ENVRI FAIR

Environmental Research Infrastructures building FAIR services accessible for society, innovation and research - An Introduction

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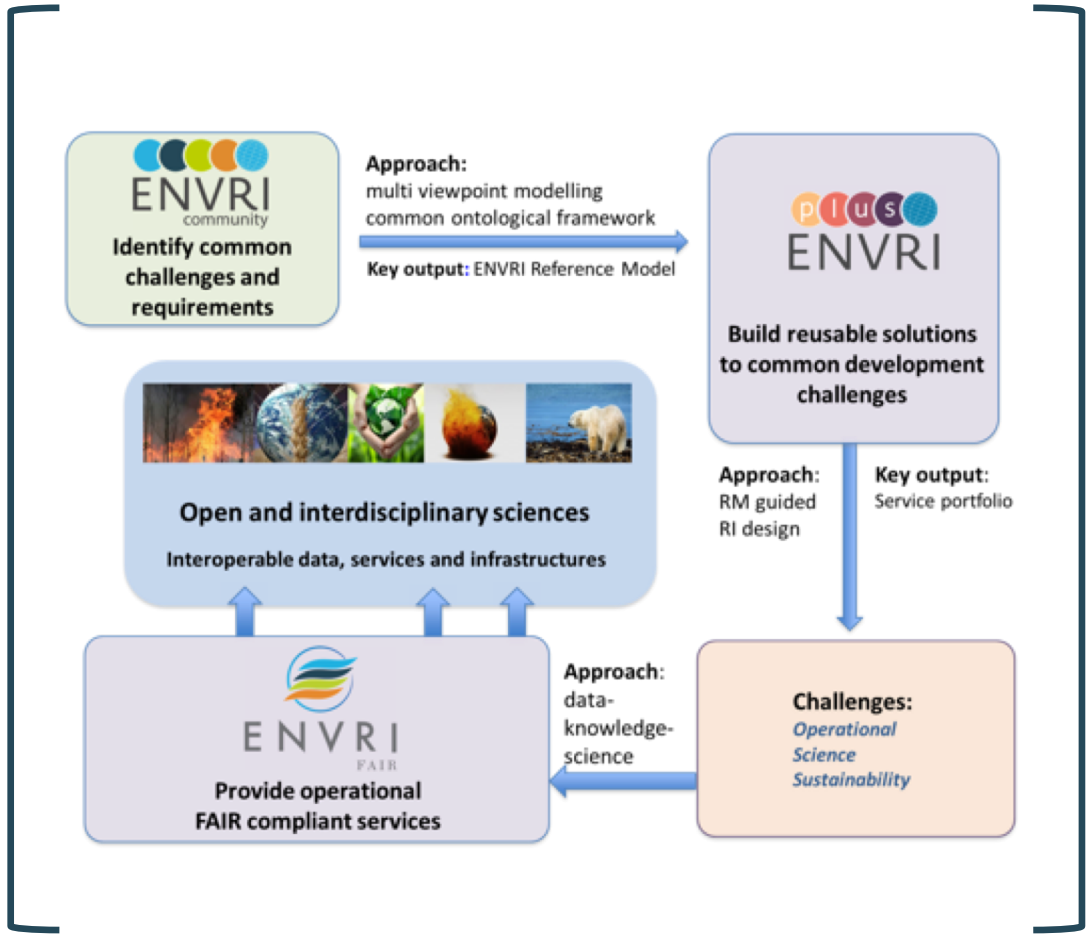
Europe's Environmental Research Infrastructures



ENVRI

- Community Building
- Common framework
- ENVRI Reference Model

ENVRIplus

- Common developments
- Shared solutions for RI
- Service portfolio

ENVRI-FAIR

- Enabling RI for FAIR
- FAIR compliant services
- Link ENVRI to EOSC

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ENVRI-FAIR mission

Share experiences and find common solutions to

- data sharing,
- accessibility,
- interoperability

Develop joint services

Expose services to EOSC

Prepare ENVRI-hub

EUROPEAN OPEN SCIENCE CLOUD

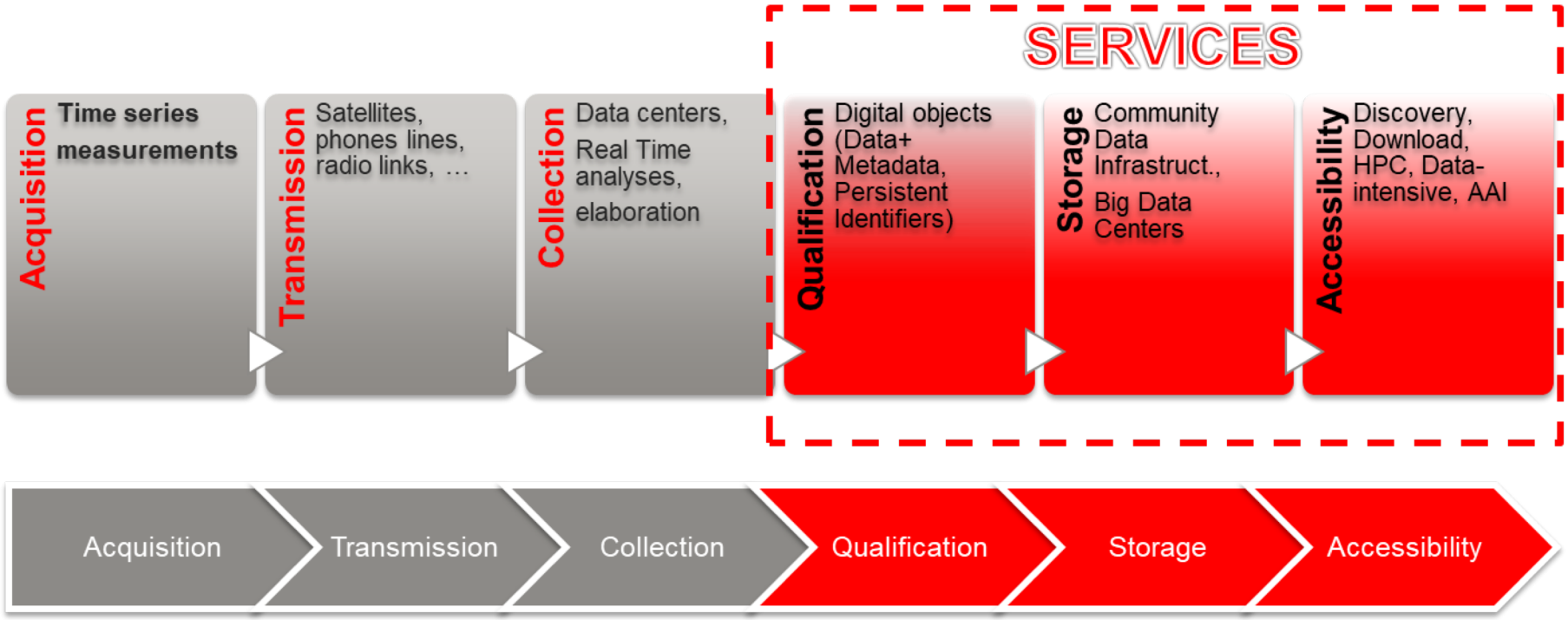
ENVRI FAIR

The Basics - FAIR Data and Service Provision

Findable
Accessible
Interoperable
Reusable

+

Reproducible



ENVRI-FAIR – Overarching Goals

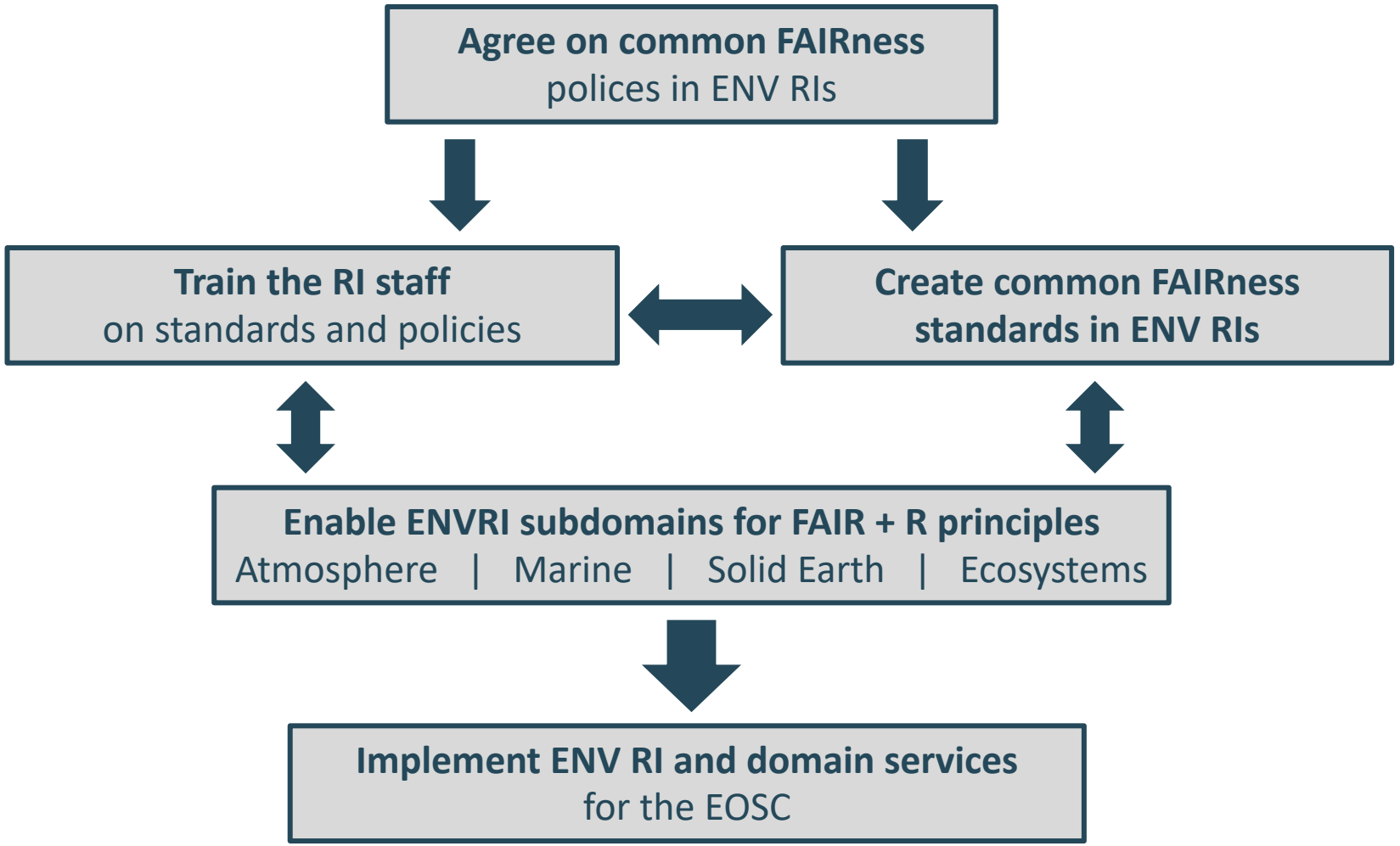
The primary goal of ENVRI-FAIR is the **implementation and further development of FAIR services** at RI and subdomain levels while ensuring the highest possible level of standardisation at the domain level.

ENVRI-FAIR implies motivation to **share solutions and strategies** moving towards a shared approach to EOSC.

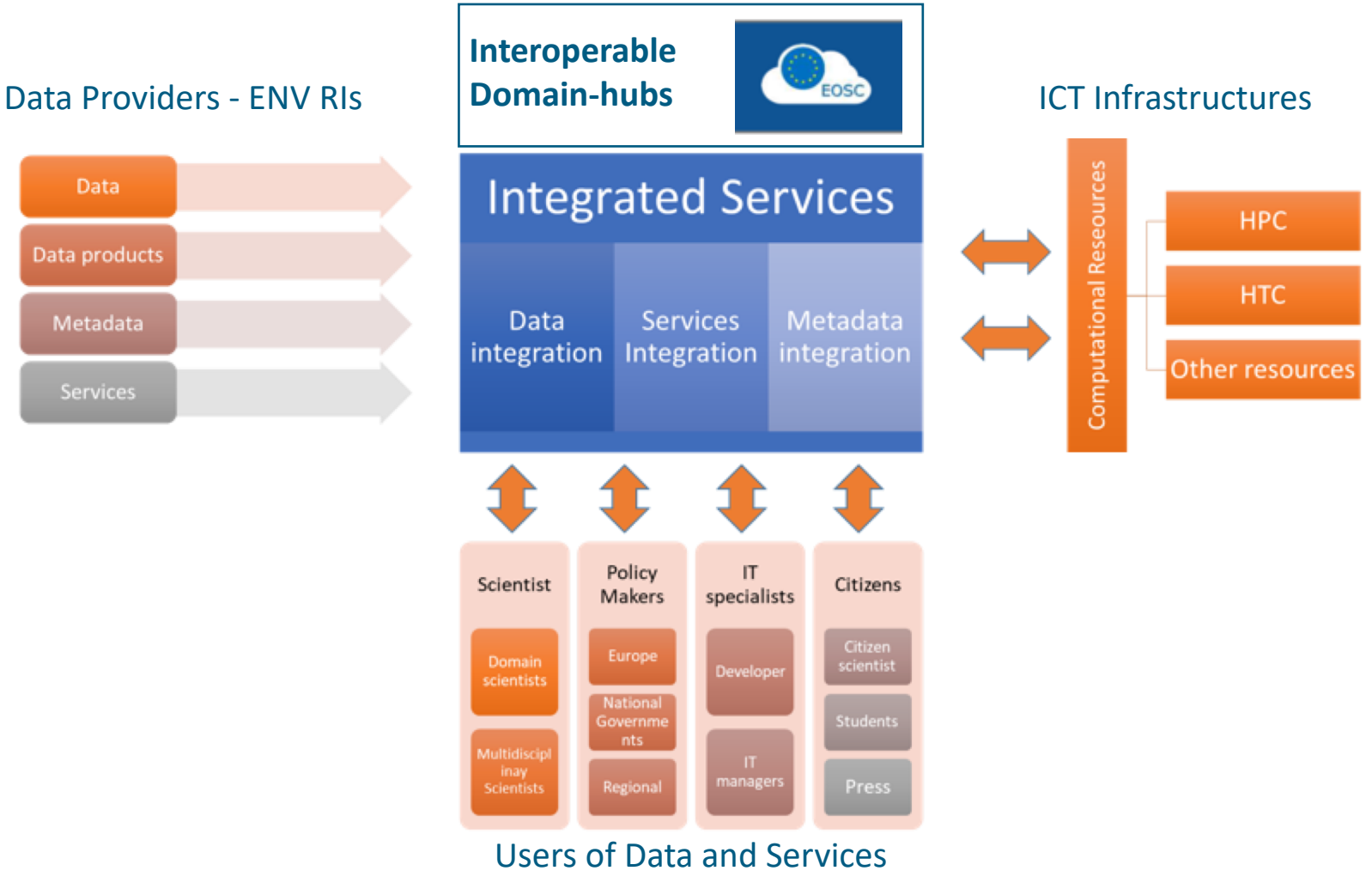
The high-impact ambition of ENVRI-FAIR is to prepare the foundations for the successful implementation of a **virtual, federated machine-to-machine interface** to access environmental data and services provided by the contributing EN VRIs.

This interface, **the ENVRI-hub**, will be realized as the services across RIs and even between environmental subdomains become progressively more integrated.

ENVRI-FAIR – Work Flow



ENVRI-FAIR - Architecture



ENVRI-FAIR – Implementation Principles

Implementation by the research infrastructures themselves

Standards and implementation are hierarchical

- Cluster level
- Subdomain level
- RI level

Use of external services is recommended when needed

- but all solutions must be made as transferrable and provider-agnostic as possible

Common policies are agreed, and are the ”border control” of what is considered FAIR in the European ENVRI domain

All **policies and standards** are carefully considered with external stakeholders, e.g, in the global research environment, in different fields and user communities/ services

Summary

ENVRI-FAIR…

- is working **towards operational FAIR data services**, connecting the ENVRI cluster to the EOSC by implementing the **ENVRI-hub**
- **responds to the need** for appropriate tools to manage increasing amounts of complex data of the Earth System and the progressive establishment of Open Science
- is maintaining, utilising and extending the **ENVRI community knowledge**
- will facilitate a **coherent development** of the leading ENV RIs, fostering **synergies, complementarity and interoperability**, and support the alignment of upcoming RIs with the principles of the ENVRI cluster

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THANKS

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