

The Library of Congress: NDIIPP and the Preservation of Digital Geospatial Data



Butch Lazorchak
Library of Congress
Federal Depository Library Conference 2010

Key Takeaways

- Describe NDIIPP
- Discuss the complexities of preserving and providing long-term access to digital geospatial data
- Highlight some projects and collections of interest to the FDL community



<http://shindigzparty.files.wordpress.com/2008/03/4s058a.jpg>

Library of Congress National Digital Information Infrastructure and Preservation Program (NDIIPP)

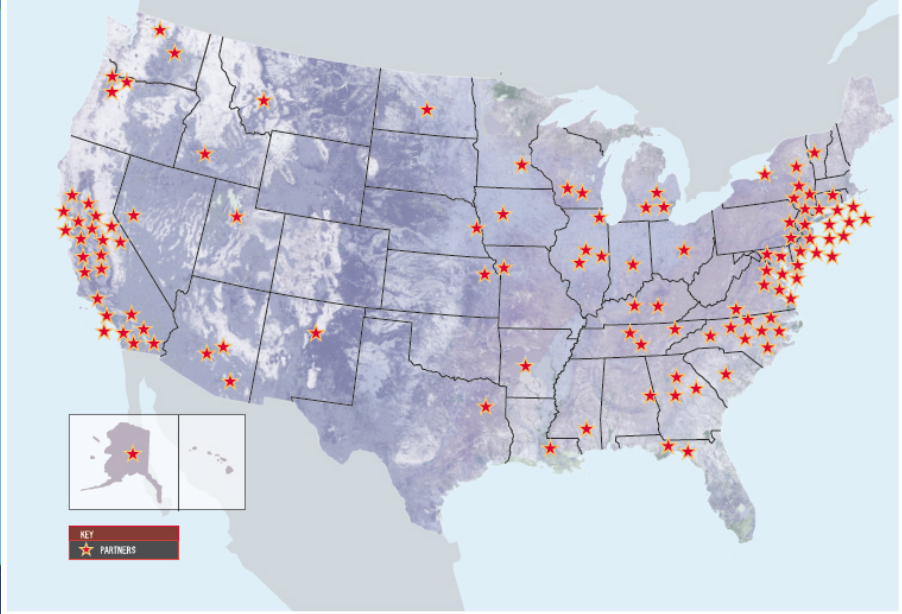


Mission: To ensure access over time to a rich body of digital content through the establishment of a national network of partners committed to selecting, collecting and preserving at-risk digital information

- Learn By Doing
- Catalyze Activity
- Support Collaboration
- Break Down Boundaries

NDIIPP is Externally-Focused





NDIIPP Focus Areas



- National Digital Collection
- Partnerships: Government, Industry, Academia
- Technical Infrastructure
- Sustainability
- Public Policy

NDIIPP Content: Collections



Text & Images

Audiovisual

Geospatial

Web sites

What are the Special Technical Risks to Geospatial Information?

- Unique geospatial data formats
- Spatial database complexity
- Fragility and uncertainty surrounding digital cartographic representation
- Issues related to time-versioned content
- Metadata unavailability or inconsistency
- No generally supported content packaging design for complex geospatial data



Is Digital Preservation a “cost center” or a “benefits center”?



http://cleantechnica.com/files/2008/05/353493661_0151e8185f.jpg



<http://www.afm.ars.usda.gov/hrd/eNeo/images/big-benefits.gif>

Current Digital Geospatial Materials: The Benefits are Obvious!

- Useable
- Distributable
- Searchable
- Remix-able
- Accessible

Users Love this!



Why Preserve? Or, is "Preservation" a Dirty Word?



Dusting Veterans Bureau Records.

Bequest
Dorsey W. Hodge Jr. 6-12-36

Preserve Digital Materials by Leveraging Other Use Cases

Generate Revenue

Save Money

Maximize Investment

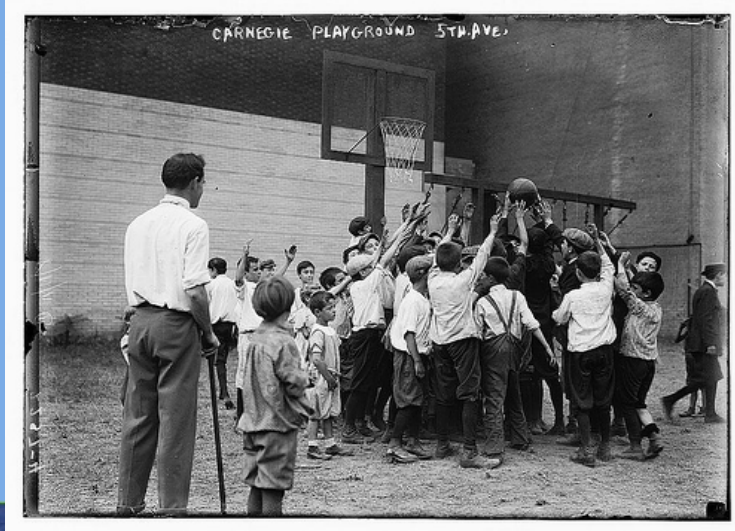
Access to
y of
es!



Disaster Recovery and COOP

Not just "Cultural Heritage"
Document Business Processes for Improved
Decision-making

Enhanced Access Drives Incentives to Preserve



Benefits

- Accessibility creates Use
- Use creates Demand
- Demand creates Value
- Value creates Benefits

There are significant benefits to preserving historic/superseded digital information. What are we going to do with all those benefits?



<http://www.artquest.org.uk/valueadded/images/Value-Added-FP-new.gif>

How to Mitigate Costs

- Leverage Existing Infrastructures
- Take Advantage of Economies of Scale
- Capture “Data in Motion”
- Readdress the lifecycle of information
- Forever or 5 years, whichever comes first!



<http://tabootrinity.files.wordpress.com/2009/03/no-money1.jpg>

Preservation is a Series of Handoffs



- Technological
- Social

<http://michael-connor.com/wordpress/wp-content/uploads/2008/10/keegan-web.jpg>

The Long-term Digital Public Record?



Somebody Has to Be Thinking about the Future

<http://blog.northstarmanifesto.com/wp-content/uploads/2008/12/the-future.jpg>

Repository of the Past?



Predictor of the future?

NDIIPP Geospatial Projects




- National Geospatial Digital Archive
- North Carolina Geospatial Archiving Project
- Geospatial Multistate Archive and Preservation Project (GeoMAPP)

National Geospatial Digital Archive Project: Partners



- Lead Partner: University of California at Santa Barbara Libraries
- Additional Partner: Stanford University Libraries and Academic Information Resources, University of Tennessee at Knoxville Computer Science Department Logistical Computing and Internetworking Laboratory, Vanderbilt University Advanced Computing Center for Research and Education

National Geospatial Digital Archive Project: Objectives



- Investigate the proper and optimal roles of a national federated network committed to archiving geospatial imagery and data.
- Collect and archive major segments of at-risk digital geospatial data and images.
- Develop best practices for the presentation of archived digital geospatial data.
- Develop a series of policy agreements governing retention, rights management, obligations of partners, interoperability of systems, and exchange of digital objects.

National Geospatial Digital Archive Project: Resources



- NDIIPP Site:
<http://www.digitalpreservation.gov/partners/ngda/ngda.html>
- Project Site:
<http://www.ngda.org/home.html>
- Globetrotter:
<http://clients.alexandria.ucsb.edu/globetrotter/>

NGDA Globetrotter

The screenshot displays the NGDA Globetrotter web application. At the top, there is a search bar with the text "Aerial photographs" and a dropdown menu for "sorting by None" and "with 26 results per page". Below the search bar, there are links for "Text Searches", "More Options", "Advanced Text", "Advanced TimeSpace", "Reset Query", and "Help". The main content area is titled "Search Results" and shows "Showing results 1 to 26 of 785 results. Library Server Results Limit Reached." There are navigation buttons for "First", "Previous", "Next", and "Last". A list of search results is shown, with the first four items labeled A, B, C, and D, all titled "3.75-MIN DIGITAL OQ CIR of BEVERLY HILLS, CA". Each item has a small thumbnail image and links for "Object Details", "Look Closer", and "Toggle Result on Map". To the right of the list is a map interface with a "Map", "Satellite", and "Hybrid" view selector. A large information popup is visible over the map, containing the title "3.75-MIN DIGITAL OQ CIR of BEVERLY HILLS, CA", the date "1998-05-06", the coordinates "Latitude: 34.09375" and "Longitude: -118.40625", and links for "Browse Image" and "Catalog Record". Below the popup is a search bar with "Santa Barbara, CA" and buttons for "Find Address" and "Return to Last Searched View". At the bottom of the map interface, there is a "Start Search" button and a "Google" logo. The footer of the page contains the text "x Find: rand" and navigation buttons for "Next", "Previous", "Highlight all", and "Match case".

North Carolina Geospatial Archiving Project: Partners

- **Lead Partner:** North Carolina State University Libraries
- **Additional Partner:** North Carolina Center for Geographic Information and Analysis

North Carolina Geospatial Archiving Project: Objectives



- Identifying important geospatial data resources and raising awareness of geospatial archiving issues within the data producer community of North Carolina;
- Acquiring at-risk geospatial data, including digital aerial photography as well as local records and other mapping data;
- Gaining a richer understanding of the technical challenges associated with preserving geospatial data.

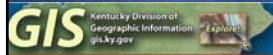
North Carolina Geospatial Archiving Project: Resources



- NDIIPP Site: <http://www.digitalpreservation.gov/partners/ncgdap/ncgdap.html>
- Project Site: <http://www.lib.ncsu.edu/ncgdap/>
- NC OneMap: <http://www.nconemap.com/>
- NCSU Libraries GIS Data Collection: <http://www.lib.ncsu.edu/gis/datalist.html>
- NC GIS Inventory Powered by Ramona: <http://www.nc.gisinventory.net/>

Geospatial Multistate Archive and Preservation Project (GeoMAPP): Partners

- NC Center for Geographic Information and Analysis (CGIA)
- North Carolina State Archives
- NC State University Libraries
- Kentucky Department of Libraries and Archives (KDLA)
- Kentucky Division of Geographic Information (DGI)
- Kentucky State University
- Utah Automated Geographic Reference Center (AGRC)
- Utah State Archives
- 10 Informational Partners: DC, GA, ME, MD, MN, MT, NY, TX, WI, WY



Geospatial Multistate Archive and Preservation Project (GeoMAPP): Objectives

- Formulate best practice guidelines and business cases for geospatial data archiving
- Document existing archival appraisal, audit, accessioning and disposition requirements for digital geospatial information
- Spur collaboration between the library/archive and geospatial staff of each state to bring about data preservation
- Explore the transfer of geospatial content between several state partners
- Broadly share project results with stakeholders in all states

Geospatial Multistate Archive and Preservation Project (GeoMAPP): Resources

- NDIIPP Site: http://www.digitalpreservation.gov/partners/states_nc/states_nc.html
- Project Site: <http://www.geomapp.net/>
- NC Portal: <http://www.nconemap.com/>
- KY Portal: <http://kygeonet.ky.gov/>
- Utah Portal: <http://gis.utah.gov>

Web Clearinghouse on Geospatial Preservation

- Center for International Earth Science Information Network (CIESIN), Columbia University
- Outcome of November 2009 GeoSummit at LC
- Participants wanted the ability to learn about data-stewardship advances, including new tools, methods and services
- Press Release: <http://www.loc.gov/today/pr/2010/10-133.html>

National Digital Stewardship Alliance

- Lightweight, broadly-based extension of NDIIPP
- Community governance
- Subcommittees → Content; Standards and Practices; Infrastructure; Innovation; Outreach and Education
- <http://www.digitalpreservation.gov/ndsa/>

National Digital Information Infrastructure and Preservation Program

<http://www.digitalpreservation.gov>

The LIBRARY of CONGRESS ASK A LIBRARIAN DIGITAL COLLECTIONS LIBRARY CATALOGS GO Options

The Library of Congress > Digital Preservation

DIGITAL PRESERVATION



National Digital Information Infrastructure & Preservation Program:
A Collaborative Initiative of the Library of Congress

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Related Resources

- > [Digital Formats Sustainability](#)
- > [Federal Agencies Digitization Guidelines Initiative](#)
- > [Section 108 Study Group](#)

|| Meeting the Challenge ||



Documenting the best practices for digitizing sound, video and motion picture film is the challenge faced by the Audio-Visual Working Group, a component of the Federal Agencies Digitization Guidelines Initiative.

• [Read more](#)

|| Digital Preservation Pioneers ||



As the motion picture industry converts to all-digital technology, the Academy of Motion Picture Arts and Sciences is confronting digital-preservation challenges to ensure the preservation of digital movies.

• [Read More](#)

|| NDIIPP Newsletter ||



[Latest NDIIPP Newsletter](#)

|| News & Events ||

Public Interest in Private Records

Prof. David Kirsch discusses the public interest in the preservation of private records.

• [Read More](#)

NDIIPP State Partners Discuss Network Opportunities

Thanks!

- Butch Lazorchak, Digital Archivist, Library of Congress
wlaz@loc.gov



http://imagecache2.allposters.com/images/pic/Matted_Prints/mp_814104_b-Man-on-Phone-Thanks-Posters.jpg