NARA Electronic Records Update

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SLAC Archives and History Office Program Review

Palo Alto, CA

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Overview:

- **New Archivist**

- **White House Strategic Plan**

- **NITRD Subcommittee**

- **Research Partnerships**

New Archivist:

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

New Archivist:

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

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

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."**

White House Draft Strategic Plan

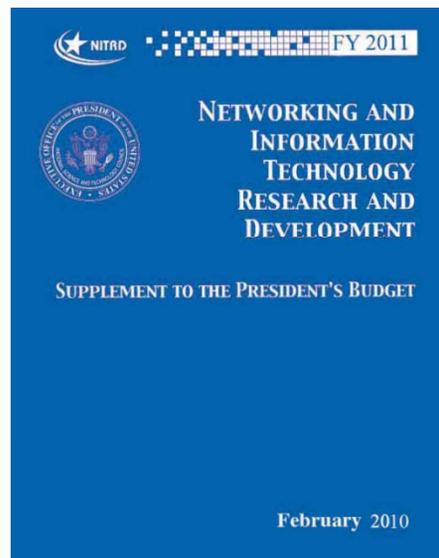- **NCAST Advanced Research**
  - Data interoperability and integration of distributed data
  - Data format description language (DFDL)
  - Data structure research for complex digital objects
  - Intelligent rule-based data management

FY 11 NITRD Supplement to the President's Budget

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

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).

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

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

National Archives Center for Advanced Systems and Technologies (NCAST)

Some examples of NCAST Research *Partnerships*

NATIONAL ARCHIVES

IEEE

NASA

UNIVERSITY OF NORTH CAROLINA CHAPEL HILL

INTERNET 2

D·I·C·E
Data-Intensive Cyber Environments (DICE) Group

National Science Foundation

PITTSBURGH SUPERCOMPUTING CENTER

Renci
Renaissance Computing Institute

PDES, Inc.®

Georgia Tech Research Institute

TACC TEXAS ADVANCED COMPUTING CENTER
Powering Discoveries That Change The World

THE UNIVERSITY OF TEXAS AT AUSTIN

West Virginia University

NIST

U.S. DEPARTMENT OF ENERGY

ARL
Army Research Laboratory

NCSA
National Center for Supercomputing Applications

NITRD
National Coordination Office for Networking and Information Technology Research and Development

NAVSEA
NAVAL SEA SYSTEMS COMMAND

DIGITAL LIBRARY FEDERATION

InterPARES Project
International Research on Permanent Authentic Records in Electronic Systems

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