NDS Labs and NDS Share
early ideas

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NDS Lab and NDS Share

- NDS Lab
  - Target: friendly developers
  - A community support environment for developing, coordinating, deploying prototype service
  - Spinning disk, storage, virtual machines for developing and hosting services
  - Available to NDS community members
- NDS Share
  - Target: friendly scientists
  - Experimental platform for sharing data
    - Enable anyone to create data collections, store data, get DOI
  - Include installations of community data sharing applications
  - Will evolve over time
- Partnership between NCSA, ANL, TACC, and SDSC
  - Other interested partners?
- Look to make available by January 2015

Experimental Platforms for NDS

- Partnership between NCSA, ANL, TACC, and SDSC
  - Leverage existing infrastructure
  - Other interested partners?
- Goals
  - Provide non-toy, operational-scale platform for developing NDS capabilities
  - Provide an environment for consortium members to contribute in a real way
  - Understand what is required from an NDS Framework
  - Provide a vehicle for interacting with real users and responding to their needs
  - Further cultivate an NDS community of providers, developers and users

NDS Share

- Targeted at friendly users
  - Experimental platform for sharing data
  - Place to interact with real users, understand how they use tools, get feedback, respond to needs
- Offers a menu of capabilities
  - Options will overlap in functionality
  - Expect a certain level of software maturity
- Possible initial offerings
  - SciDrive (deployed across sites)
  - Globus Share
  - Repository apps: Dataverse, Zenodo (Invenio), Dspace

NDS Labs

- Targeted to developers
  - Provide access to storage accessible through various modes
    - Spinning disk, slow storage (tape)
    - Object store, Databases, filesystems
  - Provide VMs for developing services
  - Provide common community tools
    - iRODS, Globus Share, OwnCloud, SQL Databases
    - Repository apps, Fedora, …
- Open to Consortium members with low bar
- Migration to NDS Share
  - When app/service matures enough, ready for external users (though still experimental)
  - Expect process for determining what gets migrated

Community Support

- Expect develops with access to NDS Labs/Share will share what they are doing with Consortium

- Need vehicles for communicating this
  - Low-bar access to an NDS Wiki
    - Expected to provide summaries that others can easily find
    - Open discussion
  - Open Archived Mailing lists, chat rooms
  - Open Source Repositories (GitHub, Bitbucket)

- Communication will be key for evaluating
  - Migration from Labs to Share
  - Impact on users