SCIENTIFIC DATA CONSULTING— LIBRARY SUPPORTING RESEARCH

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RECENT DEVELOPMENTS

- **Open data:** growing governmental interest in making publicly-funded research more transparent and more available (NIH, NSF)

- **Broader critical review:** greater interest evaluating original research data (Nature)

- **Technological advances:** sharing of research results easier and faster (Repositories, Web 2.0)

- **Reuse/preservation of research data:** increased consideration of the cost and value of research data and need to ensure its longevity

THE CHALLENGE FOR INSTITUTIONS

Data is expensive

- Time, instrumentation, inability to reproduce

Increasing regulation

- Granting agencies and journals require submission

Inadequate training

- No formal data management curriculum

Preservation is not a priority

- For most researchers, preservation takes time away from the work that is rewarded (publication, teaching)

3

OUR SOLUTION

Librarians as partners
- Consult with and advise researchers
- Provide leadership to the institution
- Work with existing data organizations

In order to succeed, librarians need to:
- Build and develop specific expertise
- Facilitate communication

4

WHY THE LIBRARY?

- **Neutral:** works across the entire institution
- **Strong in relationship building:** has experience fostering discussion and relationships, and cultivates an existing support network
- **Intellectual Property experts:** has dealt with copyright, can translate to data
- **Service-oriented:** uniquely positioned as an intellectual service unit within the institution

SCIENTIFIC DATA CONSULTING GROUP

1. Data Interviews with science and engineering researchers
2. NSF Data Management Plan Mandate preparation and development of policies and workflow
3. Institutional Repository Data Working Group

University Library

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NSF Data Management Plan Update

- Now effective January 18, 2011
- Some earlier proposals also require DMPs (even some in early December)
- Broad guidelines, but directorates may have specific guidelines for their community
- Uploaded as 2-page supplemental document in FastLane (with specific format requirements)
- Formally peer-reviewed, and will require status updates in all progress reports

DATA IN UVA'S INSTITUTIONAL REPOSITORY

Representation across UVA

- Andrew Sallans serves as the Data Working Group Team Lead
- Science/engineering (Andrew Sallans, Sherry Lake, Carla Lee, Bryan Wright [Physics LSP])
- Medical (Bart Ragon, Jay Fox, Tom Spraggins [ITC/SOM])
- Law/Business (Jon Ashley)

Vision

- Data as supplementary to self-deposit publications and ETDs
- Submitters of self-deposit publications or ETDs will be given the option to add supplementary data
- Supplementary data will have no services associated with it "data blob" in/"data blob" out
- Data will be indexed by the metadata associated with it, so it will be searchable independent of the publications, but will be linked to the publication