INFORMATION TECHNOLOGY

Further Implementation of FITARA Related Recommendations Is Needed to Better Manage Acquisitions and Operations

Statement of David A. Powner, Director
Information Technology Management Issues

Accessible Version
Further Implementation of FITARA Related Recommendations Is Needed to Better Manage Acquisitions and Operations

What GAO Found

The Office of Management and Budget (OMB) and federal agencies have taken steps to improve the management of information technology (IT) acquisitions and operations through a series of initiatives, and as of November 2017, had fully implemented about 56 percent of the approximately 800 related GAO recommendations made between fiscal years 2010 through 2015. However, important additional actions are needed.

- **Consolidating data centers.** OMB launched an initiative in 2010 to reduce data centers, which was reinforced by the Federal Information Technology Acquisition Reform Act (FITARA) in 2014. However, in a series of reports that GAO issued over the past 6 years, it noted that, while data center consolidation could potentially save the federal government billions of dollars, weaknesses existed in several areas, including agencies’ data center consolidation plans, data center optimization, and OMB’s tracking and reporting on related cost savings. These reports contained a matter for Congressional consideration, and a total of 160 recommendations to OMB and 24 agencies, to improve the execution and oversight of the initiative. Most agencies and OMB agreed with the recommendations or had no comments. As of November 2017, 84 of the recommendations remained open.

- **Enhancing transparency.** OMB’s IT Dashboard provides information on major investments at federal agencies, including ratings from Chief Information Officers that should reflect the level of risk facing an investment. Over the past 6 years, GAO has issued a series of reports about the Dashboard that noted both significant steps OMB has taken to enhance the oversight, transparency, and accountability of federal IT investments by creating its Dashboard, as well as concerns about the accuracy and reliability of the data. In total, GAO has made 47 recommendations to OMB and federal agencies to help improve the accuracy and reliability of the information on the Dashboard and to increase its availability. Most agencies agreed with the recommendations or had no comments. As of November 2017, 25 of these recommendations remained open.

- **Implementing incremental development.** OMB has emphasized the need for agencies to deliver investments in smaller parts, or increments, in order to reduce risk and deliver capabilities more quickly. Since 2012, OMB has required investments to deliver functionality every 6 months. Further, GAO has issued reports highlighting additional actions needed by OMB and agencies to improve their implementation of incremental development. In these reports, GAO made 42 recommendations. Most agencies agreed or did not comment on the recommendations. As of November 2017, 34 of the recommendations remained open.

- **Managing software licenses.** Effective management of software licenses can help avoid purchasing too many licenses that result in unused software. In May 2014, GAO reported that better management of licenses was needed to achieve savings, and made 136 recommendations to improve such management. Most agencies generally agreed with the recommendations or had no comments. As of November 2017, 112 of the recommendations remained open.

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View GAO-18-234T. For more information, contact David A. Powner at (202) 512-9286 or pownerd@gao.gov.
Chairmen Meadows and Hurd, Ranking Members Connolly and Kelly, and Members of the Subcommittees:

I am pleased to be here today to provide an update on federal agencies’ efforts to improve the acquisition of information technology (IT). As I have previously testified, the effective and efficient acquisition of IT has been a long-standing challenge in the federal government.\(^1\) In particular, the federal government has spent billions of dollars on failed and poorly performing IT investments, which often suffered from ineffective management. Recognizing the importance of government-wide acquisition of IT, in December 2014, Congress enacted federal IT acquisition reform legislation (commonly referred to as the Federal Information Technology Acquisition Reform Act, or FITARA).\(^2\)

In addition, in February 2015, we added improving the management of IT acquisitions and operations to our list of high-risk areas for the federal government.\(^3\) We recently issued an update to our high-risk report and noted that, while progress has been made in addressing the high-risk area of IT acquisitions and operations, significant work remains to be completed.\(^4\)

My statement today provides an update on agencies’ progress in improving the management of IT acquisitions and operations. The statement is based on our prior and recently published reports that discuss federal agencies’ (1) data center consolidation efforts, (2) risk levels of major investments as reported on OMB’s IT Dashboard, (3) implementation of incremental development practices, and (4)


\(^3\)GAO, High-Risk Series: An Update, GAO-15-290 (Washington, D.C.: Feb. 11, 2015). GAO maintains a high-risk program to focus attention on government operations that it identifies as high risk due to their greater vulnerabilities to fraud, waste, abuse, and mismanagement or the need for transformation to address economy, efficiency, or effectiveness challenges.

management of software licenses. A more detailed discussion of the objectives, scope, and methodology for this work is included in each of the reports that are cited throughout this statement.

We conducted the work upon which this statement is based in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.

Background

According to the President’s budget, the federal government plans to invest more than $96 billion for IT in fiscal year 2018—the largest amount ever. However, as we have previously reported, investments in federal IT too often result in failed projects that incur cost overruns and schedule slippages, while contributing little to the desired mission-related outcomes. For example:

- The Department of Veterans Affairs’ Scheduling Replacement Project was terminated in September 2009 after spending an estimated $127 million over 9 years.\(^5\)

- The tri-agency\(^6\) National Polar-orbiting Operational Environmental Satellite System was halted in February 2010 by the White House’s Office of Science and Technology Policy after the program spent 16 years and almost $5 billion.\(^7\)

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\(^6\)The weather satellite program was managed by the National Oceanic and Atmospheric Administration, the Department of Defense, and the National Aeronautics and Space Administration.

The Department of Homeland Security’s Secure Border Initiative Network program was ended in January 2011, after the department obligated more than $1 billion for the program.\(^8\)

The Office of Personnel Management’s Retirement Systems Modernization program was canceled in February 2011, after the agency had spent approximately $231 million on its third attempt to automate the processing of federal employee retirement claims.\(^9\)

The Department of Veterans Affairs’ Financial and Logistics Integrated Technology Enterprise program was intended to be delivered by 2014 at a total estimated cost of $609 million, but was terminated in October 2011.\(^10\)

The Department of Defense’s Expeditionary Combat Support System was canceled in December 2012 after spending more than a billion dollars and failing to deploy within 5 years of initially obligating funds.\(^11\)

Our past work found that these and other failed IT projects often suffered from a lack of disciplined and effective management, such as project planning, requirements definition, and program oversight and governance. In many instances, agencies had not consistently applied best practices that are critical to successfully acquiring IT.


Such projects have also failed due to a lack of oversight and governance. Executive-level governance and oversight across the government has often been ineffective, specifically from chief information officers (CIO). For example, we have reported that some CIOs’ roles were limited because they did not have the authority to review and approve the entire agency IT portfolio.¹²

Implementing FITARA Can Improve Agencies’ Management of IT

FITARA was intended to improve agencies’ acquisitions of IT and enable Congress to monitor agencies’ progress and hold them accountable for reducing duplication and achieving cost savings. The law includes specific requirements related to seven areas.¹³

- **Federal data center consolidation initiative (FDCCI).** Agencies are required to provide OMB with a data center inventory, a strategy for consolidating and optimizing their data centers (to include planned cost savings), and quarterly updates on progress made. The law also requires OMB to develop a goal for how much is to be saved through this initiative, and provide annual reports on cost savings achieved.

- **Enhanced transparency and improved risk management.** OMB and covered agencies are to make detailed information on federal IT investments publicly available, and agency CIOs are to categorize their investments by level of risk. Additionally, in the case of major IT investments¹⁴ rated as high risk for 4 consecutive quarters, the law

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¹³The provisions apply to the agencies covered by the Chief Financial Officers Act of 1990, 31 U.S.C. § 901(b). These agencies are the Departments of Agriculture, Commerce, Defense, Education, Energy, Health and Human Services, Homeland Security, Housing and Urban Development, Justice, Labor, State, the Interior, the Treasury, Transportation, and Veterans Affairs; the Environmental Protection Agency, General Services Administration, National Aeronautics and Space Administration, National Science Foundation, Nuclear Regulatory Commission, Office of Personnel Management, Small Business Administration, Social Security Administration, and U.S. Agency for International Development. However, FITARA has generally limited application to the Department of Defense.

¹⁴Major IT investment means a system or an acquisition requiring special management attention because it has significant program or policy implications; high executive visibility; high development, operating, or maintenance costs; an unusual funding mechanism; or is defined as major by the agency’s capital planning and investment control process.
requires that the agency CIO and the investment’s program manager conduct a review aimed at identifying and addressing the causes of the risk.

- **Agency CIO authority enhancements.** CIOs at covered agencies are required to (1) approve the IT budget requests of their respective agencies, (2) certify that OMB’s incremental development guidance is being adequately implemented for IT investments, (3) review and approve contracts for IT, and (4) approve the appointment of other agency employees with the title of CIO.

- **Portfolio review.** Agencies are to annually review IT investment portfolios in order to, among other things, increase efficiency and effectiveness and identify potential waste and duplication. In establishing the process associated with such portfolio reviews, the law requires OMB to develop standardized performance metrics, to include cost savings, and to submit quarterly reports to Congress on cost savings.

- **Expansion of training and use of IT acquisition cadres.** Agencies are to update their acquisition human capital plans to address supporting the timely and effective acquisition of IT. In doing so, the law calls for agencies to consider, among other things, establishing IT acquisition cadres or developing agreements with other agencies that have such cadres.

- **Government-wide software purchasing program.** The General Services Administration is to develop a strategic sourcing initiative to enhance government-wide acquisition and management of software. In doing so, the law requires that, to the maximum extent practicable, the General Services Administration should allow for the purchase of a software license agreement that is available for use by all executive branch agencies as a single user.¹⁵

- **Maximizing the benefit of the Federal Strategic Sourcing Initiative.**¹⁶ Federal agencies are required to compare their purchases

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¹⁵ The Making Electronic Government Accountable by Yielding Tangible Efficiencies Act of 2016, or the “MEGABYTE Act” further enhances CIOs’ management of software licenses by requiring agency CIOs to establish an agency software licensing policy and a comprehensive software license inventory to track and maintain licenses, among other requirements. Pub. L. No. 114-210 (July 29, 2016); 130 Stat. 824.

¹⁶ The Federal Strategic Sourcing Initiative is a program established by the General Services Administration and the Department of the Treasury to address government-wide opportunities to strategically source commonly purchased goods and services and eliminate duplication of efforts across agencies.
of services and supplies to what is offered under the Federal Strategic Sourcing Initiative. OMB is also required to issue regulations related to the initiative.

In June 2015, OMB released guidance describing how agencies are to implement FITARA. This guidance is intended to, among other things:

- assist agencies in aligning their IT resources with statutory requirements;
- establish government-wide IT management controls that will meet the law’s requirements, while providing agencies with flexibility to adapt to unique agency processes and requirements;
- clarify the CIO’s role and strengthen the relationship between agency CIOs and bureau CIOs; and
- strengthen CIO accountability for IT costs, schedules, performance, and security.

The guidance identified several actions that agencies were to take to establish a basic set of roles and responsibilities (referred to as the common baseline) for CIOs and other senior agency officials, which were needed to implement the authorities described in the law. For example, agencies were required to conduct a self-assessment and submit a plan describing the changes they intended to make to ensure that common baseline responsibilities were implemented. Agencies were to submit their plans to OMB’s Office of E-Government and Information Technology by August 15, 2015, and make portions of the plans publicly available on agency websites no later than 30 days after OMB approval. As of November 2016, all agencies had made their plans publicly available.

In addition, in August 2016, OMB released guidance intended to, among other things, define a framework for achieving the data center consolidation and optimization requirements of FITARA. The guidance includes requirements for agencies to:

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• maintain complete inventories of all data center facilities owned, operated, or maintained by or on behalf of the agency;
• develop cost savings targets for fiscal years 2016 through 2018 and report any actual realized cost savings; and
• measure progress toward meeting optimization metrics on a quarterly basis.

The guidance also directs agencies to develop a data center consolidation and optimization strategic plan that defines the agency’s data center strategy for fiscal years 2016, 2017, and 2018. This strategy is to include, among other things, a statement from the agency CIO indicating whether the agency has complied with all data center reporting requirements in FITARA. Further, the guidance indicates that OMB is to maintain a public dashboard that will display consolidation-related costs savings and optimization performance information for the agencies.

IT Acquisitions and Operations Identified by GAO as a High-Risk Area

In February 2015, we introduced a new government-wide high-risk area, *Improving the Management of IT Acquisitions and Operations*. This area highlighted several critical IT initiatives in need of additional congressional oversight, including (1) reviews of troubled projects; (2) efforts to increase the use of incremental development; (3) efforts to provide transparency relative to the cost, schedule, and risk levels for major IT investments; (4) reviews of agencies’ operational investments; (5) data center consolidation; and (6) efforts to streamline agencies’ portfolios of IT investments. We noted that implementation of these initiatives was inconsistent and more work remained to demonstrate progress in achieving IT acquisition and operation outcomes.

Further, our February 2015 high-risk report stated that, beyond implementing FITARA, OMB and agencies needed to continue to implement our prior recommendations in order to improve their ability to effectively and efficiently invest in IT. Specifically, from fiscal years 2010 through 2015, we made 803 recommendations to OMB and federal agencies to address shortcomings in IT acquisitions and operations. These recommendations included many to improve the implementation of...
the aforementioned six critical IT initiatives and other government-wide, cross-cutting efforts. We stressed that OMB and agencies should demonstrate government-wide progress in the management of IT investments by, among other things, implementing at least 80 percent of our recommendations related to managing IT acquisitions and operations within 4 years.

In February 2017, we issued an update to our high-risk series and reported that, while progress had been made in improving the management of IT acquisitions and operations, significant work still remained to be completed. For example, as of November 2017, OMB and agencies had fully implemented 452 (or about 56 percent) of the 803 recommendations. This was an increase of about 284 recommendations compared to the number of recommendations we reported as being fully implemented in 2015. Figure 1 summarizes the progress that OMB and agencies have made in addressing our recommendations as compared to the 80 percent target, as of November 2017.

![Figure 1: Summary of the Office of Management and Budget’s and Federal Agencies’ Progress in Addressing GAO’s Recommendations, as of November 2017](image.png)

In addition, in fiscal year 2016, we made 202 new recommendations, thus further reinforcing the need for OMB and agencies to address the shortcomings in IT acquisitions and operations. Also, beyond addressing our prior recommendations, our 2017 high-risk update noted the importance of OMB and federal agencies continuing to expeditiously implement the requirements of FITARA.

To further explore the challenges and opportunities to improve federal IT acquisitions and operations, we convened a forum on September 14, 2016, to explore challenges and opportunities for CIOs to improve federal IT acquisitions and operations—with the goal of better informing

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20 GAO-17-317.
policymakers and government leadership. Forum participants, which included 13 current and former federal agency CIOs, members of Congress, and private sector IT executives, identified key actions related to seven topics: (1) strengthening FITARA, (2) improving CIO authorities, (3) budget formulation, (4) governance, (5) workforce, (6) operations, and (7) transition planning. A summary of the key actions, by topic area, identified during the forum is provided in figure 2.

In addition, in January 2017, the Federal CIO Council concluded that differing levels of authority over IT-related investments and spending
have led to inconsistencies in how IT is executed from agency to agency. According to the Council, for those agencies where the CIO has broad authority to manage all IT investments, great progress has been made to streamline and modernize the federal agency’s footprint. For the others, where agency CIOs are only able to control pieces of the total IT footprint, it has been harder to achieve improvements.\textsuperscript{22}

Current Administration Has Undertaken Efforts to Improve Federal IT

The current administration has initiated additional efforts aimed at improving federal IT, including digital services. Specifically, in March 2017, the administration established the Office of American Innovation, which has a mission to, among other things, make recommendations to the President on policies and plans aimed at improving federal government operations and services and on modernizing federal IT. In doing so, the office is to consult with both OMB and the Office of Science and Technology Policy on policies and plans intended to improve government operations and services, improve the quality of life for Americans, and spur job creation.\textsuperscript{23}

In May 2017, the administration also established the American Technology Council, which has a goal of helping to transform and modernize federal agency IT and how the federal government uses and delivers digital services. The President is the chairman of this council, and the Federal CIO and the United States Digital Service\textsuperscript{24} administrator are members.


\textsuperscript{23}The White House Office of Science and Technology Policy provides the President and others within the Executive Office of the President with advice on the scientific, engineering, and technological aspects of the economy, national security, homeland security, health, foreign relations, the environment, and the technological recovery and use of resources, among other topics.

\textsuperscript{24}The United States Digital Service is an office within OMB which aims to improve the most important public-facing federal digital services.
Congress Has Taken Action to Continue Selected FITARA Provisions and Modernize Federal IT

Congress has recognized the importance of agencies’ continued implementation of FITARA provisions, and has taken legislative action to extend selected provisions beyond their original dates of expiration. For example, Congress has passed legislation to:

- remove the expiration date for enhanced transparency and improved risk management provisions, which were set to expire in 2019;
- remove the expiration date for portfolio review, which was set to expire in 2019; and
- extend the expiration date for FDCCI from 2018 to 2020.

In addition, Congress is considering legislation to ensure the availability of funding to help further agencies’ efforts to modernize IT. Specifically, recently proposed legislation calls for agencies to establish working capital funds for use in transitioning from legacy systems, as well as for addressing evolving threats to information security. The legislation also proposes the creation of a technology modernization fund within the Department of the Treasury, from which agencies could borrow money to retire and replace legacy systems as well as acquire or develop systems.

Agencies Have Taken Steps to Implement FITARA, but Additional Actions are Needed to Address Related Recommendations

Agencies have taken steps to improve the management of IT acquisitions and operations by implementing key FITARA initiatives. However, agencies would be better positioned to fully implement the law and, thus, realize billions in cost savings and additional management improvements, if they addressed the numerous recommendations we have made aimed at improving data center consolidation, increasing transparency via


OMB’s IT Dashboard, implementing incremental development, and managing software licenses.

Agencies Have Made Progress in Consolidating Data Centers, but Need to Take Action to Achieve Planned Cost Savings

One of the key initiatives to implement FITARA is data center consolidation. OMB established FDCCI in February 2010 to improve the efficiency, performance, and environmental footprint of federal data center activities, and the enactment of FITARA reinforced the initiative. However, in a series of reports that we issued from July 2011 through August 2017, we noted that, while data center consolidation could potentially save the federal government billions of dollars, weaknesses existed in several areas, including agencies’ data center consolidation plans, data center optimization, and OMB’s tracking and reporting on related cost savings.27 In these reports, we made a matter for Congressional consideration, and a total of 160 recommendations to OMB and 24 agencies to improve the execution and oversight of the initiative. Most agencies and OMB agreed with our recommendations or had no comments. As of November 2017, 84 of these recommendations remained open.

For example, in May 2017, we reported28 that the 24 agencies29 participating in FDCCI collectively had made progress on their data center


28GAO-17-388.
closure efforts. Specifically, as of August 2016, these agencies had identified a total of 9,995 data centers, of which they reported having closed 4,388, and having plans to close a total of 5,597 data centers through fiscal year 2019. Notably, the Departments of Agriculture, Defense, the Interior, and the Treasury accounted for 84 percent of the completed closures.

In addition, that report noted that 18 of the 24 agencies had reported achieving about $2.3 billion collectively in cost savings and avoidances from their data center consolidation and optimization efforts from fiscal year 2012 through August 2016. The Departments of Commerce, Defense, Homeland Security, and the Treasury accounted for approximately $2.0 billion (or 87 percent) of the total.

Further, 23 agencies reported about $656 million collectively in planned savings for fiscal years 2016 through 2018. This is about $3.3 billion less than the estimated $4.0 billion in planned savings for fiscal years 2016 through 2018 that agencies reported to us in November 2015. Figure 3 presents a comparison of the amounts of cost savings and avoidances reported by agencies to OMB and the amounts the agencies reported to us.

The 24 agencies that FITARA requires to participate in FDCCI are the Departments of Agriculture, Commerce, Defense, Education, Energy, Health and Human Services, Homeland Security, Housing and Urban Development, the Interior, Justice, Labor, State, Transportation, the Treasury, and Veterans Affairs; the Environmental Protection Agency; General Services Administration; National Aeronautics and Space Administration; National Science Foundation; Nuclear Regulatory Commission; Office of Personnel Management; Small Business Administration; Social Security Administration; and U.S. Agency for International Development.
As mentioned previously, FITARA required agencies to submit multi-year strategies to achieve the consolidation and optimization of their data centers no later than the end of fiscal year 2016. Among other things, this strategy was to include such information as data center consolidation and optimization metrics, and year-by-year calculations of investments and cost savings through October 1, 2018.

Further, OMB’s August 2016 guidance on data center optimization contained additional information for how agencies are to implement the strategic plan requirements of FITARA, and stated that agencies were required to publicly post their strategic plans to their agency-owned digital strategy websites by September 30, 2016.\(^\text{30}\)

As of April 2017, only 7 of the 23 agencies that submitted their strategic plans—the Departments of Agriculture, Education, Homeland Security, and Housing and Urban Development; the General Services Administration; the National Science Foundation; and the Office of Personnel Management—had addressed all five elements required by the OMB memorandum implementing FITARA. The remaining 16 agencies either partially met or did not meet the requirements. For example, most

\(^{30}\text{OMB, Data Center Optimization Initiative (DCOI), Memorandum M-16-19 (Washington, D.C.: Aug. 1, 2016).}\)
agencies partially met or did not meet the requirements to provide information related to data center closures and cost savings metrics. The Department of Defense did not submit a plan and was rated as not meeting any of the requirements.

To better ensure that federal data center consolidation and optimization efforts improve governmental efficiency and achieve cost savings, in our May 2017 report, we recommended that 11 of the 24 agencies take action to ensure that the amounts of achieved data center cost savings and avoidances are consistent across all reporting mechanisms. We also recommended that 17 of the 24 agencies each take action to complete missing elements in their strategic plans and submit their plans to OMB in order to optimize their data centers and achieve cost savings. Twelve agencies agreed with our recommendations, 2 did not agree, and 10 agencies and OMB did not state whether they agreed or disagreed.

More recently, in August 2017, we reported that agencies needed to address challenges in optimizing their data centers in order to achieve cost savings. Specifically, we noted that, according to the 24 agencies’ data center consolidation initiative strategic plans as of April 2017, most agencies were not planning to meet OMB’s optimization targets by the end of fiscal year 2018. Further, of the 24 agencies, 5—the Department of Commerce and the Environmental Protection Agency, National Science Foundation, Small Business Administration, and U.S. Agency for International Development—reported plans to fully meet their applicable targets by the end of fiscal year 2018; 13 reported plans to meet some, but not all, of the targets; 4 reported that they did not plan to meet any targets; and 2 did not have a basis to report planned optimization milestones because they do not report having any agency-owned data centers. Figure 4 summarizes agencies’ progress in meeting OMB’s optimization targets as of February 2017, and planned progress to be achieved by September 2017 and September 2018, as of April 2017. Figure 4: Agency-Reported Plans to Meet or Exceed the Office of Management and Budget’s (OMB) Data Center Optimization Targets

31 GAO-17-448.

32 U.S. Agency for International Development did not have any tiered data centers in its data center inventory. Therefore, the agency only had a basis to report on its plans to meet the one OMB optimization metric applicable to its non-tiered data centers (i.e., server utilization and automated monitoring).
Figure 4: Agency-Reported Plans to Meet or Exceed the Office of Management and Budget’s (OMB) Data Center Optimization Targets

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<thead>
<tr>
<th>Agency</th>
<th>Current progress from OMB’s Information Technology Dashboard (as of February 2017)</th>
<th>Planned optimization performance from agency data center optimization strategic plan (as of April 2017)</th>
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Source: GAO analysis of OMB Information Technology Dashboard and agency data. GAO-18-234T

Note: The five boxes in each column represent OMB’s five optimization targets relative to (1) server utilization and automated monitoring; (2) energy metering; (3) power usage effectiveness; (4) facility utilization; and (5) virtualization. The shaded areas identify agencies’ current and planned progress in meeting or exceeding OMB’s fiscal year 2018 target for each metric.

<sup>a</sup>Agency did not have any reported agency-owned data centers in its inventory and, therefore, did not have a basis to measure and report on optimization progress.
The National Science Foundation did not have any reported agency-owned tiered data centers in its inventory as of February 2017 and, therefore, did not have a basis to report on progress for four of the five metrics. However, according to the agency's April 2017 data center optimization strategic plan, it will have a basis to report on all five metrics in fiscal years 2017 and 2018.

The U.S. Agency for International Development did not have any reported agency-owned tiered data centers in its inventory and, therefore, did not have a basis to measure and report on four of the five metrics.

FITARA required OMB to establish a data center optimization metric specific to measuring server efficiency, and required agencies to report on progress in meeting this metric. To effectively measure progress against this metric, OMB directed agencies to replace the manual collection and reporting of systems, software, and hardware inventory housed within agency-owned data centers with automated monitoring tools and to complete this effort no later than the end of fiscal year 2018. Agencies were required to report progress in implementing automated monitoring tools and server utilization averages at each data center as part of their quarterly data center inventory reporting to OMB.

As of February 2017, 4 of the 22 agencies reporting agency-owned data centers in their inventory—a the National Aeronautics and Space Administration, National Science Foundation, Social Security Administration, and U.S. Agency for International Development—reported that they had implemented automated monitoring tools at all of their data centers. Further, 10 reported that they had implemented automated monitoring tools at between 1 and 57 percent of their centers, and 8 had not yet begun to report the implementation of these tools. In total, the 22 agencies reported that automated tools were implemented at 123 (or about 3 percent) of the 4,528 total agency-owned data centers, while the remaining 4,405 (or about 97 percent) of these data centers were not reported as having these tools implemented. Figure 5 summarizes the number of agency-reported data centers with automated monitoring tools implemented, including the number of tiered and non-tiered centers.

Two agencies—the Department of Education and Housing and Urban Development—do not have any agency-owned data centers; therefore, they do not have a basis for implementing automated monitoring tools.
To address challenges in optimizing federal data centers, in our August 2017 report, we made recommendations to 18 agencies and OMB. Ten agencies agreed with our recommendations, three agencies partially agreed, and six (including OMB) did not state whether they agreed or disagreed.

**Risks Need to Be Fully Considered When Agencies Rate Their Major Investments on OMB’s IT Dashboard**

To facilitate transparency across the government in acquiring and managing IT investments, OMB established a public website—the IT Dashboard—to provide detailed information on major investments at 26 agencies, including ratings of their performance against cost and schedule targets. Among other things, agencies are to submit ratings from their CIOs, which, according to OMB’s instructions, should reflect the level of risk facing an investment relative to that investment’s ability to accomplish its goals. In this regard, FITARA includes a requirement for
CIOs to categorize their major IT investment risks in accordance with OMB guidance.\textsuperscript{34}

Over the past 6 years, we have issued a series of reports about the Dashboard that noted both significant steps OMB has taken to enhance the oversight, transparency, and accountability of federal IT investments by creating its Dashboard, as well as concerns about the accuracy and reliability of the data.\textsuperscript{35} In total, we have made 47 recommendations to OMB and federal agencies to help improve the accuracy and reliability of the information on the Dashboard and to increase its availability. Most agencies agreed with our recommendations or had no comments. As of November 2017, 25 recommendations remained open.

In June 2016, we determined that 13 of the 15 agencies selected for in-depth review had not fully considered risks when rating their major investments on the Dashboard. Specifically, our assessments of risk for 95 investments at the 15 selected agencies\textsuperscript{36} matched the CIO ratings posted on the Dashboard 22 times, showed more risk 60 times, and showed less risk 13 times. Figure 6 summarizes how our assessments compared to the selected investments’ CIO ratings.

\textsuperscript{34}40 U.S.C. § 11302(c)(3)(C).


\textsuperscript{36}The 15 selected agencies were the Departments of Agriculture, Commerce, Defense, Education, Energy, Health and Human Services, Homeland Security, the Interior, State, Transportation, the Treasury, and Veterans Affairs; the Environmental Protection Agency; General Services Administration; and Social Security Administration.
Aside from the inherently judgmental nature of risk ratings, we identified three factors which contributed to differences between our assessments and the CIO ratings:

- Forty of the 95 CIO ratings were not updated during April 2015 (the month we conducted our review), which led to differences between our assessments and the CIOs’ ratings. This underscores the importance of frequent rating updates, which help to ensure that the information on the Dashboard is timely and accurately reflects recent changes to investment status.

- Three agencies’ rating processes spanned longer than 1 month. Longer processes mean that CIO ratings are based on older data, and may not reflect the current level of investment risk.

- Seven agencies’ rating processes did not focus on active risks. According to OMB’s guidance, CIO ratings should reflect the CIO’s assessment of the risk and the investment’s ability to accomplish its goals. CIO ratings that do no incorporate active risks increase the chance that ratings overstate the likelihood of investment success.

As a result, we concluded that the associated risk rating processes used by the 15 agencies were generally understating the level of an investment’s risk, raising the likelihood that critical federal investments in IT are not receiving the appropriate levels of oversight.
To better ensure that the Dashboard ratings more accurately reflect risk, we made 25 recommendations to 15 agencies to improve the quality and frequency of their CIO ratings. Twelve agencies generally agreed with or did not comment on the recommendations and three agencies disagreed, stating that their CIO ratings were adequate. However, we noted that weaknesses in these three agencies’ processes still existed and that we continued to believe our recommendations were appropriate.

Agencies Need to Increase Their Use of Incremental Development Practices

OMB has emphasized the need to deliver investments in smaller parts, or increments, in order to reduce risk, deliver capabilities more quickly, and facilitate the adoption of emerging technologies. In 2010, it called for agencies’ major investments to deliver functionality every 12 months and, since 2012, every 6 months. Subsequently, FITARA codified a requirement that agency CIOs certify that IT investments are adequately implementing incremental development, as defined in the capital planning guidance issued by OMB. Further, subsequent OMB guidance on the law’s implementation, issued in June 2015, directed agency CIOs to define processes and policies for their agencies which ensure that they certify that IT resources are adequately implementing incremental development.

However, in May 2014, we reported that 66 of 89 selected investments at five major agencies did not plan to deliver capabilities in 6-month cycles, and less than half of these investments planned to deliver functionality in 12-month cycles. We also reported that only one of the five agencies had complete incremental development policies. Accordingly, we recommended that OMB clarify its guidance on incremental development and that the selected agencies update their associated policies to comply with OMB’s revised guidance (once made available), and consider the factors identified in our report when doing so.


41OMB, Memorandum M-15-14.


43These five agencies are the Departments of Defense, Health and Human Services, Homeland Security, Transportation, and Veterans Affairs.
Four of the six agencies agreed with our recommendations or had no comments, one agency partially agreed, and the remaining agency disagreed with the recommendations. The agency that disagreed did not believe that its recommendations should be dependent upon OMB taking action to update guidance. In response, we noted that only one of the recommendations to that agency depended upon OMB action, and we maintained that the action was warranted and could be implemented.

Subsequently, in August 2016, we reported\(^{41}\) that agencies had not fully implemented incremental development practices for their software development projects. Specifically, we noted that, as of August 31, 2015, 22 federal agencies\(^ {42}\) had reported on the Dashboard that 300 of 469 active software development projects (approximately 64 percent) were planning to deliver usable functionality every 6 months for fiscal year 2016, as required by OMB guidance. The remaining 169 projects (or 36 percent) that were reported as not planning to deliver functionality every 6 months, agencies provided a variety of explanations for not achieving that goal. These included project complexity, the lack of an established project release schedule, or that the project was not a software development project.

Further, in conducting an in-depth review of seven selected agencies’ software development projects,\(^ {43}\) we determined that 45 percent of the projects delivered functionality every 6 months for fiscal year 2015 and 55 percent planned to do so in fiscal year 2016. However, significant differences existed between the delivery rates that the agencies reported to us and what they reported on the Dashboard. For example, for four agencies (the Departments of Commerce, Education, Health and Human Services, and Treasury), the percentage of delivery reported to us was at

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\(^{42}\)These 22 agencies are the Departments of Agriculture, Commerce, Defense, Education, Energy, Health and Human Services, Homeland Security, Housing and Urban Development, the Interior, Justice, Labor, State, Transportation, the Treasury, and Veterans Affairs; the Environmental Protection Agency, General Services Administration, National Archives and Records Administration, Office of Personnel Management, Small Business Administration, Social Security Administration, and U.S. Agency for International Development.

\(^{43}\)These seven agencies are the Departments of Commerce, Defense, Education, Health and Human Services, Homeland Security, Transportation, and the Treasury. These agencies were chosen because they reported a minimum of 12 investments that were at least 50 percent or more in development on the Dashboard for fiscal year 2015.
least 10 percentage points lower than what was reported on the Dashboard. These differences were due to (1) our identification of fewer software development projects than agencies reported on the Dashboard and (2) the fact that information reported to us was generally more current than the information reported on the Dashboard.

We concluded that, by not having up-to-date information on the Dashboard about whether the project is a software development project and about the extent to which projects are delivering functionality, these seven agencies were at risk that OMB and key stakeholders may make decisions regarding the agencies’ investments without the most current and accurate information. As such, we recommended that the seven selected agencies review major IT investment project data reported on the Dashboard and update the information as appropriate, ensuring that these data are consistent across all reporting channels.

Finally, while OMB has issued guidance requiring agency CIOs to certify that each major IT investment’s plan for the current year adequately implements incremental development, only three agencies (the Departments of Commerce, Homeland Security, and Transportation) had defined processes and policies intended to ensure that the CIOs certify that major IT investments are adequately implementing incremental development. Accordingly, we recommended that the remaining four agencies—the Departments of Defense, Education, Health and Human Services, and the Treasury—establish policies and processes for certifying that major IT investments adequately use incremental development.

The Departments of Education and Health and Human Services agreed with our recommendation, while the Department of Defense disagreed and stated that its existing policies address the use of incremental development. However, we noted that the department’s policies did not comply with OMB’s guidance and that we continued to believe our recommendation was appropriate. The Department of the Treasury did not comment on its recommendation.

More recently, in November 2017, we reported that agencies needed to improve their certification of incremental development. Specifically,


agencies reported that 62 percent of major IT software development investments were certified by the agency CIO for implementing adequate incremental development in fiscal year 2017, as required by FITARA as of August 2016. Table 1 identifies the number of federal agency major IT software development investments certified for adequate incremental development, as reported on the IT Dashboard for fiscal year 2017.

Table 1: Federal Agency Major Information Technology (IT) Software Development Investments Certified for Adequate Incremental Development, as Reported on the IT Dashboard for Fiscal Year 2017

<table>
<thead>
<tr>
<th>Agency</th>
<th>Number of major investments</th>
<th>Number of investments certified for adequate incremental development</th>
<th>Percent of investments certified for adequate incremental development</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Department of Agriculture</td>
<td>7</td>
<td>4</td>
<td>57%</td>
</tr>
<tr>
<td>Department of Commerce</td>
<td>11</td>
<td>10</td>
<td>91%</td>
</tr>
<tr>
<td>Department of Defense</td>
<td>33</td>
<td>10</td>
<td>30%</td>
</tr>
<tr>
<td>Department of Education</td>
<td>7</td>
<td>6</td>
<td>86%</td>
</tr>
<tr>
<td>Department of Energy</td>
<td>3</td>
<td>1</td>
<td>33%</td>
</tr>
<tr>
<td>Department of Health and Human Services</td>
<td>24</td>
<td>20</td>
<td>83%</td>
</tr>
<tr>
<td>Department of Homeland Security</td>
<td>10</td>
<td>6</td>
<td>60%</td>
</tr>
<tr>
<td>Department of Housing and Urban Development</td>
<td>1</td>
<td>1</td>
<td>100%</td>
</tr>
<tr>
<td>Department of the Interior</td>
<td>6</td>
<td>4</td>
<td>67%</td>
</tr>
<tr>
<td>Department of Justice</td>
<td>2</td>
<td>2</td>
<td>100%</td>
</tr>
<tr>
<td>Department of Labor</td>
<td>1</td>
<td>1</td>
<td>100%</td>
</tr>
<tr>
<td>Department of State</td>
<td>5</td>
<td>5</td>
<td>100%</td>
</tr>
<tr>
<td>Department of Transportation</td>
<td>12</td>
<td>3</td>
<td>25%</td>
</tr>
<tr>
<td>Department of the Treasury</td>
<td>10</td>
<td>3</td>
<td>30%</td>
</tr>
<tr>
<td>Department of Veterans Affairs</td>
<td>10</td>
<td>10</td>
<td>100%</td>
</tr>
<tr>
<td>Environmental Protection Agency</td>
<td>1</td>
<td>1</td>
<td>100%</td>
</tr>
<tr>
<td>General Services Administration</td>
<td>7</td>
<td>7</td>
<td>100%</td>
</tr>
<tr>
<td>Office of Personnel Management</td>
<td>3</td>
<td>3</td>
<td>100%</td>
</tr>
<tr>
<td>Small Business Administration</td>
<td>2</td>
<td>2</td>
<td>100%</td>
</tr>
<tr>
<td>Social Security Administration</td>
<td>10</td>
<td>3</td>
<td>30%</td>
</tr>
<tr>
<td>U.S. Agency for International Development</td>
<td>1</td>
<td>1</td>
<td>100%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>166</strong></td>
<td><strong>103</strong></td>
<td><strong>62%</strong></td>
</tr>
</tbody>
</table>

Source: GAO analysis of IT Dashboard data as of August 31, 2016. | GAO-18-234T
Officials from 21 of the 24 agencies in our review reported that challenges hindered their ability to implement incremental development, which included: (1) inefficient governance processes; (2) procurement delays; and (3) organizational changes associated with transitioning from a traditional software methodology that takes years to deliver a product, to incremental development, which delivers products in shorter time frames. Nevertheless, 21 agencies reported that the certification process was beneficial because they used the information from the process to assist with identifying investments that could more effectively use an incremental approach, and used lessons learned to improve the agencies’ incremental processes.

In addition, as of August 2017, only 4 of the 24 agencies had clearly defined CIO incremental development certification policies and processes that contained descriptions of the role of the CIO in the process and how the CIO’s certification will be documented; and included definitions of incremental development and time frames for delivering functionality consistent with OMB guidance. Figure 7 summarizes our analysis of agencies’ policies for CIO certification of the adequate use of incremental development in IT investments.
Lastly, we reported that OMB’s capital planning guidance for fiscal year 2018\(^\text{46}\) (issued in June 2016) lacked clarity regarding how agencies were to address the requirement for certifying adequate incremental development. While the 2018 guidance stated that agency CIOs are to provide the certifications needed to demonstrate compliance with FITARA, the guidance did not include a specific reference to the provision requiring CIO certification of adequate incremental development. We noted that, as a result of this change, OMB placed the burden on agencies to know and understand how to demonstrate compliance with FITARA’s incremental development provision. Further, because of the lack of clarity in the guidance as to what agencies were to provide, OMB

\(^{46}\text{OMB, FY 2017 IT Budget—Capital Planning Guidance.}\)
could not demonstrate how the fiscal year 2018 guidance ensured that agencies provided the certifications specifically called for in the law.

Accordingly, in August 2017, OMB issued its fiscal year 2019 guidance, which addressed the weaknesses we identified in the previous fiscal year’s guidance. Specifically, the revised guidance requires agency CIOs to make an explicit statement regarding the extent to which the CIO is able to certify the use of incremental development, and to include a copy of that statement in the agency’s public congressional budget justification materials. As part of the statement, an agency CIO must also identify which specific bureaus or offices are using incremental development on all of their investments.

In our November 2017 report, we made 19 recommendations to 17 agencies to improve reporting and certification of incremental development. Eleven agencies agreed with our recommendations, 1 partially agreed, and 5 did not state whether they agreed or disagreed. OMB disagreed with several of our conclusions, which we continued to believe were valid.

In total, from May 2014 through November 2017, we have made 42 recommendations to OMB and agencies to improve their implementation of incremental development. As of November 2017, 34 of our recommendations remained open.

 Agencies Need to Better Manage Software Licenses to Achieve Savings

Federal agencies engage in thousands of software licensing agreements annually. The objective of software license management is to manage, control, and protect an organization’s software assets. Effective management of these licenses can help avoid purchasing too many licenses, which can result in unused software, as well as too few licenses, which can result in noncompliance with license terms and cause the imposition of additional fees.

As part of its PortfolioStat initiative, OMB has developed policy that addresses software licenses. This policy requires agencies to conduct an annual, agency-wide IT portfolio review to, among other things, reduce

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commodity IT spending. Such areas of spending could include software licenses.

In May 2014, we reported on federal agencies’ management of software licenses and determined that better management was needed to achieve significant savings government-wide. In particular, 22 of the 24 major agencies did not have comprehensive license policies and only 2 had comprehensive license inventories. In addition, we identified five leading software license management practices, and the agencies’ implementation of these practices varied.

As a result of agencies’ mixed management of software licensing, agencies’ oversight of software license spending was limited or lacking, thus potentially leading to missed savings. However, the potential savings could be significant considering that, in fiscal year 2012, 1 major federal agency reported saving approximately $181 million by consolidating its enterprise license agreements, even when its oversight process was ad hoc. Accordingly, we recommended that OMB issue needed guidance to agencies; we also made 135 recommendations to the 24 agencies to improve their policies and practices for managing licenses. Among other things, we recommended that the agencies regularly track and maintain a comprehensive inventory of software licenses and analyze the inventory to identify opportunities to reduce costs and better inform investment decision making.

Most agencies generally agreed with the recommendations or had no comments. As of November 2017, 112 of the recommendations had not been implemented. Table 2 reflects the extent to which agencies implemented recommendations in these areas.

### Table 2: Agencies' Implementation of Software License Management Recommendations

<table>
<thead>
<tr>
<th>Agency</th>
<th>Tracks and maintains a comprehensive inventory</th>
<th>Uses inventory to make decisions and reduce costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Agriculture</td>
<td>Fully</td>
<td>Fully</td>
</tr>
<tr>
<td>Department of Commerce</td>
<td>Partially</td>
<td>Fully</td>
</tr>
<tr>
<td>Department of Defense</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>Department of Education</td>
<td>Fully</td>
<td>Fully</td>
</tr>
<tr>
<td>Department of Energy</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>Department of Health and Human Services</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>Department of Homeland Security</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>Department of Housing and Urban Development</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>Department of Justice</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>Department of Labor</td>
<td>Fully</td>
<td>Partially</td>
</tr>
<tr>
<td>Department of State</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>Department of the Interior</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>Department of the Treasury</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>Department of Transportation</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>Department of Veterans Affairs</td>
<td>Fully</td>
<td>Fully</td>
</tr>
<tr>
<td>Environmental Protection Agency</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>General Services Administration</td>
<td>Fully</td>
<td>Fully</td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>Fully</td>
<td>Fully</td>
</tr>
<tr>
<td>Nuclear Regulatory Commission</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>Office of Personnel Management</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>Small Business Administration</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>Social Security Administration</td>
<td>Partially</td>
<td>Partially</td>
</tr>
<tr>
<td>U.S. Agency for International Development</td>
<td>Fully</td>
<td>Fully</td>
</tr>
</tbody>
</table>

**Key:**
- **Fully**—the agency provided evidence that it fully addressed this recommendation
- **Partially**—the agency had plans to address this recommendation

*Source: GAO analysis.* | GAO-18-234T

In conclusion, with the enactment of FITARA, the federal government has an opportunity to save billions of dollars; improve the transparency and management of IT acquisitions and operations; and to strengthen the authority of CIOs to provide needed direction and oversight. The forum
we held also recommended that CIOs be given more authority, and noted the important role played by the Federal CIO.

Most agencies have taken steps to improve the management of IT acquisitions and operations by implementing key FITARA initiatives, including data center consolidation, efforts to increase transparency via OMB’s IT Dashboard, incremental development, and management of software licenses; and they have continued to address recommendations we have made over the past several years. However, additional improvements are needed, and further efforts by OMB and federal agencies to implement our previous recommendations would better position them to fully implement FITARA.

To help ensure that these efforts succeed, OMB’s and agencies’ continued implementation of FITARA is essential. In addition, we will continue to monitor agencies’ implementation of our previous recommendations.

Chairmen Meadows and Hurd, Ranking Members Connolly and Kelly, and Members of the Subcommittees, this completes my prepared statement. I would be pleased to respond to any questions that you may have at this time.

**GAO Contacts and Staff Acknowledgments**

If you or your staff have any questions about this testimony, please contact Dave Powner, Director, Information Technology at (202) 512-9286 or pownerd@gao.gov. Contact points for our Offices of Congressional Relations and Public Affairs may be found on the last page of this statement. GAO staff who made key contributions to this testimony are Kevin Walsh (Assistant Director), Chris Businsky, Rebecca Eyler, Meredith Raymond, and Bradley Roach (Analyst in Charge).
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