



FY17 CDI Request for Proposals

Kevin T. Gallagher, Associate Director, Core Science Systems
Tim Quinn, Chief, Office of Enterprise Information
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CDI RFP Guiding Principles

- Focus on targeted efforts that yield near-term benefits to Earth and biological science
- Leverage existing capabilities and data
- Implement and demonstrate innovative solutions (e.g. methodologies, tools, or integration concepts) that could be used or replicated by others at scales from project to enterprise
- Preserve, expose, and improve access to Earth and biological science data, models, and other outputs
- Develop, organize, and share knowledge and best practices in data integration
- Projects should have impact beyond a single Science Center, Program, Region, or Mission Area

Two Phase Process

Phase 1) Statement of Interest (SOIs)

- Two page high level overview
- Ranked by CDI Community Member voting process

Phase 2) Invited Full Proposal

- Subset of SOIs will be invited to submit full proposals
- Ranked by formal Review Panel

Key Dates

September 14	RFP Announcement
September 29 @ 4 pm ET	RFP Information Session
October 14 @ 5 pm ET	Statements of Interest (SOI) Due
November 9 @ 11 am ET	SOI Voting – Closing Session
November 28	Invite Full Proposal Submissions
Jan. 20, 2017 @ 5 pm ET	Full Proposals Due
Jan. – Feb. 2017	Full Proposal Review Panel
March 8, 2017	Awarded Projects Announced

Details

RFP Guidance Document:

<https://www2.usgs.gov/cdi/participate.html>

Email questions to cdi@usgs.gov

ORCiD Announcement!

- CDI is helping to spread the word to get your ORCiD (Open Researcher and Contributor ID) by October 1.
- Fast: check out the [CDI Forum post](#), share your ORCiD (bitly.com/usgscdiforum)
- Faster: go to orcid.org and register by filling out a form



CDI in FY17

- Warm up, What is CDI to you?
- Working Group activities
- Trainings
- Hands-On Sessions
- Bonus Round

To reach the feedback forms, please visit

<https://my.usgs.gov/confluence/display/cdi/CDI+Monthly+Meeting+20160914>

We did not present the slides following this slide.

Scientist's Challenge

Trying to solve a challenging problem and wondering if another group is working on the same issue?



Image courtesy Sira Ananwong at FreeDigitalPhotos.net

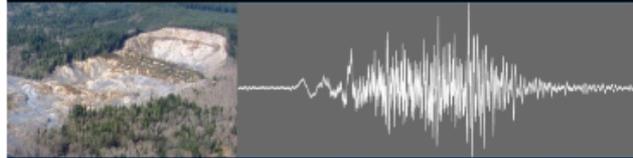
The CDI community of practice has a powerful collective body of knowledge that could be tapped to form connections and collaborations.

We'll have Scientist's Challenge "lightning talks" (5 minutes) to kick off Monthly Meetings and post slides on the CDI community forum to stimulate discussion and generate community connections.

How it works: <https://goo.gl/pkxFvP>

Scientist's Challenge Update - Seismogenic Landslide Database

A Seismogenic Landslide Database: seeking the best way to make a diverse database accessible to others



Kate Allstadt – kallstadt@usgs.gov
Brennah McVey – bmcvey@usgs.gov

USGS Geologic Hazards Science Center, Golden
Landslide and Earthquake Hazards Programs

Why do we want a seismogenic landslide database?



- Formal earthquake catalogs have helped revolutionize earthquake science
- Surface processes like landslides, debris flows, floods also produce seismic waves that are recorded on existing seismic networks
- Seismic data can be used for detection, early warning, improving understanding of event timelines, dynamics, make measurements and more
- Without a catalog linking seismic data with diverse complementary data (volume, runout distance, drop height, imagery), progress in this new field is piecemeal

What kind of data do we have?

Photos
Seismic data (Most is archived at IRIS, but some from private networks, older stations is not)

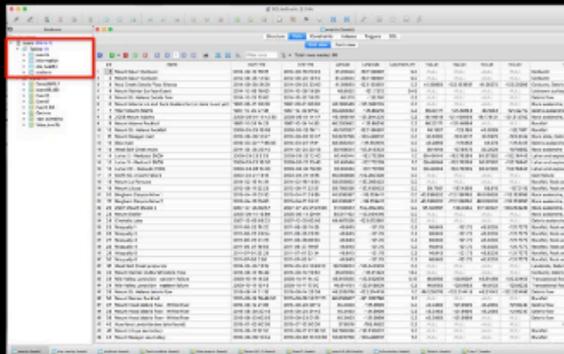
Imagery
Informal information: eyewitness accounts, emails, blogs, seismic network logs

GIS files
References

Landslide measurements (When not from published sources)

Current structure

- SQLite3 database >74,000 data entries in four tables



Current structure

- SQLite3 database
- 4 tables: events, information, sta_nearby, stations
- Folders with data that currently have no formal place in the existing database
 - Seismic data that is not archived at IRIS
 - Photos
 - GIS files
 - Imagery
 - Emails and informal documents about the event

What we want (by October)

- All miscellaneous data incorporated formally into database somehow (**do we need to switch to a different type of database?**)
- A database that can be browsed online (**interactively?**) to accompany a formal publication (**we need help on this point!**)
- A database that can be updated with new events as they happen

Ideas? Recommendations?

Scientist's Challenge Update - Seismogenic Landslide Database

- Through the challenge, Kate got in touch with some developers in her hallway!
- Those developers created the USGS earthquake catalog, and proposed adapting the infrastructure, with different metadata
- This would be more general purpose than just the seismogenic landslide catalog.
- Plan a universal metadata format for this project, like QuakeML so that other agencies and scientists could contribute.
- Chances are good, but need to wait for developer time.
- Using the OFR from the CDI DRIP project to learn about leveraging ScienceBase and other technical details for an interactive database display.

Mapping Innovation Challenges

- **formatting and publishing data** in a way that allows easy access/efficient programming
- near real-time GIS service despite **data size, system architecture, varying formats**
- using unconventional methods for browser-based visualization because of **the large size of geospatial data**
- **finding seasoned Javascript programmers** willing to work on programming challenges
- controlling the **quality** of photographic data and identifying a **long term solution to file storage**
- **Where can maps be hosted?** GitHub, Bitbucket?