Panel Discussion presentation: "Addressing Research Data Management Needs as the Scientific Data Consulting Group"

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Addressing Research Data Management Needs as the Scientific Data Consulting Group

5th Annual University of Massachusetts and New England Area Librarian eScience Symposium
4/3/13
Andrew Sallans,
Head of Strategic Data Initiatives,
University of Virginia Library
A need, and an opportunity

- May 2010 announcement of upcoming NSF DMP requirement
- UVA administrators recognize new requirement and insufficient researcher preparedness as a risk to future funding
- Library made case to take on support, and received support from research and IT leadership
An evolution of services

- **Electronic Text (Etext) Center and Geospatial and Statistical Data (GeoStat) Center, 1990s-2006**
- **Science and Engineering Digital Initiative (SEDI) Lab, 2003-2006**
- **Research Computing Lab (RCL), 2006-2010**
- **Scientific Data Consulting (SciDaC) Group, 2010-Present**

What comes next?

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Getting SciDaC started: May 2010

Assessment → Data Interviews
Planning → Data Management Plan Support
Implementation → Data in the Institutional Repository

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Engaging on many fronts

Front-line Services
• Advising on data management planning
• Consulting on data management process improvement and curation
• Training on requirements and best practices

Process Improvement
• DMPTool for efficiency in offering DMP services and sharing best practices
• Policy revision and recommendations
• Serving as the bridge for institutional data management services

Infrastructure Development
• Repository services (Libra, Academic Preservation Trust, Digital Preservation Network)
• Contributing use cases and real requirements to development efforts

Community-wide
• Involvement in national initiatives to develop parts of our support model
• Developing collaborations to share and gain expertise
Data interviews

• Two goals
  1. Gain deeper knowledge of specific research behaviors, and
  2. Promote our intention to provide data management support
• Conducted around 30 interviews across many domain areas, in partnership with subject liaisons
• Identified tremendous challenge of balance between fully-customized versus commodity/scalable solutions
Improving assessment through DMVitals

Conduct Data Interview

Send initial report to researcher for approval/review

Distribute final report and begin DM Implementation with Researcher

Produce "Data Interview Report"

Code Data Interview answers in the "DM Vitals" tool

Extract action statements from "DM Vitals Recommendations Report"

DMVitals Sustainability Rating
(Example - not real data)

% of Sustainability Guidelines Met

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Data management plan support

- Initially asked to provide boilerplate text for researchers, we resisted this approach
- Began providing services by developing a very user-centered template approach, incorporating Q&A and guidance
- Heavy focus on collaborative development with our team and iterative revision
Scaling the DMP consulting service

DMPTool Uptake: October 2011 - September 2012

Growth of DMPTool Plans by Institution

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Guiding data management support within our institutional repository

- Improvement of upstream data management practices to improve quality in downstream preservation
- Development of mechanisms for preservation of data

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Shifting into “operational” support

• Implementation of grant-driven data management plans
• Plans for the sake of doing better research
• Using notebook approach
Selected additional efforts

• Data Rights and Responsibilities Guidance
  – http://www.lib.virginia.edu/brown/data/datarights.html

• Data Management Day at UVA

• Graduate Student Data Management Portal

• Graduate Student Data Management Bootcamp (in partnership with Virginia Tech Libraries)

• ASERL/SURA Model Language for Research Data Management Policies

• ARL SPEC Kit on Research Data Management Services (in collaboration with JHU, data presently being collected)
## Core team composition

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Training</th>
<th>Percent Time</th>
<th>Area of Focus</th>
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</thead>
<tbody>
<tr>
<td>Andrew Sallans</td>
<td>Head of Strategic Data Initiatives</td>
<td>MLIS, MSMIT</td>
<td>Full-time</td>
<td>Management, planning, IT, budgeting</td>
</tr>
<tr>
<td>Sherry Lake</td>
<td>Senior Data Consultant</td>
<td>MLIS</td>
<td>Full-time</td>
<td>Planning, programming, storage, metadata</td>
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<tr>
<td>Bill Corey</td>
<td>Data Consultant</td>
<td>MLIS</td>
<td>Full-time</td>
<td>Policy, ownership, metadata</td>
</tr>
<tr>
<td>Andrea Denton</td>
<td>Health Sciences Data Consultant</td>
<td>MLIS</td>
<td>4 hours per week</td>
<td>Clinical research, IRBs</td>
</tr>
<tr>
<td>Ricky Patterson</td>
<td>Data Consultant</td>
<td>PhD Astronomy</td>
<td>Half-time</td>
<td>Scientific data, methods, funded research</td>
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<tr>
<td>Summer interns</td>
<td>MLIS</td>
<td>Full-time for 10 weeks</td>
<td></td>
<td>Project based</td>
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</tbody>
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What comes next?

Making Data Management Easier

Libraries have been managing information for 4,000 years. Today, your libraries are evolving and building expertise to continue this tradition so that they can help you preserve research data of the past, present, and future.

The Data Management Consulting Group is ready to consult with you on your entire data life cycle, helping you to make the right decisions, so that your scientific research data will continue to be available when you and others need it in the future. Contact us now to start a conversation about your research.

Research Life Cycle

[Diagram showing the data management life cycle with nodes for Data Discovery, Data Archive, Data Collection, Data Analysis, Data Sharing, and Project Start Up, Proposal Planning Writing, and End of Project.]
Questions?

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