

# CDI Monthly Meeting 20170111

## CDI Monthly Meeting - 20170111

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](mailto:cdi@usgs.gov).

## Agenda (in Eastern time)

11:00a [Scientist's Challenge 170111: Open the subsurface to the public: visualizing subsurface data in a virtual globe](#), Geoff Phelps, USGS

### Q&A:

Ellen Montgomery: in Google Earth, can clamp points to sqler.

Geoff: doesn't go subsurface

Ellen: it looks like it could have that capability

Rich Signell: looked into this for groundwater modeling. Some work done with cesium by Australians. Open source project. Has been used for some groundwater applications. Posted some links to one-minute video to show functionality (in forum).

Dave Govoni: The British Geological Survey has done some work on developing subsurface models, good work to make more accessible.

Geoff: That work is still proprietary, similar to earthvision, need some expertise to dive into, had to build surfaces in the software.

Note from Michelle: there are links from Rich Signell posted in the chat (Cesium groundwater examples), they are in the forum: <https://my.usgs.gov/confluence/pages/viewpage.action?pageId=559854571>

11:10a Welcome - Cheryl Morris, Director of Core Science Analytics, Synthesis, & Libraries [\[PDF\]](#)

11:15a **Working Group Announcements** [\[PDF\]](#)

11:25a **FY15 CDI Project: ScienceCache- a framework for citizen science data collection**, Tabitha Graves, USGS, Dell Long, USGS, and Tim Kern, 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](mailto:cdi@usgs.gov).

***Abstract:** Citizen science is a growing approach for data collection in cases where studies require spatially extensive and intensive datasets. USGS scientists have a need for a framework to easily access this approach. Mobile apps are a tool increasingly used for citizen science data collection and outreach that can especially target youth and a very large geo-caching community. One specific need is a project on huckleberry phenology with goals of creating predictive support maps to improve management of this keystone species in response to predicted increases in human pressure, drought, changes in precipitation, and wildfire. The ScienceCache project consists of web and mobile components, using a hybrid framework that lets scientists and citizen groups work in areas without cellular service. The scientist develops routes on the web app, complete with target 'geocache' locations, questions to be answered, photos to be taken, and instructions/photos to assist with training. The route information is fed to the app. The geocacher downloads the routes of interest and is guided to a geocache site along the route. As they approach the site the user answers questions and takes photos before going to the next site. We will discuss the scientific needs, the technical approach, the current status of the project, and spin-off projects.*

11:45a **USGS Mapping Innovation Series Report**, Mike Tischler, 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](mailto:cdi@usgs.gov).

**Abstract:** *The Mapping Innovation Series was held over the course of 3 weeks during the summer of 2016 and comprised several mapping and geospatial community events. The Series focused on hosting 15 facilitated workshops across the USGS, one of which was held by the CDI. The broad goal of the Mapping Innovation Series, and the individual Mapping Innovation Workshops, was to identify challenges and opportunities in mapping across USGS by discussing needed innovations in response to current issues or other barriers limiting advancement of a program or objective. In general, the Series hoped to identify challenges in creating an environment where innovation can flourish. Dr. Tischler will present a short summary of the Series, and discuss the challenges, opportunities, and recommendations developed upon feedback from the participants.*

Notes:

2016 USGS Mapping Innovation Series

Taking time to define the problem, rather than focusing on solving the problem

500 participants in 15 workshops

Identified challenges: Transition to web-based mapping, spatial analysis and computation, knowledge sharing

Opportunities: understand and model existing sources, refine and simplify geospatial products to focus on intended audience, creative venues and platforms for coordination, sharing and learning, scalable, flexible computing architecture to leverage big earth data

Recommendations: support creation of geospatial community of practice, identify and support a single position to represent USGS geospatial requirements, revive USGS GIS conference, lead task force to accelerate and promote bureau-wide access and use of advanced computing facilities, implement a federated, enterprise, geospatial discovery and search capability, create committee to engage private sector to increase communication and technology transfer

Question: Will report be made available?

The report is currently in draft form, expect that it will be distributed widely after it's finalized.

12:05p **Boundless Open GIS platform**, Monty Kickert, Director of the US Federal Civilian Programs at Boundless and Steve Stout, Senior Solutions Engineer at Boundless

**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](mailto:cdi@usgs.gov).

Notes: Thank you from Sophia Liu - looking forward to working with Boundless to develop and organize some mapathon/hackathon next month. If anyone has suggestions, feel free to email Sophia at [sophialiu@usgs.gov](mailto:sophialiu@usgs.gov).

12:30p Adjourn

## Presentation Q/A

## 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](mailto:cdi@usgs.gov).