NDS Updates & Progress

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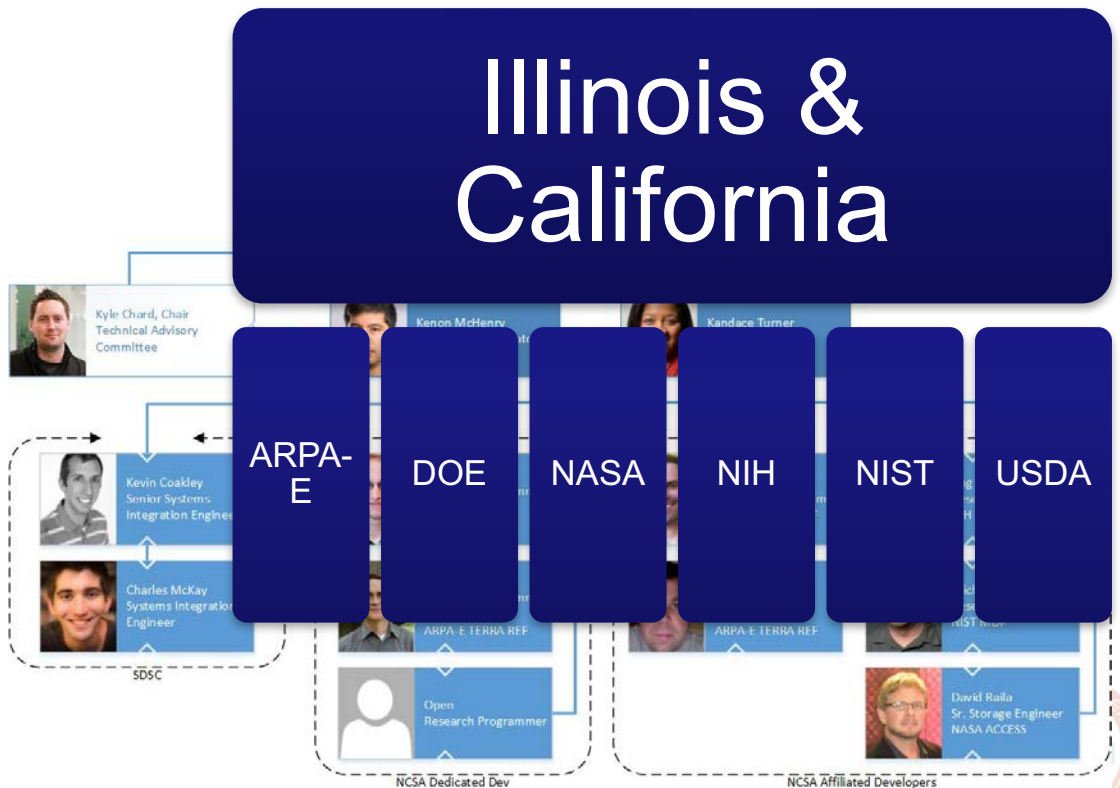@superchristinek

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** …
  - Nature, Science, APS, IEEE, PLOS, **Elsevier**, …
  - **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

What NDS Offers to Researchers

NDS Share
DataDNS

- Share your data without moving it.
- Contribute to reproducible science.
- Invite new analysis.
- Services for finding, indexing data.

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 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