Open Data for Government Accountability, Efficiency, and Effectiveness

Government Executive Media Group

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Gene L. Dodaro
Comptroller General of the United States
U.S. Government Accountability Office
Agenda

• About GAO
• The case for data standards
• Persistent USAspending.gov data challenges
• Effective Implementation of the DATA Act
• Data analytics at GAO

Source: PhotoDisc.
U.S. Government Accountability Office

- Independent, nonpartisan congressional watchdog
- Advise Congress and executive agencies to help improve government performance and ensure accountability
- Work comes from Congressional mandates and requests and the Comptroller General’s authority
### GAO goals and objectives to support the Congress and the Nation

<table>
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<th>Goals</th>
<th>Objectives</th>
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| **Provide Timely, Quality Service to the Congress and the Federal Government to...** | ▪ Health care needs  
▪ Lifelong learning  
▪ Challenges facing an aging population  
▪ Effective system of justice  
▪ Housing finance and viable communities  
▪ Stable financial system and consumer protection  
▪ Natural resources and the environment  
▪ National infrastructure  
▪ Benefits and protections for workers, families, and children |
| Address Current and Emerging Challenges to the Well-being and Financial Security of the American People related to... | ▪ Homeland security  
▪ Military capabilities and readiness  
▪ Foreign policy and international economic interests |
| Respond to Changing Security Threats and the Challenges of Global Interdependence involving... | ▪ Government’s fiscal position and approaches to address current and projected fiscal gaps  
▪ Federal government audit and internal control standards  
▪ Major management challenges and program risks  
▪ Fraud, waste, and abuse, and improvements in internal controls |
| **Help Transform the Federal Government to Address National Challenges by assessing...** | ▪ Efficiency, effectiveness, and quality  
▪ Diverse workforce and inclusive work environment  
▪ Networks, collaborations and partnerships  
▪ Human, information, fiscal, technological, and physical resources |
| **Maximize the Value of GAO by Enabling Quality, Timely Service to the Congress and Being a Leading Practices Federal Agency by focusing on...** | ▪ Efficiency, effectiveness, and quality  
▪ Diverse workforce and inclusive work environment  
▪ Networks, collaborations and partnerships  
▪ Human, information, fiscal, technological, and physical resources |
The Case for Data Standards

Our earlier work on data transparency has found that the lack of consistent, reliable data:

- hampers the ability to link existing agency financial and award systems to monitor federal spending throughout the lifecycle
- limits data sharing across agencies, sectors of government and the law enforcement community to identify programs at risk for fraud, waste and abuse
limits comparability among like programs to accurately measure the cost and magnitude of federal investments and identify program duplication, overlap and fragmentation

prevents easy aggregation of data at the government-wide level to optimize existing data sources and reduce reporting burden
The Case For Data Standards (continued)

• The DATA Act responds to our recommendation to legislate transparency requirements, including data standards, and clear authority for implementation.

• We recommended that OMB, with the GAT Board, develop a long-term implementation plan and increase efforts to obtain stakeholder input.

• OMB generally agreed with our recommendations and has taken steps to increase stakeholder outreach.
GAO’s July 2014 report shows USAspending.gov data challenges highlight need for effective DATA Act implementation

In our report evaluating the reliability of USAspending.gov data published in July (GAO-14-476), we found:

- Roughly 300 assistance programs representing $619B in FY12 awards were not reported to USAspending by January 2013
- Information on reported awards was largely inconsistent with agency records. Only an estimated 2 to 7% of reported awards were fully consistent
- Information on the recipient’s location, and the award’s place of performance and description differed significantly from agency records
- Unclear guidance and weaknesses in oversight contributed to these issues
GAO’s July 2014 report (continued)

• We recommended that OMB clarify its guidance and develop and implement improved oversight processes.
• OMB generally agreed with our recommendations.
• These recommendations are consistent with actions to be taken to comply with the DATA Act.
Effective implementation of the DATA Act can help in addressing these needs

The DATA Act of 2014 (DATA Act) requires:

- Treasury and OMB to develop government-wide financial data standards and issue related guidance
- Treasury to establish a data analysis center to provide data and analytical tools for preventing or reducing improper payments and improving federal spending data transparency
- OMB and Treasury to consult with public and private stakeholders in establishing data standards
- Agency IGs to report on agencies’ spending data quality and the use of data standards
- GAO to review IG reports and assess agencies’ data quality and implementation of the data standards.
DATA Act reinforces related statutory requirements

GPRA Modernization Act of 2010 requires:
• OMB to publish an inventory of all federal programs identified by agencies on a central governmentwide website
• Agencies also provide program-level funding and performance information
• Transparency of results achieved through web-based reporting
• More-frequent analysis and monitoring of performance by senior leadership at the government-wide and agency levels to identify and prioritize key performance and management issues
• Disclosure on the reliability and accuracy of performance information

OMB will merge implementation of the program inventory provisions with DATA Act transparency requirements since both laws require web-based reporting
DATA Act reinforces related statutory requirements

Improper Payments Elimination and Recovery Improvement Act of 2012 (IPERIA)

• Latest in a series of laws addressing government-wide improper payments

• Requires that agencies verify benefit eligibility before making a payment to a person or entity by checking multiple existing databases

• Modified requirements to promote computer matching activities that assist in the detection and prevention of improper payments
Data analytics at GAO

GAO is leveraging open data as part of its piloting of data analytic technologies.

Pilot concepts include:

• Data mining for improper payments analysis
• Link analysis for fraud identification
• Document clustering and text mining for overlap and duplication analysis
• Network analysis for program coordination assessment

Preliminary indications include:

• A substantial decrease in labor and time inputs in analyzing documents and their content
• A possible increase in quality and number of findings
• Enhanced visualization for more efficient communication of key findings
Data Analytics at GAO: GAO-CIGIE-RATB
Forum identified opportunities and next steps

Accessing and using data
• Need for more awareness of data sources
• Lack of incentives to design systems useful for oversight due to differing missions
• Difficulties in measuring results and prioritizing resources

Sharing data
• Varying standards make interpreting and using others’ data difficult
• Intergovernmental challenges—such as costly access to certain federal data and perceptions that sharing is a “one-way street”
Data Analytics at GAO: Government Data Sharing Community of Practice

GAO’s Government Data Sharing CoP has hosted a number of events for the audit community:

- **Legal Issues to Data Sharing**: Working with other state auditors to identify challenges and opportunities to overcome barriers to data sharing.

- **Technological Challenges to Sharing Data**: GAO’s moderated a panel of experts to discuss common technological barriers to data sharing.

- **Data Sharing Conference**: GAO partnered with MITRE to host an event addressing a wide range of data-sharing issues, including maintaining audit independence, leveraging data analytic resources and techniques to identify fraud.

- **Data Sharing in Disaster Response and Recovery (January 2015)**: GAO and MITRE will co-host an event on data sharing in disaster response and recovery.