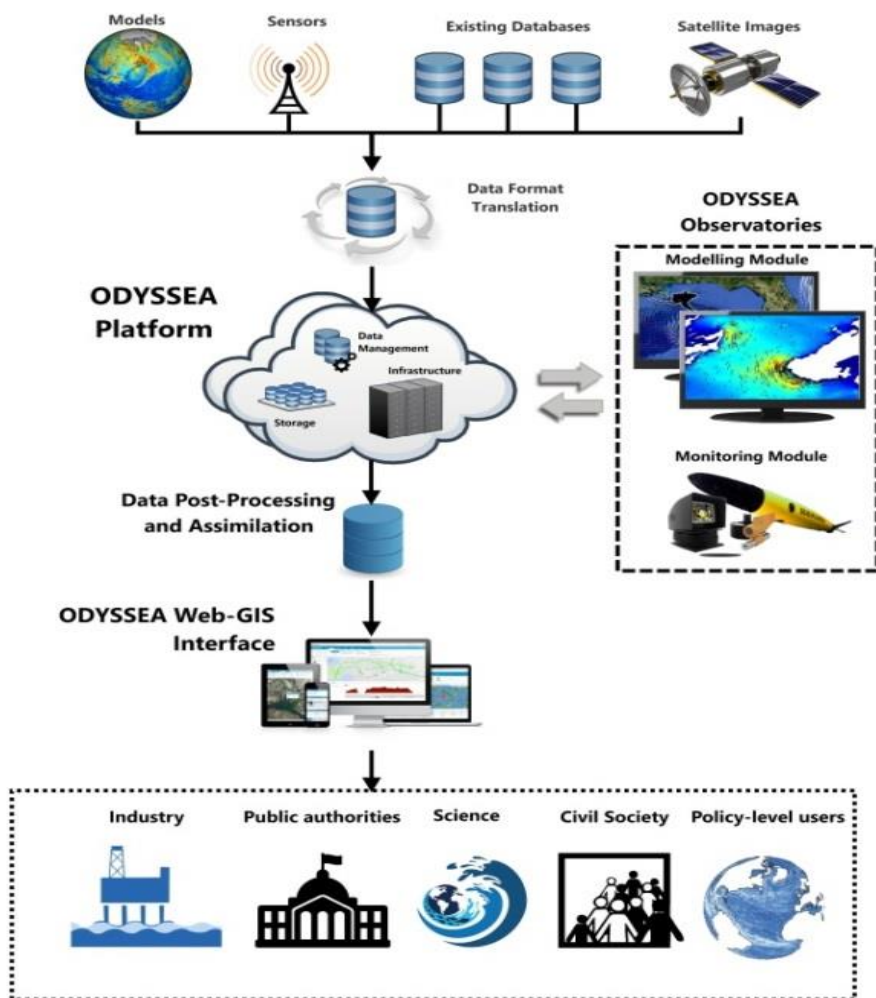




# **ODYSSEA**

## **OPERATING A NETWORK OF INTEGRATED OBSERVATORY SYSTEMS IN THE MEDITERRANEAN SEA**

# What is ODYSSEA ?



ODYSSEA's ambition is to develop an **interoperable, fully-integrated and cost-effective multiplatform network of observing and forecasting systems** across the Mediterranean basin, addressing both the open sea and the coastal zone.

Operational Oceanography project: activity of systematic and long-term routine measurements of the seas and oceans and atmosphere, and their rapid interpretation and dissemination to end-users.

# Existing Operational Oceanography systems for Mediterranean Sea



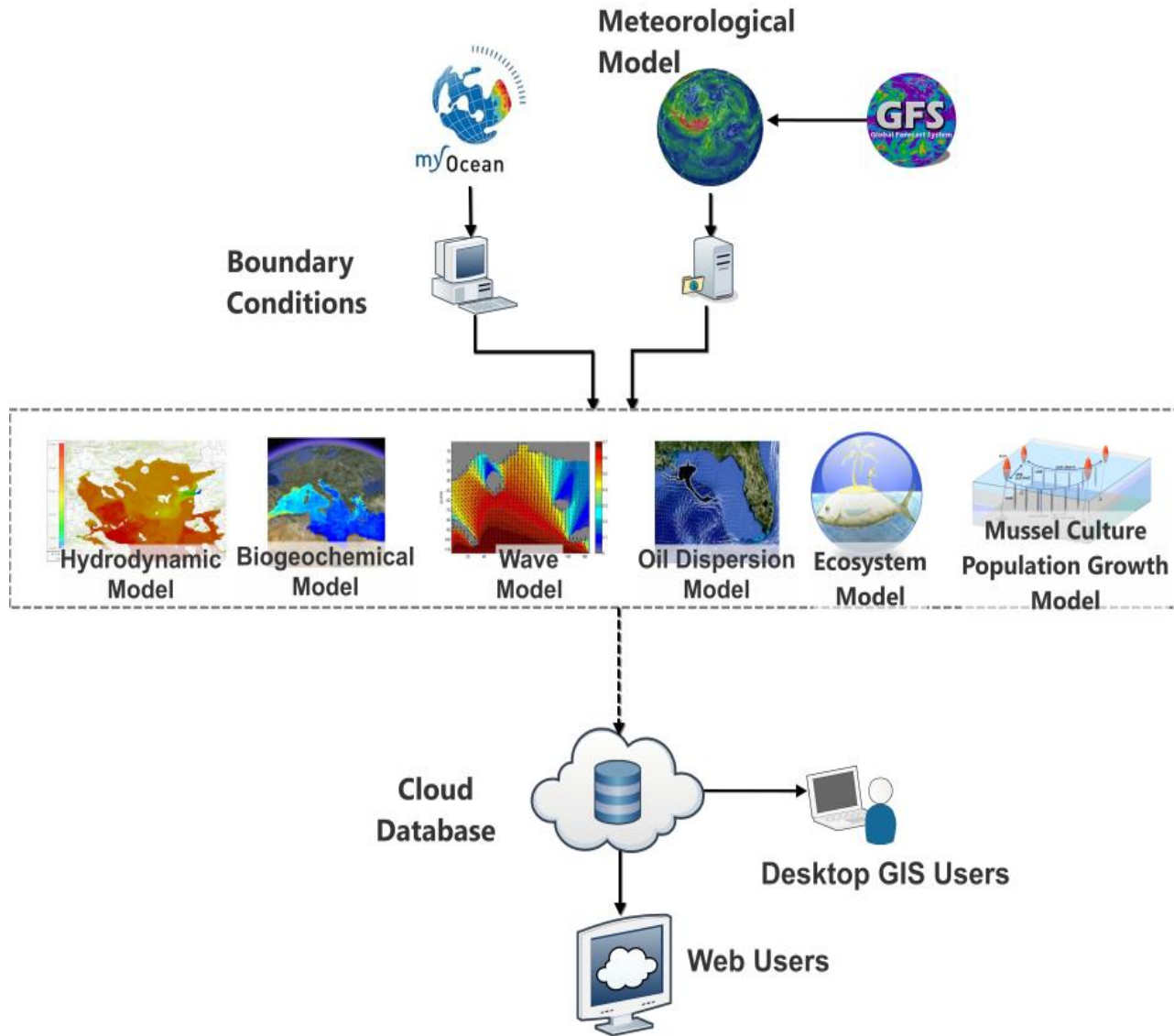
# Existing Systems have Gaps and Inefficiencies

1. Systems are fragmented
2. Inhomogeneous Datasets (formats, types)
3. Difficult to access datasets
4. Data stored and maintained by various agencies
5. In most cases, data access requires authorization by agencies
6. Gaps in datasets, especially chemistry and biology
7. Mostly static data, collected from past cruises, lack in reporting parameters as micro-pollutants, fisheries, etc, limited satellite data, no meteorological data
8. Lack on data transformation to information
9. Datasets are not linked to EU policy instruments
10. Limited end-users involvement and training

# ODYSSEA Elements

1. Search, collect and integrate datasets obtained from an expanded range of existing observation platforms
2. Fill-in data gaps & increase spatial and temporal resolution by establishing ODYSSEA Observatories
3. Develop a prototype 'chain' of models providing data never previously reported
4. Develop novel monitoring technologies to expand parameters range
5. Integrate and focus on biological datasets
6. Combine data to extract secondary indicators
7. Link indicators to EU policies
8. Involve end-users on platform design, data collection and day-to-day operations
9. Train and educate policy-makers and end-users on platform usage
10. Improve professional skills and competences - focus on Northern Africa capacity building

# The Modeling Module for each Observatory



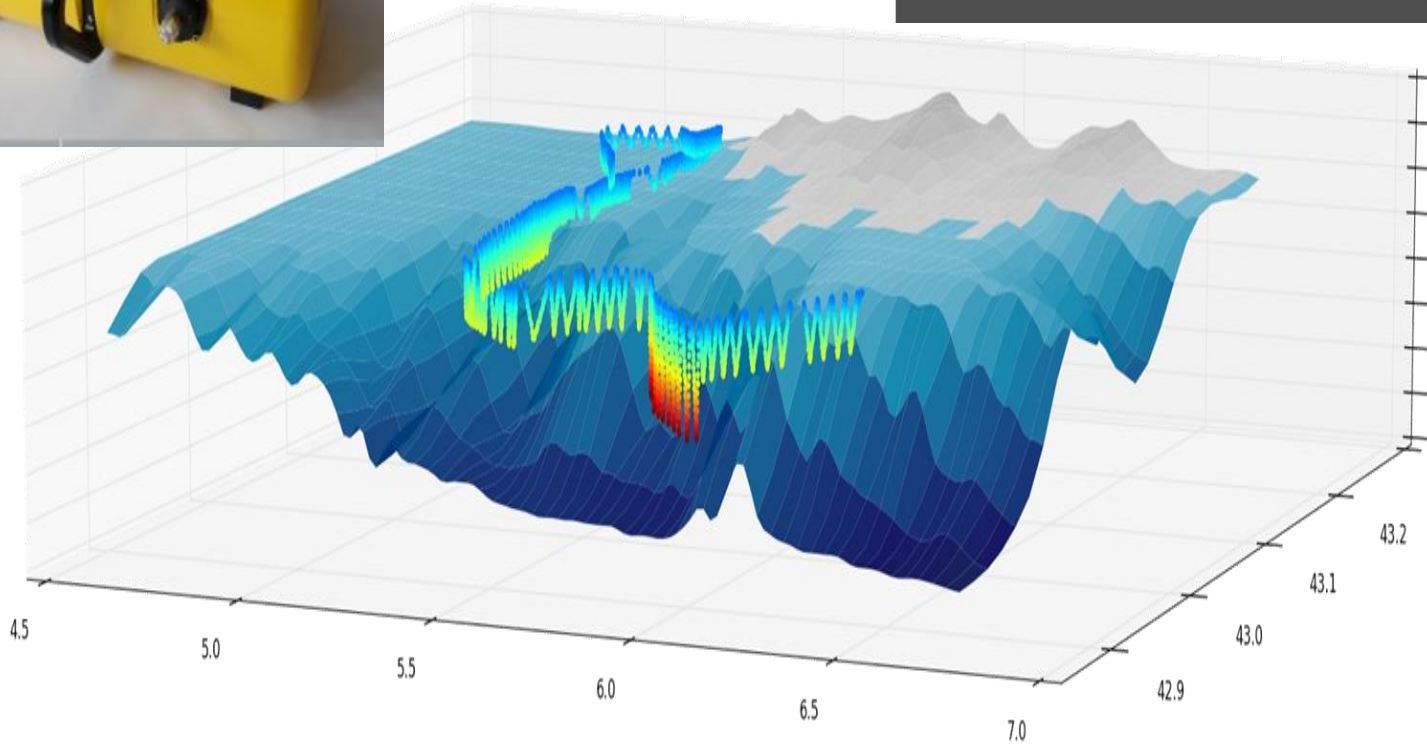
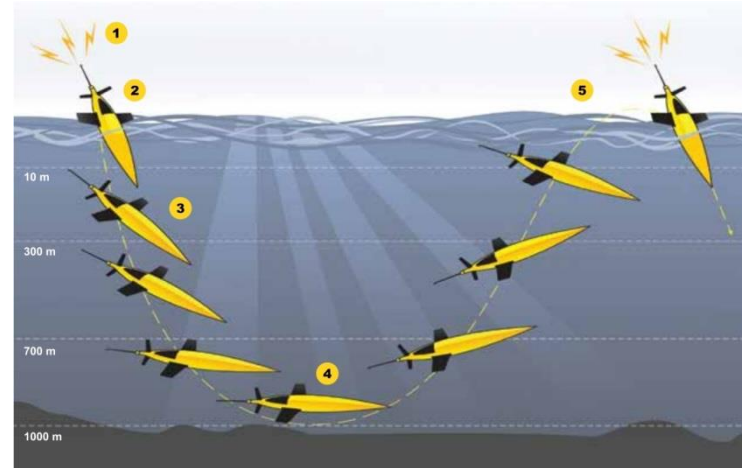


# The Monitoring Module for each Observatory

Static Sensors



Mobile Sensors



# ODYSSEA's Main Novelties

- Both primary data and on-demand derived data services will be made available and accessible through a single command and via a single public portal.
- The system will allow to search, collect, retrieve and integrate datasets obtained from an expanded range of existing observational platforms, networks and systems.
- A set of interactive web tools will be developed for the front-end of the platform to allow the user to visualise both the location of data points (using maps) and the data values (using plots / data visualisation layers).
- To reduce costs, to overcome technical problems with cable technology, and to ensure active participation of end-users on ODYSSEA platform, existing facilities (onshore and offshore), such as oil and gas terminals and rigs, mariculture installations, ports and harbours, will be used to deploy static sensors.
- Gliders will integrate marine microplastics sensor and novel sensors for real-time biological monitoring.
- Operational models will be coupled and running in each Observatory providing forecasts and informing end-users on emergencies and risks.
- Local/regional/national policy-makers and end-users will be trained on the optimal platform usage.



# About Agora Partners

- Consultancy firm specialised in initiating and building partnerships between Israeli and European entities
- Building Consortia
  - Building partnerships that add value to the company
  - EU-wide networking
- Submit Proposals
  - Identifying opportunities matching strategic objectives
  - Assist, advise and participate with you in initiating, preparing & submitting a successful proposal for EU grant
    - ✓ Success rate of around 20%
    - ✓ Raised more than EUR 50M (and counting)
- Manage Projects
  - Participate in the consortium management & project implementation

# Services

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  - **Building partnerships that add value to the company**
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Thank You

תודה רבה

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