

NICEST2

Steering Group meeting

April 11, 2023

Project status

- **WP2: ESMValTool**

- Development of ESMValTool recipes is on track and will be completed on time;
- Training in preparation but mostly focused on using ESMValTool on Norwegian facilities
 - Difficult to generalize as there is no common infrastructure within the Nordic;
 - Need to work more within EOSC to overcome this issue but dependent on compute & storage available to each “country”;

- **WP3: FAIR climate data, software and workflows**

- Re-organisation of SNIC had a strong impact on FAIR activities towards the end of the project;
- ESGF activities were not impacted:
 - Videos in preparation and to be published in the NordicESMHub youtube channel;

- **WP4: ESM workflows**

- Re-organization at UiO impacted this WP;
- Refactoring of BLOOM (NorESM ocean component) improved performance;
- Increased collaboration with EOSC for cloud deployments of Pangeo (ML/notebook)
- Global strategy for Nordic ESMs to be adjusted in the framework of DestinE.

Benefit realization

Align expectations & project results:

- **Increased visibility**

- Participate to FAIR & Pangeo/cloud infrastructure activities within EOSC
- Lead/contribute to international communities (ESMValTool, Pangeo, Galaxy Climate, DestinE, etc.)
- Publications:
 - Invited to submit an article for the Software Engineering Department in the *Computing in Science & Engineering* magazine, published by IEEE
 - Papers in preparation with ESMValTool recipes developed within NICEST 2

- **Expert group on Earth System Modelling diagnostics**

- Training material on how to use ESMValTool on Nordic premises
- New recipes developed within NICEST 2 e.g. expertise acquired on how to develop new ESMValTool recipes.

- **FAIR for climate software and data**

- Join NeIC FAIR data Forum
- Get involved in FAIR activities organized by other EOSC projects
- Next EU call HORIZON-INFRA-2024-EOSC-01-01

Revision of the project plan

- **D3.5: Data Management Plan Template, including best practices for FAIR Nordic Climate Data**
 - Too early to provide “best practices”
 - Suggest to deliver DMP template as “current best practices”.
- **D4.3: Online training material on best practices for the deployment of ESM workflows (package management, writing efficient workflows to optimize computing and storage resources)**
 - Too early to provide training on “best practices”.
 - Suggest to provide a summary of the achievements with link to training material for learning about workflow management systems for ESM workflows.

Beyond NICEST2

- **7 month result-transfers period**
 - Transfer of results to all partners, including supporting partners
 - Preparation EU call HORIZON-INFRA-2024-EOSC-01-01: FAIR and open data sharing in support of the mission adaptation to climate change.
- **Expert group on ESFG**
 - How to animate and sustain this expert group?
- **Expert group on Earth System Modelling diagnostics**
 - How to animate and sustain this expert group?
 - What would be the long-term goal? Join and contribute to the international ESMValTool community?