



Virtual workshop on requirements for a fast and scalable evaluation workflow

**Parallel breakout groups
Workflow and performance**

***18-19 May 2021
Barcelona***

- Workflows

- Do users feel the need for workflow management tools in their analysis work?
 - Depends on the user.
 - Allow for a more autonomous users, but at the “cost” of extensive training
- Which is the preferred approach: integrated in the tools (i.e ESMValTool recipes), dedicated tools (i.e. Cylc, ecFlow) or hybrid?
 - For tools like ESMValTool, we are more or least at the amount we want
- There is a need of a “good and efficient” GUI on top of these tools or simplify files as input
 - Shiny app is a way of creating simple GUI
 - Jupyter Notebook
- Flexibility regarding to output folders
- We need research engineers in addition to tools to establish powerful tools
- We need to be aware on the kind of users we have



- Performance
 - How to evaluate performance?
 - Performance is not evaluated. Major bottlenecks are memory consumption.
 - Users are usually more interested in next feature rather improving the existing ones.
 - Which tools?
 - Integrating more efficient internal tools (Iris, Dask, ...)
 - Is not always easy to allocate resources to improve the performance of the tool
 - Performance of the storage (see Ag talk) is really critical
 - Is there a protocol or benchmark?
- Testing
- Deployment vs. Performance (containers?)



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