

The Community for Data Integration (CDI): connection and collaboration with the Research Data Alliance

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How can two data organizations use each other's networks and outputs?

The Community for Data Integration (CDI) at the U.S. Geological Survey is a dynamic community of practice of over 700 members. The CDI learns together to develop capabilities that increase the value of scientific data and information. Although more focused in disciplinary scope to geological, hydrological, and biological data, the CDI has many similarities to the Research Data Alliance

This poster highlights potential and existing connections between CDI and RDA after an analysis of all RDA groups and outputs. Potential connections include presentations to share knowledge on common interests and challenges, leveraging outputs and adopting recommendations, collaboration on future projects, and increased dual membership.

(RDA), including overlapping and intersecting topics of interest. Related RDA Working & **Community for Data Related RDA Integration (CDI) Groups Interest Groups Recommendations & Outputs** • 23 Things: Libraries For Research Data **AII CDI** Physical Samples and Collections in the Research Framework for Summer Schools in Data Science and A dynamic community of practice learning Data Ecosystem IG **Cloud Computing** together to develop capabilities that increase the Repository Platforms for Research Data IG value of scientific data and information. Meets Reproducibility IG virtually on a monthly basis to hear about new Research Data Provenance opportunities, tools, and projects. Small Unmanned Aircraft Systems' Data IG Virtual Research Environment IG (VRE-IG) Active Data Management Plans IG An open, universal literature-data cross-linking service **CDI Data Management** Bibliometric Indicators for Data Publishing Data Discovery Paradigms IG **Working Group** Data Foundations and Terminology IG BioSharing Recommendations: data repositories, standards and policies in the life, biomedical and Metadata IG A group to develop mechanisms for environmental sciences RDA/WDS Certification of Digital Repositories IG incorporating data management into USGS RDA/WDS Publishing Data IG Matrix of use cases and functional requirements for science and educate scientists of its value. research data repository platforms Includes the Metadata Reviewers Community of Metadata Standards Directory Practice. Persistent Identifier Type Registry Scalable Dynamic-data Citation Methodology Workflows for Research Data Publishing: Models and **Key Components CDI Semantic Web Summary and Next Steps** Vocabulary Services Interest Group **Working Group** CDI as a whole and the CDI Data Management Working A group exploring semantic web technologies as group have the most potential connections with current possible methods for USGS data and information RDA groups and outputs, although there are strong projects. connections between other CDI-RDA pairs. Some beneficial dual-membership between the organizations **CDI Earth Science Themes** already exists. We focused on near-term connections and Global Water Information IG use of outputs, so some of the newer RDA groups are not **Working Group** listed here. A group to share methods, data, software, and conceptual models within theme-specific The CDI is in the process of reaching out to points of applications. contact in RDA to see if they would like to present their recommendations or other findings to the CDI, or if they have interest in getting in touch with specific USGS **CDI Tech Stack Working Group** groups or data asset representatives. Software Source Code IG A group learning about the "stack" of technology If you are part of an RDA group that you think has that can be used to promote the management and use of data. potential connections with one of the CDI groups listed here, get in touch with us at lhsu@usgs.gov. **CDI Software Development Cluster**

Software Source Code IG

Learn more about the Community for Data

Research Data Alliance Plenary 10, Montreal, September 2017

Integration at bit.ly/usgs-cdi-wiki.

A community for USGS software developers and

release protocols and policies, development best

other interested parties to discuss software

practices, software metadata, and software

libraries, packages, and tools.