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SHERIDAN LIBRARIES

Data Management Services at Johns Hopkins
Maturing cost models, partnerships, and service value

The 165th ARL Membership Meeting
October 8, 2014

Barbara Pralle, JHUDMS Manager &
Head of Entrepreneurial Library Program

Service Overview

- Services piloted through the Data Conservancy and launched 2011
- Focus is on data management for archiving and sharing data at end of project
  - Consultative support for DM planning/referral
  - Training to improve DM know how
  - Archiving & sharing through JHU Data Archive

Making the Case for Funding

- Know your stakeholders - craft an approach
- Analysis of existing data
  - *NSF proposals, NSF awards, human, software, hardware costs on pilots*
- Negotiating a win/win
  - Approved funding for consultative service
  - Agreed to charge back model for archiving service

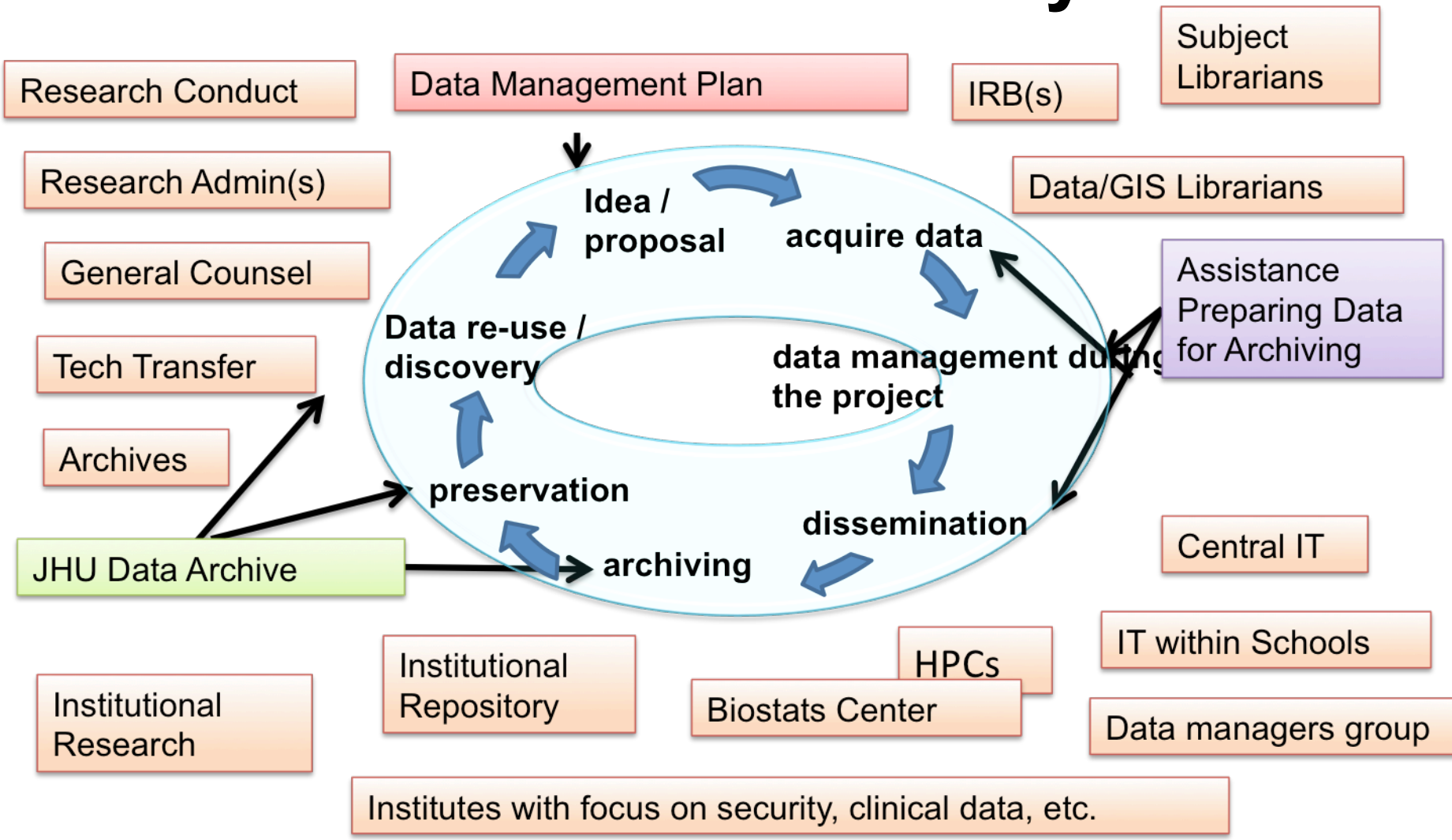
Maturing Funding Models

- DM expectations (beyond NSF) necessitate evolving the consultative funding model
- Archiving model expanded to small data collection archiving service in 2014
  - ➢ Analysis of cost variables particularly human effort
  - ➢Market research and stakeholder input
  - ➢Launched July 1st

Cultivating the Stakeholders

- Identify the key stakeholders and begin building relationships for future
- Initially our focus was on our primary funders
- Quickly realized we need to reach out and work with many other groups across institution

Institutional Ecosystem Supporting Research Data Life Cycle



Shaping Service Value

- Initial focus on compliance – got attention
- Shifted focus to supporting better RDM with goal of helping researchers
  - Ex. Managing graduate student data
- Outreach helped us identify other institution-wide advocates in support of RDM
  - Ex. Stewardship of institutional assets

Growing Service Value

- Must establish trust services can be delivered
- Requires balancing team expertise and capacity with service scope
- Grow services incrementally as expertise and capacity can be expanded

Johns Hopkins Data Archive Dataverse Network

DATA ASSOCIATED WITH: CONTROLLING COLLOIDAL PARTICLES WITH ELECTRIC FIELDS

hdl:TEST/10023
Version: 3 – Released: Thu Aug 14 13:30:16 EDT 2014

Data Citation	The Data Citation can be viewed below in the field "How to Cite this Data", found under "**Data Collection / Methodology**". Why cite?
Publications	Edwards, Tara D. & Bevan, Michael A. Controlling Colloidal Particles with Electric Fields. Langmuir (Web: March 2014) ID: DOI:10.1021/la500178b Link

Data Citation Details

Title	Data associated with: Controlling Colloidal Particles with Electric Fields
Study Global ID	hdl:TEST/10023
Other ID	EZID: DOI:10.7281/T1057CVH
Authors	Edwards, Tara D. (Johns Hopkins University, Chemical and Biomolecular Engineering); Bevan, Michael A. (Johns Hopkins University, Chemical and Biomolecular
Producer	Bevan, Michael (PI), Johns Hopkins University, Chemical and Biomolecular Engineering
Production Date	July 23, 2014
Production Place	Johns Hopkins University
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Fig.1: Experimental electrode device set-up, an example of colloidal structures each can form, and the AC electric field within each device

Fig1.zip
Zip Archive - 7 MB - 3 downloads
MD5 Checksum: 08093aa938391c0324943be457830e34
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Fig.2: SigmaPlot files with data for Fig. 2A and B

Fig2.zip
Zip Archive - 1 MB - 1 download
MD5 Checksum: 183f0a0026188c6eff83984041ad80fd
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Fig.3: video microscopy of steady state colloidal ensemble microstructures within varying experimental conditions

Fig3.zip
Zip Archive - 13 MB - 1 download
MD5 Checksum: cce045a0710f775ff6309d93926cd8dc
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Fig.4: Scanning confocal microscopy and Monte Carlo simulation renderings video and image source files

Fig4.zip
Zip Archive - 14 MB - 1 download
MD5 Checksum: 46237e4ae5927a38d5a571a9ba1a55ad
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Fig.5: Matrix of images for four target crystal sizes and MATLAB code for creating the images

Fig5.zip
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Growing Service Value

- Must establish trust services can be delivered
- Requires balancing team expertise and capacity with service scope
- Grow services incrementally as expertise and capacity can be expanded
  - ➢ Cultivate expertise that has potential to impact broad user base

Johns Hopkins University Data Management Services

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Best Practices for Data Management and Sharing

Dave Fearon and Betsy Gunia
JHU Data Management Services

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Removing identifiers from human subject data

Jennifer Darragh, Data Services Librarian
David Fearon, Data Management Consultant

Best Practices for Sharing Research Data within Spreadsheets

Betsy Gunia and Jonathan Petters
JHU Data Management Services

datamanagement@jhu.edu
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