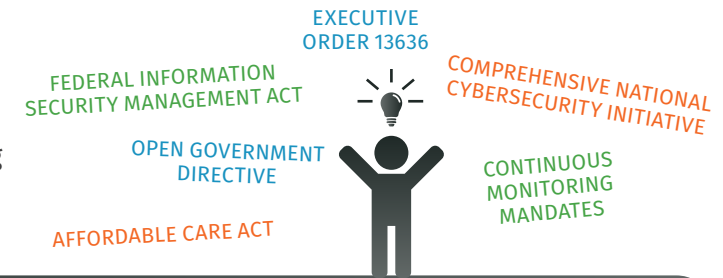


Smart Data for Smart Decision-Making

Over the last few years, the federal government has begun realizing the promise of Big Data to enhance mission-effectiveness. Now, several prominent initiatives are pressing federal agencies to further invest in Big Data, including:



BIG DATA COULD YIELD MAJOR BENEFITS FOR 3 AREAS IN PARTICULAR:

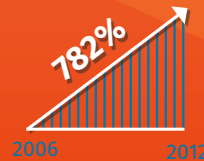
Health Enhanced bio-surveillance



The CDC's BioSense program improves health threat forecasting and readiness by using cloud computing to **enhance data sharing** and collection across levels of government

BioSense data was used to **enhance detection** of dengue fever in Florida and Hawaii in 2012

Homeland Security Improved cyber threat modeling



782% increase in cyber breaches reported by federal agencies from 2006-2012



Using vast amounts of data, agencies can model the progression of a cyber attack to better **understand and prevent breaches**

Financial Services Greater tax compliance

\$450
BILLION A YEAR

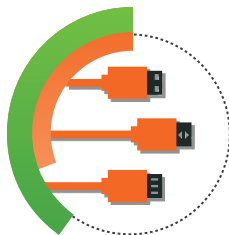
is lost from taxpayer underreporting



Automated information matching programs powered by Big Data return 6x more revenue than audits and are 20x less expensive

What is holding federal leaders back from fully leveraging Big Data?

Inability to extract value from existing data



40% indicate the **lack of standardized data** is a challenge

31% indicate the **lack of a data analytics support system** is a challenge

Gaps in personnel capabilities



59% indicate their agencies **lack professional capabilities**

42% indicate their **agencies need domain experts**

Lack of understanding of supporting technologies

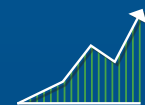
“Many **officials remain reluctant to embrace the cloud** because they **lack understanding** of the value data analytics can bring to their organizations. This is a very serious challenge requiring as much education and demonstration as technology.” ”

Tim Andrews, Vice President Booz Allen Hamilton

How can agencies overcome these challenges?



1 Streamline data collection



2 Invest in analytics



3 Train personnel in analytics

“No one particular transaction, no one particular piece of data, is sufficient, but by putting them all together, you can begin to spot patterns earlier.” ”

Tim Andrews, Vice President, Booz Allen Hamilton

SOURCES

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IRS, “IRS Releases New Tax Gap Estimates”

Intuit Accountants, “Big Data: How the IRS Uses Information Statement for Compliance”
GBC, “Empowering Smart Decision-Making Through Smart Data”

Government Business Council

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100 YEARS