



The National Archives and Records Administration

**National Archives Center for  
Advanced Systems and Technologies (NCAST)**

# NARA Electronic Records Update

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Archives Specialist

SLAC Archives and History Office Program Review

Palo Alto, CA

16 September 2010



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## Overview:

- **New Archivist**
- **White House Strategic Plan**
- **NITRD Subcommittee**
- **Research Partnerships**



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## New Archivist:

- **David S. Ferriero**
  - November 6, 2009
  - Andrew W. Mellon Director NY Public Libraries
  - Duke University
  - MIT
  - Navy



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## New Archivist:

- **All Things Digital**
  - Electronic Records
  - Digitization
  - Social Media
    - [AOTUS: Collector in Chief](#)
    - (<http://blogs.archives.gov/aotus/>)
- **Agency Transformation**



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# White House Draft Strategic Plan

- **Networking and IT R & D**
- **Specifically mentions**
  - Electronic Records
  - Ultra-largescale data sets (“big data”)
- **<http://www.nitrd.gov/DraftStrategicPlan/>**
  - Comments Due 11 October 2010



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## White House Draft Strategic Plan

- **“robust information infrastructure for the long-term preservation, curation, federation, sustainability, accessibility, and survivability of vital Federal electronic records and data collections, such as those overseen by NARA.”**



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# White House Draft Strategic Plan

- **NCAST Advanced Research**

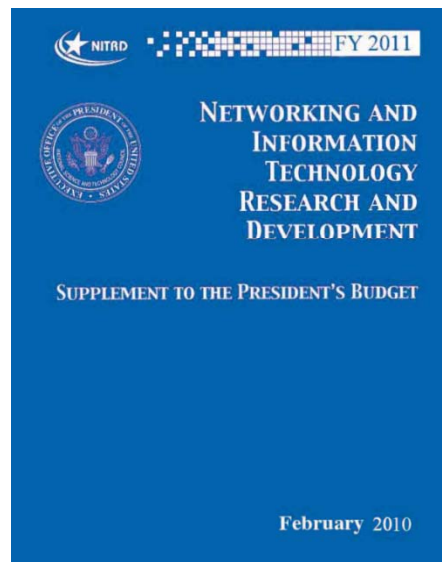
- Data interoperability and integration of distributed data
- Data format description language (DFDL)
- Data structure research for complex digital objects
- Intelligent rule-based data management



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# FY 11 NITRD Supplement to the President's Budget



<http://www.nitrd.gov/About/FY11NITRDSupp-FINAL-Web.pdf>





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## FY 11 NITRD Supplement to the President's Budget

- **...next-generation methods, technologies, and tools that integrate and efficiently manage massive stores of distributed, heterogeneous information while integrating the human in the discovery process (e.g., science and engineering data, Federal records, health information, scientific and other types of archival literature).**



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## FY 11 NITRD Supplement to the President's Budget

- **Effective stewardship of science and engineering data:**
  - Issues in access to and federation, preservation, curation, data life-cycle stewardship, and analysis of large, heterogeneous collections of scientific data, information, and records;
  - fault-tolerant, scalable I/O



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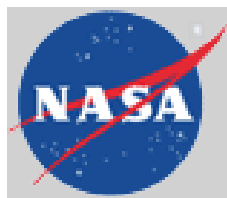
# FY 11 NITRD Supplement to the President's Budget

- **Information access, management, and preservation:**
  - Collaborations in IWG on Digital Data;
  - Scalable repository architectures;
  - Data management and decision-support technologies;
  - Data grids;
  - Data intensive computing



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Some examples of NCAST Research *Partnerships*



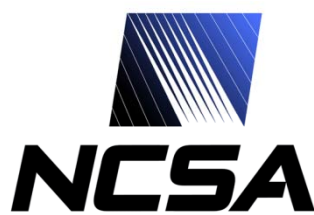
Data-Intensive Cyber Environments (DICE) Group



National Science Foundation



Army Research Laboratory



National Center for Supercomputing Applications



National Coordination Office for Networking and Information Technology Research and Development



DIGITAL LIBRARY  
FEDERATION



For more information about The National Archives Center for Advanced Systems and Technologies (NCAST) Research

Visit our web site at [www.archives.gov/ncast/advanced-research.html](http://www.archives.gov/ncast/advanced-research.html)