

Measuring the Impact of Digital Repositories

February 28-March 1, 2017
Agenda

Day 1

- 8:30-8:45am** **Welcome and Introductions - Susan Gregurick, National Institutes of Health (NIH)**
- 8:45-9:30am** **Fran Berman, Research Data Alliance (RDA)**
- 9:30-10:45am** **Session 1: Insight from Repository Managers**
Moderator: Susan Gregurick

Session #1 will feature repository managers describing how they currently assess their digital repository's (DR) impact including: What are the elements of impact? What are the metrics you use? What tools and methodologies do you employ?

1. *Eva Huala, Arabidopsis Information Resource (TAIR)*
2. *Margaret Levenstein, Interuniversity Consortium for Political and Social Research (ICPSR)*
3. *Helen Berman, Protein Data Bank (PDB)*
4. *Robert Downs, Center for International Earth Science Information Network, (CIESIN)*

Panel discussion

- What are the common social, technical, and financial issues associated with repository evaluation? How have they been addressed similarly or differently?
- Are there differences in assessment criteria based upon a DR's:
 - Lifecycle stage (new, mature);
 - Type of content; or
 - Being a deposition database (that contains research data output) versus a dynamic database (that curates and processes submitted or extracted data)?

10:45-11:00am **Break**

11:00am-12:15pm **Session 2: Insight from the Community**
Moderator: Peter Lyster, NIH

Session #2 will feature the perspectives from a variety of people/organizations that interact with DRs. including:

1. *Dean Williams, Lawrence Livermore National Lab (LLNL)*
2. *Sayed Choudury, John Hopkins University*
3. *Anita de Waard, Elsevier,*

4. *Jennifer Lin, CrossRef*
5. *Kim Pruitt, National Center for Biotechnology Information (NCBI)*
6. *Tony Hey, University of Washington eScience*

Panel discussion:

- For the research community, how do you decide where to deposit or access data?
- For publishers, how do you decide where to encourage authors to submit data?
- For funders, how do you decide to initiate, continue, or discontinue a DR?
- For all, what are the different kinds of DR stakeholders, what constitutes a “user community,” what are their roles in evaluation or assessment of a DR, how does or should a DR interact with users, and how does this depend on a specific repository?
- For all, how do you identify and reward change agents that can lead and sustain improved relationship building (DR-community) efforts?

12:15-1:00pm *Lunch*

1:00-2:15pm **Session 3: Insight from Repository Evaluators**
Moderator: Mark Conrad, National Archives and Records Administration (NARA)

Session #3 will feature projects that have developed and implemented metrics for DRs.

1. *Jo McEntyre, ELIXIR*
2. *Patricia Cruse, DataCite*
3. *Mary Barlow, European Molecular Biology Laboratory-European Bioinformatics Institute (EMBL-EBI)*
4. *Bruce Ambacher, Digital Curation Innovation Center (DCIC), University of Maryland*

Panel discussion

- What are the common social, technical, and financial issues associated with DR evaluation?
- How have they been addressed similarly or differently?

2:15-2:45pm **Establish questions for break-outs**
Moderators: Susan Gregurick and Chaitan Baru, National Science Foundation (NSF)

2:45-3:00pm *Break*

3:00-4:30pm **Session 4: Synthesis Breakouts**

Session #4 will feature three breakout groups each charged with identifying key points and messages from each of Sessions #1-3.

1. Break-out focus Session #1, Susan Gregurick
2. Break-out focus Session #2, Peter Lyster
3. Break-out focus Session #3, Mark Conrad

4:30-5:00pm **Session 4: Break-out reports and Summary of the Day**

Day 2

8:00-8:15am **Introduction and Summary of Day 1 - Susan Gregurick**

8:15-9:15am **Session 5: Obstacles/Solutions**

Moderator: Wo Chang, National Institute of Standards and Technology (NIST)

Session #5 panelists will highlight up to three of the greatest obstacles encountered in assessing the impact of DRs and indicate how they were/could be addressed. What are the tools used in DR assessment and where do they succeed/fail? Who is developing these tools? How are they being evaluated?

1. Merce Crosas, Institute for Quantitative Social Science (IQSS)
2. Yusuke Kuwayama, Resources for the Future (RFF)
3. Mustapha Mokrane, International Council of Science: World Data System (ICSU/WDS)
4. Avi Bender, National Technical Information Service (NTIS)

Group discussion: What resources would be helpful?

- A toolbox of indicators and resources for those engaged in DR evaluation (e.g., best practices, advisory support).
- A community portal for collaborative development and extensions of such metrics (e.g., GitHub).
- Other?

9:15-10:15am **Session 6: Break-outs**

Session #6 will feature three breakout groups that will focus on identifying the obstacles and their possible solutions.

1. Break-out A: Mary Moulton, Department of Transportation (DOT)
2. Break-out B: Lucy Nowell, Department of Energy, Science (DOE-Science)
3. Break-out C: Mark Flood, Office of Financial Research (OFR)

Discussion:

- What constitutes due diligence for assessing the current impact of a DR?
- What factors should be considered in prioritizing evaluation of DRs?
- How do you determine the potential or eventual impact of a DR?
- What specific use cases represent urgent and unmet needs for DR metrics?
- Are we lacking tools, methods, technologies for examining the impact of DRs?

10:15-10:30 Break

10:30-11:00am **Session 6: Report outs from breakout groups**

Panel: Mary Moulton, Lucy Nowell, Mark Flood

11:00-12:00pm **Session 7: Moving forward with repository assessment**
Moderator: Chaitan Baru

Develop ideas that could accelerate development and adoption of high quality criteria for reviewing and evaluating the impact of DRs. Issues to be addressed will be informed by earlier panel and breakout discussions.

12:00-12:15pm **Summary and Adjournment – Susan Gregurick**