RESEARCH DATA MANAGEMENT
UNIVERSITY OF OKLAHOMA
UNIVERSITY LIBRARIES

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WHY WE ARE HERE: DATA SHARING

Office of Science and Technology 2013

• Increasing Access to the Results of Federally Funded Scientific Research
• Agencies with over $100 million research and development expenditures
INSTITUTIONAL REPOSITORY

- ShareOK
  - Primarily documents
    - Dissertation
    - Thesis
    - Publications
      - Faculty, staff, and student
  - Limited research data
    - Citizen Science specimen sample photos
EDUCATION/TRAINING WORKSHOPS

• Software Carpentry/Data Carpentry Foundation member
  • Software Carpentry 3 per semester
  • REU (Research Experience for Undergraduates)
  • Workshops in support of BioSurvey NRT grant
• Research Data Management classes/hands-on
  • Tips, tricks, and tools
    • Workflow best practices
  • DMPTool
• ResBaz (Research Bazzar)
  • Focuses on creating opportunities for researchers to share their digital skills
  • Two day event
RDM CONSULT

- OU Faculty, staff, and students can schedule appointments with UL staff for DMP consultation
  - Liaison Librarians
  - Research Data Specialist
  - Digital Scholarship Specialists
  - Informatics Specialist
  - CLIR Fellowship postdoc (starting September)
- Open office hours @ Digital Scholarship Lab
- Innovation HUB
  - Innovation @ EDGE
  - Virtual Reality
  - 3D printing
  - Circuits
Digital Identity
ORCID iD

- Adoption increasing with publishers and large repositories
  - Integrations with
    - SCOPUS, CrossRef, ResearcherID
    - Dryad, PLOS
    - AGU, APS
  - UL and OU is an ORCID member
    - Integration with
      - ShareOK
      - Digital Object Identifiers
Digital Object Identifiers

DOI def: unique alphanumeric string assigned by a registration agency (International DOI Foundation) to identify content and provide a persistent link to its location on the Internet.

- UL assists researchers with registering
  - South Central Climate Science Center (5)
  - OK Mesonet (3)
  - The Anthropocene Biosphere (21) symposium series
- Promotes sharing of research output
  - Citable reference: Dataset authors/producers, data release date: Dataset title, version. Data archive/distributor, access date in standard AMS format, data locator/identifier (doi or URL).
DATA REPOSITORY

NEED

• Systems better suited for data formats
  • CSV, NetCDF, GRIBB, HD5, Excel, SQL
• Systems to consider
  • CKAN/DKAN
  • IRODS
• Build what community needs
  • Research Computing and Data Advisory Group
    • Survey
    • Data interviews
    • Use case based
    • Best practices
HOW IS UL DOING?

- Curatorial role for data stewardship
- Establish a robust digital repository
- Advocacy for open access and appropriate IP policies
- Consulting services to the community regarding data management plans
- New unit – not a traditional library but rather an information hub for research
- Educational opportunities
- Open access/copyright