

CDI Monthly Meeting 20161214

CDI Monthly Meeting - 20161214

The Community for Data Integration (CDI) meetings are held the 2nd Wednesday of each month from 11:00 a.m. to 12:30 p.m. Eastern Time.

WebEx:

<https://usgs.webex.com/> - Under the Meeting Center tabs, search for meeting name: "Community for Data Integration."

Audio:

USGS/DOI Dial In Number: (703) 648-4848 (for USGS and DOI offices)

Toll Free Dial In Number: (855) 547-8255 (for other offices and telecommute locations)

Conference Code: 47919# (same for both numbers)

Webex Recording

Webex recordings are available to CDI Members approximately 24 hours after the completion of the meeting. Please login to view the recording. If you would like to become a member of CDI, please email cdi@usgs.gov.

Agenda (in Eastern time)

11:00a Scientist's Challenge: **Mobile App Framework for Water and Environmental Field Data Collection**, Ian Ferguson, Bureau of Reclamation

Fill out the questionnaire about your use and wishes for a mobile field data collection app.

11:10a Welcome - Kevin Gallagher - Associate Director for Core Science Systems and Tim Quinn - Office of Enterprise Information Chief [PDF]

11:15a Working Group Reports [PDF]

11:25a **CDI FY15 project: Web-enabled Visualization and Access for Value-Added Disaster Products**, Brenda Jones, USGS

Abstract:

The USGS Hazards Data Distribution System (HDDS) provides a consolidated point-of-entry and distribution system for remotely sensed imagery and other geospatial datasets related to emergency response. When disasters occur, the system provides a critical source of satellite and aerial imagery for the emergency response community, along with many other end users.

This project leveraged the existing HDDS ingest, archive/storage, and delivery systems to support new capabilities for map, vector, and satellite product ingest and display. In some respects, the ingest and management of these information products is similar to the image datasets that are routinely being ingested and delivered through HDDS. However, there are some unique aspects that require different approaches to the existing ingest, process, and user display systems in order to support geographical search and visualization within the HDDS interface.

Bio: **Brenda Jones** is currently the U.S. Geological Survey (USGS) geospatial/remote sensing liaison for emergency operations. She is actively involved with end-users and value added providers during emergency response efforts on a global basis, providing leadership to the remote sensing component of the disaster response community by effectively capturing the data requirements of these entities and assisting in the planning, implementation and evaluation of technologies to improve the discovery, access and dissemination of digital imagery and other geospatial data in support of domestic and international disasters.

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Ms. Jones work directly influences the kind of remote sensing data and ancillary geospatial information that is acquired and the speed with which it is provided to end-users to reduce the loss of life and property. She leads the Remote Sensing Working Group (RSWG), which is a communications forum for remote sensing providers and users during a disaster response. The RSWG telecons have been hosted for events such as the Haiti Earthquake, the Deepwater Horizon Oil Spill, the Pakistan floods, and Hurricane Katrina and provide insights to the needs of the users and the successes and shortcomings of current systems. Ms. Jones has authored several papers and 2 book chapters on using remote sensing data for emergency response. She currently serves as the USGS Executive Secretariat member for the International Charter Space and Major Disasters, and the Data Coordination Team lead for the Group on Earth Observation (GEO) Supersites and the Committee on Earth Observation Satellites (CEOS) Working Group on Disasters pilots.

**Please see the recording posted above for Brenda's demo of the added functionality in the Hazards Data Distribution System (HDDS) Explorer.

Questions and Answers

Viv Hutchison: Do the browse points have date ranges in them?

Brenda Jones: Each product has associated metadata. Product owners have to supply the metadata in order to add to system. The metadata contains dates.

Sophia Liu: I'm interested in learning more about design process. Did you perform any usability testing?

Brenda: There wasn't a formal process for soliciting user feedback. Often when people are done responding to event, they move on and it's difficult for them to go back and for us to get feedback from them. We do receive informal feedback through emails and conversations, but no formal feedback.

Sophia: Was there certain feedback that inspired the project?

Brenda: It started after Hurricane Katrina. We had user telecons trying to get a better understanding of their requirements. As new sensors and satellite become available, try to keep up with them, but don't have the funding to keep up 100%. That's why these CDI proposals are so useful. We've gotten feedback that the added functionality is valuable, but feedback mostly came from a mapping group - members that produce products and use data. It was a well-rounded group of people. That's where many of the design requirements came from.

11:45a **Preserving the USGS Legacy: Inventorying and Publishing Data at Risk**, Lance Everette, USGS, and John Faundeen, USGS

Presentation: Slides are available to CDI Members. Please login to download the slides. If you would like to become a member of CDI, please email cdi@usgs.gov.

Abstract:

As one of the largest and oldest science organizations in the world, USGS has produced volumes of historical science data that has been invaluable to science and industry. However, there is no complete inventory of this historical, legacy data and in cases where legacy data is known to exist those data are rarely accessible to the public and often at risk of damage or complete loss. Recognizing the value of preserving legacy data gathered in the past to apply to new scientific investigations, USGS has a history of investigating inventory and preservation methods for its legacy data, including the USGS Data Rescue Program (2006--2013) and the "CDI Data Mine" and "Data at Risk" projects (2014 and 2016). This presentation provides an overview of those projects and how the lessons and tools they developed are being applied today.

Bio: **Lance Everette** is part of the USGS Fort Collins Science Center's (FORT) Information Science Branch has been managing and developing solutions for USGS data and information for over 20 years designing data management and reporting applications for USGS, Fish and Wildlife, Bureau of Land Management, and National Parks Service. Currently, Lance is the technical lead for the CDI-funded Legacy Data Inventory and Reporting System and is the co-investigator with John Faundeen (EROS Data Center) of the 2016 "Data at Risk" project.

Questions and Answers

Lance Everette: Legacy data inventory reporting system (LDIRS) is available at <https://www.fort.usgs.gov/ldi/>. Users can view legacy products and preservation tools, evaluations and reports.

Viv Hutchison: Are there plans/strategy for next steps once information is in the database? E.g. train the trainers on actions to take once info is in the database.

Lance: Yes, this is part of our plans for FY17. We would like to train people at 3-5 other Science Centers to do inventories. These trainings would cover how to use the tool and an overview of things we learned from other projects. This isn't something that can be done piecemeal, though. We have learned that this task will really require assistance from all groups across the survey.

Sophia Liu: For projects where there is a clear way to digitize some of the datasets, where do you see value in 1.) Leveraging any of the resources that NARA has in trying to preserve the data and 2.) Engaging with the STEP program. Is there any value in trying to scale up some of these efforts using crowdsourcing?

Lance: NARA does have some resources, including crowdsourcing. We haven't gone farther than just talking about it with our contact at NARA. We are definitely interested in learning more. The only way to achieve success in the short term is through crowdsourcing. We just don't have enough people with enough time to do these only with USGS staff.

Sophia: Crowdsourcing can provide the basis for automation.

Lance: I agree that crowdsourcing should inform automation, but human involvement doesn't end there. We still need humans to review. Once you have that expertise, then you can double check the machine.

Sophia: I have a meeting at NARA tomorrow and I can ask about ways that we can collaborate.

Lance: That would be great.

12:30p Adjourn

Attendees

A WebEx Participant Report is available to CDI Members. Please login to download the report. If you would like to become a member of CDI, please email cdi@usgs.gov.