Testimony
Before the Subcommittee on Research and Technology and the Subcommittee on
Oversight, Committee on Science, Space, and Technology, House of Representatives

DEPARTMENT OF
HOMELAND SECURITY

Continued Actions Needed to Strengthen Oversight and Coordination of Research and Development

Statement of David C. Maurer, Director
Homeland Security and Justice
Why GAO Did This Study

Conducting R&D on technologies for detecting, preventing, and mitigating terrorist threats is vital to enhancing the security of the nation. Since its creation, DHS has spent billions of dollars researching and developing technologies used to support its missions including securing the border, and detecting nuclear material among others. Within DHS, S&T conducts and is responsible for coordinating R&D across the department. Other components also conduct R&D to support their respective missions.

This statement discusses (1) how much DHS invests in R&D and the extent to which DHS has policies and guidance for defining and overseeing its R&D efforts across the department, (2) the extent to which R&D is coordinated across DHS, and (3) the results of DHS border and maritime security R&D efforts and the extent to which DHS has obtained feedback on these efforts. This statement is based on GAO’s previously issued work from September 2012 to September 2013, and selected updates conducted in July 2014 on the status of GAO’s prior recommendations. To conduct the updates, GAO reviewed agency documentation.

What GAO Recommends

In its prior reports, GAO recommended, among other things, that DHS develop policies and guidance for defining, overseeing, coordinating, and tracking R&D activities across the department; and that S&T collect and evaluate feedback from its customers. DHS concurred with GAO’s recommendations and has actions underway to address them.

What GAO Found

In September 2012, GAO reported that the Department of Homeland Security (DHS) did not know the total amount its components invested in research and development (R&D) and did not have policies and guidance for defining R&D and overseeing R&D resources across the department. According to DHS, its Science & Technology Directorate (S&T), Domestic Nuclear Detection Office (DNDO), and Coast Guard were the only components that conducted R&D, and GAO found that these were the only components that reported budget authority, obligations, or outlays for R&D activities to the Office of Management and Budget. However, GAO identified an additional $255 million in R&D obligations made by other DHS components. At the time of GAO’s review, DHS reported it was difficult to identify all R&D investments across the department because DHS did not have a department wide policy defining R&D or guidance directing components how to report all R&D activities. GAO recommended that DHS develop policies to assist components in better understanding how to report R&D activities and better position DHS to determine R&D investments. DHS concurred with the recommendation and, as of July 2014, had updated its guidance to include a definition of R&D but had not yet determined the most effective path to guide R&D across the department. GAO will continue to monitor DHS’s efforts to develop its approach for overseeing R&D at the department.

GAO also reported in September 2012 that S&T had taken some steps to coordinate R&D efforts across DHS, but the department's R&D efforts were fragmented and overlapping, which increased the risk of unnecessary duplication. GAO recommended that DHS develop a policy defining roles and responsibilities for coordinating R&D and establish a mechanism to track all R&D projects to help DHS mitigate existing fragmentation and overlap and reduce the risk of unnecessary duplication. DHS concurred with the recommendation. As of July 2014, S&T has not developed new policy guidance but is conducting portfolio reviews across the department, as directed by the fiscal year 2013 appropriations act, aimed at coordinating R&D activities. GAO will continue to monitor DHS’s efforts to develop a policy to better coordinate and track R&D activities at the department.

In September 2013, GAO reported that DHS border and maritime R&D components reported producing 97 R&D deliverables from fiscal year 2010 through 2012 at an estimated cost of $177 million. GAO found that the type of border and maritime R&D deliverables produced by S&T, the Coast Guard, and DNDO varied, and R&D customers GAO met with had mixed views on the impact of the deliverables. These deliverables included knowledge products and reports, technology prototypes, and software. For example, S&T developed prototype radar and video systems for use by Border Patrol. However, GAO reported that S&T had not established timeframes for collecting and evaluating feedback on the extent to which deliverables met customers’ needs. GAO recommended that S&T collect such feedback from its customers to better determine the usefulness and impact of its R&D projects and deliverables and make better-informed decisions regarding future work. As of July 2014, DHS had taken steps to address this recommendation, including making plans to gather customer feedback. GAO will continue to monitor DHS’s efforts in this area.

View GAO-14-813T and GAO-13-732. For more information, contact Dave Maurer at (202) 512-9627 or maurerd@gao.gov.
Chairman Bucshon, Chairman Broun, Ranking Member Lipinski, Ranking Member Maffei, and Members of the Committee:

I appreciate the opportunity to testify today about our prior work discussing the results of the Department of Homeland Security’s (DHS) research and development (R&D) efforts, including the extent to which its R&D efforts are coordinated within DHS and the results of DHS’s border and maritime security R&D efforts. According to the Office of Management and Budget (OMB), R&D activities comprise creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture, and society, and the use of this stock of knowledge to devise new applications. R&D is further broken down into the categories of basic research, applied research, and development.

Conducting R&D on technologies for detecting, preventing, and mitigating terrorist threats is vital to enhancing the security of the nation. DHS, through its Science and Technology Directorate (S&T) and other components, conducts research, development, testing, and evaluation of new technologies that are intended to achieve a range of homeland security goals, including detecting and preventing the unauthorized entry of persons or contraband into the United States; strengthening efforts to prevent and respond to nuclear, biological, explosive, and other types of attacks; and securing U.S. ports and inland waterways. DHS S&T has responsibility for coordinating and integrating all R&D activities of the department, as provided by the Homeland Security Act of 2002.

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1OMB Circular No. A-11 Section 84.4. This definition includes administrative expenses for R&D, but excludes physical assets for R&D (such as R&D equipment and facilities), routine testing, quality control mapping, collection of general-purpose statistics, experimental production, routine monitoring and evaluation of an operational program and the training of scientific and technical personnel.

2According to OMB, basic research is a systematic study directed toward a fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications towards processes or products in mind. Applied research is a systematic study to gain knowledge or understanding to determine the means by which a recognized and specific need may be met. Development is a systematic application of knowledge or understanding, directed toward the production of useful materials, devices, and systems or methods, including design, development, and improvement of prototypes and new processes to meet specific requirements. OMB Circular No. A-11 Section 84.

Although S&T conducts R&D and has responsibility for coordinating R&D, other DHS components, including the Domestic Nuclear Detection Office (DNDO) and the U.S. Coast Guard, conduct R&D in support of their respective missions. Since it began operations in 2003, DHS, through both S&T and other components, has spent billions of dollars researching and developing technologies used to support a wide range of missions.

With respect to border and maritime R&D specifically, S&T’s Borders and Maritime Security Division (BMD) is responsible for most of S&T’s border and maritime related R&D and its primary DHS customer is U.S. Customs and Border Protection (CBP). Within S&T, the Office of University Programs manages the DHS Centers of Excellence, which constitute a network of universities that conduct research for DHS component agencies, with two centers dedicated specifically to border and maritime R&D. DNDO conducts R&D applicable to border and maritime security as it relates to its mission of detecting the use of an unauthorized nuclear explosive device, fissile material, or radiological material in the United States.4 The U.S. Coast Guard’s R&D efforts support all of the various Coast Guard missions, such as search and rescue, migrant interdiction, and marine safety.

My testimony today addresses (1) how much DHS invests in R&D and the extent to which it has policies and guidance for defining R&D and overseeing R&D resources and efforts across the department; (2) the extent to which R&D is coordinated within DHS to prevent overlap, fragmentation, and unnecessary duplication across the department; and (3) the results of DHS’s border and maritime security R&D and the extent to which DHS obtained and evaluated feedback on these efforts.

This statement is based on our previous reports and testimonies issued from September 2012 to September 2013 with selected updates conducted in July 2014 related to S&T’s efforts to better manage and

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coordinate its border and maritime R&D efforts.\(^5\) To conduct our earlier work, among other things, we analyzed data related to DHS’s R&D budget authority for fiscal years 2010 through 2013, R&D contracts issued by components to private industry and universities for fiscal years 2007 through 2011, and the Department of Energy’s (DOE) national laboratories from fiscal years 2010 through 2012 to identify how much DHS components obligated for R&D-related work at the national laboratories. We also met with R&D project managers and customers. For the selected updates, we reviewed agency documentation on DHS’s progress in implementing our prior recommendations. The reports cited provide detailed explanations of our scope and methodology.\(^6\) We conducted this work 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.

In September 2012, we found that DHS did not know how much its components invested in R&D, making it difficult to oversee R&D efforts across the department. According to DHS budget officials, S&T, DNDO, and the U.S. Coast Guard were the only components that conducted R&D and we found that they were the only components that reported budget authority, obligations, or outlays for R&D activities to OMB as part of the budget process. However, we reported that the data DHS submitted to OMB underreported DHS’s R&D obligations because DHS components obligated money for R&D contracts that were not reported to OMB as

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6\(^{\text{GAO-12-837 and GAO-13-732.}}\)
R&D. Specifically, for fiscal year 2011, we identified an additional $255 million in R&D obligations by other DHS components. These obligations included DHS components providing S&T with funding to conduct R&D on their behalf and components obligating funds through contracts directly to industry, universities, or with DOE’s national laboratories for R&D.

Further, we found that the data for fiscal years 2010 through 2013 DHS submitted to OMB also underreported DHS’s R&D budget authority and outlays because DNDO did not properly report at least $293 million in R&D budget authority and at least $282 million in R&D outlays. We reported that DHS budget officials agreed that DHS underreported its R&D spending and when asked, could not provide a reason why the omission was not flagged by DHS review.

In addition, in our 2012 report, we found that DHS’s R&D budget accounts included a mix of R&D and non-R&D spending. For fiscal year 2011, we estimated that 78 percent of S&T’s Research, Development, Acquisition, & Operations account, 51 percent of DNDO’s Research, Development, & Operations account, and 43 percent of the Coast Guard’s R&D budget account funded R&D activities. As a result, this further complicated DHS’s ability to identify its total investment in R&D.

We also reported in September 2012 that DHS did not have a department wide policy defining R&D or guidance directing components how to report R&D activities. As a result, we concluded that it was difficult to identify the department’s total investment in R&D, which limited DHS’s ability to oversee components’ R&D efforts and align them with agency wide R&D goals and priorities, in accordance with Standards for Internal Control in the Federal Government. DHS officials told us at the time that DHS used OMB’s definition of R&D, but the definition was broad and its application may not be uniform across components, and thus, R&D investments may not always be identified as R&D. We found that the variation in R&D definitions may contribute to the unreliability of the reporting mechanisms.

7At the time of our report, budget figures for fiscal year 2013 were agency estimates.

8Standards for Internal Control in the Federal Government state that policies and mechanisms are needed to enforce management’s directives, such as the process of adhering to requirements for budget development and execution and to ensure the reliability of those and other reports for internal and external use. GAO, Standards for Internal Control in the Federal Government, GAO/AIMD-00-21.3.1 (Washington, D.C.: Nov. 1999).
We recommended that DHS develop and implement policies and guidance for defining and overseeing R&D at the department that include, among other things, a well-understood definition of R&D that provides reasonable assurance that reliable accounting and reporting of R&D resources and activities for internal and external use are achieved. DHS agreed with our recommendation and stated that it planned to evaluate the most effective path forward to guide uniform treatment of R&D across the department in compliance with OMB rules and was considering a management directive, multi-component steering committee, or new policy guidance to help better oversee and coordinate R&D. As of July 2014, DHS has updated its guidance to include a definition of R&D, but as discussed in more detail below efforts to develop a specific policy outlining R&D roles and responsibilities and a process for coordinating R&D with other offices remain ongoing and have not yet been completed. We will continue to monitor DHS’s efforts to implement these recommendations.

S&T Has Taken Some Actions to Coordinate R&D across DHS, but R&D Activities are Fragmented and Overlapping

We reported in September 2012 that the Homeland Security Act of 2002 provides S&T with the responsibility for, among other things, coordinating and integrating all research, development, demonstration, testing, and evaluation activities within DHS and establishing and administering the primary R&D activities of the department. S&T developed coordination practices that fall into four general categories: (1) S&T component liaisons, (2) R&D agreements between component heads and S&T, (3) joint R&D strategies between S&T and components, and (4) various R&D coordination teams made up of S&T and component project managers, which are discussed in detail in our 2012 report and 2013 testimony.

Despite S&T’s efforts to coordinate R&D activities, in September 2012, we reported that R&D at DHS was inherently fragmented because several components within DHS—S&T, the Coast Guard, and DNDO—were each

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given R&D responsibilities in law, and other DHS components may pursue and conduct their own R&D efforts as long as those activities are coordinated through S&T. Fragmentation among R&D efforts at DHS may be advantageous if the department determines that it could gain better or faster results by having multiple components engage in R&D activities toward a similar goal; however, it can be disadvantageous if those activities are uncoordinated or unintentionally overlapping or duplicative. Specifically, we found at least six department components involved in R&D activities in our review of data on about 15,000 federal procurement contract actions coded as R&D taken by DHS components from fiscal years 2007 through 2012. We examined 47 R&D contracts awarded by these components—selected because they appeared to have similar activities to another contract—and found 35 instances among 29 contracts in which the contracts overlapped with activities conducted elsewhere in the department. Taken together, these 29 contracts were worth about $66 million. In one example of the overlap, we found that two DHS components awarded five separate contracts that each addressed detection of the same chemical.

While we did not identify instances of unnecessary duplication among these contracts, in September 2012 we found that DHS had not developed a policy defining who is responsible for coordinating R&D activities at DHS that could help prevent overlap, fragmentation, or unnecessary duplication and did not have tracking mechanisms or policies to help ensure that overlap is avoided and efforts are better coordinated consistent with Standards for Internal Control in the Federal Government.12 S&T officials told us at the time that a process did not exist at DHS or within S&T to prevent overlap or unnecessary duplication but that relationships with components mitigate that risk. They also stated that S&T has improved interactions with components over time. We concluded that the existence of overlapping R&D activities coupled with the lack of policies and guidance defining R&D and coordination processes was an indication that not all R&D activities at DHS were

12GAO’s Standards for Internal Control in the Federal Government state that policies and procedures ensure that the necessary activities occur at all levels and functions of the organization—not just from top-level leadership. This ensures that all levels of the organization are coordinating effectively and as part of a larger strategy. Additionally, internal control standards provide that agencies should communicate necessary information effectively by ensuring that they are communicating with, and obtaining information from, external stakeholders that may have a significant impact on the agency achieving its goals.
coordinated to ensure that R&D is not unnecessarily duplicative. We also
found in September 2012 that neither DHS nor S&T tracked all ongoing
R&D projects across the department, including R&D activities contracted
through the national laboratories. As part of our review, we identified 11
components that reimbursed the national laboratories for R&D from fiscal
years 2010 through 2012, but S&T’s Office of National Laboratories could
not provide us with any information on those activities and told us it did
not track them. According to S&T, the Office of National Laboratories’
ability to provide information on activities across the department is limited
by components inconsistently operating within the defined process for
working with the national laboratories.13

As a result, we recommended that DHS develop and implement policies
and guidance for overseeing R&D that includes, among other things, a
description of the department’s process and roles and responsibilities for
overseeing and coordinating R&D investments and efforts, and a
mechanism to track existing R&D projects and their associated costs
across the department. DHS agreed with our recommendation and stated
at the time that S&T was implementing a collaborative, end-user focused
strategy to coordinate and interact with components to better ensure
S&T’s efforts aligned with components’ needs and that it was considering
developing new policy guidance for R&D activities across the department.
As of July 2014, DHS has not developed new policy guidance but is
conducting portfolio reviews across the department, as directed in
committee reports accompanying the fiscal year 2013 DHS appropriation
act, aimed at coordinating R&D activities.14 Fully implementing our
recommendation to develop a policy that defines roles and responsibilities
for coordinating R&D and coordination processes, as well as a
mechanism that tracks all DHS R&D projects, could better position DHS
to mitigate the risk of overlapping and unnecessarily duplicative R&D
projects. We will continue to monitor DHS’s efforts to develop a policy to
better coordinate and track R&D activities at the department.

13The Homeland Security Act of 2002 gave DHS the authority to use DOE laboratories to
conduct R&D and established S&T’s Office of National Laboratories to be responsible for
coordinating and using the DOE national laboratories. Pub. L. No. 107-296, § 309, 116
further directs ONL to serve as the primary point of contact to recommend contracting
activity approval for work by the national laboratories, and review all statements of work
issued from DHS and directed to the national laboratories.

In September 2013, we reported that DHS S&T, Coast Guard, and DNDO reported producing 97 Border and Maritime R&D deliverables at an estimated cost of $177 million from fiscal years 2010 through 2012. The type of border and maritime R&D deliverables produced by these R&D entities were wide-ranging in their cost and scale, and included knowledge products and reports, technology prototypes, and software.\(^\text{15}\)

For example:

- **Knowledge products or reports**: One of the DHS Centers of Excellence developed formulas and models to assist in randomizing Coast Guard patrol routes and connecting networks together to assist in the detection of small vessels.

- **Technology prototypes**: S&T BMD developed prototype radar and upgraded video systems for use by Border Patrol agents and a prototype scanner to screen interior areas of small aircraft without removing panels or the aircraft skin.

- **Software**: DNDO developed software that extracts data from radiation portal monitors and uses the data to improve algorithms used in detecting radioactive material.

As we reported in September 2013, R&D customers we met with had mixed views on the impact of the R&D deliverables they received. For example, we reviewed 20 S&T BMD deliverables produced from fiscal years 2010 through 2012 at a cost of $28.7 million. We found that the customers of 7 deliverables stated that the deliverables met their office’s needs, customers of 7 did not, customers of 4 did not know, and

\(^{15}\)A complete list of all 97 projects for fiscal years 2010 through 2012 and their costs and project type can be found in Appendix I of GAO-13-732.
customers for 2 could not be identified.\textsuperscript{16} For example, customers within CBP’s Office of Technology Innovation and Acquisition reported that S&T’s analysis and test results on aircraft-based use of wide area surveillance technology helped CBP to make a decision on whether it should pursue acquiring such technology. In cases where customers said that the deliverables were not meeting their needs, the customers explained that budget changes, other ongoing testing efforts, or changes in mission priorities were the reasons deliverables had not met their needs, and customers pointed out that their relationship with S&T had been positive and highly collaborative. In other cases, customers pointed out that while the deliverable had not been used as intended, it informed their office’s decision making and helped to rule out certain technologies as possibilities. In this regard, the customers felt the R&D was successful, despite the fact that the deliverable had not or was not being used.

S&T BMD officials explained that some of its older projects did not have identifiable customers because its former process for selecting projects created the potential to engage in R&D without a clear commitment from the customer. In February 2012, S&T issued a new project management guide that requires project managers to specify the customer by office and name, and to describe customer support for the project, including how the customer has demonstrated commitment for and support of the project. S&T officials said they believed this new process would prevent future R&D funding from going towards projects without a clear customer.

Additionally, we reported that from fiscal year 2010 through fiscal year 2012, DNDO produced 42 deliverables at a cost of $115.9 million, which included 6 discontinued projects and 36 projects that were either transitioned to the next phase of R&D or were completed. DNDO R&D is different from the R&D of S&T for many reasons. For one, a DNDO project may start at a basic research level, and may end up being merged into other similar efforts in order to achieve a higher project goal. In these cases, the R&D customers are DNDO project managers rather than another DHS customer, such as CBP. We discussed 5 DNDO R&D deliverables at various R&D phases with DNDO officials—4 of which were deliverables from ongoing or completed projects and 1 of which was a discontinued project. Two of the 5 projects we discussed had moved from

\textsuperscript{16}This figure does not include projects from the S&T Office of University Programs, which reported completing 18 border and maritime related projects at a cost of $6.1 million.
early-stage R&D into other projects further along in DNDO’s project management process. Two of the 5 projects were completed, with 1 project that was reported to have provided information that informed furthered DNDO decision-making and the other project resulting in a commercialized product. With regard to the 1 discontinued project, DNDO officials said that the particular project’s technology was determined to be too expensive to continue pursuing.

S&T Did Not Gather and Evaluate Feedback  
We reported that although S&T project managers sought feedback from their customers during the execution of projects, S&T did not gather and evaluate feedback from its customers to determine the impact of its completed R&D efforts and deliverables, making it difficult to determine if the R&D met customer needs. Further, in some cases, the customer of S&T’s R&D was not clear or the results of the R&D were unknown. For example, a CBP customer identified by S&T was aware of two R&D deliverables that S&T said were transitioned to his office, but the official was unable to provide additional information on the project’s impact. According to S&T officials, since they deal with multiple DHS components and are not within the same agencies as its customers, it is sometimes difficult to identify who the customer of the R&D is and also difficult to determine what the impact of the R&D was. S&T officials also stated that in S&T’s 2012 update to its project management guide, in its project closeout process, S&T had included a step to collect feedback from all relevant customers and a template for collecting this feedback.

While we found in September 2013 that S&T had developed a process and template to collect feedback at the end of each project and incorporated this into its project management plan, we also found that it did not plan to survey customers each time it provides a deliverable to the customer. This is relevant because S&T projects are often conducted over several years before they are concluded and these projects also often produce multiple deliverables for a customer over many years that are designed to meet a specific operational need. For example, a Ground Based Technologies project began in fiscal year 2006 and was slated to continue through fiscal year 2018. During this period, S&T provided multiple R&D deliverables to CBP—including test results comparing different ground based radar systems. The National Academy of Sciences has stated that feedback from both R&D failures and successes may be
communicated to stakeholders and used to modify future investments. At the time of our report, S&T had not established timeframes and milestones for collecting and evaluating feedback from its customers on the extent to which the deliverables it provides were meeting its customer’s needs.

As a result, we recommended that S&T establish timeframes and milestones for collecting and evaluating feedback from its customers to determine the usefulness and impact of both its R&D projects and project deliverables, and use it to make better-informed decisions regarding future work. S&T officials concurred with the recommendation at the time of our review, and reported that it was developing R&D strategies with DHS components, which would include a strategic assessment of components’ R&D needs and updated annually on the basis of customer feedback. As of July 2014, S&T has completed strategic plans with Border Patrol, the Transportation Security Administration (TSA), and the Secret Service. Further, at the time of our review, S&T reported that it was developing a new project management guide to improve R&D management at all stages of development, and that the guide would include a template for project managers to use to gather customer feedback on a more consistent basis. In November 2013, S&T finalized its guide which includes a customer survey template to obtain feedback on the quality, timeliness, and relevance of a deliverable, as well as detailed descriptions of actions project managers should take throughout a project to ensure the R&D is aligned with customer needs. We will continue to review the implementation of these actions and to determine whether they fully address the intent of our recommendation.

In September 2013, we also reported that S&T’s BMD, the Coast Guard, and DNDO reported taking a range of actions to coordinate with one another and their customers to ensure that R&D is addressing high priority needs. Officials from BMD identified several ways in which it coordinated R&D activities with its customers, which are primarily offices within CBP. For example, BMD officials reported having a person detailed to CBP’s Office of Technology Innovation and Acquisition and identified its integrated product teams, such as its cross border tunnel threat team.

DHS Border and Maritime R&D Agencies Have Taken Action to Improve Internal and External R&D Coordination

and jointly funded projects as ways in which the division worked to ensure its R&D efforts were coordinated with CBP. We also found that opportunities existed for DHS to enhance coordination with universities conducting R&D on its behalf. Specifically, we reported that the S&T Office of University Programs could help ensure that the approximately $3 million to $4 million a year dedicated to each university center is used more effectively by more carefully considering data needs, potential access issues, and potential data limitations with its federal partners before approving projects. We recommended that S&T ensure design limitations with regard to data reliability, accessibility, and availability are reviewed and understood before approving Center of Excellence R&D projects. S&T Office of University Programs officials concurred with the recommendation and discussed the variety of ways in which centers and DHS components collaborate and share information. Office of University Programs officials stated that the office’s process for soliciting research topics and evaluating proposals is good and that it keeps the centers flexible. However, officials from DHS’s primary land border security Center of Excellence reported challenges with respect to a lack of clarity regarding protocols for access to DHS information when conducting R&D. Specifically, officials from this center reported that they have been regularly unable to obtain data from CBP to complete research it was conducting on CBP’s behalf, which resulted in delays and terminated R&D projects.

Given the challenges raised by officials from universities leading the R&D for land border security, we recommended that S&T conduct a more rigorous review of potential data-related challenges and limitations at the start of a project in order to help R&D customers (such as CBP) identify data requirements and potential limitations up front so that money is not allocated to projects that potentially cannot be completed. In concurring with our recommendation, S&T Office of University Programs officials agreed that making sure their clients take additional steps to identify data requirements up front could help address these challenges and following our review had started taking steps to address the recommendation. For instance, in September 2013, the Office of University Programs reported that it was working to develop standard guidelines and protocols that would apply to all of its centers of excellence. These protocols were to describe how data sets must be modified to enable their use in open-source research formats. In March 2014, the Office of University Programs and the National Center for Border Security and Immigration, a DHS S&T Center of Excellence, co-hosted a workshop to identify common problems the centers have in accessing data from DHS, understand DHS constraints in sharing data, and develop best practices.
for requesting and sharing data between the centers of excellence and
DHS. We believe this is a step in the right direction and should move S&T
closer toward meeting the intention of our recommendation. We will
continue to monitor DHS’s efforts in this area.

Chairman Bucshon, Chairman Broun, Ranking Member Lipinski, Ranking
Member Maffei, and members of the committee, this completes my
prepared statement. I would be happy to respond to any questions you
may have at this time.

If you or your staff members have any questions about this testimony,
please contact me at (202) 512-9627 or Maurerd@gao.gov. Contact
points for our Offices of Congressional Relations and Public Affairs may
be found on the last page of this statement. Key contributors to this
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