



# HAPPY NEW YEAR 2023 !

Frohes neues Jahr, Bon any nou, Feliz año nuevo, Bonne Année,  
Ευτυχισμένο το νέο έτος, Boldog új évet, Felice anno nuovo, Gelukkig nieuwjaar,  
Godt nytt år, Срећна Нова година, Gott nytt år, Šťastný nový rok

## IS-ENES3 overview

Sylvie Joussaume (CNRS-IPSL)  
Bryan Lawrence (UREAD-NCAS)



**January 2019 – March 2023**

**22 partners from 11 countries**

**01/01/2022-31/03/2023: Third Reporting Period  
& Final Reporting**

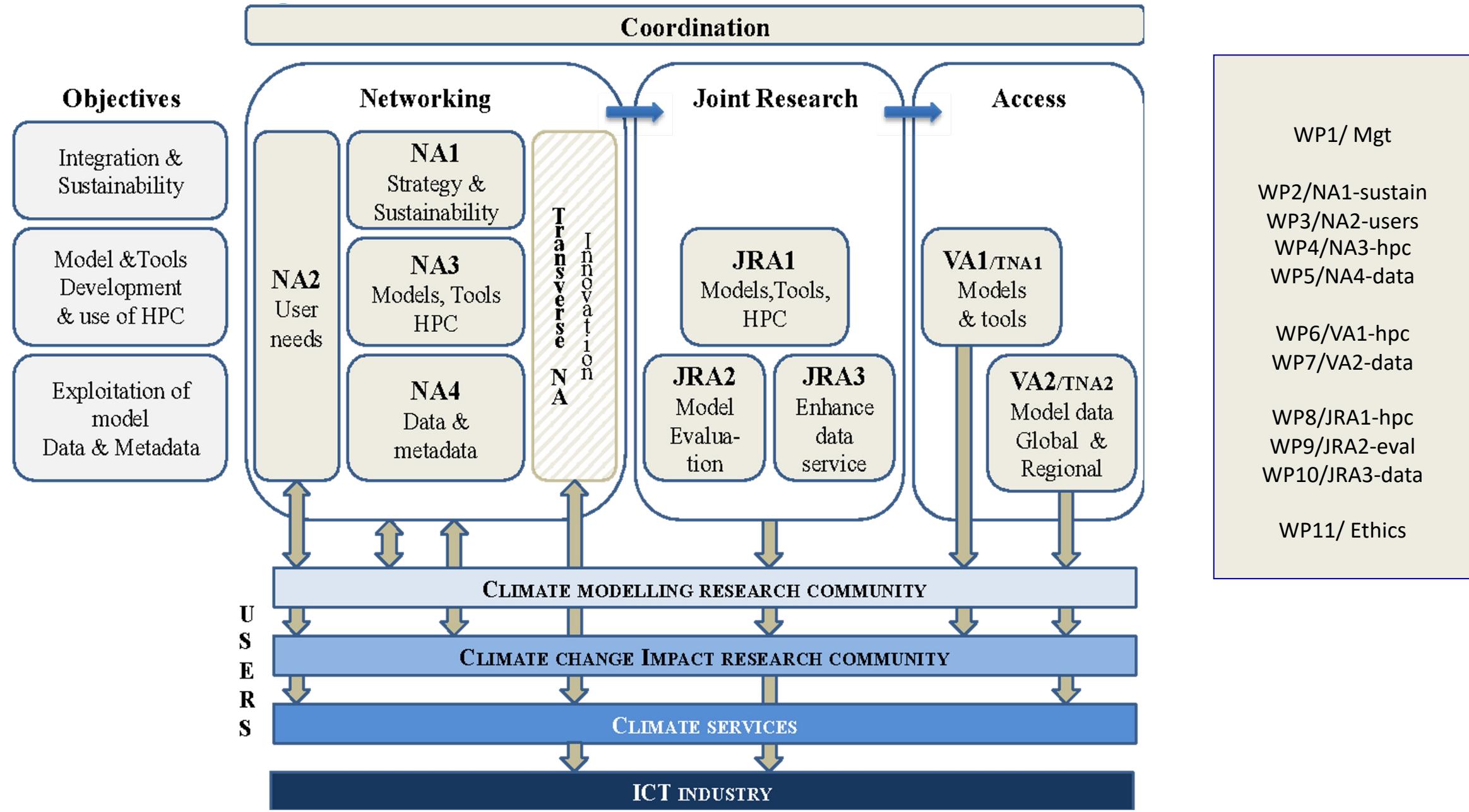
**3 main objectives:**

- Pursue the integration of the climate modelling community & prepare the sustainability of the research infrastructure
- Foster common development of models and tools and efficient use of HPC
- Support exploitation of model data by the Earth system science, the climate change impact and the climate service communities

**New Project Officer:  
Emiliano Carozza**

**At Research Executive Agency**





## Objective 1: Integration & sustainability

*NA1-sustain*

### Networking activities

**Governance:** Task Forces (data and HPC) & ENES scientific officer

**Prepare for sustainability:** scoping, designing & possibly implementing



**Innovation cross-WP activity:** Technology and Societal innovation

**Revise infrastructure strategy for 2022-2032**



*NA2-users*

**Engage with users: workshops & training**



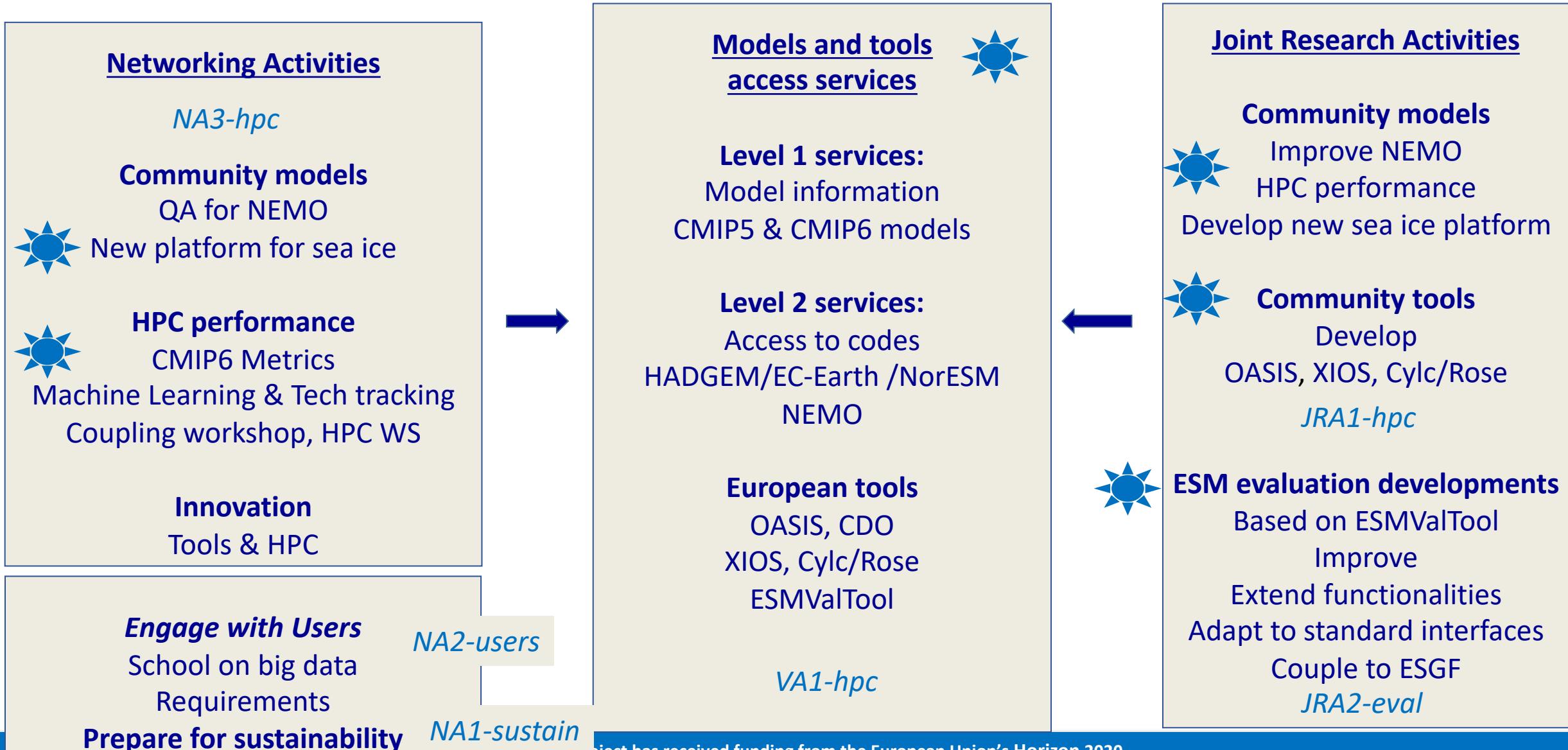
Widen the user community: VIA, Climate services

Nurture the existing community



# Objective 2: Models, tools and HPC activities

## Incl. Evaluation tools



# Objective 3: Data infrastructure

## Networking Activities

*NA4-data*  
**Data & metadata**  
 Needs, priorities, standards, future architectures for ESGF and ES-DOC

**Evaluation**  
 Standards for diagn. Tools  
 Standard on evaluation scientific provenance

**Engage with Users**  
 Trainings, schools  
 Requirements  
**Innovation**  
 Climate services & C3S  
**Prepare for sustainability**

*NA2-users*

*NA1-sustain*

## Data access services

**ESGF data access and publication**

**Long-term archival, PI, WDCC**

**Climate4impact portal**

**Compute services**  
 For large data pools and evaluation diagnostics

**Service on Data and metadata standards**

CF & Data Request

**Model documentation**

ES-DOC

*VA2-data*

## Joint Research Activities

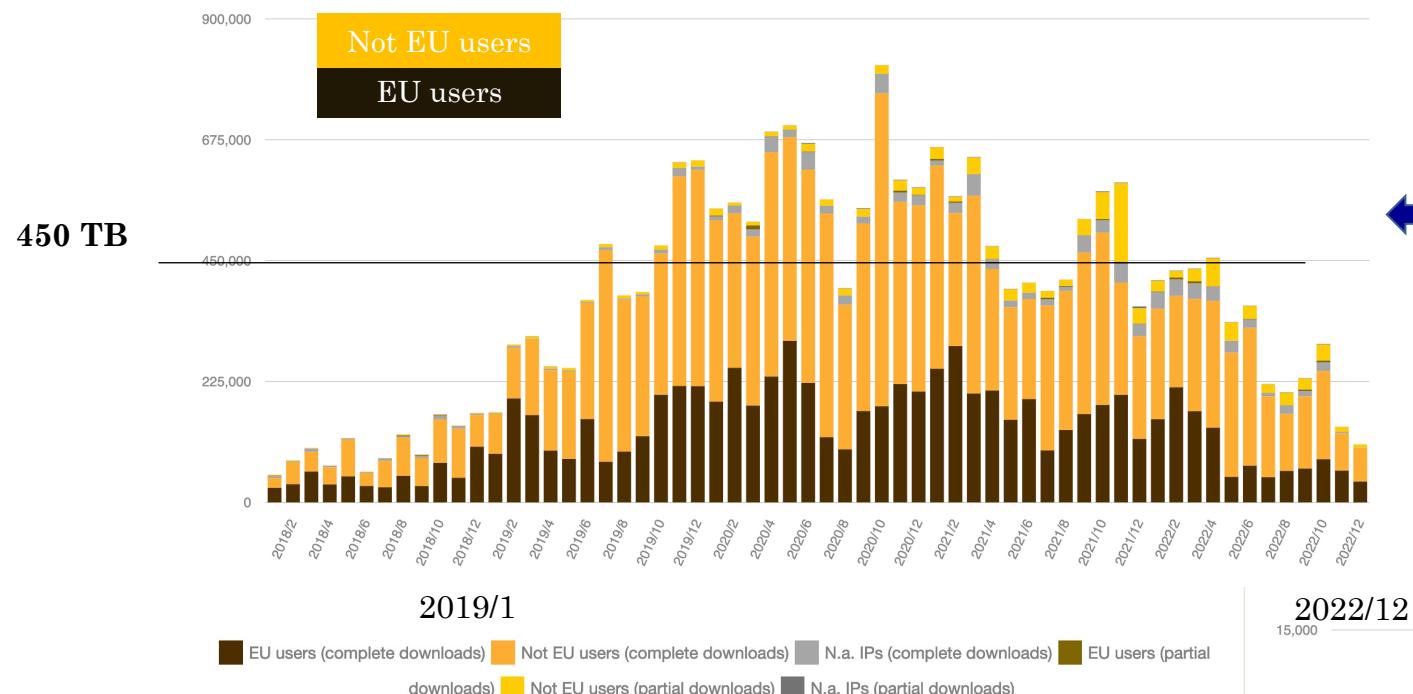
**Data infrastructure development**

Improve:  
 ESGF Software stack  
 Computing layer  
 Data standards

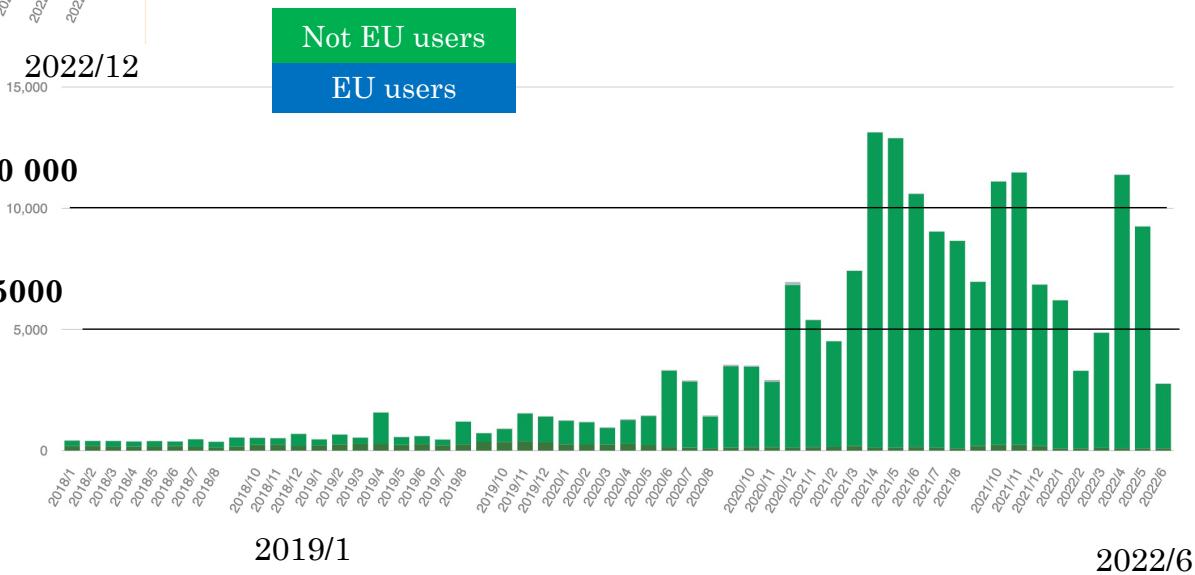
ES-DOC  
 Climate4impact portal  
 Incl. Climate indices

*JRA3-data*

**IS-ENES3 KPIs (from Jan 2019 to December/June 2022)**



## Number of distinct clients



# Project Management

Complete revision of both the IS-ENES web site and the ENES Portal

<https://is.enes.org>



Welcome to IS-ENES3

Services : simplified and on IS-ENES web site (> ENES-RI)

SEARCH PRIVACY POLICY CONTACT

Services on  
Data & Metadata



How to Access and Use Model Data?



ESGF Data

Search and download climate model data from ESGF.



Climate4Impact Portal

User interface and services for climate change impact community.



Long-term Archive

Access IPCC-DDC and long-term archive

More >

HO



Similar display on ENES Portal

<https://enes.org>

PRIVACY POLICY CON

Research  
infrastructure



Climate modelling depends on a significant amount of infrastructure: from the models themselves to the computing and data infrastructure. This tripod of models, computing, and data – with all the connecting workflow, network, and tools – needs to be well documented and depends on the central role of people with expertise in climate science, model and software development.

The strategy documents present the strategy of the ENES research infrastructure. They have been elaborated as part of the IS-ENES projects and encompass recommendations for the different components of ENES research infrastructure.

The EU funded IS-ENES projects, the "InfraStructure for the European Network for Earth System modelling", launched in 2009, aim at further integrating the climate modelling and facilitate access to climate model data from international experiments and to software. Since 2015, IS-ENES

### European

- New projects on HR ESMs (2023-2026): OptimESM (T. Königk) & EERIE (M. Roberts)
- Data policy: EOSC - collaborations with EGI (lead CMCC) and EUDAT (lead DKRZ)
- Copernicus C3S: Project on operational access to CMIP/CORDEX from ESGF (PI IPSL)
- ENVRI (environmental RI): Collaboration (SJ & FA) – new proposal on climate related risks (PI LUKES)
- ClimateEurope2: coordinated action on climate services (PI BSC)
- HPC: from ESiWACE2 (PI DKRZ) to ESiWACE3 (PI BSC)



### International

- CMIP: Towards CMIP7
- ESGF: F2F workshop following the GA



## Main structure of agenda

16-18th January 2023

### GA organised by topic sessions:

(Monday) Obj 2: Model, Tools and HPC, incl. evaluation



(Monday) Obj 3: Data and metadata



(Tuesday) Obj 1: user base / sustainability / strategy



**Breakout groups : from IS-ENES3 achievements to ENES-RI and future collaboration**

**Special session on « Legacy from IS-ENES1 to IS-ENES3 »**

**(Wednesday) Session on IS-ENES in the European and international landscape**



### GA: Preparing the RP3 and final report

**Status of WP RP3 work :**

**Syntheses available per WP on the IS-ENES google drive under Final GA/WP reports**



## THE CONSORTIUM

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



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Our website  
<https://is.enes.org/>



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