EPOS in the ENVRI community

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EPOS
EUROPEANPLATEOBSERVINGSYSTEM

THE EPOS SP PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT N° 871121

Key Features of Environmental Infrastructures

Interdisciplinarity highly relevant

Specialized observation and analysis platforms

Life

Air

Societal challenges need multidisciplinary methods

Observations often unique - huge datasets

Answering societal needs is only possible via collaboration

High importance to society, economy and resilience

Wide range of disciplines

Land

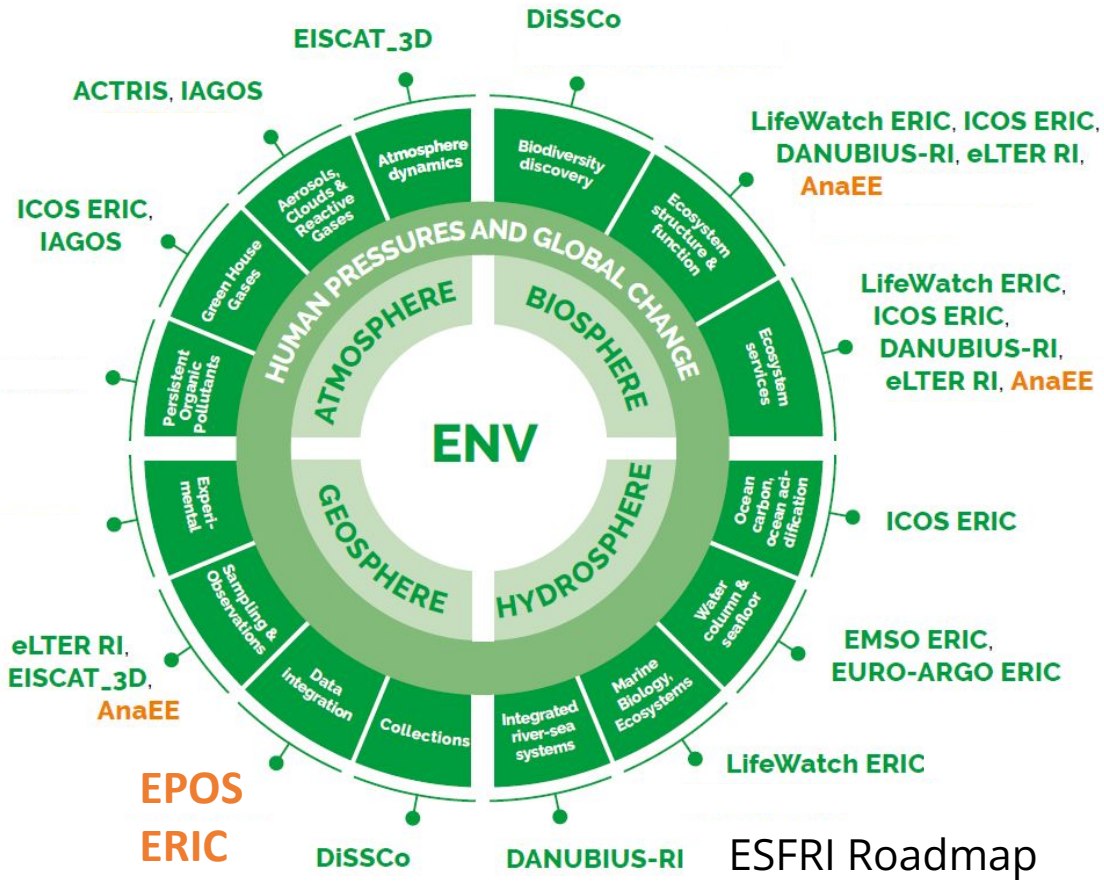
Water

High level of specialization requires RI to concentrate on their main tasks and user communities

Multiple infrastructures

The ENVRI Community

ENVRI = European ENVironmental Research Infrastructures



ESFRI Roadmap 2021

Environmental Research Infrastructures

- provide data and research products from all four sub-domains of the Earth system
- data are crucial European contributions to global-scale monitoring of the state of the Earth
- data are vital for assessing past and defining future policies, and for the development of environment-friendly innovations
- provide research data and services at EOSC through the ENVRI-Hub, built by ENVRI-FAIR

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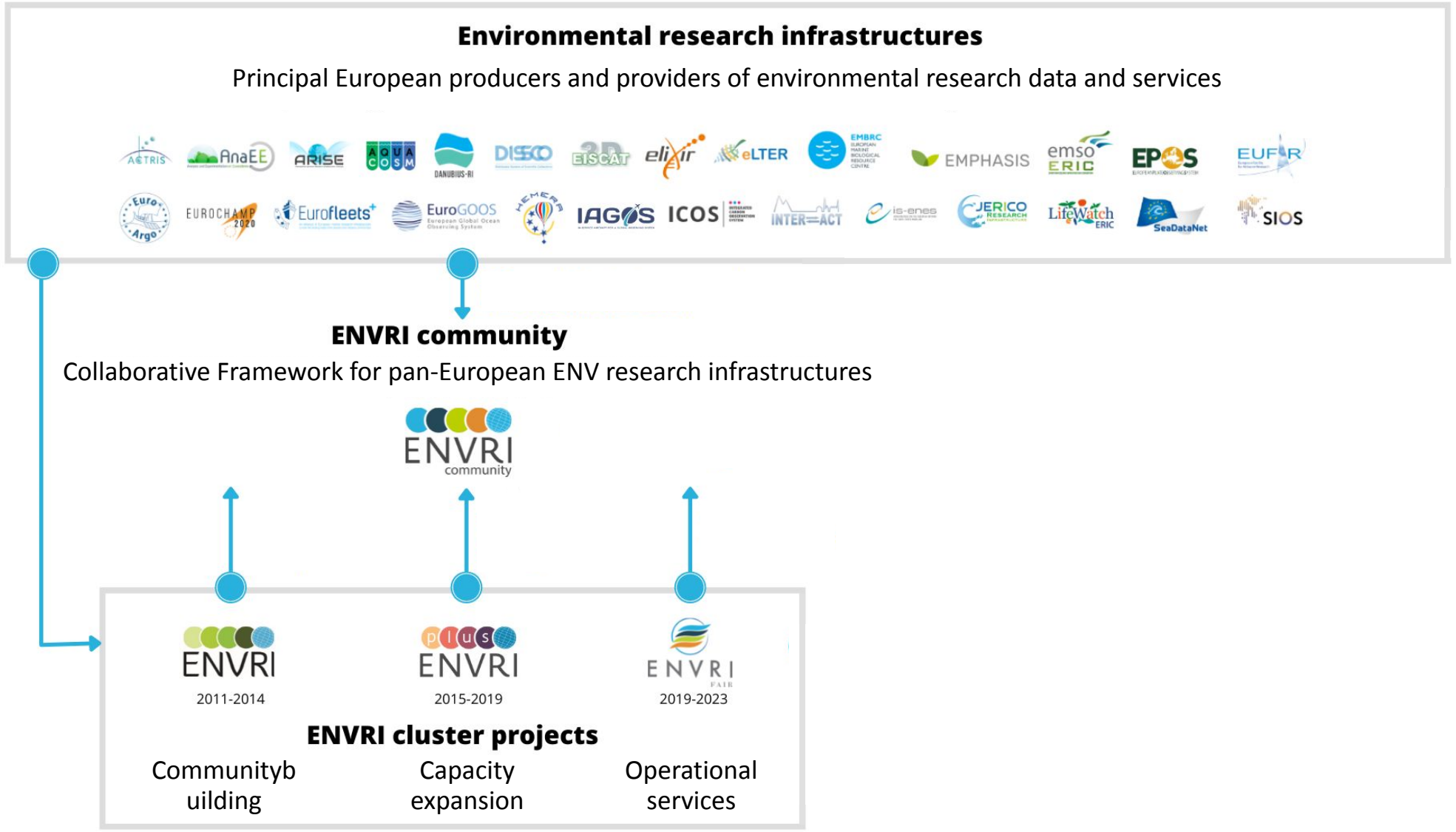
ENVRI Community

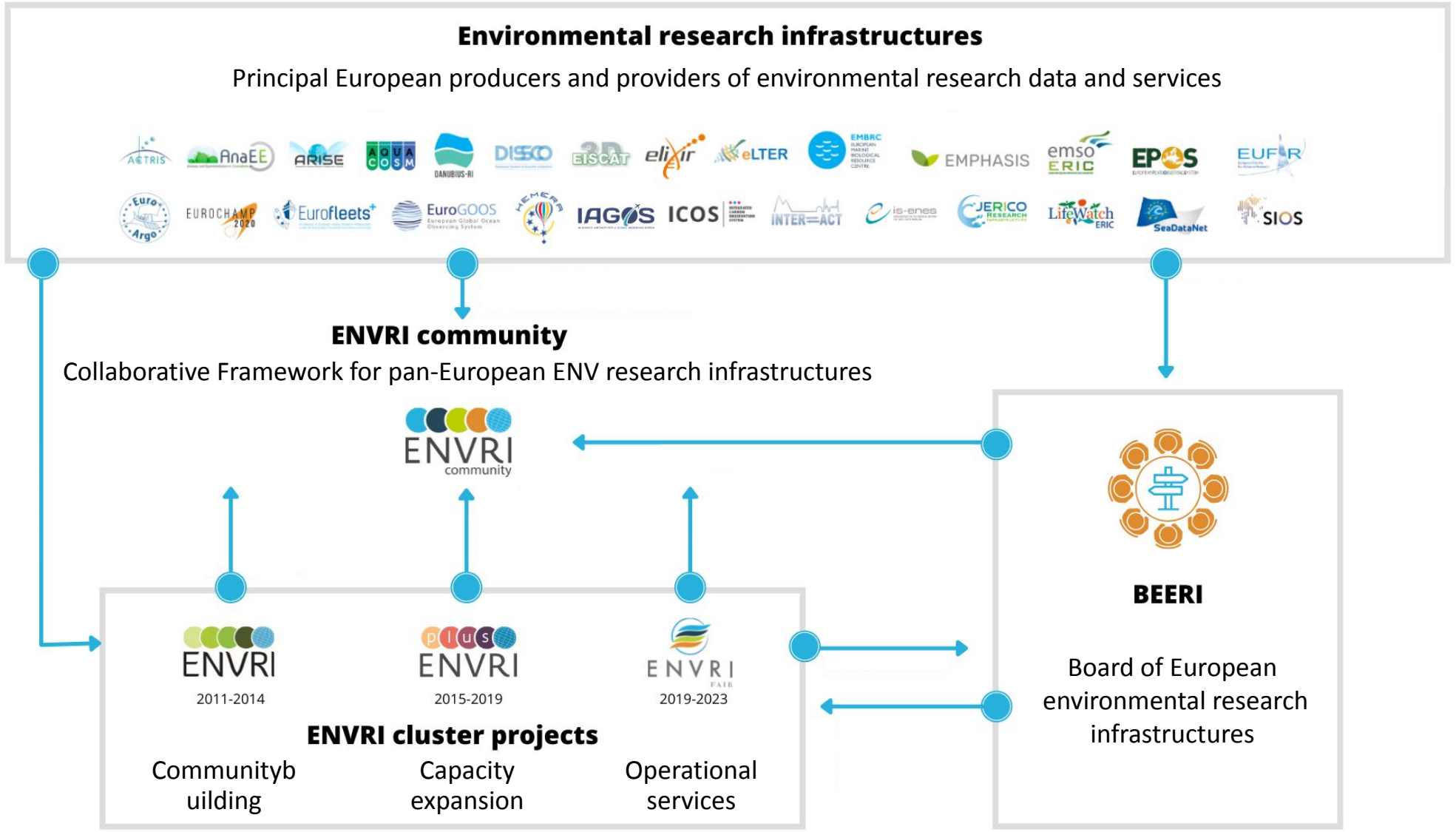
Environmental research infrastructures

Principal European producers and providers of environmental research data and services

ENVRI Community



ENVRI Community



ENVRI Resources Provision

The ENV Landscape in approximate numbers

7 RIs
12 data portals
300 asset suppliers
10,000 researchers

5 RIs
12 data portals
300 asset suppliers
19,000 researchers

2 RIs
10 data portals
250 asset suppliers
10,000 researchers

5 RIs
5 data portals
4000 asset suppliers
(institutions@SeaDataNet)
20,000 researchers

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ENVRI Resources Provision

EUROPEAN OPEN SCIENCE CLOUD

Copernicus Europe's eyes on Earth

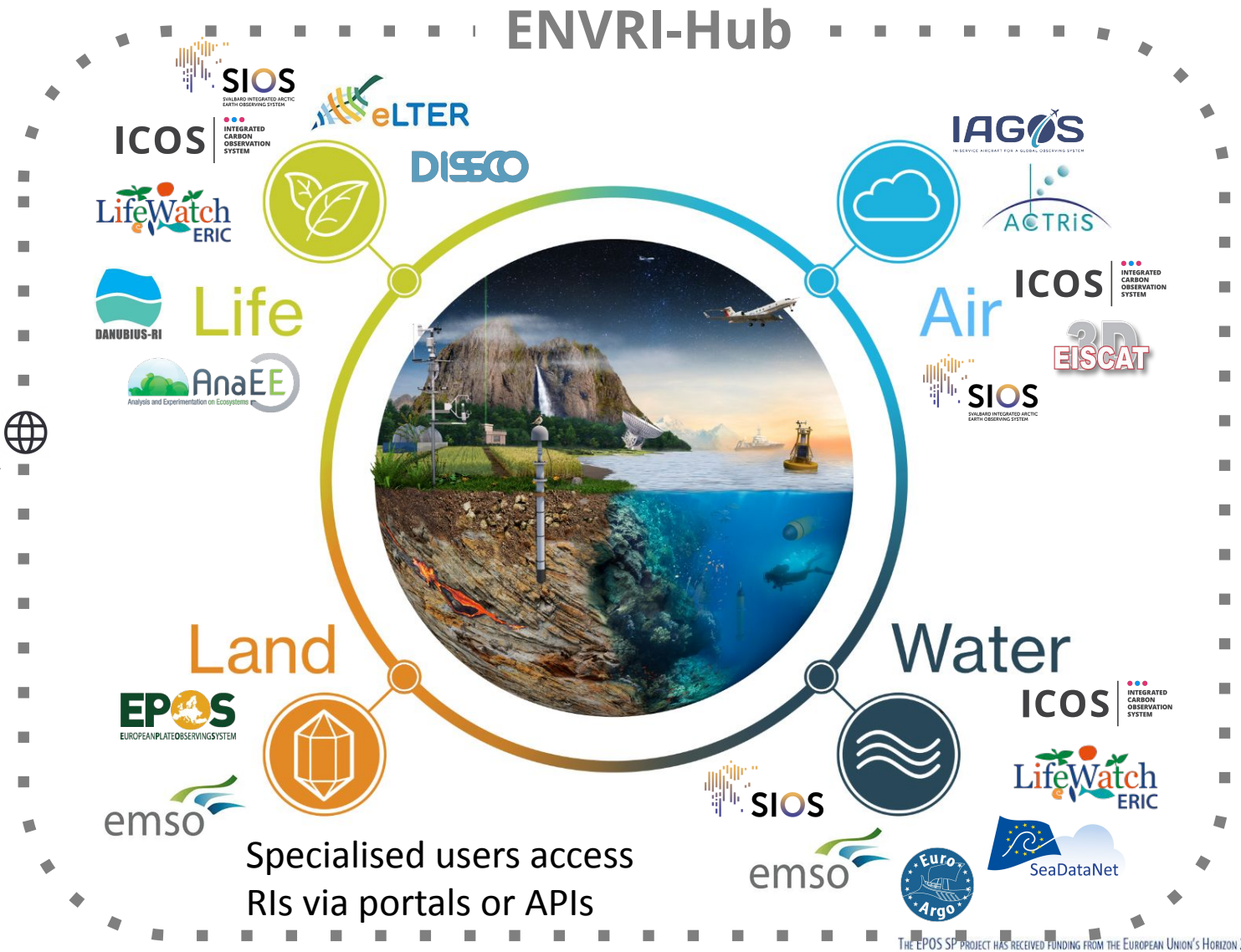
Scientists

Industry

Society

Citizens

User community accessing ENVRI via ENVRI-Hub



Specialised users access RIs via portals or APIs

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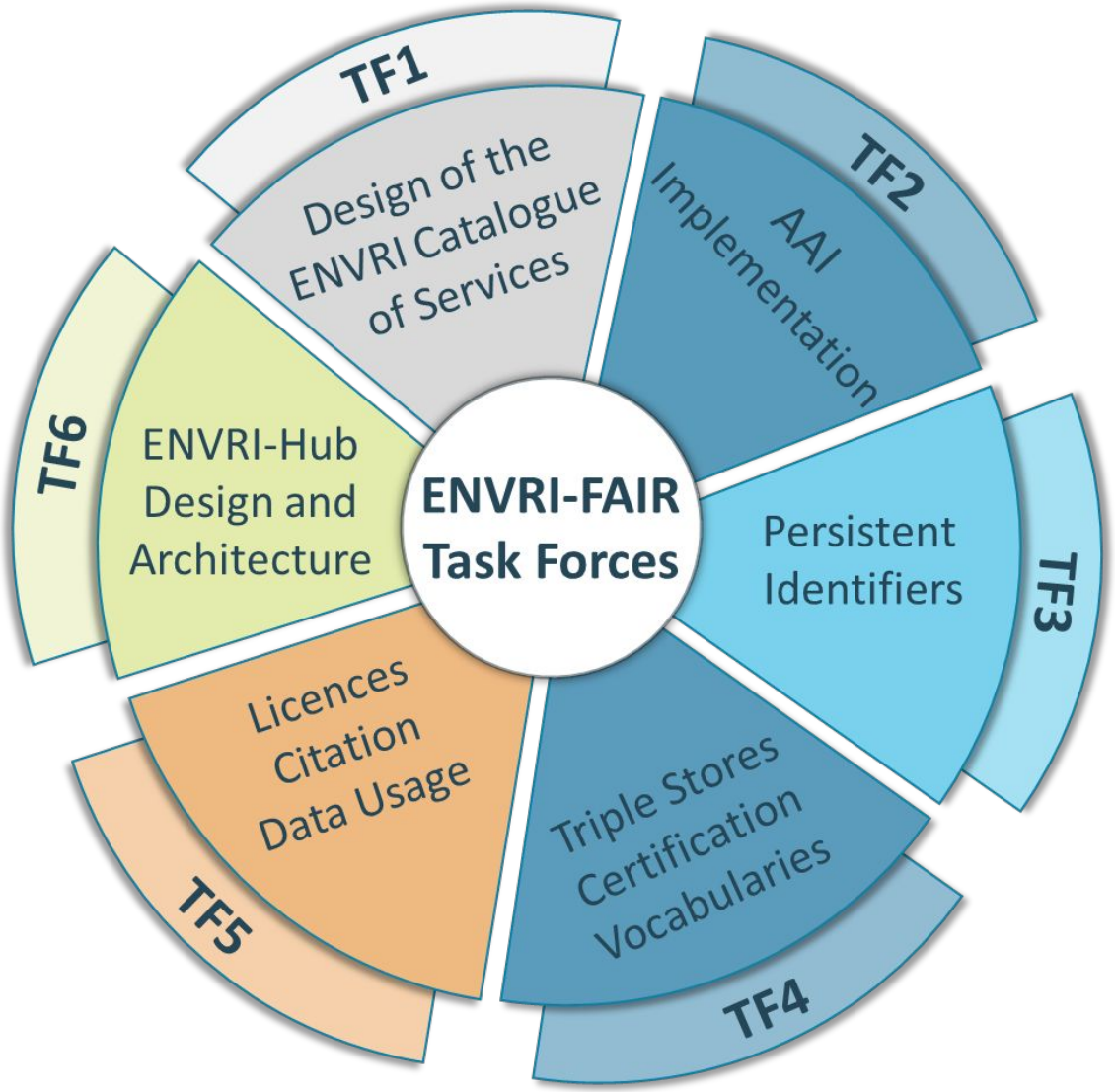
Bridging Tech Gaps by Cross-domain Task Forces



Task Forces = Thematic groups on the common development targets of the ENVRI Community

- Task Forces have developed into the power house of ENRI-FAIR
- EPOS assumes leading roles in
  - TF1 – ENVRI Catalogue of Services
  - TF2 – AAI Implementation
  - TF6 – ENVRI-Hub, in close collaboration with FZ Juelich

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ENVRI Community

Environmental research infrastructures

Principal European producers and providers of environmental research data and services

ENVRI FAIR

EOSC-Life

ESCAPE
European Science Cluster of Astronomy & Particle physics ESFRI research infrastructures

panosc
photon and neutron open science cloud

SSHOC
social sciences & humanities open cloud

ENVRI community

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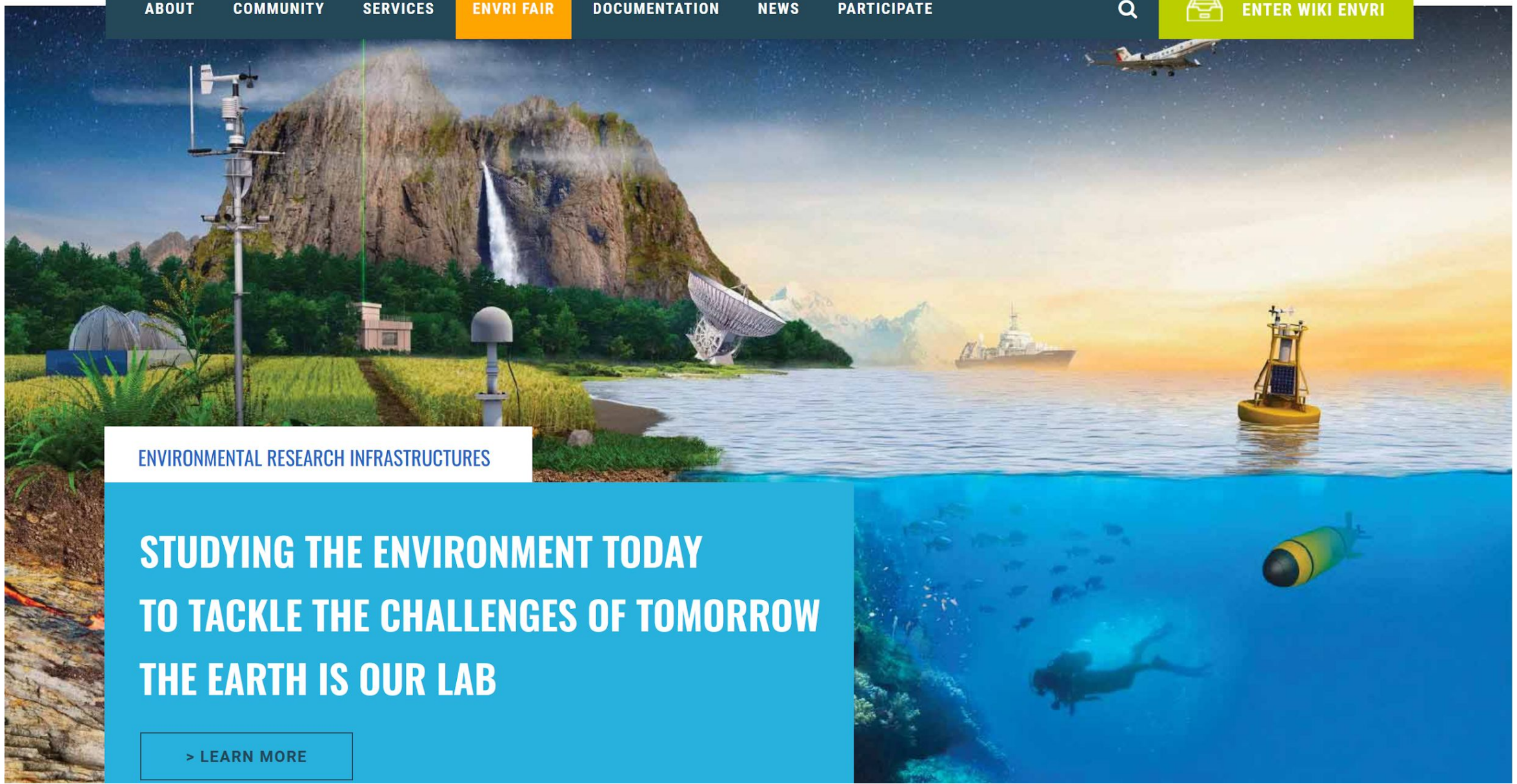

ENVIRONMENTAL RESEARCH INFRASTRUCTURES

STUDYING THE ENVIRONMENT TODAY TO TACKLE THE CHALLENGES OF TOMORROW THE EARTH IS OUR LAB

> LEARN MORE