



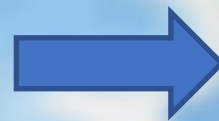
Mediterranean Regional Initiative – Topic B

MedEOS Objectives

- MedEOS is part of ESA Mediterranean Sea regional Initiative within FutureEOSegment1 ESA programmatic line (2020 – 2022)
- Aims to produce high-res, gap-free maps of experimental EO water quality products using data fusion techniques combining high temporal resolution of S3-OLCI and high spatial resolution of S2-MSI data.
- Produce extensive tracking of river plumes in Mediterranean coastal waters.

Strong co-design collaboration with relevant end-users from early development, working together for the same objective:

MedEOS implements and generalizes methodologies using **EO data**



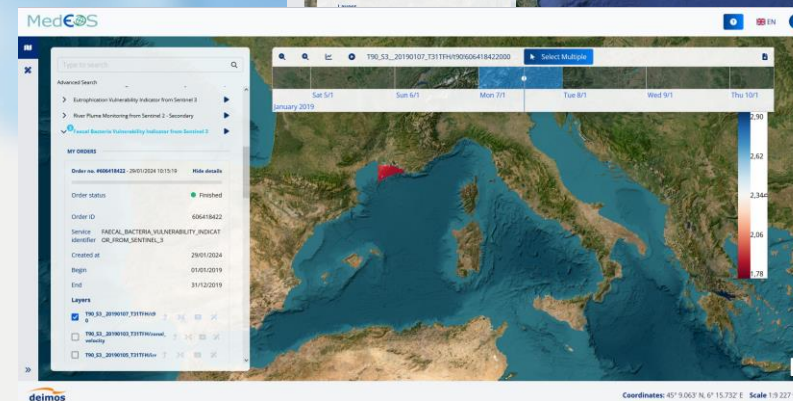
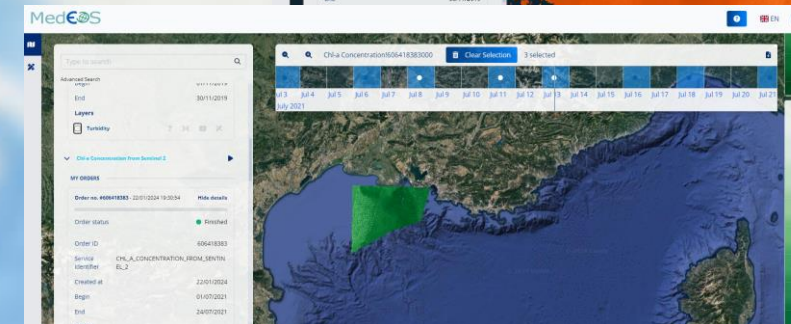
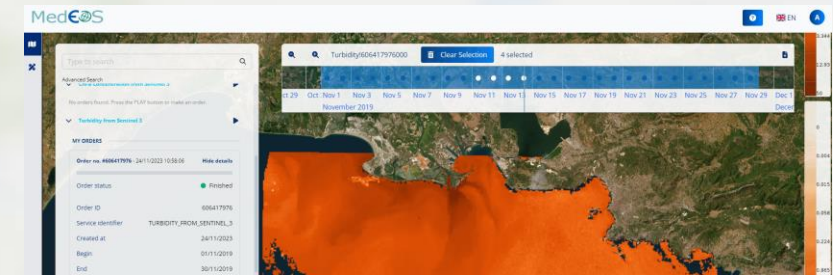
Acquires coastal **water quality** information regarding non directly and remotely measurable **parameters**.



MedEOS Objectives



Result data discovery via Services4EO exploitation platform using web based access point **Portal4EO**

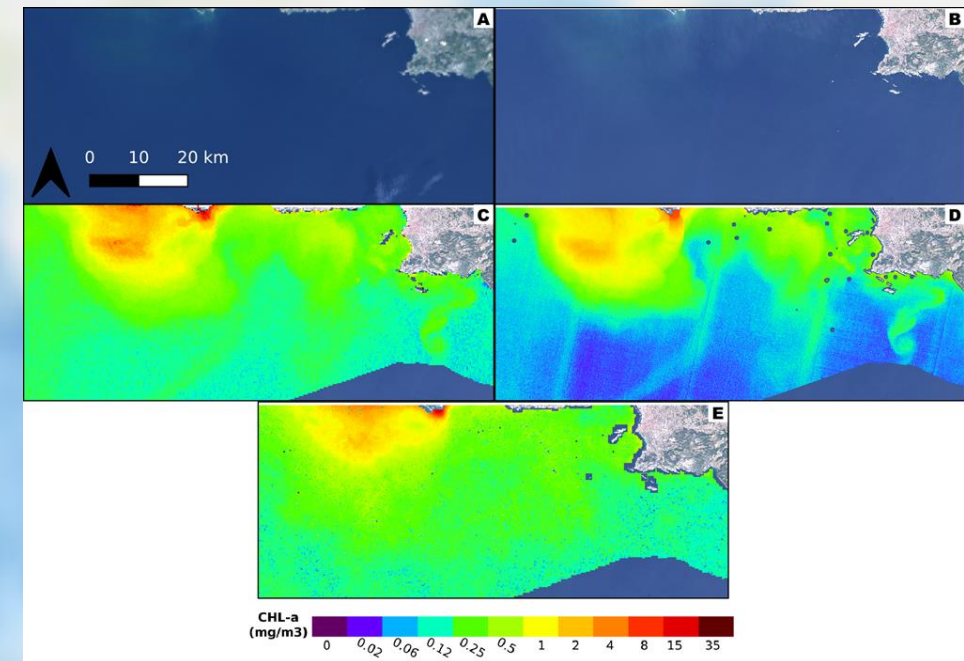


NoR provided IaaS resources used for data production regarding:

- **direct products** derived from S2 and S3
- **data fusion and gap filling** products
- **Indirect products** derived from direct products

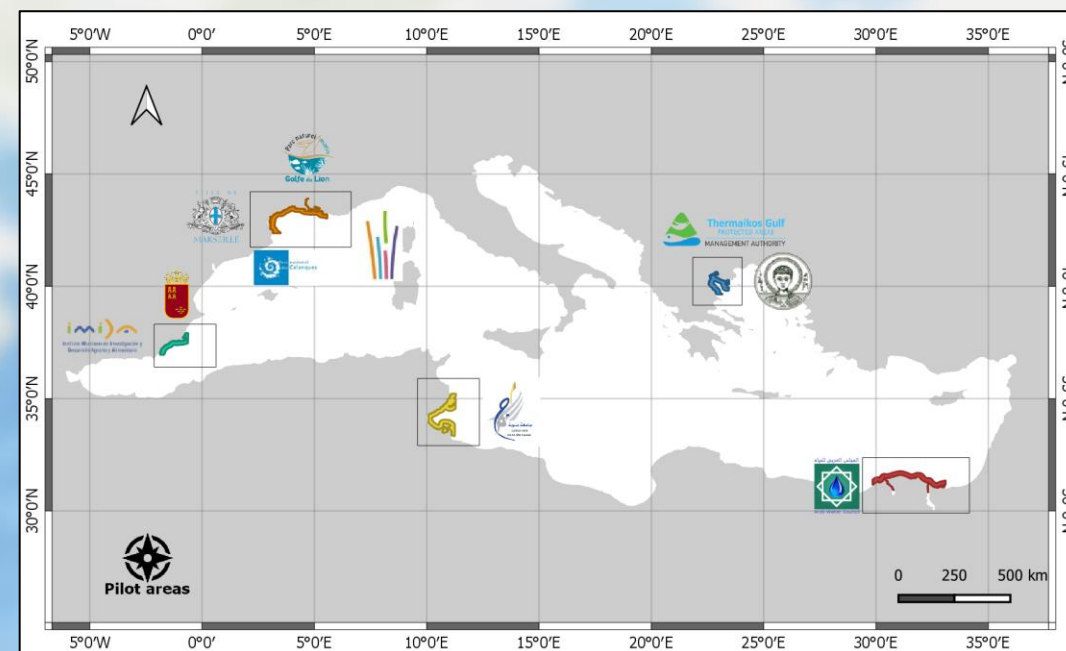
Two exploitation phases:

- AIV and proof of concept
- Production phase



Data results over 5 pilot areas
(France, Greece, Spain, Egypt and
Tunisia) providing **parameters** for:

- **Coastal water quality monitoring**
 - **Pollutants discharged by rivers**
- Impact** caused by results gathered from each pilot area relevant **end-users**.



- Production of peer reviewed publications to be released mid 2024.
- Presentation of MedEOS in 2023 Living Planet Symposium and EC-ESA joint Earth science initiative.
- MedEOS conclusions to be presented on IGARSS 2024
- Potential users that shall benefit from MedEOS include public authorities, municipalities, managers of marine protected areas and many others.

