



Session

WP5/NA4 Data and model evaluation

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WP Partners names

DKRZ, CNRS-IPSL, STFC, UREAD, CMCC, KNMI, CERFACS, BSC, LIU, NLESC, SMHI, DLR
67 pm effort



WP Objectives

▪ Main Objectives

WP5/NA4 aims at identifying and when possible defining connections around the data, metadata and “data centric compute” activities in Europe and worldwide.

▪ Specific Objectives

- Organise the governance and the networking of ES-DOC.
- Build upon existing activities and requirements to inform strategic decision in WP2/NA1.
- The European agenda is taken into account in the ESGF roadmap.
- Defining requirements and establishing the roadmap for the IS-ENES compute service.
- Technical Standards and architecture for « plugable » diagnostic tools



WP Tasks

- **Task1: Project management of ES-DOC**
- CNRS-IPSL (8 PM, lead), URead (4 PM)
 - Coordination of ES-DOC, and governance with the WIP and other community stakeholders.
 - Ensure proper resources are pulled together, beyond IS-ENES3

- **Task 2: Defining an Architecture for Future of Data Services**
- DKRZ (2 PM), CNRS-IPSL (2 PM, lead), STFC (1 PM), CMCC (1 PM), KNMI (2 PM), CERFACS (2 PM), BSC (1 PM), SMHI (1 PM)
 - Which services do we reuse from EOSC, EGI ,EUDAT, EOSC, Scholix ...
 - Which services do we contribute to EOSC, EGI ,EUDAT, EOSC, Scholix ...
 - Coordinate with other RIs based on ENVRI+ experiences (DKRZ and CNRS-IPSL)
 - Evaluation of data management against EU Guidelines on FAIR Data Management in H2020 (DKRZ, STFC and CNRS-IPSL)



WP Tasks

- **Task 3: Defining and communicating European priorities for ESGF**
- DKRZ (1 PM, lead), CNRS-IPSL (1 PM), STFC (1 PM), CMCC (2 PM), KNMI (1 PM), CERFACS (1 PM), LIU (2 PM)
 - Coordinate all IS-ENES/ESGF contributions, involvement
 - ENES/ESGF project management (CNRS-IPSL, DKRZ, STFC)
 - Replication strategy (CNRS-IPSL, DKRZ, STFC)
 - European contribution to overall ESGF support (DKRZ, KNMI, LIU, CERFACS)



WP Tasks

- **Task 4: Defining requirements and establishing the roadmap for the IS-ENES compute service**
- DKRZ (2 PM), CNRS-IPSL (2 PM), STFC (2 PM), CMCC (2 PM, lead), KNMI (4 PM), CERFACS (4 PM), BSC (2 PM)
 - Strategic roadmap of the IS-ENES compute service (KNMI, DKRZ, CMCC, CNRS-IPSL)
 - Training, dissemination, and outreach activities targeting scientific end users (BSC, CMCC, CERFACS, KNMI)
 - Coding sprint events on downstream services and compute-based applications. (CERFACS, BSC, STFC)



WP Tasks

- **Task 5: Technical standards and an architecture for plugin diagnostic tools**
- CNRS-IPSL (2 PM), BSC (6 PM, lead), DLR (1 PM), NLESC (3 PM)
 - requirements for a fast and scalable evaluation workflow that meets the requirements of ESM developments over the next decade.
 - define the technical architecture required to plug other diagnostic packages to existing evaluation software frameworks (such as ESMValTool).



WP First actions planned

WP5/NA4 will benefit from user requirements obtained in WP3/NA2. WP5/NA4 will provide input to guide developments in WP10/JRA3. Architecture design plans and strategies with regards to involvement in ESGF and ESDOC and on compute services will all inform WP2/NA1 to develop the long-term research infrastructure.

D5.1 Compute service requirements and state of the art approaches (CERFACS) M12

D5.2 Technical standards for diagnostic tools BSC M24

D5.3 Architecture design plans CNRS-IPSL M36

D5.4 IS-ENES3 involvement in ESGF (DKRZ) M36

D5.5 Style guide on coding standards (Nlesc) M36

D5.6 ES-DOC governance (CNRS-IPSL) M46



WP Issues to be addressed

The combination of tasks 2, 3, 4 and 5 will provide us with an updated architectural design for the IS-ENES RI.

- but with different scenarios on how the architectural design can be built in support *or* on top of existing infrastructures in Europe and abroad.
- the risk exists that we cant converge
- If we dont reuse services provided by European Infrastructure and built our own we need to have the arguments ready to demonstrate why