

Measuring the Impact of Digital Repositories

February 28-March 1, 2017

Reading and Resource List

Organized by Agenda Session:

Session 1: Insight from Repository Managers

1. Downs, R R. [Audit of a Scientific Data Center: Opportunities and Approaches](#) - Paper SciDataCon 2016.
2. Downs R, Giarretta, Hughes JS. [Policy Recommendations for Institutions to Serve as Trustworthy Stewards of Research Data](#) - Presentation RDAP Annual Meeting. 2014
3. Downs RR, Chen RS. [Independent Evaluation of a Scientific Data Center for Compliance with the ISO 16363 Requirements for Audit and Certification of Trustworthy Digital Repositories](#). 2013. Poster, 2013 RDA Meeting.
4. Ember C, Hanisch R. [Sustaining Domain Repositories for Digital Data: A White Paper](#). ICPSR 2013
5. Hughes JS, Downs R. [An Assessment of a Science Discipline Archive Against ISO 16363](#) - Poster 2016 AGU Meeting.
6. Oliver S, Lock A, et al. [Model organism databases: essential resources that need the support of both funders and users](#). BMC Biology, 2016.
7. Wilkinson et al. [The FAIR Guiding Principles for scientific data management and stewardship](#). Sci Data 2016

Session 2: Insight from the Community

1. ASCAC (Advanced Scientific Computing Advisory Committee), Department of Energy. [Synergistic Challenges in Data-Intensive Science and Exascale Computing](#), Summary Report, 2013
2. Bruce R. [Research at Risk: Developing a Shared Research Data Management Service for UK Universities](#). Presentation, CNI Fall Meeting, 2015.
3. Dumontier et al. [The health care and life sciences community profile for dataset descriptions](#). PeerJ 2016
4. Elsevier. [Responses to NIH Research Data-Related Requests for Information \(RFIs\)](#), 2015, 2016, 2017.

5. Elsevier. [Responses to NLM Strategic Vision- and Plan-Related Requests for Information \(RFIs\)](#), 2015, 2017
6. Kratz JE, Strasser C. [Researcher Perspectives on Publication and Peer Review of Data](#). PLoS ONE 10(2): e0117619 2015
7. Lin J, Strasser C. [Recommendations for the Role of Publishers in Access to Data](#). PLoS Biol 12(10): e1001975. 2014
8. Martone m. (ed.). [Data Citation Synthesis Group: Joint Declaration of Data Citation Principles](#). San Diego CA: FORCE11; 2014
9. Starr J, Castro E, Crosas M, et al. [Achieving human and machine accessibility of cited data in scholarly publications](#). PeerJ Computer Science 1:e1, 2015.
10. Strasser C, Kratz J, [Making Data Count](#). Scientific Data 150039. 2015
11. Wilkinson et al. [The FAIR Guiding Principles for scientific data management and stewardship](#). Sci Data 2016
12. Williams D, Balaji V, Cinquini L, et al. [A Global Repository for Planet-Sized Experiments and Observations](#), Earth System Grid Federation, American Meteorological Society, May 2016.
13. Williams D, Lautenschlager M, Denvil S, et al. [6th Annual Earth System Grid Federation Face-to-Face Conference](#), (ESGF F2F)Workshop Report, December 2016.
14. [W3C Recommendations for Data on the Web Best Practices](#)

Session 3: Insight from Repository Evaluators

1. Beagrie N, Houghton J. [The Value and Impact of the European Bioinformatics Institute, Executive Summary](#), Report, 2016.
2. Beagrie N, Houghton J. [The Value and Impact of Data Sharing and Curation A synthesis of three recent studies of UK research data centres](#), Report 2014.
3. [CCSDS 650.0-M-2 aka ISO 14721 REFERENCE MODEL FOR AN OPEN ARCHIVAL INFORMATION SYSTEM \(OAIS\)](#)
4. [CCSDS 652.0-M-1 aka ISO 16363 AUDIT AND CERTIFICATION OF TRUSTWORTHY DIGITAL REPOSITORIES](#)
5. Durinx C, McEntyre J, Appel R *et al.* [Identifying ELIXIR Core Data Resources](#), *F1000Research* 2016.
6. Fenner M, Crosas M, et al. [A Data Citation Roadmap for Scholarly Data Repositories](#). bioRxiv 097196, 2016.
7. IEEE. [Computational Archival Science: digital records in the age of big data](#). Workshop, 2016.
8. ISO 16363 [Metrics Self-Assessment Spreadsheet](#)
9. [Katre D, Giaretta D.\(Eds.\) APA/C-DAC International Conference on Digital Preservation and Development of Trusted Digital Repositories, New Delhi, India Feb 5-6 2014](#). New Delhi, India: Excel India Publishers, 3-10. ISBN: 978-93-82880-83-7 - See especially

Session 5: Obstacles/Solutions

1. ICSU/WDS. [An Introduction to the Core Trustworthy Data Repositories Requirement](#) , document, 2016.
2. ICSU/WDS. [Core Trustworthy Data Repositories Requirements](#), document, 2016.
3. Bilder G, Lin J, Neylon C. [Principles for Open Scholarly Infrastructure-v1](#), 2015.

Additional Background Documents:

- NSB (National Science Board). [Long-Lived Digital Data Collections Enabling Research and Education in the 21st Century](#), 2005.
- NSTC (National Science and Technology Council). [Harnessing the Power of Digital Data for Science and Society](#), 2009.
- [Rand International Review: Health Research Evaluation Frameworks, 2008](#)
- [Treasury Magenta Book](#), 2011
- [Towards a Global Support of Core Data Resources for the Life Sciences](#), 2017.