







NSDL Technical Systems Transition



Overview of technical systems transition
September 8, 2011







NSDL Technical Systems Transition

- Technical systems are being moved from Cornell to a combination of Cloud and UCAR based hosting services
- Goals:
 - Position the library for a sustainable future
 - Streamline technical operations for efficiency
 - Maintain operations during the transition with minimal impact on users
 - Complete by late fall, 2011



What's Staying the Same

- NSDL.org site presence will remain the same
- Search API will remain the primary access point to the NSDL repository and index
- OAI and the NSDL Catalog System (NCS) will continue as the primary mechanisms to get collections into NSDL (metadata, paradata, annotations, etc.)
- Handle Service will continue for unique IDs



What's Changing

- The NDR system will be decommissioned
 - Significantly simplifies our operational overhead
 - Removes duplicate functionality
- ExpertVoices, NSDL Wiki, and OnRamp will be decommissioned
 - All blogs and content will be moved to other places, archived, or deleted.
 - We are working with content creators on this migration. Target date end of Sept.



Impacts for Pathways and Users

- NSDL.org Web site (search, browse, info pages, etc.) should see very little or no downtime for the final 'flipping of the switch'
- Short downtime in OAI harvesting may be necessary
 - NSDL will operate with a static version of the repository during this period, if necessary
- All content on ExpertVoices, NSDL Wiki, and OnRamp must be moved to alternatives
- NSDL technical staff will be busy during the transition period and unavailable for other work



Key Views and learning applications **Current NSDL Technical Platform** Repository services and APIs Ingest tools and services Partner 1, n **NSDL.org Learning Apps** Views and Portals, learning apps, applications Library search and browse UI Science Literacy Maps, CCS, etc. mobile apps, etc. Harvest resource metadata, Perform resource-centric search: retrieve annotations, and paradata metadata, annotations, and paradata for views **OAI-PMH** Search Public service APIs Data provider REST API (DDS) Combines resource metadata. annotations, and paradata NSDL Data Repository (NDR) Repository Contains resources, resource metadata, annotations, and paradata for all NSDL collections system Writes metadata. Ingests metadata, annotations, and annotations, and paradata into NSDL paradata into NSDL **NCS OAI-PMH** Ingest Ingest from partners tools, services Metadata editor tool

