

Services on Models & Tools

Legacy for the ENES-RI

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Model & tool development

Supporting European climate models and infrastructure tools

- Keep diversity for robust model intercomparison studies
- Strengthen European contributions to international efforts
- Bundle development efforts and endorse interoperability

IS-ENES3 has supported modelling groups in setting state-of-the-art **standards** for development and deliver **high-quality** software products.

Model & tool development: scope

- European Earth System Models
CMCC-ESM, CNRM-CM, **EC-Earth**, IPSL-CM, MPI-ESM, **UKESM**, **NorESM**
- NEMO European Ocean Modelling Platform
- Common Software Tools
CDO, OASIS, ESMValTool, Cylc, XIOS

Overall, IS-ENES3 has supported **more than 200 developers** to provide **135 new versions** of models and tools to the user community.
(as per KPIs, documented in D6.1, 6.3, 6.6)

Model & tool development: Trans-National Access service

TNA providing OASIS on-site (and on-line) support for modellers

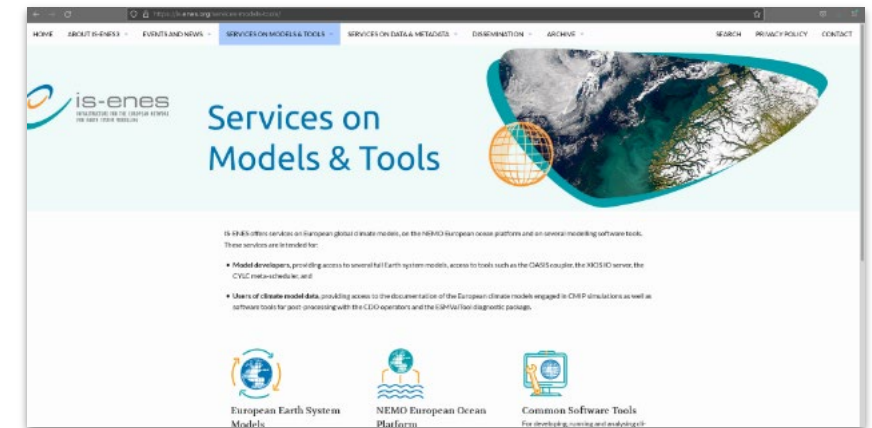
- 8 months
- 7 labs
- New coupled models
- Upgrade to latest OASIS version
- Porting to new machines
- Feedback and improvements for the OASIS development



User support

IS-ENES3 has helped boosting the uptake of European model and tool developments by ...

- Ensuring efficient developer-user interaction sustained flow of hundreds of tickets, thousands of messages every year
- Guiding users to crucial model/tool info IS-ENES3 Model&Tool/ENES Portal pages
- Supporting the CMIP process on ES-DOC 14 European CMIP5 and 17 CMIP6 models



Training and dissemination

Helping modellers and tool users to make best use of developments:

- ESMValTool tutorials
(online Software Carpentries lesson and videos on YouTube)
- OASIS training at CERFACS
(21-22 March 2019)
- XIOS online sessions
(15-19 March 2021 and 12-16 April 2021)
- EC-Earth4 online tutorial
(18 May 2021 and <https://ec-earth-4-tutorial.readthedocs.io>)

THE CONSORTIUM

Coordinated by CNRS-IPSL, the IS-ENES3 project
gathers 22 partners in 11 countries



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