The Future of the SCEC Community Information System

♣ PRESENTER: **Edric Pauk**

OBJECTIVE

Our goal is to adapt the SCEC Community Information System (CIS) to meet the evolving needs of the SCEC community, providing better insights and improved access to data and software to support advances in earthquake science.

FUTURE FOCUS AREAS

1. usage/impact metrics for software

Research software developers, sponsors, and other decision makers want to determine who uses software, what problems are solved, and the broad impact of the resulting work. More awareness increases the user base and thus expands impact and brings collaborators to the project, improving its longevity.

2. persistent dataset storage & DOIs

Datasets that are potentially useful to one or more audiences will be curated, stored with well-defined schemas, and have robust metadata. Data tagged with permanent identifiers also require long-term storage to ensure their continued availability.

3. enhanced data access tools

Data access tools allow datasets to be intelligently searched, visualized, and useful data subsets extracted. Datasets that have a large user base and are difficult to access are prime candidates for new data access tools. The form of the tool (website, command line tool, API, etc.) depends upon the needs of the target audience.

CHALLENGES

- 1. **limited tracking data** from third-parties like GitHub, determining the **best impact metrics**, and the need for better **documentation**, **training**, and **user interfaces**.
- 2. **identifying datasets** that are ready for dissemination and locating **long-term storage** that is both persistent and cost effective.
- 3. varied data formats, and identifying datasets that would most benefit from new tooling.



Help SCEC measure the impact of our research software, identify datasets, and develop data access tools for high-impact data delivery.



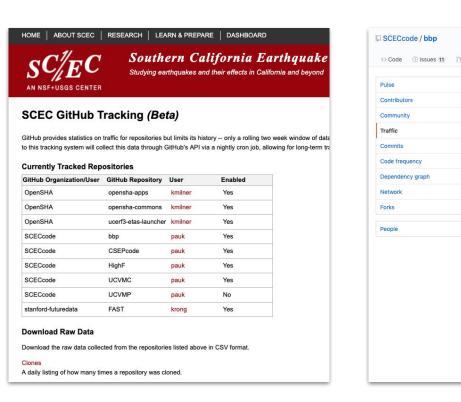
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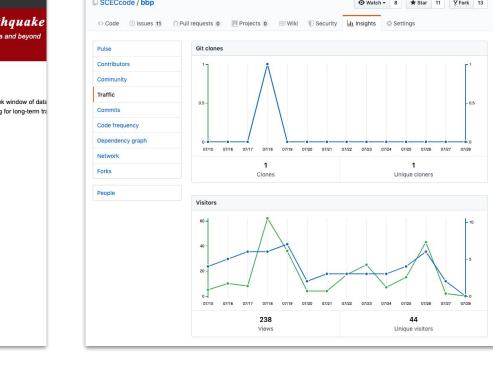
survey online!

our short

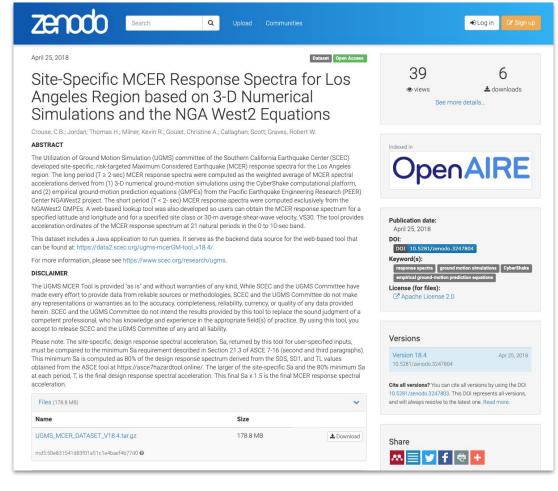
Answer 3 questions!

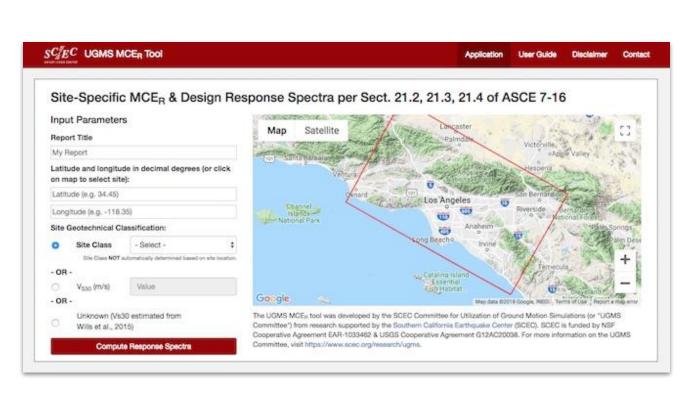
- 1) What metrics are important to measure the impact of research software?
- 2) How do you currently store datasets and ensure they contain robust metadata?
- 3) What datasets do you need access to right now that are unavailable or too cumbersome to obtain?

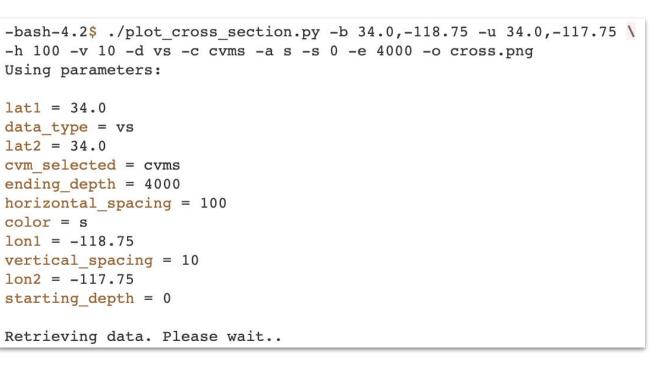


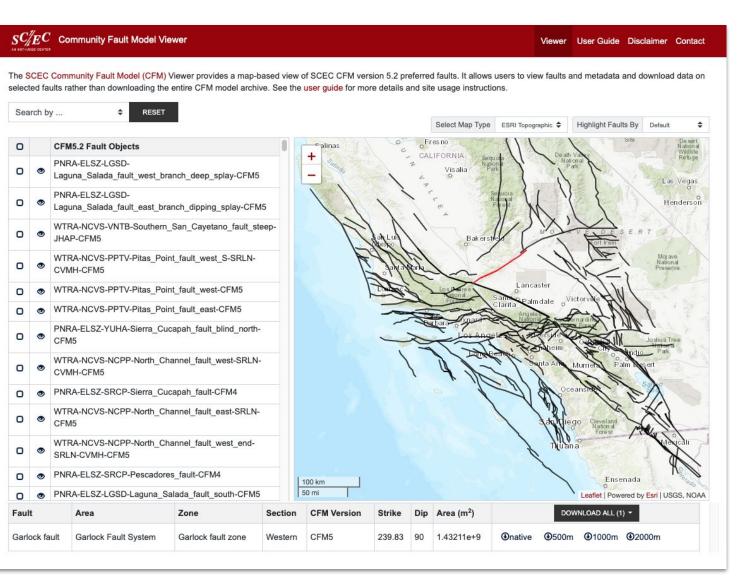


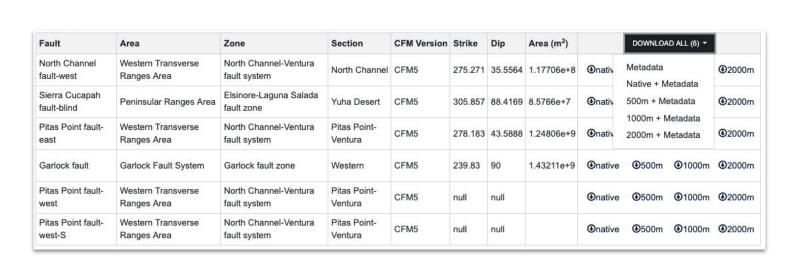


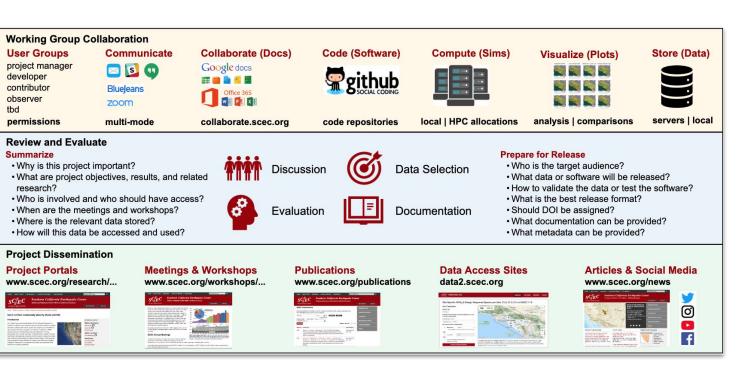


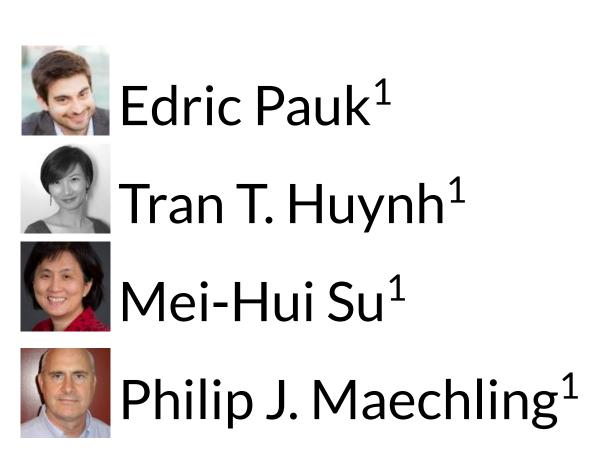












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