

## January 13, 2022 Joint Methods & CI Working Group Call

Methods/CI December 7, 2021 Notes [HERE](#)

Attendees: Libby Mohr, Jake Zwart, Kelly Heilman, Hassan Moustahfid

Regrets: Leah Johnson

Agenda/Notes:

1. [Visualization/Decision Support Tools, User Interface](#) Task View Updates and Next Steps
  - a. Updates
    - i. Intro text from Hassan was moved to the top. Keep working on editing and think about including figures. Ask for permission if we use the figures.
  - b. Check in about
    - i. David's WebGIS question for Table 1
      1. Need to come back to this and check in with someone who knows more about WebGIS compared to the people who were on the Jan call
  - c. How we deal with specific types of data Section Discussion
    - i. Would expect to see something like categorical, gridded, time series
    - ii. Think these categories may fall under data management section
  - d. Move Uncertainty visualization to be under "How We Make Visuals" section
  - e. Get rid of how we deal with specific types of data section. Then put the note on the dealing with big data "We aren't going to discuss big data in this Task View, but look for it in the Data Management Task View"
  - f. Linking Viz to Science and Policy - this was a section header at one point. But it seems to be part of Hassan's text that is now in the Introduction, so don't think we need a section for that
    - i. Need to have a discussion about why to have visualizations - to make decisions.
    - ii. Sections 9 and 11 can be combined - 9 is what are the interfaces and Dashboard. 11 is connecting to dashboards
    - iii. A user may say "okay great there are dashboards, but how do I use them?"
    - iv. Move section 10 up to Best Practices
    - v. Combine Section 9 and 11 to be Dashboard
    - vi. Chicken and egg issue - do you talk about dashboards before you talk about best practices? Or start with best practices at the beginning of the Task View?
      1. Support from the section 10 up to Best practices
    - vii. Linking to Policy. Can link to management through decision support. Translating into policy is out of the scope of what this group does.

1. Can conclude with it at the end to linking to policy. Decided not to do this. Instead point to the ability of being able to use
  - viii. Point to the use of policy and management in the overall Intro and then come back to it in the Dashboard section intro and reiterate that the dashboards are used for management
  - ix. To Do: Remove the Linking to Policy Heading and Replace with Dashboard Heading
  - g. Libby and Cee's examples of animated visualizations examples update
    - i. Decided to focus on making hypothetical outcome plot (HOPs) - visualization uncertainty using. Cee didn't have time to create this before this call.
      1. Would be interested in seeing code for the HOPs if there are any
      2. If not too time consuming would be nice to include an example from the forecasting challenge
    - ii. Is the purpose of the examples to show what the type of plot looks like or to have code to make the plots?
    - iii. Libby added some examples for a few of the use cases - timeseries and movement
  - h. Do Libby and Kelly need any input or how do they feel about their sections?
    - i. A couple of plot types need some text that Libby will work on
    - ii. Kelly - feedback on file types and projection. Too much or too little? Is it covered someplace else that we can link to?
      1. The points about projections and coordinate systems is really useful, this is often a difficult topic as people are getting started
    - iii. Add some info/links to netcdf as well
  - i. Next steps and thinking about timeline
    - i. We have spent quite a bit of time working on this and it would be good to get it out in the next couple of months. We have a lot of content and it seems like the main thing needed now is to refine and finish the last few remaining things that need to be added.
    - ii. In the recap from the call, ask people to go through their sections and resolve comments
    - iii. Jody will help clean up and resolve comments as well before the next call
2. Uncertainty Quantification & Propagation, Modeling & Stats and Workflow Task Views to use as Reference: <https://projects.ecoforecast.org/taskviews/>
  3. Jody is leaving in as a placeholder. This would be good to discuss when Mike is able to join the call. Any more gaps people thought of in response to Mike's prompt for the November call?
    - a. Mike's prompt: Discuss next steps beyond the current task views (2 done, 1 in progress, 1 on deck). In particular, I think we've completed enough of the task

views that we could have some useful discussions about identifying gaps and bottlenecks in current methods and tools and ways we might think about moving forward on identifying and addressing those (e.g. surveys, workshops, hackathons, group projects, virtual panels / webinars, etc). This is also motivated by some recent interagency (NOAA, NASA, CDC) roundtables that EFI has been sponsoring where standards and community CI are emerging as priority items for the federal agencies (caveat, that doesn't mean there's any funds). It is also relevant to the next round of the [EFI NEON challenge](#) and the upcoming [EFI2022 "all-hands" conference](#)

4. [Data Ingest, Cleaning, Management](#)
  - a. Placeholder until we are further along with the other Task Views or have an identified leader for this
5. [NEON Ecological Forecast Challenge](#) CI Update