September 15, 2025 Joint Methods & CI Working Group Call

Attendees: Brittany Barker, Josie Hughes, Jody Peters
Regrets: David Durden

1. Top 10 FAIR Data Things for AI: https://zenodo.org/records/16738062
    a. Created by Skills4EOSC - Skills for the European Open Science Commons
        i. Globally Unique Persistent Identifiers should be assigned to ML/AI models and included in their metadata.
        ii. ML/AI models should be described with rich metadata.
        iii. ML/AI models and their metadata should be retrievable through persistent identifiers using a standardised communications protocol that is open, free, and universally implementable
        iv. The ML/AI model's metadata should report evaluation results, e.g. accuracy, precision, recall, train vs. test error, etc.
        v. ML/AI model metadata should document any prerequisites on the input data format and structure, including any
        vi. required pre-processing, and output data format.
        vii. ML/AI model metadata should use a documented, accessible, and ideally broadly used format.
        viii. ML/AI model metadata should include qualified references to any related/required research objects, including code
        ix. libraries, environments, code dependencies, etc
        x. ML/AI models should have clear and accessible licenses attached to them.
        xi. Any ethical considerations/analyses during model development should be reported.
        xii. Clear instructions on how to deploy the ML/AI model should be provided

2. Spatial Forecast Workshop for the EFI2025 Conference next steps
    a. How did it go to do the final updates?
        i. LAI scaling factor and the move to Google Earth, and using the native resolution instead of upscaling go?
    b. Workshop tutorial material is at: https://github.com/eco4cast/modis-lai-forecast/tree/main/tutorials
    c. The rendered html is at: https://htmlpreview.github.io/?https://github.com/eco4cast/modis-lai-forecast/blob/main/tutorials/efi_2025_workshop.html
    d. Tutorial components
        i. CI:
            1. Creating buckets, path naming decisions, and permissions.

        2. Pulling from buckets, auto-scoring forecasts coming into the buckets, and data storage.
        3. Necessary steps from 1 and 2 to create a new spatial forecasting competition for another topic.
    ii. Data Acquisition:
        1. Pulling fire data, pulling MODIS LAI data, pulling other driver data.
    iii. Model Building:
        1. Types of spatial models (overview of how one can build models in different ways for spatial data).
        2. No-spatial interaction models
        3. Spatial interaction models

3. Results from the survey to gauge interest in Stats/CI activities to guide future working group calls.
    a. Survey: https://forms.gle/c6q837dDyyp2Mpi7A
    b. Topics mentioned on the last call
    c. CI as a service - containerized workflows for forecasting. Lots of expertise in EFI. Would there be interest in partnering? Expect there are privately funded entities interested in backing CI to service
    d. AI-ready infrastructure hasn't been discussed on the calls, but is a topic of interest to the group
    e. Connecting with Agencies and managers - what are the urgent needs. Connecting with managers to hear needs to tailor forecast challenges to be used
    f. Learning more about stats methods, spatial modeling, and building resources
    g. Incorporating qualitative and quantitative input into modeling
    h. Session for spatial forecasting at the EFI2026 Conference - brainstorming people who could attend. Suggestions for topics people are grappling with.
        i. 5-6 speakers and panel discussion
            1. Nov 17
    i. Brittany's presentation on parallel processing demo in R