



# Dashboard for the State of the Environment

### Designed, developed and supported by the ENVRIS for the EOSC Future Project

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On behalf of ICOS, SeaDataNet, EMSO, ACTRIS, eLTER, IAGOS

#EOSCSymposium2023, Madrid, Spain





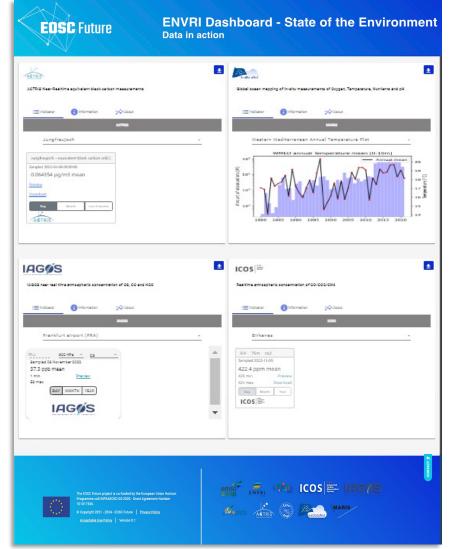




An extensible collection of Environmental Indicators resulting from ENVRI (FAIR) data and services

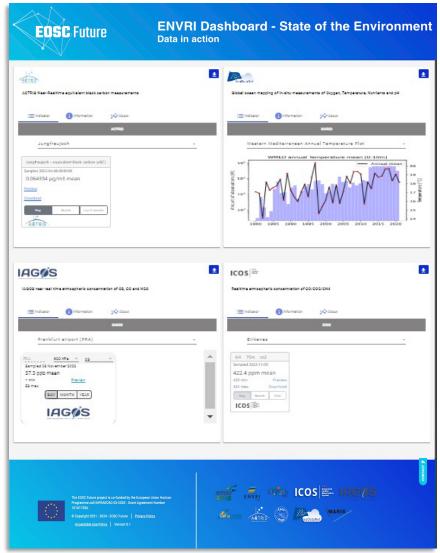


https://env-dashboard.eoscfuture.eu/



An extensible collection of Environmental Indicators resulting from ENVRI (FAIR) data and services

- An EOSC Service
- Supported by approved EOSC providers
- Backed by the quality assurance of the ENVRIS
- The Dashboard is universal and flexible
- Users can configure their own Dashboard, customise the view and choose the indicators of their interest by logging in with their EOSC credentials!



# An extensible collection of Environmental Indicators resulting from ENVRI (FAIR) data and services

- Environmental indicators provided (so far) by
   SeaDataNet, ICOS, ACTRIS, IAGOS, eLTER
- Development of the central service supported by EMSO
- Marine Data Viewer developed by MARIS

# Several EOSC services are used to develop the Dashboard on the EOSC Platform and support the RI providers. © EOSC Marketplace © EOSC AAI Federation © EGI Cloud Compute © EOSC Service Monitoring © EOSC Helpdesk © Achieved © In Progress

## Data Science in the context of Earth and Environmental Science



Data collection, processing, analysis



Models, simulations, hypothesis testing



Monitoring, observations, warning systems



Ecological research, ecosystem response to changes



## Data Science in the context of Earth and Environmental Science



Risk assessment, decision support systems, policy making



Data sharing, inclusivity, accessibility, Open Science



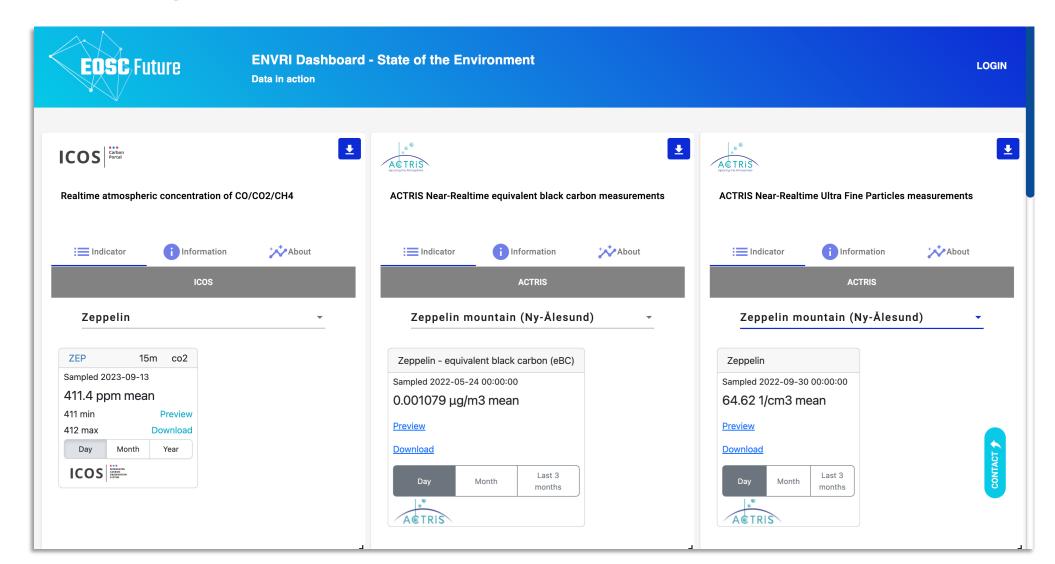
Transparency, collaboration, impactful scientific advancement

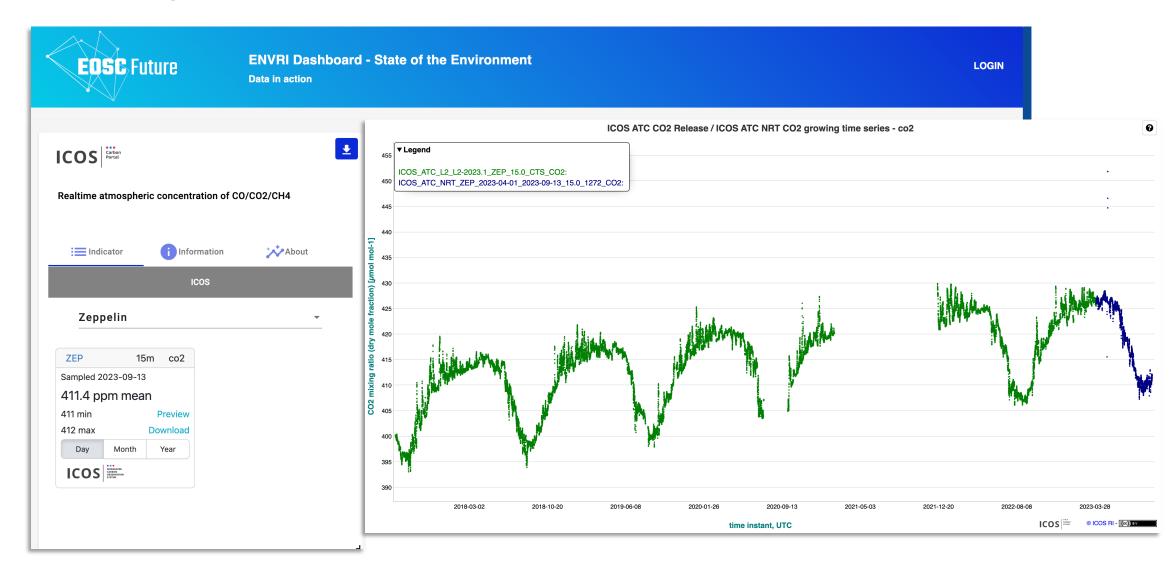


Goals for Scientists and Policy Makers

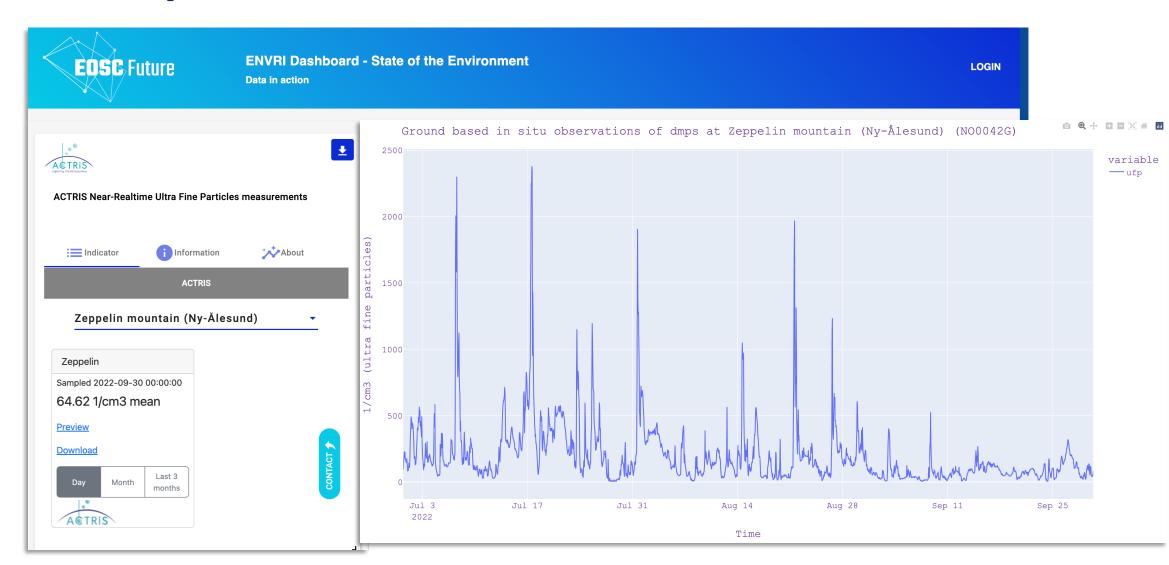
- Develop policies for sustainable transportation
- Enhance air quality monitoring systems
- Support evidence-based urban planning strategies
- Evaluation of emission reduction programs – emission standards
- Public awareness campaigns

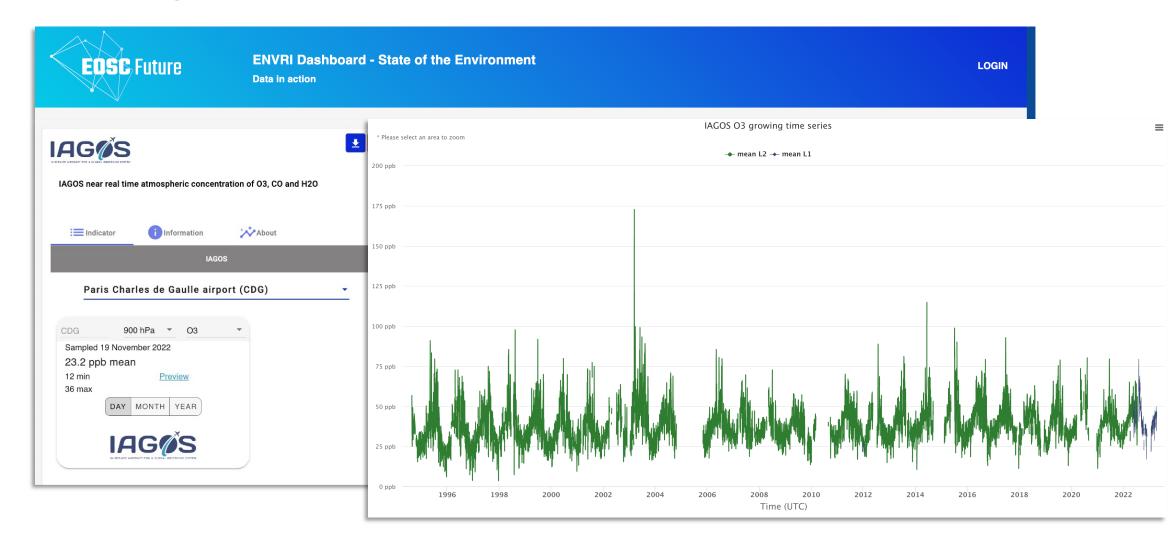






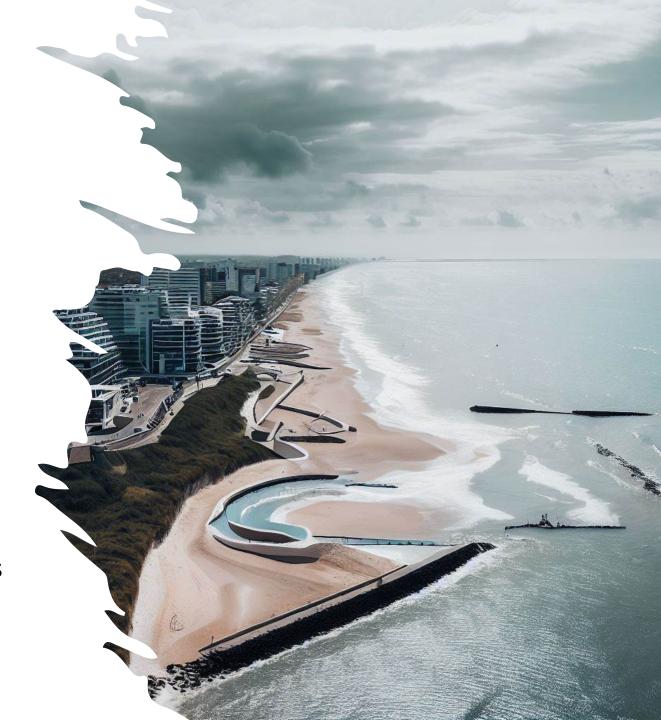


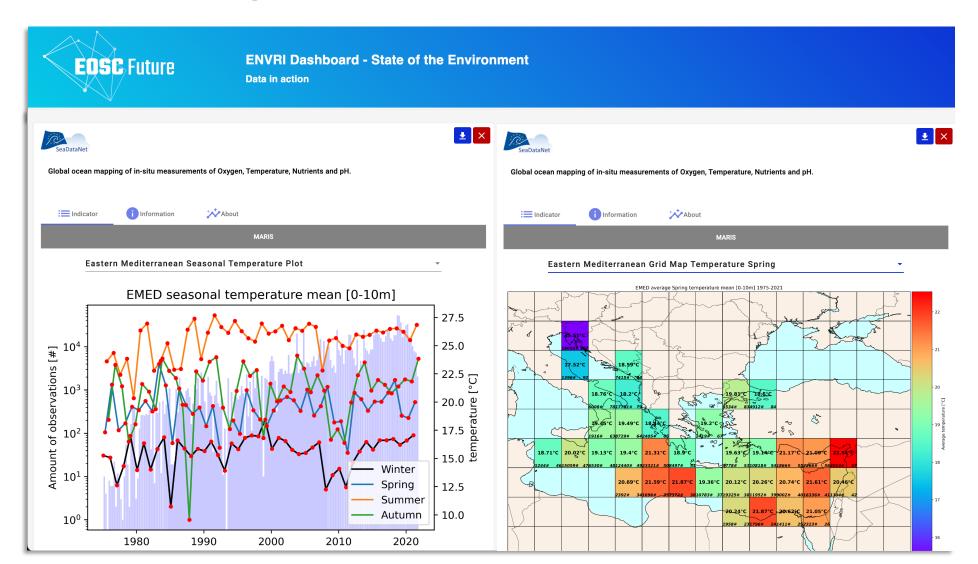


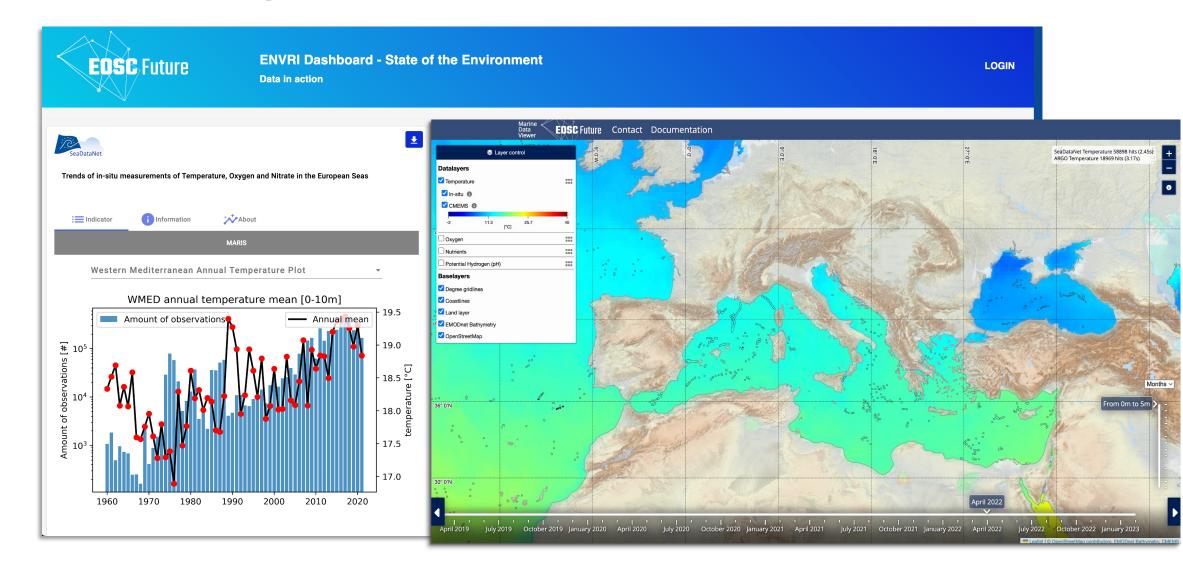


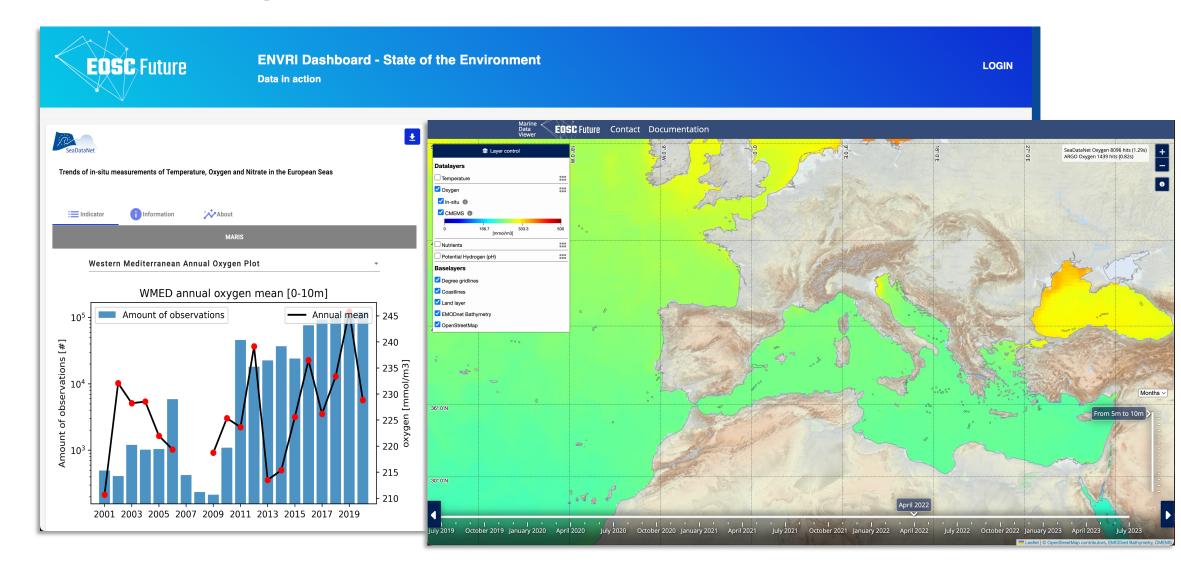
Goals for Scientists and Policy Makers

- Address the challenges of climate change and marine ecosystem conservation
- Develop policies to regulate coastal development
- Design strategies to mitigate risks
- Preserve marine ecosystems while supporting sustainable economic activities









#### What is necessary for science and technology today will be crucial for society tomorrow



Embrace disciplinary and interdisciplinary research approaches



Support data sharing and integration across disciplines



Foster collaboration and communication among disciplines



Engage scientific communities and other stakeholders





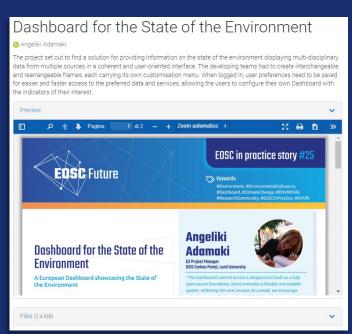


Invest in capacity building for interdisciplinary research

#### **EOSC in Practice Stories Booklet**







Send your EOSC in Practice Story here

https://eosc-portal.eu/we-are-looking-eosc-practice-stories-submit-yours



#### Thank you for your attention!

Visit the EOSC and find out more about the ENVRI Dashboard!

An interactive environment that gives clear and easy access to the **ENVRIS**.

Climate change is a scientific fact and



Science means knowledge, awareness and understanding!

See you at the ICOS booth for more Demos!

