

Preparing for the CoreTrustSeal – Insights and Lessons Learned

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Agenda

- Introduction
- Presentations:
 - Lisa Johnston – University of Minnesota
 - Roger Weaver – Missouri University of Science and Technology
 - Bob Downs – CIESIN-SEDAC, Columbia University
- Discussion/Q&As
- Next steps

Navigating the Trusted Repository Requirements: An Organization's Perspective

National Center for Atmospheric Research



- Federally funded research and development center by NSF.
- 7 distinct laboratories plus scientific programs that have diverse research areas and associated outputs:
 - Atmospheric Chemistry, Climate, Weather science and related hazards to transportation, Solar-terrestrial interactions, Computer science innovation, Merging impacts of weather and climate on the built environment, commerce, safety, and national security.
 - Publications, datasets, software tools, models, instruments, aircrafts, etc.

The Data Stewardship Engineering Team (DSET)

<https://ncar.ucar.edu/data-stewardship-engineering-team-dset>

- Created by the NCAR Directorate and relies on cross-organization participation to lead efforts for providing user-focused services.
 - Current members represent each NCAR Lab, the NCAR Library, and UCAR Community Programs.
- Support efficient and effective access and discovery to all community-digital assets by a wide range of users.
 - Initial effort is the development and operation of an integrated, web-based system.

DATA STEWARDSHIP ENGINEERING TEAM (DSET)

ABOUT DSET

The NCAR Directorate created the Data Stewardship Engineering Team (DSET) to lead the organization's efforts to provide enhanced, comprehensive digital data discovery and access. This community-driven infrastructure will support a user-focused, integrated system for the discovery and access of digital scientific assets that include datasets and supporting metadata, publications (text, images, audio, video), software applications, and model codes.

The DSET relies on cross-organization participation. The DSET membership is constituted by representatives from each NCAR lab, the NCAR Library, and UCP. A minimum of one representative has been named from each of these units by their director.



GOAL SUMMARY

- Efficient access to digital assets
- Excellent user experience
- Improve coordination across the organization

MORE ABOUT DSET

- [Membership Details](#)
- [Charter](#)
- [Recent Annual Report](#)
- [Feature Story](#)
- [DASH - Digital Asset Services Hub](#)

CONTACTS

Organizing Committee:

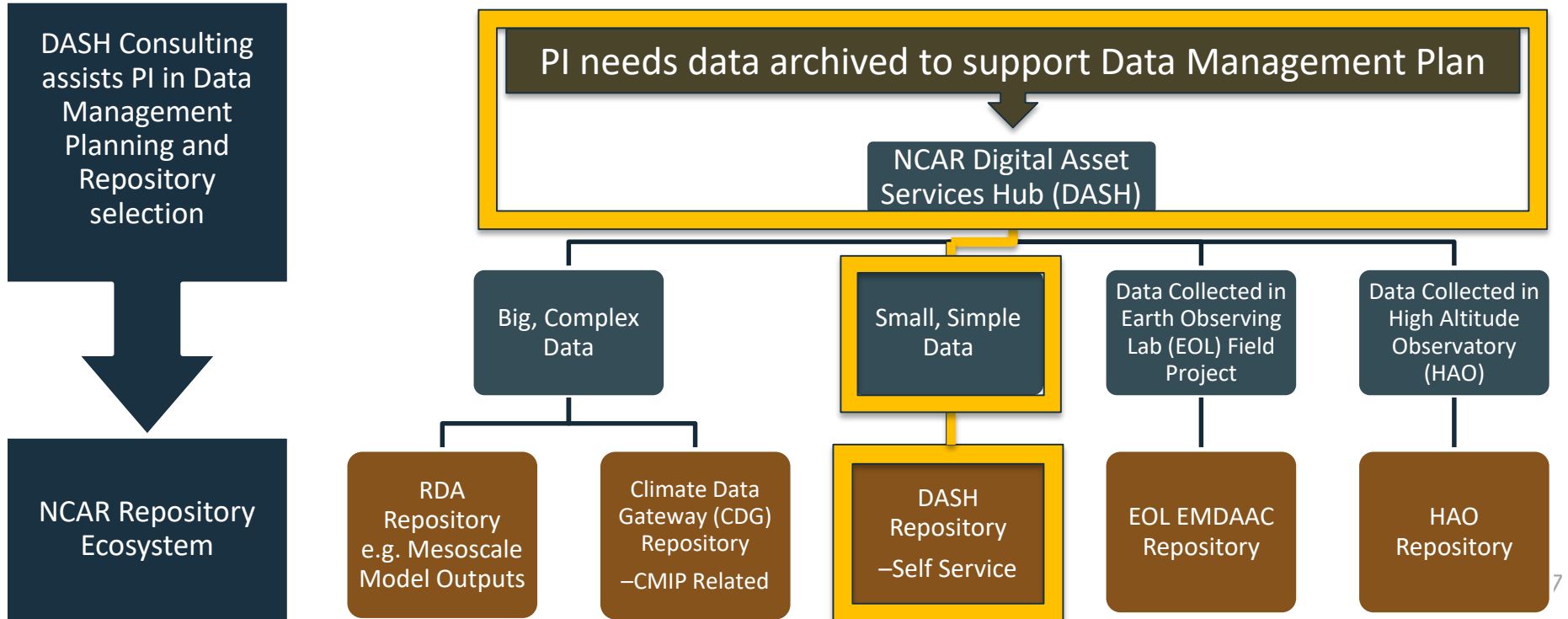
[Matt Mayernik](#), Chair

[Steven Worley](#)

[Eric Nienhouse](#)

Data Management Support for NCAR PIs

- Digital Asset Services Hub (DASH) Repository is a component of a tiered service structure to support NCAR PI data management needs



Outlook for the NCAR DASH Repository

- A general purpose repository “Digital Asset Services Hub (DASH) Repository”.
- Complementary to the services that already being provided by the existing archives/data management group within NCAR.
- Leveraging the skill sets and expertise of the DSET members and the lessons learned from the DSET activities.
- **Meeting community of practice as recognized and established for creating a trusted repository.**

DSET's Current Steps

- Reviewed existing recommendations and certification procedures for establishing a trusted repository:
 - A total of 8 references (please see the Reference section for more information).
- Created a NCAR Repository Development Checklist by combining the different guidelines and criteria outlined by the references.
 - The 6 major sections are: Governance, Collection Scope, Acquisition, Workflows, Lifecycle/Storage, Monitoring
- Developed the policies/documents for each checklist item.
 - Will likely use CoreTrustSeal, but will review the decision after the RDA's experience.

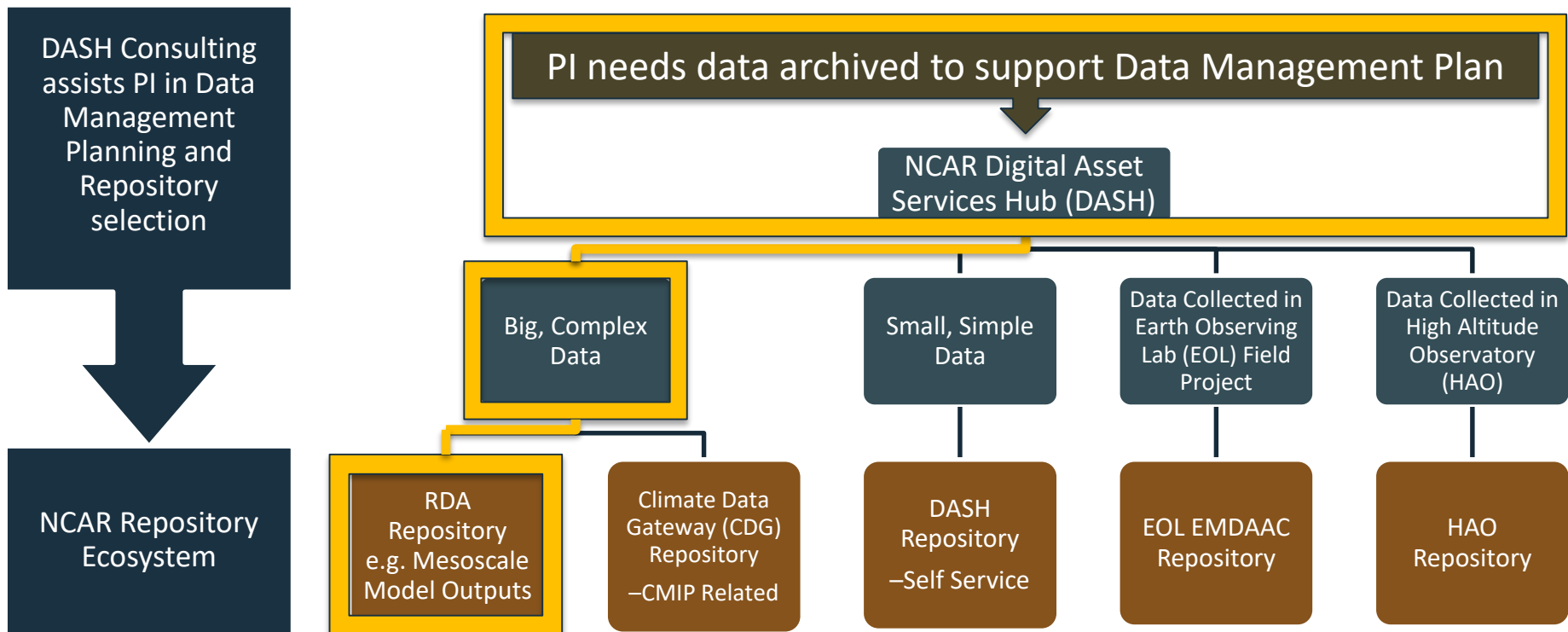
References Used for Understanding the Trusted Repository Process

- 1) Center for Research Libraries and Online Computer Library Center, Inc. (2007). Trustworthy Repositories Audit & Certification: Criteria and Checklist. Retrieved from <https://www.crl.edu/archiving-preservation/digital-archives/metrics-assessing-and-certifying/iso16363>
- 2) Data Preservation Sub-Committee of the USGS Fundamental Science Practices Advisory Committee (FSPAC). (2015). FSPAC Data Preservation Criteria for a Trusted Digital Repository. Retrieved from <https://docs.google.com/spreadsheets/d/1DQ3XDRoe7THmoFwPoV2lcEqn0Q7SkrPQfizxm6fLU/edit#gid=1446608780>
- 3) Data Seal of Approval and ICSU World Data System. (2016). Core Trustworthy Data Repositories Requirements. Retrieved from <https://drive.google.com/file/d/0B4qnUFYMGSc-eDRSTE53bDUwd28/view>
- 4) McGovern, N. Y. (2016). DPM “Stack”: A Management Infrastructure Frame for Digital Preservation that Parallels Technical Infrastructure. Retrieved from <https://www.dataone.org/sites/default/files/sites/all/documents/dws13dec2016.pdf>
- 5) Nestor Certification Working Group. (2013). Explanatory Notes on the Nestor Seal for Trustworthy Digital Archives. Retrieved from <http://d-nb.info/1047613859/34>
- 6) Peng, G. (2015). The scientific data stewardship maturity assessment model template. Version: NCDC-CICS-SMM-0001-Rev.1 v4.0 06/23/2015. doi:<https://doi.org/10.6084/m9.figshare.1211954>
- 7) Rans, J. and Whyte, A. (2017). Using RISE: the Research Infrastructure Self-Evaluation Framework. Retrieved from <http://www.dcc.ac.uk/resources/how-guides/RISE>
- 8) Stall, S. (2016, December). *So You want to Be Trustworthy: A repository's Guide to Taking Reasonable Steps Towards Achieving ISO16363*. Poster presented at the 2016 AGU Fall Meeting, San Francisco, CA.

NCAR Research Data Archive's Current Experience

RDA User Services –Data Management for NCAR PIs

- RDA is a component of a tiered service structure to support NCAR PI data management needs



Thank You!
Questions? Comments?

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