

## February 15, 2023 Joint Methods & CI Working Group Call

Attendees: Quinn Thomas, Jake Zwart, Jon Borrelli, Mike Dietze, Jody Peters, Jessica Burnett, Hassan Moustahfid, Ben Toh

Agenda/Notes:

1. Opportunities to include USGS sites in the NEON Challenge.
  - a. Jake and Quinn will work on next steps for adding sites
  - b. Keep it as one theme and make the description indicate that the data is coming from multiple sites/organizations
  - c. Bigger goal is to develop the platform that can make it easy to add sites/partners
  - d. Keep
  
2. Updates and Next Steps
  - a. CI Workshop Proposal - Google doc to collectively develop ideas
    - i. To do today:
      1. Help identify potential funding sources
      2. Set up a timeline
      3. Identify people to contact
    - ii. NASA has TWSC applications for funding with rolling deadline. It will change on May 12. So perhaps a deadline of May 11 will be good
    - iii. NSF workshop proposal is rolling. But has similar FY issues.
    - iv. Has NSF support for travel support for non-gov't. NSF is okay with funding agency scientists for a research purpose not the agency's internal agenda.
    - v. Content - getting a bunch of people talking or having them working on computers?
      1. Thinking this will be more of a talking meeting
      2. Design principles white paper
        - a. Could be a plan for what software to develop which could be built on the design principles
      3. Agreement on the level of design that would allow to build interoperable tools
        - a. Have standards that would allow us to do post hoc analyses, but don't have any other agreement on interoperable options for the other parts of the workflow
      4. Should we think about R&D being transitioned to operation?
        - a. May not have the bandwidth. But with CI think we have to think about operations. What is the requirement for NSF when you create the forecasts what is the CI requirements for long term support?

- i. Would need to think about this from the NSF side of things for the proposal, how we are advancing the science
    - b. From the Agency side need to talk about how to move from R&D to operations.
    - c. Goal of an outcome would be to move some things into an operational stage. That is why we are inviting multiple agencies since the lack of shared infrastructure within and across agencies has been identified as a constraint for collaborations across agencies to move forecasting forward
    - d. Reducing the cost of development and maintenance is an argument for the shared CI. You are spreading the cost across multiple groups
    - e. USGS doesn't have good guidelines on what should be operational
      - i. Having a roadmap/decision tree for operations
  - b. Brainstorm educational activities that could be developed/promoted by this group
    - i. Short term ideas for Unconference
      - 1. Could be useful to populate ideas for the Unconference for participants to view: <https://github.com/eco4cast/unconf-2023>
      - 2. The group spent time brainstorming ideas for the Conference
      - 3. This group can provide comments/suggestions to the ideas that get posted
      - 4. And for the projects that don't get picked up for the Unconference we will still have the ideas that this group/others can come back to
        - a. Jody to schedule in time for future calls to review and decide if there are things that people want to work no
    - ii. Long term ideas for educational opportunities related to CI/methods for the broader EFI community
    - iii. Stats seminar-like presentations or how to use the Stats webinars to bring people into EFI activities
    - iv. Reading group
- 3. Other Resources/Previous Project Ideas
  - a. Data Ingest, Cleaning, and Management Task View
  - b. Discuss papers that cover existing cyberinfrastructure or stats methods
  - c. Organize, present, or view presentations about topics in cyberinfrastructure or a stats method