

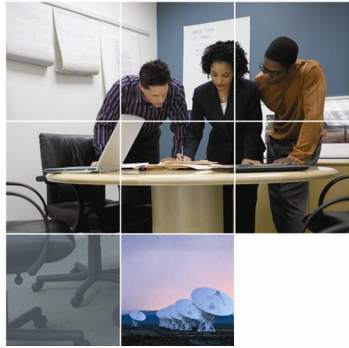
Federal Science Repository Service

Gail Hodge, Ila

Don Hagen, NTIS

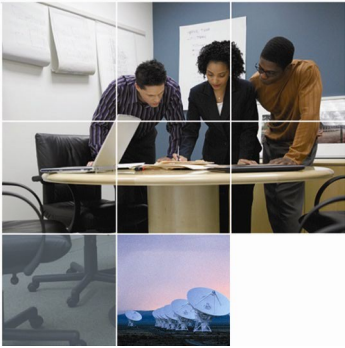
Wayne Strickland, NTIS

***DC Region Fedora Users Meeting,
Smithsonian Institution***



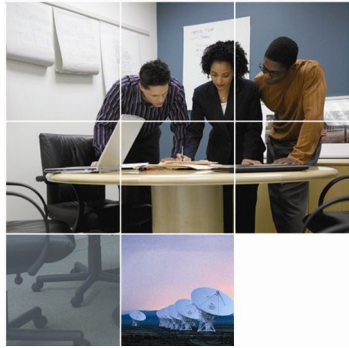
Outline

- The Federal Science Repository Service
- Technical Infrastructure
 - Agency Repository Architecture
 - Object Models
- Implementations
 - The National Technical Reports Library
 - The NOAA Repository
 - Department of Commerce
 - Department of Defense
- Future Plans



Federal Science Repository Service (FSRS)

- NTIS Joint Venture (JV) with Information International Associates (IIa) <http://www.ntis.gov/fsrs/index.aspx>
Help multiple agencies develop repositories that:
 - Are durable against technology changes, yet flexible
 - Support preservation and long-term access
 - Are based on standards
 - Promote interoperability
 - Support open government initiatives
 - Promote further use of an agency's content
 - Can be tailored to an agency's needs



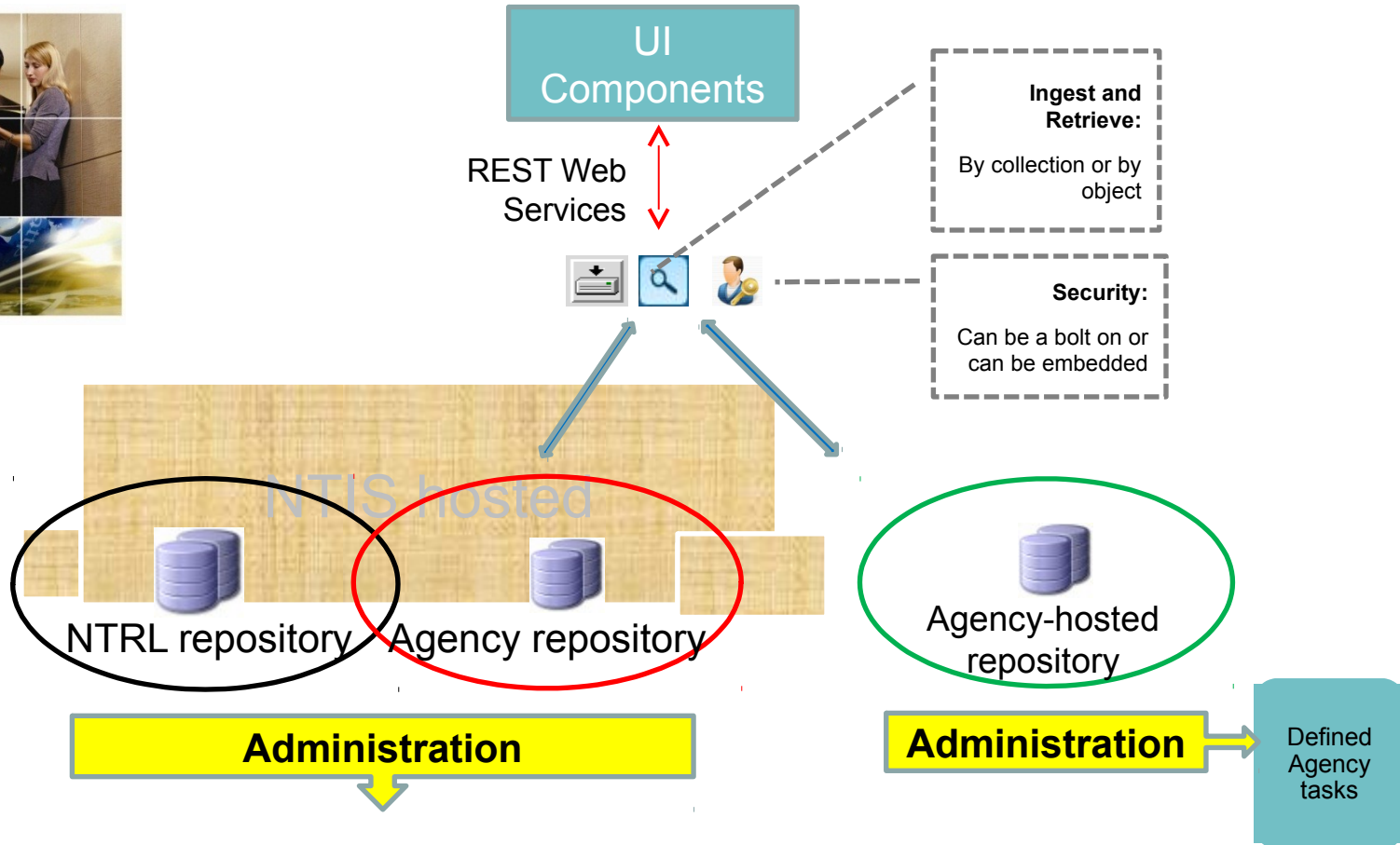
FSRS Technical Infrastructure Components

- Underlying infrastructure of Fedora, Solr, and PHP
- Distributed-model architecture
- Multiple repositories
- Storage and preservation of objects/datastreams
- Core metadata mapped to different schemas
- Robust interface with advanced search, faceting, and full-text and media display
- Security and access control

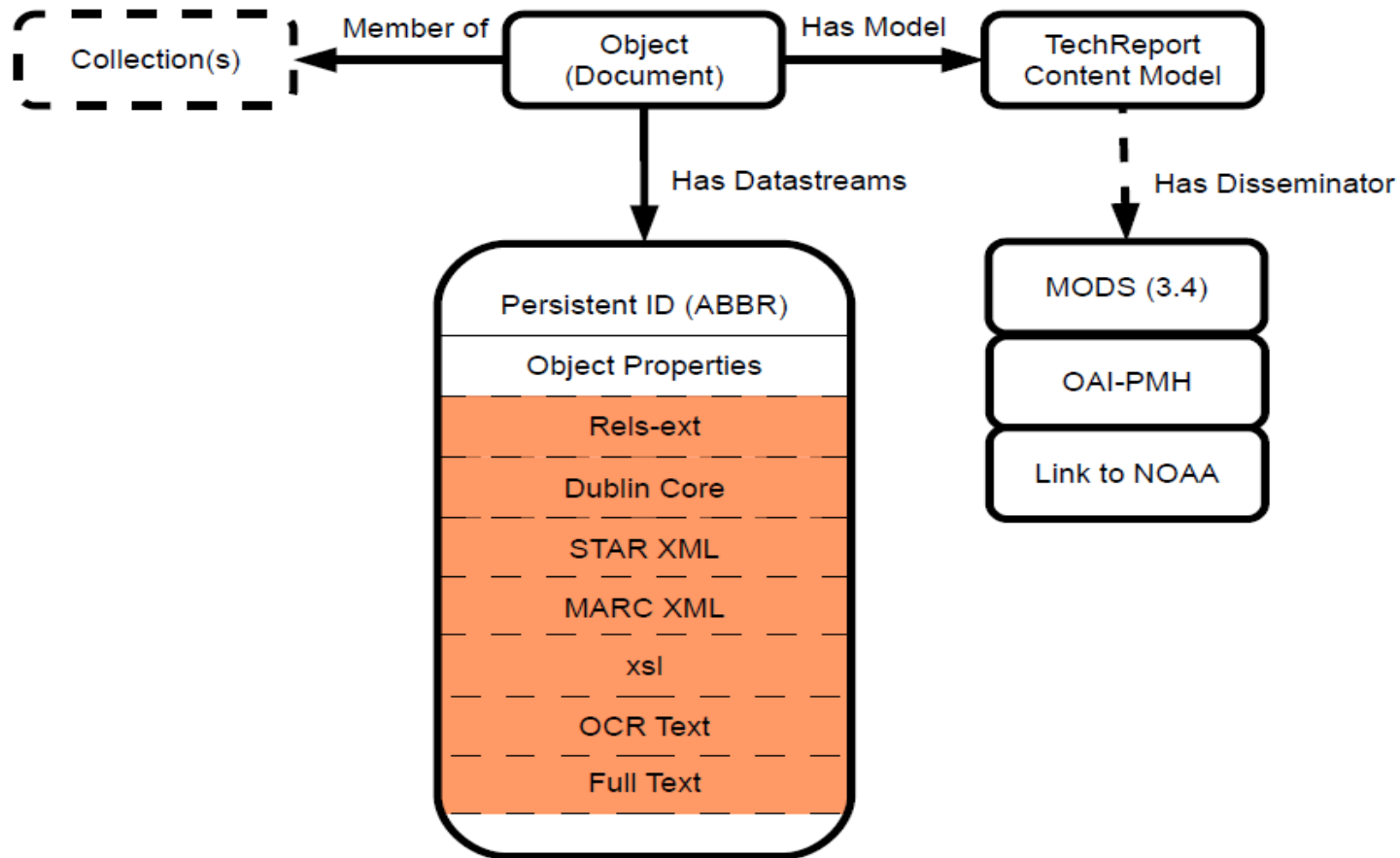
Federal Science Repository Service

www.ntis.gov

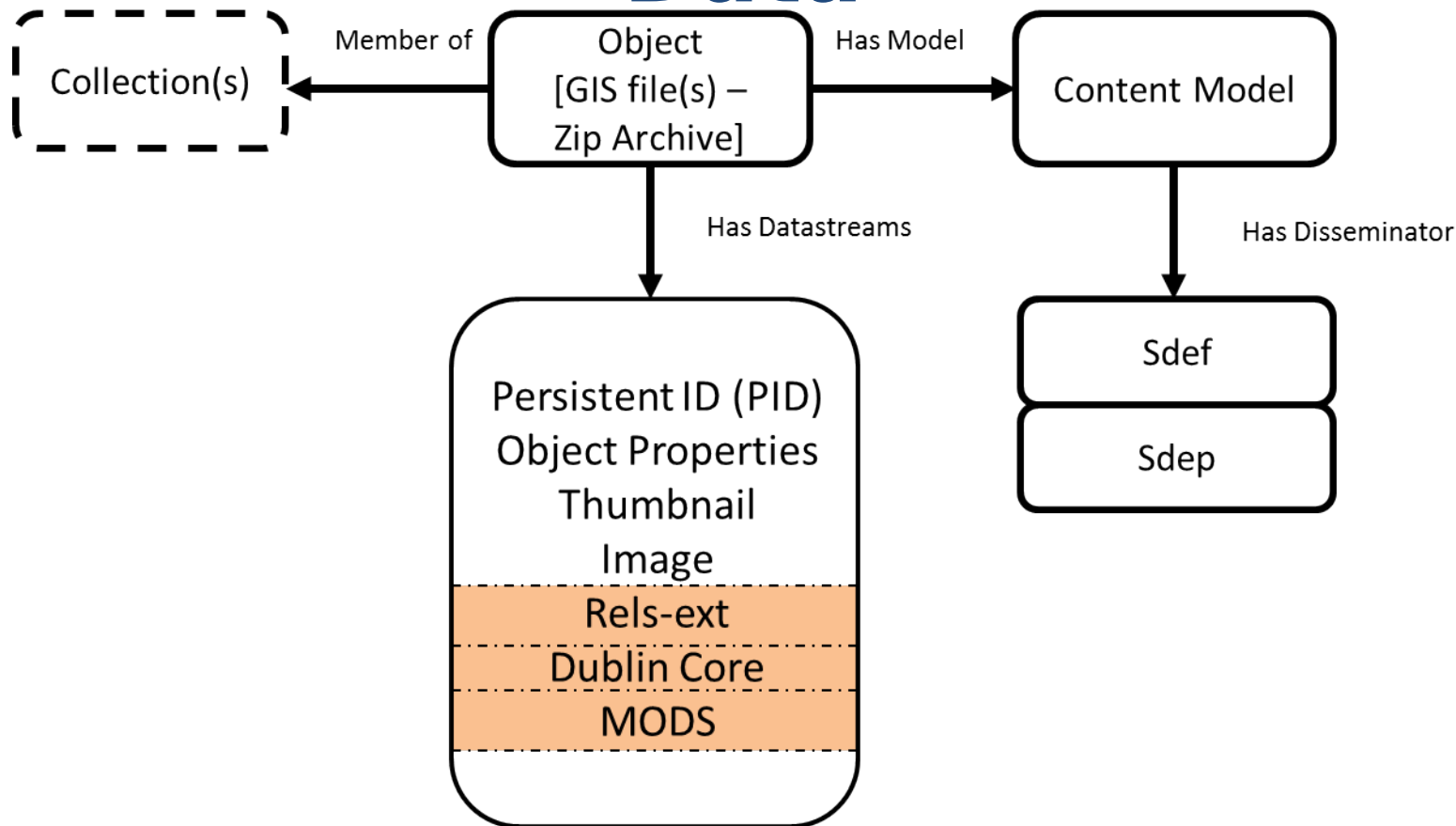
Fedora 3.42/SOLR framework:

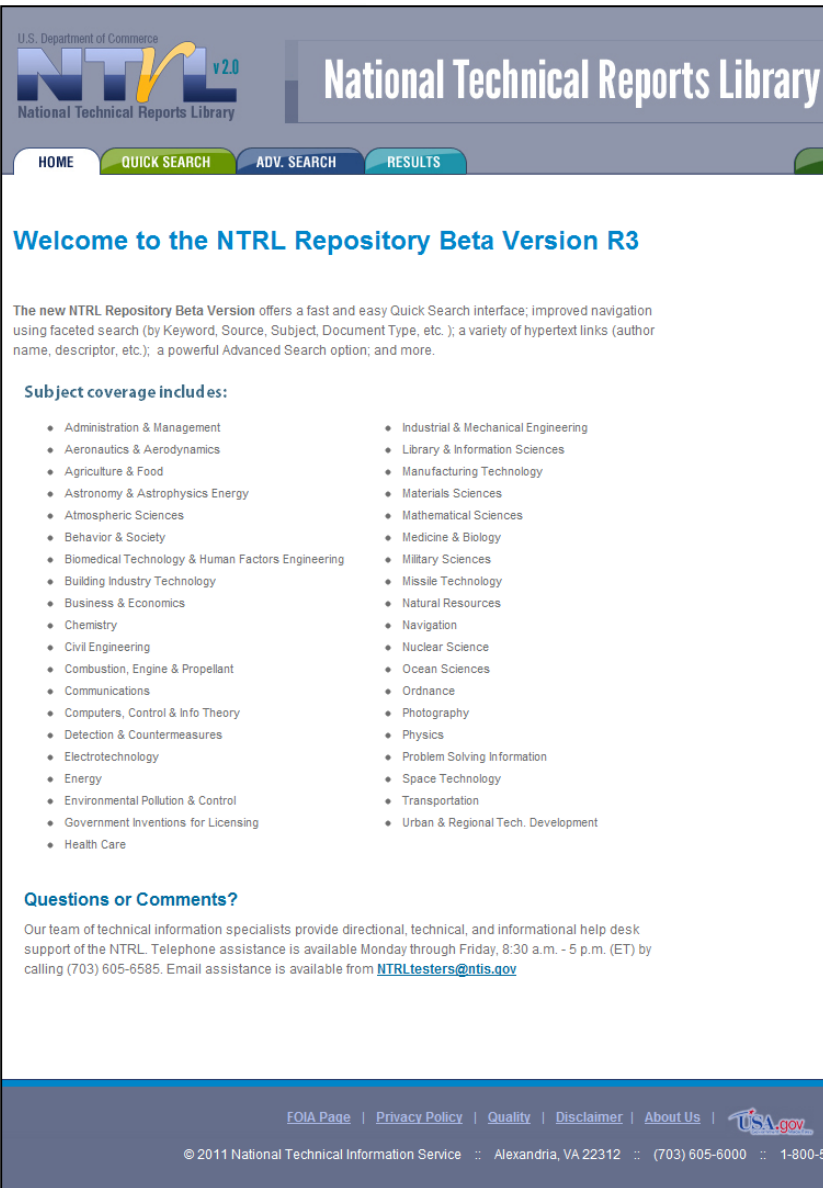


Object Model for Technical Reports



Object Model for Geospatial Data





The screenshot shows the NTRL website interface. At the top left is the NTRL logo with 'v2.0' and 'National Technical Reports Library'. Below the logo are navigation buttons: HOME, QUICK SEARCH, ADV. SEARCH, and RESULTS. The main heading reads 'Welcome to the NTRL Repository Beta Version R3'. A paragraph describes the new interface features. A 'Subject coverage includes:' section lists various scientific and technical fields. At the bottom, there is a 'Questions or Comments?' section with contact information and a footer with links like FOIA Page, Privacy Policy, and USA.gov.

U.S. Department of Commerce
NTRL v2.0
National Technical Reports Library

HOME QUICK SEARCH ADV. SEARCH RESULTS

Welcome to the NTRL Repository Beta Version R3


The new NTRL Repository Beta Version offers a fast and easy Quick Search interface; improved navigation using faceted search (by Keyword, Source, Subject, Document Type, etc.); a variety of hypertext links (author name, descriptor, etc.); a powerful Advanced Search option; and more.

Subject coverage includes:

- Administration & Management
- Aeronautics & Aerodynamics
- Agriculture & Food
- Astronomy & Astrophysics Energy
- Atmospheric Sciences
- Behavior & Society
- Biomedical Technology & Human Factors Engineering
- Building Industry Technology
- Business & Economics
- Chemistry
- Civil Engineering
- Combustion, Engine & Propellant
- Communications
- Computers, Control & Info Theory
- Detection & Countermeasures
- Electrotechnology
- Energy
- Environmental Pollution & Control
- Government Inventions for Licensing
- Health Care
- Industrial & Mechanical Engineering
- Library & Information Sciences
- Manufacturing Technology
- Materials Sciences
- Mathematical Sciences
- Medicine & Biology
- Military Sciences
- Missile Technology
- Natural Resources
- Navigation
- Nuclear Science
- Ocean Sciences
- Ordnance
- Photography
- Physics
- Problem Solving Information
- Space Technology
- Transportation
- Urban & Regional Tech. Development

Questions or Comments?

Our team of technical information specialists provide directional, technical, and informational help desk support of the NTRL. Telephone assistance is available Monday through Friday, 8:30 a.m. - 5 p.m. (ET) by calling (703) 605-6585. Email assistance is available from NTRLtesters@ntis.gov

FOIA Page | Privacy Policy | Quality | Disclaimer | About Us | 

© 2011 National Technical Information Service :: Alexandria, VA 22312 :: (703) 605-6000 :: 1-800-55

The National Technical Reports Library

- NTRL FSRS Version (April 2012)
 - Currently serves 2.5 million records
 - Focus on federally funded technical reports
 - Rich metadata
 - Metadata ingested from existing NTIS system
 - Access control via existing NTIS subscription system
 - Full text access to >650,000 docs in existing NTIS distribution system



The screenshot shows the homepage of the Deepwater Horizon Repository. At the top, there is a navigation bar with links for HOME, QUICK SEARCH, ADV. SEARCH, RESULTS, ABOUT US, and HELP. The main heading reads "Welcome to the Deepwater Horizon Repository". Below this, a paragraph describes the repository's features: "The new Deepwater Horizon Repository offers a fast and easy Quick Search interface, a powerful Advanced Search option, and the ability to filter results by Year, Creator, and more. Search Fields include: Title, Summary, Subject Headings, Keywords, Creator, Creating Organization and numbers such as Report Number, Project Number, Record Identifier, and Accession Number; and more." A row of logos for various partner organizations follows. Under the heading "Featured Deepwater Horizon Reports:", there is a horizontal carousel of report covers, including "DEEP WATER: The Gulf of Mexico and the Road to Energy Security", "National Oceanic and Atmospheric Administration", "America's Gulf Coast", and "Oil Budget Call". The footer contains links for "Federal Science Repository Service", "FOIA Page", "Privacy Policy", "Quality", "Disclaimer", "About Us", and the "USA.gov" logo.

The NOAA Repository

Transitioning from Deepwater Horizon Repository

- MARC from library system mapped to Core FRS fields
- > 8,000 metadata records; ~ half of the objects are managed internally and other half external
- Different search fields and filters
- Different fields shown in results
- Storage of full text and media for ~ 60% of the resources; rest are outside links.
- Original MARC XML also available.
- Java Messaging Service and GSearch for easy deployment of updates to Solr
- Multiple media.
- Most recently added journal articles based on Web of Science.





Implementations Under Development

- Two Islandora implementations for programs in Departments of Commerce and Defense
- Input System to support metadata entry in two languages and uploading of documents
- Focus on access control via Fedora Security Layer and connected to LDAP server
- Support for topical collections
- Adding GIS objects
- Linking related objects – versions, parts, replacements, translations, alternate formats, other related objects
- Multi-lingual end-user interface

National Technical Information Service



Don Hagen

Associate Director

National Technical Information Service

dhagen@ntis.gov

703-605-6142

Gail Hodge

Wayne Strickland

Advanced Informatics Group Leader

Program & Product Mgmt. Div.

Information International Assoc. (IIA)

National Technical Information Service

ghodge@iiaweb.com

wstrickland@ntis.gov

865-742-5430

703-605-6543