Open Data & Infrastructures

FERNANDO AGUILAR

European Open Science Cloud

EOSC aims to be a "**Research data commons**", involving different actors.

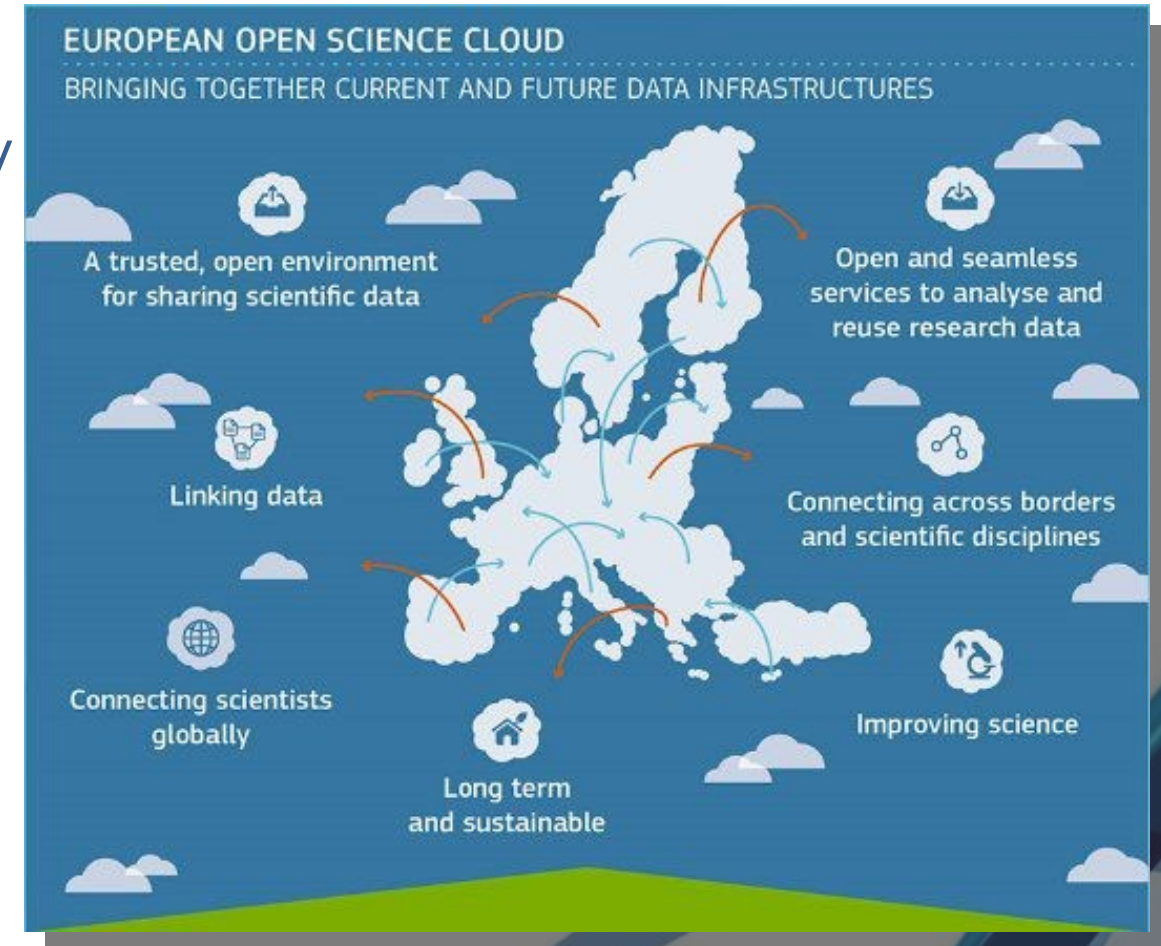Long term **Sustainable Science,** including any discipline.

Promoting **interdisciplinarity**.

Unique access point to data, services, training, resources, infrastructure…

Federation of existing and emerging infrastructures: dat1, computing, thematic…

Open, global standards. Open Access.

Web of **FAIR** data

EUROPEAN OPEN SCIENCE CLOUD
BRINGING TOGETHER CURRENT AND FUTURE DATA INFRASTRUCTURES

A trusted, open environment for sharing scientific data

Open and seamless services to analyse and reuse research data

Linking data

Connecting across borders and scientific disciplines

Connecting scientists globally

Long term and sustainable

Improving science

Software – Services - Infraestructure

To process some data type or volume, having software or workflows is not enough.

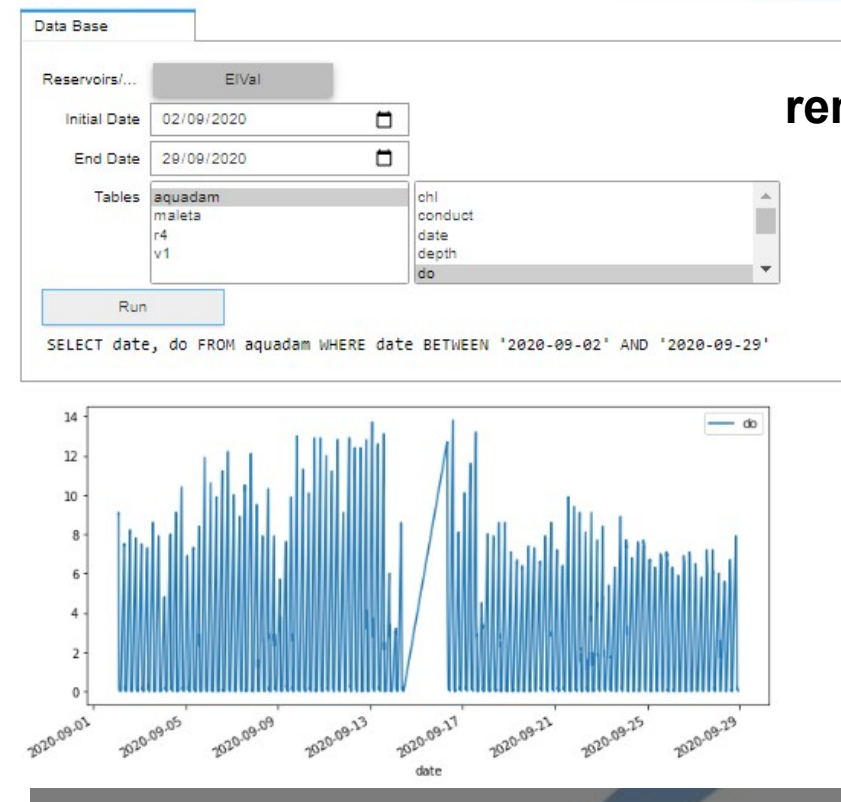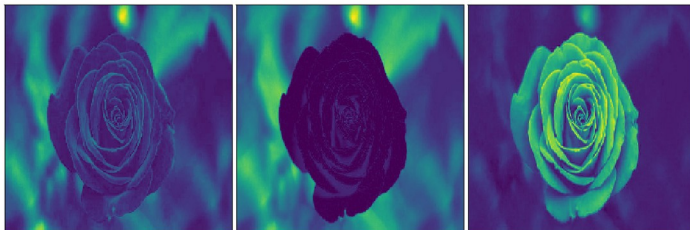Proper infrastructure to support. **Services**.

EOSC

remote-sensing.ifca.es

deep.ifca.es

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European Open Science Cloud

EOSC-SYNERGY in a nutshell

Promote EOSC High Quality Services

Software quality as a service, **FAIRness evaluation** and quality certification badges

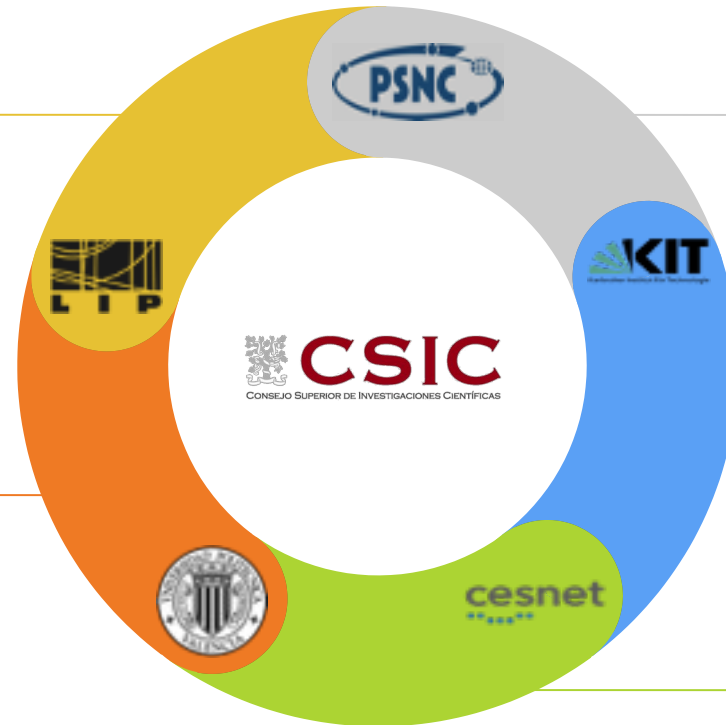**Thematic Services Integration**

10 thematic services addressing 4 scientific areas (Earth Observation, Environment, Biomedicine and Astrophysics)

22 partners in 10 countries
(ES, PT, FR, UK, DE, NL, CZ, SK, PL and BR)

Skills development

Environment for tutorials with a dedicated MOOC platform, courses methodology and a Hackaton as a service platform

Capacity Expansion at the Infrastructure level

Integration of services and resources from the RIs of the consortium partners

Alignment at the Policy Level

Collaboration with regional projects on landscaping activities, gap analysis and contribution to EOSC policies

FAIR Assessment tools - FAIR EVA

► FAIR EVA - Evaluator, Validator and Advisor
► Comply with **FAIR Data principles**:
  1. **Data**: use a proper format
  2. **Metadata**: community standard. Machine-actionable (JSON, XML, RDF...)
  3. **PIDs**: Persistent Identifier (e.g. DOI). Provided by an accepted authority.
  4. **Repository/Data service**: indexed and machine-actionable.

► Integration: Different types of repositories/data portals

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