DEFENSE ACQUISITIONS

Fundamental Changes Are Needed to Improve Weapon Program Outcomes

Statement of Michael J. Sullivan, Director
Acquisition and Sourcing Management
What GAO Found

DOD is not receiving expected returns on its large investment in weapon systems. Since fiscal year 2000, DOD significantly increased the number of major defense acquisition programs and its overall investment in them. During this same time period, the performance of the DOD portfolio has gotten worse. The total acquisition cost of DOD’s 2007 portfolio of major programs under development or in production has grown by nearly $300 billion over initial estimates. Current programs are also experiencing, on average, a 21-month delay in delivering initial capabilities to the warfighter—often forcing DOD to spend additional funds on maintaining legacy systems.

Systemic problems both at the strategic and at the program level underlie cost growth and schedule delays. At the strategic level, DOD’s processes for identifying warfighter needs, allocating resources, and developing and procuring weapon systems—which together define DOD’s overall weapon system investment strategy—are fragmented and broken. At the program level, weapon system programs are initiated without sufficient knowledge about system requirements, technology, and design maturity. Lacking such knowledge, managers rely on assumptions that are consistently too optimistic, exposing programs to significant and unnecessary risks and ultimately cost growth and schedule delays.

Our work shows that acquisition problems will likely persist until DOD provides a better foundation for buying the right things, the right way. This involves making tough decisions as to which programs should be pursued, and more importantly, not pursued; making sure programs can be executed; locking in requirements before programs are ever started; and making it clear who is responsible for what and holding people accountable when responsibilities are not fulfilled. Recent congressionally mandated changes to the DOD acquisition system, as well as initiatives being pursued by the department, include positive steps that, if implemented properly, could provide a foundation for establishing a well balanced investment strategy, sound business cases for major weapon system acquisition programs, and a better chance to spend resources wisely.

At the same time, DOD must begin making better choices that reflect joint capability needs and match requirements with resources. DOD investment decisions cannot continue to be dictated by the military services who propose programs that overpromise capabilities and underestimate costs to capture the funding needed to start and sustain development programs. To better ensure warfighter capabilities are delivered when needed and as promised, incentives must encourage a disciplined, knowledge-based approach, and a true partnership with shared goals must be developed among the department, the military services, the Congress, and the defense industry.
Mr. Chairman and Members of the Subcommittee:

I am pleased to be here today to discuss the Department of Defense’s (DOD) management of its major weapon system acquisitions—an area that has been on GAO’s high risk list since 1990. Prior to and since that time, Congress and DOD have continually explored ways to improve acquisition outcomes without much to show for their efforts. DOD’s major weapon system programs continue to take longer, cost more, and deliver fewer quantities and capabilities than originally planned. Current operational demands have highlighted the impact of these persistent problems as DOD has been forced to work outside of its traditional acquisition process to acquire equipment that meet warfighter needs.

Investment in weapons acquisition programs is now at its highest level in two decades. The department expects to invest more than $357 billion over the next 5 years on the development and procurement of major defense acquisition programs. Given the size of this investment, poor outcomes in DOD’s weapon system programs reverberate across the entire federal government. Every dollar wasted during the development and acquisition of weapon systems is money not available for other internal and external budget priorities—such as the war on terror and mandatory payments to growing entitlement programs.

My statement today is drawn from our body of work on DOD’s acquisition, requirements, and funding processes, as well as our annual assessment of selected DOD weapon programs. My statement today focuses on (1) the performance of DOD’s major defense acquisition program portfolio; (2) the underlying systemic problems that contribute to poor cost and schedule outcomes; (3) potential solutions based on past GAO recommendations; and (4) recent congressional and DOD actions and the extent to which those actions can be expected to improve the future performance of DOD’s major defense acquisition programs. Our work was conducted in September 2008 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.

Summary

Since fiscal year 2000, DOD significantly increased the number of major defense acquisition programs and its overall investment in them. During this same time period, acquisition outcomes have not improved. Based on
our analysis, total acquisition costs for the fiscal year 2007 portfolio of major defense acquisition programs increased 26 percent and development costs increased by 40 percent from first estimates—both of which are higher than the corresponding increases in DOD’s fiscal year 2000 portfolio. In most cases, the programs we assessed failed to deliver capabilities when promised—often forcing warfighters to spend additional funds on maintaining legacy systems. Our analysis shows that current programs are experiencing, on average, a 21-month delay in delivering initial capabilities to the warfighter, a 5-month increase over fiscal year 2000 programs.

Several underlying systemic problems at the strategic level and at the program level continue to contribute to poor weapon system program outcomes. At the strategic level, DOD does not prioritize weapon system investments and the department’s processes for matching warfighter needs with resources are fragmented and broken. At the program level, programs are started without knowing what resources will truly be needed and are managed with lower levels of product knowledge at critical junctures than expected under best practices standards. In the absence of such knowledge, managers rely heavily on assumptions about system requirements, technology, and design maturity, which are consistently too optimistic. This exposes programs to significant and unnecessary technology, design, and production risks, and ultimately damaging cost growth and schedule delays. DOD officials are rarely held accountable for these poor outcomes and the acquisition environment does not provide the appropriate incentives for contractors to stay within cost and schedule targets, making them a strong enabler of the status quo.

These problems will likely persist until DOD provides a better foundation for buying the right things, the right way and holds decision makers, program managers, and contractors accountable. Across-the-board improvements in acquisition outcomes require fundamental changes. This involves (1) maintaining the right mix of programs to invest in by making better decisions as to which programs should be pursued given existing and expected funding and, more importantly, deciding which programs should not be pursued; (2) ensuring that programs that are started can be executed by matching requirements with resources and locking in those requirements; and (3) making it clear that programs will then be executed based on knowledge and holding program managers responsible for that execution. We have made similar recommendations in past GAO reports, but DOD has disagreed with some and not fully implemented others.
There is some reason for optimism. Recent congressionally mandated changes to the DOD acquisition system, as well as initiatives being pursued by the department, could improve DOD’s overall investment strategy and the soundness of the programs it allows to move forward. Congress has enacted legislation that requires DOD to certify that programs meet specific criteria at key decision points early in the acquisition process; report on its strategies for balancing the allocation of funds and other resources among major defense acquisition programs; and identify strategies for enhancing the role of program managers in carrying out acquisition programs. Based in part on GAO recommendations and congressional direction, DOD has also begun several policy initiatives including a new concept decision review initiative, acquisition approaches with shorter and more certain delivery time frames, a requirement for more prototyping early in programs, and the establishment of review boards to monitor weapon system configuration changes, which are designed to enable key department leaders to make informed decisions before a program starts and maintain discipline once it begins.

While legislation and policy revisions can help guide change, DOD must begin making better choices that reflect joint capability needs and match requirements with resources or the department will continue to experience poor acquisition outcomes. DOD and the military services cannot continue to view success through the prism of securing the funding needed to start and sustain new programs. Sound programs should be the natural outgrowth of a disciplined knowledge-based process. DOD’s policy emphasizes the importance of a knowledge-based approach, but practice does not always follow policy. The transitory nature of leadership and the stovepiped process further undermines successful reform. Meaningful and lasting reform will not be achieved until the right incentives are established and accountability is bolstered at all levels of the acquisition process—both within the department and in the defense industry. Finally, unless all of the players involved with acquisitions—the Congress, DOD, and perhaps most importantly, the military services—have unified goals, outcomes are not likely to improve.
DOD’s Major Acquisition Programs Continue to Experience Significant Cost Growth and Schedule Delays

DOD is not receiving expected returns on its large investment in weapon systems. The total acquisition cost of DOD’s 2007 portfolio of major programs under development or in production has grown by nearly $300 billion over initial estimates. While DOD is committing substantially more investment dollars to develop and procure new weapon systems, our analysis shows that the 2007 portfolio is experiencing greater cost growth and schedule delays than the fiscal years 2000 and 2005 portfolios (see table 1).\(^1\) Total acquisition costs for programs in DOD’s fiscal year 2007 portfolio have increased 26 percent from first estimates—compared to a 6-percent increase for programs in its fiscal year 2000 portfolio. Total RDT&E costs for programs in 2007 have increased by 40 percent from first estimates, compared to 27 percent for programs in 2000. The story is no better when expressed in unit costs. Schedule delays also continue to impact programs. On average, the current portfolio of programs has experienced a 21-month delay in delivering initial operational capability to the warfighter, and 14 percent are more than 4 years late.

\(^1\) Our analysis in this area reflects comparisons of performance for programs meeting DOD’s criteria for being a major defense acquisition program in fiscal year 2007 and programs meeting the same criteria in fiscal years 2005 and 2000. The analysis does not include all the same systems in all 3 years.
Table 1: Analysis of DOD Major Defense Acquisition Program Portfolios

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<thead>
<tr>
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<tbody>
<tr>
<td><strong>Portfolio size</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of programs</td>
<td>75</td>
<td>91</td>
<td>95</td>
</tr>
<tr>
<td>Total planned commitments</td>
<td>$790 Billion</td>
<td>$1.5 Trillion</td>
<td>$1.6 Trillion</td>
</tr>
<tr>
<td>Commitments outstanding</td>
<td>$380 Billion</td>
<td>$887 Billion</td>
<td>$858 Billion</td>
</tr>
<tr>
<td><strong>Portfolio performance</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Change to total RDT&amp;E costs from first estimate</td>
<td>27 percent</td>
<td>33 percent</td>
<td>40 percent</td>
</tr>
<tr>
<td>Change in total acquisition cost from first estimate</td>
<td>6 percent</td>
<td>18 percent</td>
<td>26 percent</td>
</tr>
<tr>
<td>Estimated total acquisition cost growth</td>
<td>$42 Billion</td>
<td>$202 Billion</td>
<td>$295 Billion</td>
</tr>
<tr>
<td>Share of programs with 25 percent or more increase in program acquisition unit cost</td>
<td>37 percent</td>
<td>44 percent</td>
<td>44 percent</td>
</tr>
<tr>
<td>Average schedule delay in delivering initial capabilities</td>
<td>16 months</td>
<td>17 months</td>
<td>21 months</td>
</tr>
</tbody>
</table>

Source: GAO analysis of DOD data.

Note: Data were obtained from DOD’s Selected Acquisition Reports (dated December 1999, 2004, and 2006) or, in a few cases, data were obtained directly from program offices. Number of programs reflects the programs with Selected Acquisition Reports. In our analysis we have broken a few Selected Acquisition Report programs (such as Missile Defense Agency systems) into smaller elements or programs. Not all programs had comparative cost and schedule data, and these programs were excluded from the analysis where appropriate. Also, data do not include full costs of developing Missile Defense Agency systems.

Continued cost growth results in less funding being available for other DOD priorities and programs, while continued failure to deliver weapon systems on time delays providing critical capabilities to the warfighter. Put simply, cost growth reduces DOD’s buying power. As program costs increase, DOD must request more funding to cover the overruns, make trade-offs with existing programs, delay the start of new programs, or take funds from other accounts. Delays in providing capabilities to the warfighter result in the need to operate costly legacy systems longer than expected, find alternatives to fill capability gaps, or go without the capability. The warfighter’s urgent need for the new weapon system is often cited when the case is first made for developing and producing the system. However, DOD has already missed fielding dates for many programs and many others are behind schedule.
Over the past several years our work has highlighted a number of underlying systemic causes for cost growth and schedule delays both at the strategic and at the program level. At the strategic level, DOD’s processes for identifying warfighter needs, allocating resources, and developing and procuring weapon systems—which together define DOD’s overall weapon system investment strategy—are fragmented and broken. At the program level, the military services propose and DOD approves programs without adequate knowledge about requirements and the resources needed to successfully execute the program within cost, schedule, and performance targets.

DOD largely continues to define war fighting needs and make investment decisions on a service-by-service basis, and assess these requirements and their funding implications under separate decision-making processes. While DOD’s requirements process provides a framework for reviewing and validating needs, it does not adequately prioritize those needs and is not agile enough to meet changing warfighter demands. Ultimately, the process produces more demand for new programs than available resources can support. This imbalance promotes an unhealthy competition for funds that encourages programs to pursue overly ambitious capabilities, develop unrealistically low cost estimates and optimistic schedules, and to suppress bad news. Similarly, DOD’s funding process does not produce an accurate picture of the department’s future resource needs for individual programs—in large part because it allows programs to go forward with unreliable cost estimates and lengthy development cycles—not a sound basis for allocating resources and ensuring program stability. Invariably, DOD and the Congress end up continually shifting funds to and from programs—undermining well-performing programs to pay for poorly performing ones.

At the program level, the key cause of poor outcomes is the consistent lack of disciplined analysis that would provide an understanding of what it would take to field a weapon system before system development. Our body of work in best practices has found that an executable business case is one that provides demonstrated evidence that (1) the identified needs are real and necessary and that they can best be met with the chosen concept and (2) the chosen concept can be developed and produced within existing resources—including technologies, funding, time, and management capacity. Although DOD has taken steps to revise its acquisition policies and guidance to reflect the benefits of a knowledge-based approach, we have found no evidence of widespread adoption of
such an approach in the department. Our most recent assessment of major weapon systems found that the vast majority of programs began development with unexecutable business cases, and did not attain, or plan to achieve, adequate levels of knowledge before reaching design review and production start—the two key junctures in the process following development start (see figure 2).

Figure 2: Knowledge Achievement for Weapon System Programs in 2008 Assessment at Key Junctures

<table>
<thead>
<tr>
<th>Key junctures</th>
<th>Development start</th>
<th>Design review</th>
<th>Production start</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge point 1</td>
<td>Mature all critical technologies</td>
<td>Achieve knowledge point 1 on time and complete 90 percent of engineering drawings</td>
<td>Achieve knowledge points 1 and 2 on time, and have all critical processes under statistical control</td>
</tr>
</tbody>
</table>

Source: GAO analysis of DOD data.

*Not all programs provided information for each knowledge point or had passed through all three key junctures.

In our assessment of two programs, the Light Utility Helicopter and the Joint Cargo Aircraft, are depicted as meeting all three knowledge points when they began at production start. We excluded these two programs from our analysis because they were based on commercially available products and we did not assess their knowledge attainment with our best practices metrics.

Knowledge gaps are largely the result of a lack of disciplined systems engineering analysis prior to beginning system development. Systems engineering translates customer needs into specific product requirements for which requisite technological, software, engineering, and production capabilities can be identified through requirements analysis, design, and testing. Early systems engineering provides knowledge that enables a developer to identify and resolve gaps before product development begins. Because the government often does not perform the proper up-front analysis to determine whether its needs can be met, significant contract cost increases can occur as the scope of the requirements change or become better understood by the government and contractor. Not only does DOD not typically conduct disciplined systems engineering prior to beginning system development, it has allowed new requirements to be
added well into the acquisition cycle. The acquisition environment encourages launching ambitious product developments that embody more technical unknowns and less knowledge about the performance and production risks they entail. A new weapon system is not likely to be approved unless it promises the best capability and appears affordable within forecasted available funding levels. We have recently reported on the negative impact that poor systems engineering practices have had on several programs such as the Global Hawk Unmanned Aircraft System, F-22A, Expeditionary Fighting Vehicle, Joint Air-to-Surface Standoff Missile and others.²

With high levels of uncertainty about technologies, design, and requirements, program cost estimates and related funding needs are often understated, effectively setting programs up for failure. We recently compared the service and independent cost estimates for 20 major weapon system programs and found that the independent estimate was higher in nearly every case, but the difference between the estimates was typically not significant. We also found that both estimates were too low in most cases, and the knowledge needed to develop realistic cost estimates was often lacking. For example, program Cost Analysis Requirements Description documents—used to build the program cost estimate—are not typically based on demonstrated knowledge and therefore provide a shaky foundation for estimating costs. Cost estimates have proven to be off by billions of dollars in some of the programs we reviewed. For example, the initial Cost Analysis Improvement Group estimate for the Expeditionary Fighting Vehicle program was about $1.4 billion compared to a service estimate of about $1.1 billion, but development costs for the system are now expected to be close to $3.6 billion. Estimates this far off the mark do not provide the necessary foundation for sufficient funding commitments and realistic long-term planning.

When DOD consistently allows unsound, unexecutable programs to pass through the requirements, funding, and acquisition processes, accountability suffers. Program managers cannot be held accountable when the programs they are handed already have a low probability of success. In addition, they are not empowered to make go or no-go decisions, have little control over funding, cannot veto new requirements,

and they have little authority over staffing. At the same time, program managers frequently change during a program’s development.

Limiting the length of development cycles would make it easier to more accurately estimate costs, predict the future funding needs, effectively allocate resources, and hold decision makers accountable. We have consistently emphasized the need for DOD’s weapon programs to establish shorter development cycles. DOD’s conventional acquisition process often requires as many as 10 or 15 years to get from program start to production. Such lengthy cycle times promote program instability—especially when considering DOD’s tendency to change requirements and funding as well as leadership. Constraining cycle times to 5 or 6 years would force programs to conduct more detailed systems engineering analyses, lend itself to fully funding programs to completion, and thereby increasing the likelihood that their requirements can be met within established time frames and available resources. An assessment of DOD’s acquisition system commissioned by the Deputy Secretary of Defense in 2006 similarly found that programs should be time-constrained to reduce pressure on investment accounts and increase funding stability for all programs.

The Way Forward: Potential Solutions

Our work shows that acquisition problems will likely persist until DOD provides a better foundation for buying the right things, the right way. This involves (1) maintaining the right mix of programs to invest in by making better decisions as to which programs should be pursued given existing and expected funding and, more importantly, deciding which programs should not be pursued; (2) ensuring that programs that are started can be executed by matching requirements with resources and locking in those requirements; and (3) making it clear that programs will then be executed based on knowledge and holding program managers responsible for that execution. We have made similar recommendations in past GAO reports, but DOD has disagreed with some and not fully implemented others.

These changes will not be easy to make. They will require DOD to reexamine not only its acquisition process, but its requirement setting and funding processes as well. They will also require DOD to change how it views program success, and what is necessary to achieve success. This includes changing the environment and incentives that lead DOD and the military services to overpromise on capability and underestimate costs in order to sell new programs and capture the funding needed to start and sustain them. Finally, none of this will be achieved without a true partnership among the department, the military services, the Congress,
and the defense industry. All of us must embrace the idea of change and work diligently to implement it.

Buy the Right Things: Develop and Implement an Investment Strategy

The first, and most important, step toward improving acquisition outcomes is implementing a new DOD-wide investment strategy for weapon systems. We have reported that DOD should develop an overarching strategy and decision-making processes that prioritize programs based on a balanced match between customer needs and available department resources—that is the dollars, technologies, time, and people needed to achieve these capabilities. We also recommended that capabilities not designated as a priority should be set out separately as desirable but not funded unless resources were both available and sustainable. This means that the decision makers responsible for weapon system requirements, funding, and acquisition execution must establish an investment strategy in concert.

DOD's Under Secretary of Defense for Acquisition, Technology and Logistics—DOD's corporate leader for acquisition—should develop this strategy in concert with other senior leaders, for example, combatant commanders who would provide input on user needs; DOD's comptroller and science and technology leaders, who would provide input on available resources; and acquisition executives from the military services, who could propose solutions. Finally, once priority decisions are made, Congress will need to enforce discipline through its legislative and oversight mechanisms.

Buy the Right Way: Ensure Individual Programs Can Be Executed

Once DOD has prioritized capabilities, it should work vigorously to make sure each new program can be executed before the acquisition begins. More specifically, this means assuring requirements for specific weapon systems are clearly defined and achievable given available resources and that all alternatives have been considered. System requirements should be agreed to by service acquisition executives as well as combatant commanders. Once programs begin, requirements should not change without assessing their potential disruption to the program and assuring that they can be accommodated within time and funding constraints. In addition, DOD should prove that technologies can work as intended before including them in acquisition programs. More ambitious technology development efforts should be assigned to the science and technology community until they are ready to be added to future generations of the product. DOD should also require the use of independent cost estimates as a basis for budgeting funds. Our work over the past 10 years has
consistently shown when these basic steps are taken, programs are better positioned to be executed within cost and schedule.

To keep programs executable, DOD should demand that all milestone decisions be based on quantifiable data and demonstrated knowledge. These data should cover critical program facets such as cost, schedule, technology readiness, design readiness, production readiness, and relationships with suppliers. Development should not be allowed to proceed until certain knowledge thresholds are met—for example, a high percentage of engineering drawings completed at critical design review. DOD’s current policies encourage these sorts of metrics to be used as a basis for decision making, but they do not demand it. DOD should also place boundaries on the time allowed for system development.

To further ensure that programs can be executed, DOD should pursue an evolutionary path toward meeting user needs rather than attempting to satisfy all needs in a single step. This approach has been consistently used by successful commercial companies we have visited over the past decade because it provides program managers with more achievable requirements, which, in turn, facilitate shorter cycle times. With shorter cycle times, the companies we have studied have also been able to assure that program managers and senior leaders stay with programs throughout the duration of a program.

DOD has policies that encourage evolutionary development, but programs often favor pursuing more revolutionary, exotic solutions that will attract funds and support. The department and, more importantly, the military services, tend to view success as capturing the funding needed to start and sustain a development program. In order to do this, they must overpromise capability and underestimate cost. In order for DOD to move forward, this view of success must change. World-class commercial firms identify success as developing products within cost estimates and delivering them on time in order to survive in the marketplace. This forces incremental, knowledge-based product development programs that improve capability as new technologies are matured.

Hold People Accountable

To strengthen accountability, DOD must also clearly delineate responsibilities among those who have a role in deciding what to buy as well as those who have role in executing, revising, and terminating programs. Within this context, rewards and incentives must be altered so that success can be viewed as delivering needed capability at the right
price and the right time, rather than attracting and retaining support for numerous new and ongoing programs.

To enable accountability to be exercised at the program level once a program begins, DOD will need to (1) match program manager tenure with development or the delivery of a product; (2) tailor career paths and performance management systems to incentivize longer tenures; (3) strengthen training and career paths as needed to ensure program managers have the right qualifications to manage the programs they are assigned to; (4) empower program managers to execute their programs, including an examination of whether and how much additional authority can be provided over funding, staffing, and approving requirements proposed after the start of a program; and (5) develop and provide automated tools to enhance management and oversight as well as to reduce the time required to prepare status information.

DOD also should hold contractors accountable for results. As we have recommended, this means structuring contracts so that incentives actually motivate contractors to achieve desired acquisition outcomes and withholding fees when those goals are not met.

Recognizing the need for more discipline and accountability in the acquisition process, Congress recently enacted legislation that, if followed, could result in a better chance to spend resources wisely. Likewise, DOD has recently begun to develop several initiatives, based in part on congressional direction and GAO recommendations that, if implemented properly, could also provide a foundation for establishing a well balanced investment strategy and sound, knowledge-based business cases for individual acquisition programs.

Congress has enacted legislation that requires DOD to take certain actions which, if followed, could instill more discipline into the front-end of the acquisition process when key knowledge is gained and ultimately improve acquisition outcomes. For example, legislation enacted in 2006 and 2008 requires decision-makers to certify that specific levels of knowledge have been demonstrated at key decision points early in the acquisition process before programs can receive milestone approval for the technology development phase or the system development phase respectively. The 2006 legislation also requires programs to track unit cost growth against
their original baseline estimates—and not only their most recent estimates—and requires an additional assessment of the program if certain cost growth thresholds are reached. Other key legislation requires DOD to report on the department’s strategies for balancing the allocation of funds and other resources among major defense acquisition programs, and to identify strategies for enhancing the role of program managers in carrying out acquisition programs.

### Recent DOD Actions Provide Opportunities for Improvement

DOD has also initiated actions aimed at improving investment decisions and weapon system acquisition outcomes, based in part on congressional direction and GAO recommendations. Each of the initiatives is designed to enable more informed decisions by key department leaders well ahead of a program’s start, decisions that provide a closer match between each program’s requirements and the department’s resources. For example:

- DOD is experimenting with a new concept decision review, different acquisition approaches according to expected fielding times, and panels to review weapon system configuration changes that could adversely affect program cost and schedule.

- DOD is also testing portfolio management approaches in selected capability areas to facilitate more strategic choices about how to allocate resources across programs and also testing the use of capital budgeting as a potential means to stabilize program funding.

- In September 2007, the Office of the Under Secretary of Defense for Acquisition, Technology and Logistics issued a policy memorandum to ensure weapons acquisition programs were able to demonstrate key knowledge elements that could inform future development and budget decisions. This policy directed pending and future programs to include acquisition strategies and funding that provide for contractors to develop technically mature prototypes prior to initiating system development, with the hope of reducing technical risk, validating designs and cost estimates, evaluating manufacturing processes, and refining requirements.

- DOD also plans to implement new practices that reflect past GAO recommendations intended to provide program managers more incentives, support, and stability. The department acknowledges that any actions taken to improve accountability must be based on a foundation whereby program managers can launch and manage programs toward greater performance, rather than focusing on maintaining support and funding for individual programs. DOD acquisition leaders have told us that any
Improvements to program managers' performance hinge on the success of these departmental initiatives.

- In addition, DOD has taken actions to strengthen the link between award and incentive fees with desired program outcomes, which has the potential to increase the accountability of DOD programs for fees paid and of contractors for results achieved.

If adopted and implemented properly these actions could provide a foundation for establishing sound, knowledge-based business cases for individual acquisition programs, and the means for executing those programs within established cost, schedule, and performance goals.

Concluding Observations on Achieving Successful and Lasting Reform

DOD understands what it needs to do at the strategic and at the program level to improve acquisition outcomes. The strategic vision of the current Under Secretary of Defense for Acquisition, Technology and Logistics acknowledges the need to create a high-performing, boundary-less organization—one that seeks out new ideas and new ways of doing business and is prepared to question requirements and traditional processes. Past efforts have had similar goals, yet we continue to find all too often that DOD's investment decisions are too service- and program-centric and that the military services overpromise capabilities and underestimate costs to capture the funding needed to start and sustain development programs. This acquisition environment has been characterized in many different ways. For example, some have described it as a "conspiracy of hope," in which industry is encouraged to propose unrealistic cost estimates, optimistic performance, and understated technical risks during the proposal process and DOD is encouraged to accept these proposals as the foundation for new programs. Either way, it is clear that DOD's implied definition of success is to attract funds for new programs and to keep funds for ongoing programs, no matter what the impact. DOD and the military services cannot continue to view success through this prism.

More legislation can be enacted and policies can be written, but until DOD begins making better choices that reflect joint capability needs and matches requirements with resources, the acquisition environment will continue to produce poor outcomes. It should not be necessary to take extraordinary steps to ensure needed capabilities are delivered to the warfighter on time and within costs. Executable programs should be the natural outgrowth of a disciplined, knowledge-based process. While DOD's current policy supports a knowledge-based, evolutionary approach to
acquiring new weapons, in practice decisions made on individual programs often sacrifice knowledge and realism in favor of revolutionary solutions. Meaningful and lasting reform will not be achieved until DOD changes the acquisition environment and the incentives that drive the behavior of DOD decision-makers, the military services, program managers, and the defense industry. Finally, no real reform can be achieved without a true partnership among all these players and the Congress.

Mr. Chairman, this concludes my prepared statement. I would be happy to answer any questions you may have at this time.

For further questions about this statement, please contact Michael J. Sullivan at (202) 512-4841. Individuals making key contributions to this statement include Ron Schwenn, Assistant Director; Kenneth E. Patton, and Alyssa B. Weir.
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