Data Services Program

- DSP situated within the University Library Center for Digital Scholarship (CDS)
  - Several liaisons with dual CDS appointment
- Digital Scholarship & Data Management Librarian (~60% FTE)
- Supported by Operations Team with web development and dSpace expertise
- Provide service by leveraging existing resources across campus
About IUPUI

• Urban health sciences campus offering both Indiana University and Purdue University degrees, managed by IU
• ~30,000 students (18K undergrad, 12K grad + prof)
• Four libraries on our campus
  • University Library serves 15+ units
  • Dental, Law, & Medical School-based libraries
A brief snapshot

COMMON GROUND
Indiana CTSI

We Provide

- Clinical Research Center Access
- Collaboration Opportunities
- Community Access
- Biospecimen Access
- Education & Training
- Grants & Funding

We Serve

- A Letter of Support
- Project Development Help
- Research Studies Information
- Statistics & Data Management Help
- Recruitment, Feasibility & Data Request
- Core Technology & Lab Resources

News Alerts

Indiana Drug Discovery Alliance seeks applications for new RFA -- due July 1

2014 Indiana CTSI Community Health Engagement Program Community Based Research Award Applications due May 16

Indiana CTSI 2013 Fall Core Pilot Awards recipients announced
ICTSI: DM Service & Training

• Department of Biostatistics, Data Management Team
  • Consultations (free)
  • Data Management (fee-based)

• Master’s Programs
  • Clinical Research
  • Translational Science

• Various fellowships, mentoring, awards
Common Ground

**Generate**

- Good data management is crucial for effective data preservation and sharing
- Research is a collaborative effort
- Research effort is wasted when data is managed poorly

**Data Management**

- Value of data management planning, especially defining or mapping data outcomes
- Value of good documentation
- Choosing tools that support data validation, integrity, and provenance/audit trails
- Implementing a storage and backup plan
- Use of secure, robust institutional cyber-infrastructure over local or departmental resources
Progress thus far

DATA MANAGEMENT TRAINING
Gaps in DM Service & Training

- Most graduate program curricula do not offer coverage in data management
  - Exceptions: Biostatistics, Biohealth Informatics, CS
- ICTSI MS program are too lengthy and expensive for many
- No DMP support offered
2012: Discovered Society for Clinical Data Mgmt during lit review

Winter 2013: Began sharing resources & discussing training

2013-2014: Continued discussions & info sharing; exposure to CTSI DM group

Fall 2012: Reached out to Data Mgmt Team at ICTSI

Spring 2013: Submitted proposal to develop training (not funded)

2014: Began offering DM training
Developing the DM lab

- Identify stakeholders/target audience
- Develop learning outcomes
- Identify core content
  - Proven, effective strategies
  - Generalizable practices
- Identify key campus resources
More about the lab

• Monday, May 19: Poster #116: Improving data management in academic research: Assessment results for a pilot lab. http://hdl.handle.net/1805/4415
1. For a working relationship with a strong research support unit that is part of wide-reaching network (institutionally, state-wide, and nationally)

2. For a shared understanding of data management needs at IUPUI
Where do we go from here?

BUILDING THE FUTURE...
TOGETHER
Mission Overlap

Distinct Roles?
• Navigator
• Educator
• Network hub

Existing Needs
• Data management training
• Data sharing support and infrastructure
• Data preservation and curation services and infrastructure
• Support for emerging incentives
Navigator

- Directing researchers to available cyberinfrastructure
  - Build awareness of resources
  - Appropriate referrals
- Providing a personalized service layer on top of infrastructure or core services
Educator

• Provide practical training relevant to emerging technologies
• Encourage DM behaviors that support data integrity, preservation, curation, sharing, citation, etc.
• Demonstrate data competencies as a valuable skill set
Network Hub

- Keeping administrators informed
- Facilitating a campus-wide conversation of relevant data issues
- Coordinate various experts to support projects
  - Tiered Services
  - Informationist
  - Project Development Teams
- Practice role for the library as a physical or virtual space?
Reflecting
Ongoing challenges

• Competing for time/attention of researchers and data management team
• Communication across a diverse and complex campus
• Limits of DSP staffing
• Balance point-of-need v. proactive outreach
Looking ahead to the future

• Provide practical data management training to researchers, particularly pre-doctoral students & early career faculty

• Collaborate to provide shared mechanisms for data sharing, registration, and tracking impact

• Foster a campus-wide conversation about data stewardship at the level of the institution, individual researchers, and research/professional communities
Resources
