



WP6 - Data management and services

Peter Thijsse (MARIS), Gert-Jan Schotmeijer (Deltares)

Kickoff presentation 28/3/2024



LandSeaLot has received funding from the European Union's Horizon Europe Framework Programme for Research and Innovation under grant agreement No 101134575. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.



Introducing WP6

- Partners involved
- Objectives
- Tasks, deliverables & milestones
- Links with other initiatives
- WP6 actions/priorities for M1-M12

Discussion



WP6 introduction

Partners involved



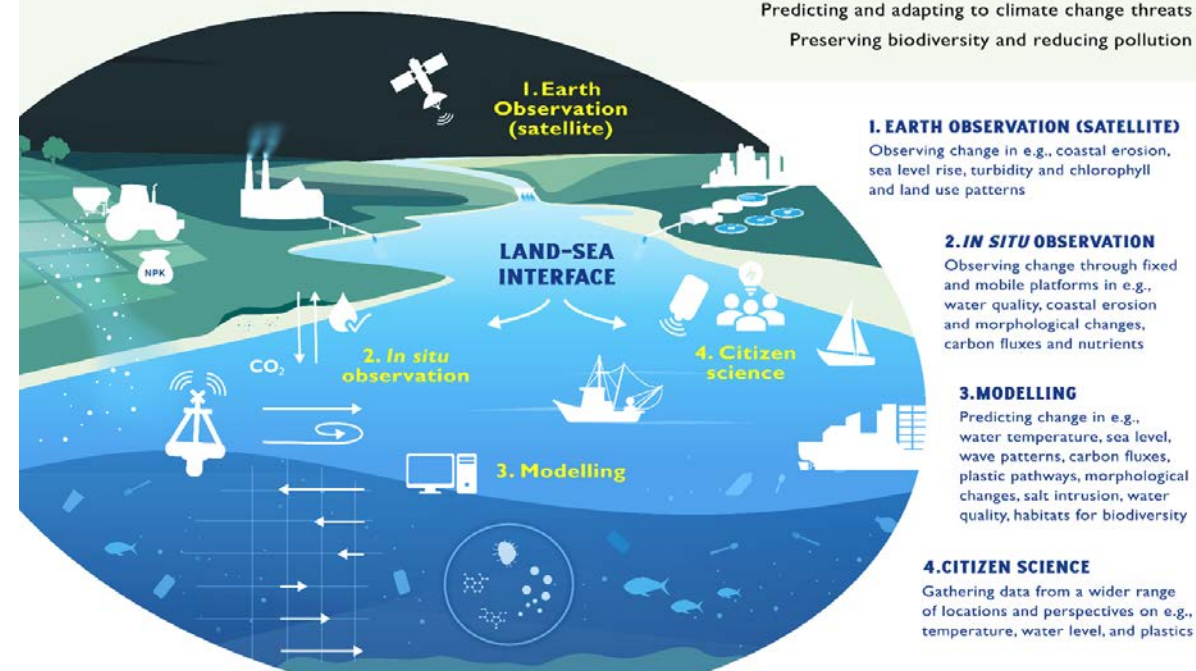
Introducing the partners (ordered by effort):

- Deltares (16 PM)
- MARIS (13.6 PM)
 - subcontractor NOC-BODC (approx 6 PM)
- ETT (13 PM)
- +Atlantic (6 PM)
- SMHI (6 PM)
- GeoEcoMAR (5 PM)
- IFREMER (3 PM)
- HCMR (3 PM)
- Covartec (1 PM)
- PML (1 PM)

REDUCING GAPS IN ENVIRONMENTAL OBSERVATIONS AT THE LAND-SEA INTERFACE TO PREDICT SYSTEM BEHAVIOR AND INFORM SCIENCE-BASED MANAGEMENT AND POLICY RESPONSE



Testing the benefits of integrated land-sea observations: Understanding lateral carbon fluxes and marine carbon stocks
Predicting and adapting to climate change threats
Preserving biodiversity and reducing pollution





Following requirements of the LILs we aim to:

- a) support closing observation gaps by **developing interoperability solutions for river data, low-cost sensors and citizen science concepts;**
- b) create a data flow for the involved **river, low-cost sensor and citizen science data into EU aggregators;**
- c) **support semantic data interoperability** in the coastal area from in situ, remote sensing and modelling;
- d) **develop data access and visualisation services** and interfaces to support the work in the Integration Labs.

Tasks, deliverables and no milestones



Tasks

Task 6.1: Analyse data flows metadata, data models (M3-M9), lead SMHI

=> D6.1 Data landscape report M6

Task 6.2: Develop interoperability solutions to international data (EU aggregators) (M9-M42) Lead DLT => FAIR!

Sub-Task 6.2.1 Enabling interoperability and uptake of low-cost sensor data, lead ETT

=> D6.3 Recommended interoperability solutions low-cost sensors M30

Sub-Task 6.2.2 Enabling interoperability and uptake of elevated CS concepts, lead ETT

=> D6.4 Recommended interoperability solutions citizen science M30

Sub-Task 6.2.3 Develop data management solutions to river data, lead DLT

=> D6.5 Overview of data management solutions river data M42

Sub-Task 6.2.4: Develop semantic solutions to support interoperability for integration of existing dataflows (lead MARIS (+subcontract BODC))

=> D6.2 Recommended semantic solutions to support data integration M24

Task 6.3: LandSeaLot data and data product publishing and visualisation (M9-M48). Lead: MARIS

=> Dashboard in Marinas, interfaces on LandSeaLOT portal

= > D6.6 Developed generic data and visualisation services and apps M48



Links exist with all WP's, but the most direct ones:

- **WP3 - Integrated observation and model frameworks**
 - provide the use cases
 - requirements for data management
- **WP4 - increasing observation capacity**
 - alignment of the low-cost sensors in scope
 - status of dataflows
 - involvement in deployments/pilots in LILs
- **WP5 - LILs**
 - requirements for data and visualisation services/interfaces
 - demonstrate solutions (e.g. FAIRness, new data models, data flows) in practice.

Links to other initiatives

The most direct ones:

- **JERICO**
 - Coastal observation gaps
 - Integration of data sources
- **Danubius**
 - FAIR river data
 - Additional semantics
- **EMODNet**
 - Data products, data aggregation
 - strong interest in Low-cost sensors and citizen science
- **SeaDataNet**
 - Metadata formats, directories
 - Vocabularies, NVS
- **Blue-Cloud**
 - marine data infrastructure integration, service alignment
 - Virtual research, virtual labs
- **Copernicus In Situ TAC**
 - Integration of low-cost sensors



DANUBIUS-RI



Blue-Cloud2026

A federated European FAIR and Open Research Ecosystem for oceans, seas, coastal and inland waters



Actions and priorities year 1



Organise ourselves in the WP:

- ❖ WP6 contact persons and mailing list
- ❖ Peter to organise monthly virtual meetings + shared folder

Priority actions (to be discussed):

- ❖ Task 6.1: Analyse data flows metadata, data models (M3-M9) Lead: SMHI, Participants: ETT, MARIS, IFR, HCMR.
 - Analyse the data flow landscape as relevant in the LandSeaLot Integration Labs (LIL).
 - river discharge and load data
 - low-cost technologies
 - citizen science concepts
 - remote sensing.

For each data type two LILs are selected and the data flow for the particular entity, relevant for the specific LIL, will be analysed resulting in a good understanding of what is needed on the data management side to defragment and reduce gaps in environmental observations at the LSI to support data products/knowledge as targeted in the LILs.



Discussion

Let's observe together!

Visit landsealot.eu

Be part of the conversation  



LandSeaLot has received funding from the European Union's Horizon Europe Framework Programme for Research and Innovation under grant agreement No 101134575. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.