership commitment:** partially met. In December 2017, a VA Chief Financial Officer (CFO) was confirmed after the department spent over 2.5 years under an interim CFO. In addition, VA is in the process of establishing a new office to estimate workforce resource requirements.
Capacity: not met. VA has established functions intended to inform cost analyses of major VA initiatives, including a new financial management process to replace its outdated financial systems. However, it is unclear in its action plan the extent to which VA has identified the resources needed to establish and maintain these functions.

Action plan: partially met. Since our 2017 High-Risk Report, VA conducted a root cause analysis of this area of concern. However, VA’s action plan lacks metrics for monitoring progress and does not include all of VA’s ongoing actions, such as efforts to assess current and future regional demand for veterans’ health care services.

Monitoring: not met. Since VA’s action plan lacks specific metrics and mechanisms for assessing and reporting progress, it is not clear how VA is monitoring its progress.

Demonstrating progress: not met. Our work continues to indicate VA is not yet able to demonstrate progress in this area. Since its 2015 designation, we have made 16 new recommendations in this area of concern, 10 of which were made since our 2017 report. For example, in May 2017, we reported identifying several limitations with VA’s clinical productivity metrics and statistical models for tracking clinical efficiency that limit VA’s ability to assess whether resources are being used effectively to serve veterans. We recommended VA establish an ongoing process to systematically review its medical centers’ plans for addressing low clinical productivity and inefficiency, and ensure that the plans are being successfully implemented. VA concurred with this recommendation, which remains open.

What Remains to be Done

We have made 64 recommendations related to this area of concern since 2010. As of December 2018, 13 recommendations remain open. In addition to implementing those recommendations, VA should improve resource allocation by building capacity, identifying and allocating needed staff and funds, and finalizing its action plan.

Related GAO Products


### Table 10: GAO’s 2019 High-Risk List

#### Strengthening the Foundation for Efficiency and Effectiveness
- Strategic Human Capital Management
- Managing Federal Real Property
- Funding the Nation’s Surface Transportation System
- Modernizing the U.S. Financial Regulatory System
- Resolving the Federal Role in Housing Finance
- USPS Financial Viability
- Management of Federal Oil and Gas Resources
- Limiting the Federal Government’s Fiscal Exposure by Better Managing Climate Change Risks
- Improving the Management of IT Acquisitions and Operations
- Improving Federal Management of Programs That Serve Tribes and Their Members
- 2020 Decennial Census
- U.S. Government Environmental Liability

#### Transforming DOD Program Management
- DOD Weapon Systems Acquisition
- DOD Financial Management
- DOD Business Systems Modernization
- DOD Support Infrastructure Management
- DOD Approach to Business Transformation

#### Ensuring Public Safety and Security
- Government-wide Personnel Security Clearance Process (new)
- Ensuring the Cybersecurity of the Nation
- Strengthening Department of Homeland Security Management Functions
- Ensuring the Effective Protection of Technologies Critical to U.S. National Security Interests
- Improving Federal Oversight of Food Safety
- Protecting Public Health through Enhanced Oversight of Medical Products
- Transforming Environmental Protection Agency’s Processes for Assessing and Controlling Toxic Chemicals

#### Managing Federal Contracting More Effectively
- VA Acquisition Management (new)
- DOE’s Contract Management for the National Nuclear Security Administration and Office of Environmental Management
- NASA Acquisition Management
- DOD Contract Management

#### Assessing the Efficiency and Effectiveness of Tax Law Administration
- Enforcement of Tax Laws
Modernizing and Safeguarding Insurance and Benefit Programs

- Medicare Program & Improper Payments\(^a\)
- Strengthening Medicaid Program Integrity\(^a\)
- Improving and Modernizing Federal Disability Programs
- Pension Benefit Guaranty Corporation Insurance Programs\(^a\)
- National Flood Insurance Program\(^a\)
- Managing Risks and Improving VA Health Care\(^a\)

\(^a\)Legislation is likely to be necessary in order to effectively address this area.
The following GAO reports reflect our High-Risk Series reports issued since 2000. For additional GAO related products issued specific to each of the 35 high-risk areas on our updated list, see our High-Risk List website, http://www.gao.gov/highrisk/.


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