Center for
Advanced
Systems and
Technologies

About NARA's
NCAST Advanced Research Program
DC SIRSI Users Group Meeting
Washington, DC
September 21, 2010

Robert Chadduck, Principle Technologist
National Archives Center for
Advanced Systems and Technologies
National Archives and Records Administration

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The Electronic Records Archives ERA Research Program (1998-2009)

→ **Understanding technical/business requirements and challenges associated with:**

- Long-term preservation and access to electronic records
- Building an electronic records archives system

→ **Establishing significant partnerships with:**

- Computer Scientists and Engineers
- Federal Government and Private Sector Agencies
- Professional Archivists and Librarians
- International scholars and organizations

→ **Research results and acquired knowledge**

→ **Participation on the White House's Networking IT R&D Coordination Program** http://www.nitrd.gov

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About NCAST (established August 2009)

NARA's lead technology organization for advanced and applied research

- Expanding the scope of advanced research
- Bringing new technologies and methods into NARA
- Indentifying, Acquiring, and Developing the specific types of expertise and skills

- Three Research Laboratories:
  Washington, DC, College Park, MD, and Rocket Center, WV

→ **NCAST highlighted in the Archivist's keynote address**
  Archivist of the U.S., David Ferriero at the annual meeting of the Society of American Archivists, August 2010, Washington, DC

  http://www.youtube.com/watch?v=bMo_93rF3wM

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Some examples of NCAST Research *Partnerships*

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Center for **A**dvanced **S**ystems and **T**echnologies

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

UNIVERSITY OF NORTH CAROLINA CHAPEL HILL

Renci Renaissance Computing Institute

PDES, Inc.®

INTERNET 2

Georgia Tech Research Institute

PITTSBURGH SUPERCOMPUTING CENTER

National Science Foundation NSF

TACC TEXAS ADVANCED COMPUTING CENTER
Powering Discoveries That Change The World

THE UNIVERSITY OF TEXAS AT AUSTIN

NITRD

National Coordination Office for Networking and Information Technology Research and Development

U.S. DEPARTMENT OF ENERGY

NASA

ARL
Army Research Laboratory

NCSA
National Center for Supercomputing Applications

West Virginia University

NIST

NAVSEA NAVAL SEA SYSTEMS COMMAND

DIGITAL LIBRARY FEDERATION

IEEE

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

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Tools for organizing and managing large collections of distributed digital data

→ **The integrated Rule Oriented Data System (iRODS)**
- An open source distributed data management system

→ **Conversion Software Registry (CSR)**
- A registry of 2000+ (**most are free!**) applications for converting one file format to another format

→ **Doc2Learn**
- An application to compare document content across file formats

→ **Polyglot**
- A web-based application to perform file-format conversions

→ → **Download free software!**
    http://www.archives.gov/ncast/software-downloads

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Thank You!

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