OSCARS
Open Science Clusters' Action for Research & Society

GOYAS

Geospatial Open-science Yielding ApplicationS: innovative and FAIR remote-sensing data

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Implemented by

IFCA Instituto de Física de Cantabria
CSIC Consejo Superior de Investigaciones Científicas
UC
ICM Institut de Ciències del Mar
ICMAN Instituto de Ciencias Marinas de Andalucía
EBD CSIC

CHALLENGE ADDRESSED

What problem(s) are you going to solve?

- **FAIR-by-design**: Remote sensing data must be accompanied by adequate metadata and documentation to make it effectively FAIR throughout its lifecycle
- **Alternative channels** for experimental data products.
- Local and great **added-value products**
- **Automatic** data ingestion - **Pipeline**
- Interoperability
- Potential users: academia, administration, industry. ENVRI, LTER
- Pilot for national and international initiatives: **Virtual data distribution center**.

Solution

New event is detected (new available data, algorithm update…)

I

II

Data is automatically generated

III

Data is formatted and metadata (+ semantic) added

IV

FAIRness and integrity tests

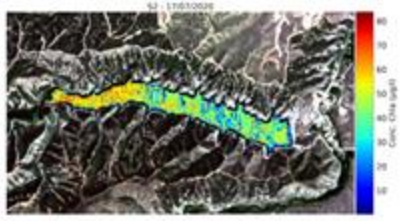
Repo

ENVRI Hub

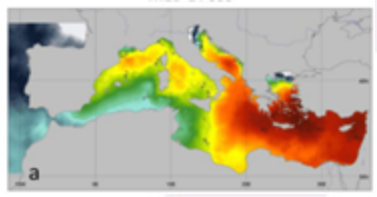
jupyter

What will be the results and how do you plan to make them available to the broader community?

- Fill critical gaps in the accessibility and reusability of high-value remote sensing data, such as inundation maps and water quality data, are valuable but lack visibility, access, or integration into existing data-sharing frameworks.
- FAIR-by-Design Geospatial data portal
- Automatic FAIR data ingestion Pipeline
- Integration and Interoperability: EOSC, Jupyter, ENVRI



AI - Water Quality



Oceanographic data products

Inundation maps

Satellite-derived bathymetry

RISKS

What risks could limit the success of the project, and how can they be mitigated

- Integration barriers (EOSC, ENVRI) - Compatible Architecture & Formats
- Lack in the usage - Participation in different events. Outreach. OSCARS support
- Limited computing capacity - CSIC support


OSCARS
Thank you