NDS Updates & Progress

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from the Internet to the “Datanet”
NDS: A Builders’ Consortium

• Communities
  – Astronomy, Biology, Engineering, Geoscience, Information Science, Material Science, Medicine, Social Science
  – BDHubs, ESIP, RDA

• Universities, Libraries, Archives, Government & Publishers
  – CU Boulder, Harvard, Indiana, Johns Hopkins, Notre Dame, Purdue, UC San Diego, UIC, UIUC, U Michigan, ICPSR, Univ. of Washington …
  – NIST

• US Computing and Data Centers/Cyberinfrastructure
  – ANL, NCSA, PSC, SDSC, TACC
  – Brown Dog, CyVerse, Data Excacell, DataONE, DFC, GABBs, IN-CORE, iRODS, Globus, SciServer, SEAD, Terra Populus, TERRA REF, Whole Tale, LSST, LIGO, …
NDS Snapshot

- 3 years old
- $7M+ under review
- Diversified funding

Illinois & California

ARPA-E
DOE
NASA
NIH
NIST
USDA
What NDS Offers to Researchers

NDS Labs Workbench
• Incubate your data projects
• Experiment with tools, perfect stack.
• Run data science training environments.
• Promote your data tools.
• Provide early data access.

NDS Share DataDNS
• Share your data without moving it.
• Contribute to reproducible science.
• Invite new analysis.
• Services for finding, indexing data.
NDS Momentum

• NDS Labs Workbench helping researchers
  – TERRA-Ref workshops, early access to data

• Funding
  – $7M under review
  – Won bioCADDIE IR challenge award

• Partnerships
  – ESIP, Midwest Big Data Hub, RDA-US

• Pilot communities: Social sciences, metro data science, digital agriculture, information management, materials science, astronomy
NDS6 Directives

- Librarians as key partners and stakeholders
- NDS as iSchool and training platform
- Stronger ties to other groups, e.g. RDA
- Closer integration with Big Data Hubs
- NDS as less of archive and more solutions for data retention, preservation, and disposal
- Analysis toolbox prototype for analyzing data in repos
NDS6 Outcomes

→ NDS as a training platform
  • Odom, TERRA-Ref workshops
  • iSchool pilot at University of Washington
  • Think Chicago Hackathon
→ Outreach to library community
  • RDAP
→ NDS engaged with RDA
→ Launch toolbox from data repo proof of concept