

Earth Observation-Driven Solutions for Sustainable Tourism and Leisure activities in the Blue Economy

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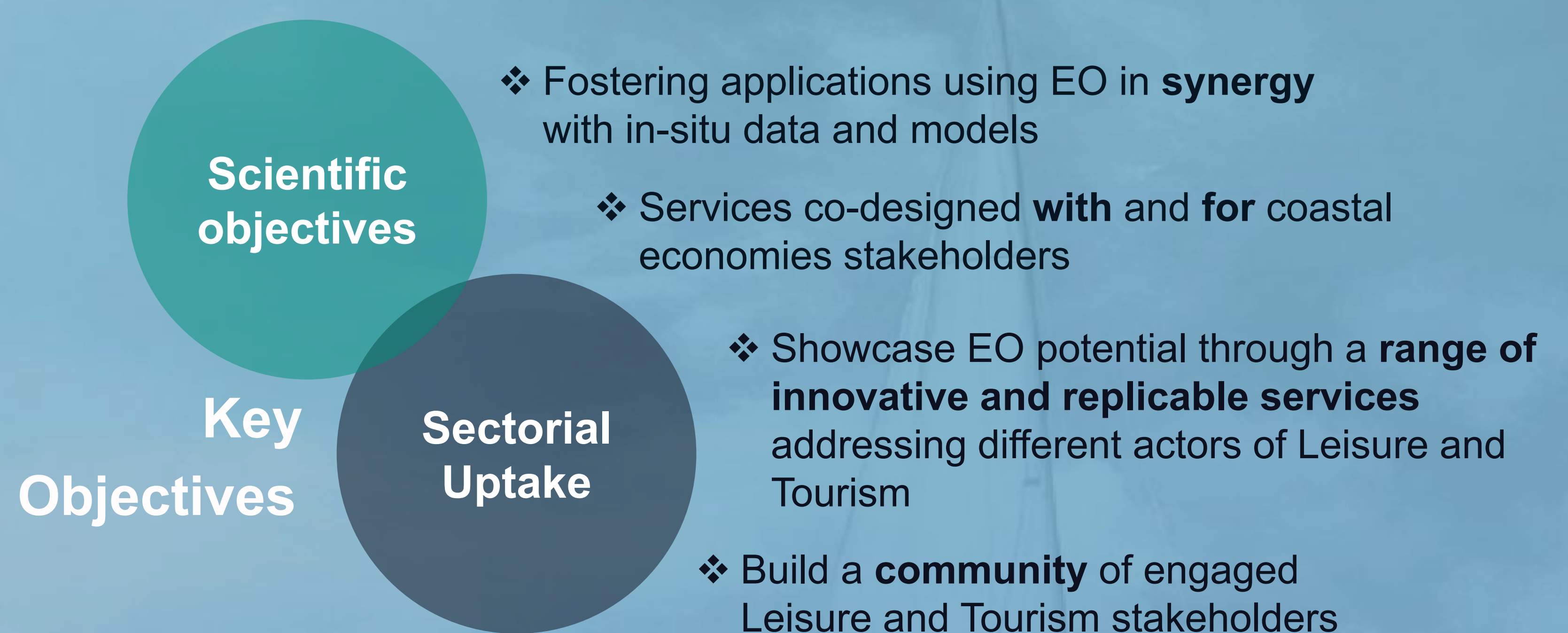
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BLUERISM aims at building, with coastal tourism and leisure actors, solutions dedicated to promoting a long-term balance of economic benefits, social inclusion and environmental sustainability.

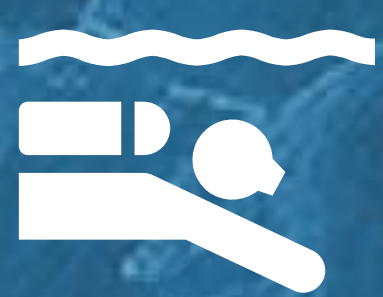
Coastal and marine tourism represent at least **50%** of global tourism (Ocean Panel)

The main outcome of the project is to **impulse strategies and practices** leading to a sustainable and environment-friendly tourism and leisure.



Building the solutions

Water sports



Hotels & Resorts



Beach managers



Municipalities



Authorities



Coastal mariners



Macroplastic Monitoring for Public Awareness

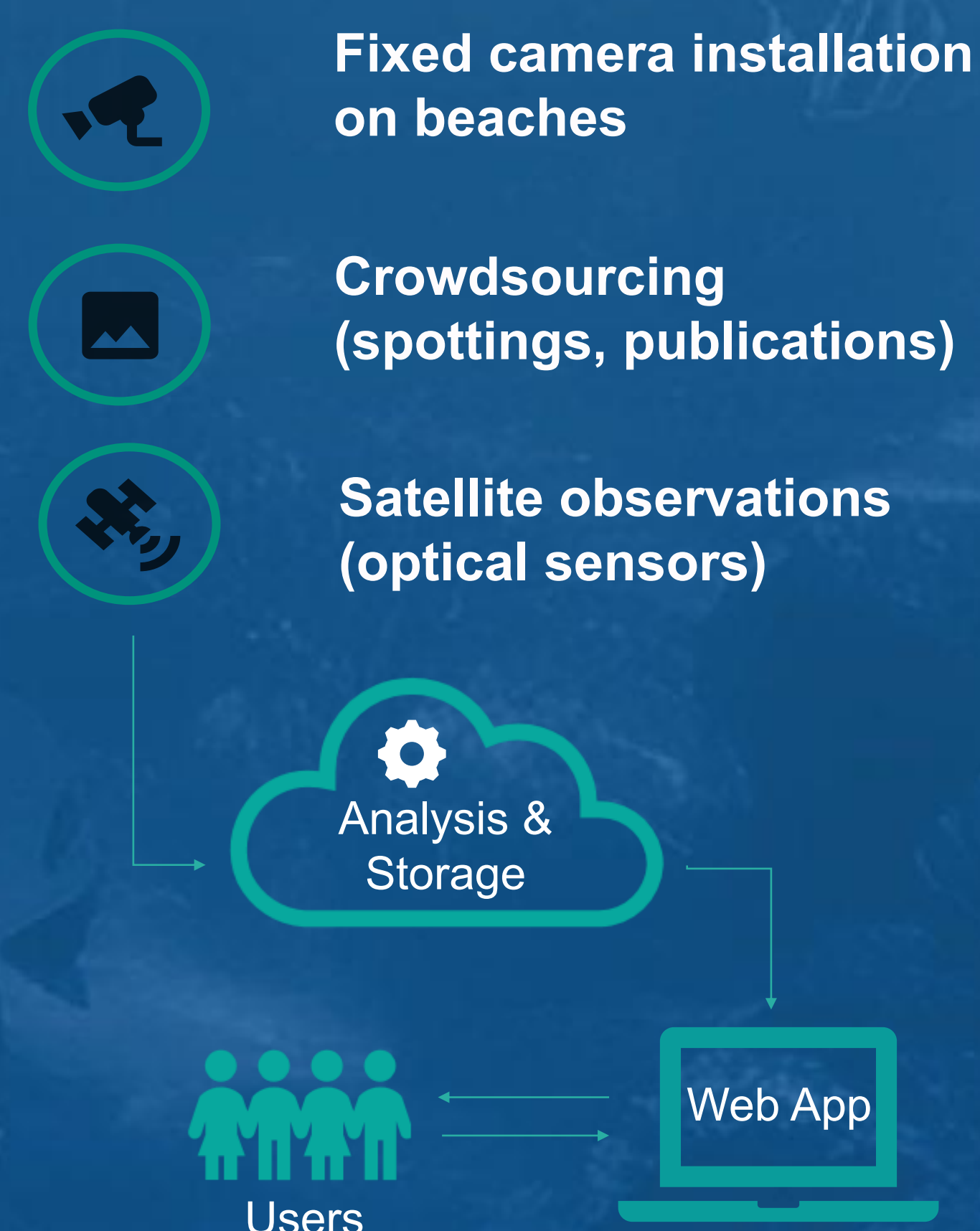
Genoa, Italy

- ❖ **Multi-source data fusion system** integrating Earth observation with CCTV cameras and crowdsourcing
- ❖ **Management and prevention tool** for public authorities, raising awareness and ensuring more effective management of plastic waste

Where Beaches and costal zones

What Macroplastic on beaches and water quality of coastal waters

How Multi-sensor approach

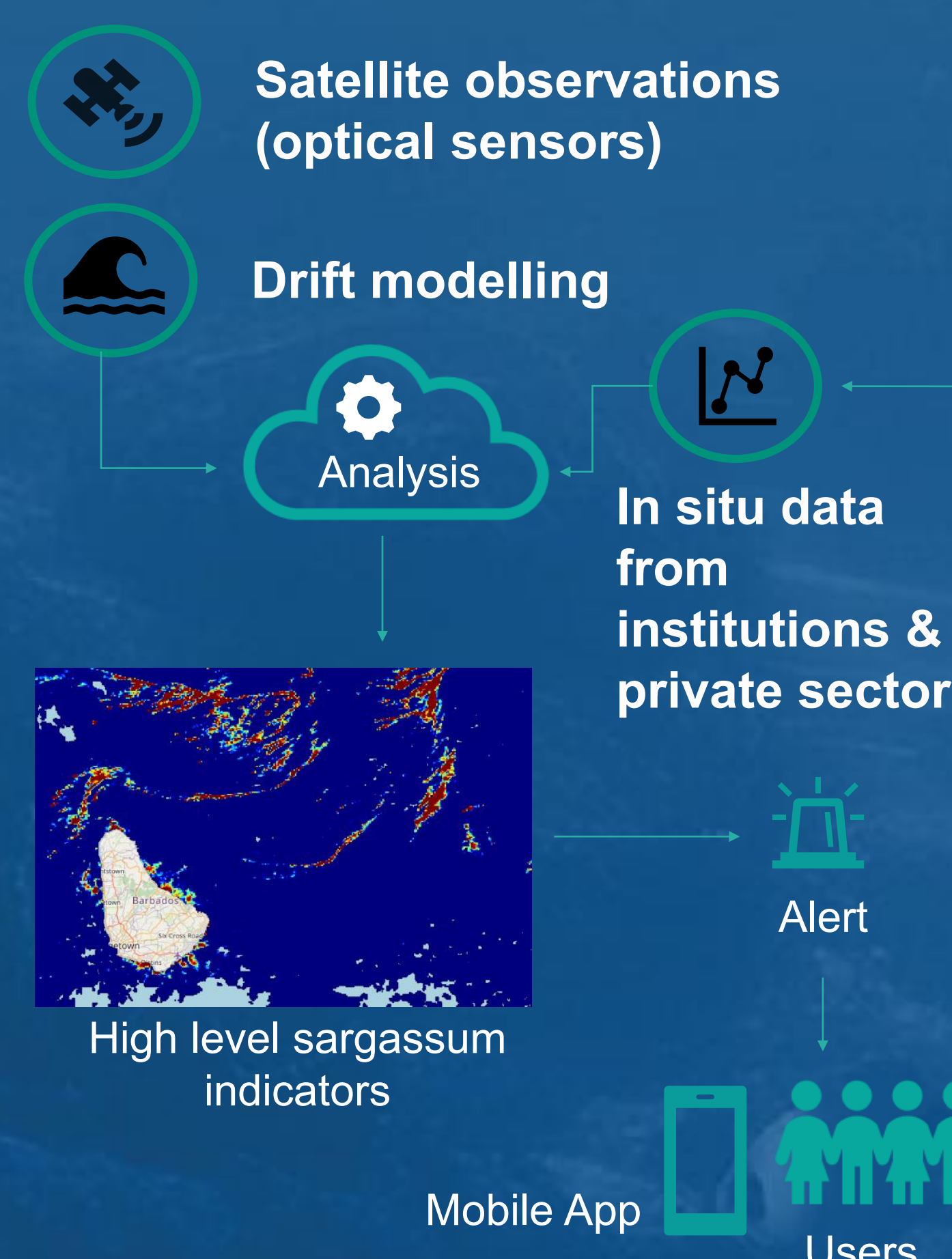


Use Cases Specifications

Sargassum Alerts for Beach Preservation

Barbados & Caribbean Islands

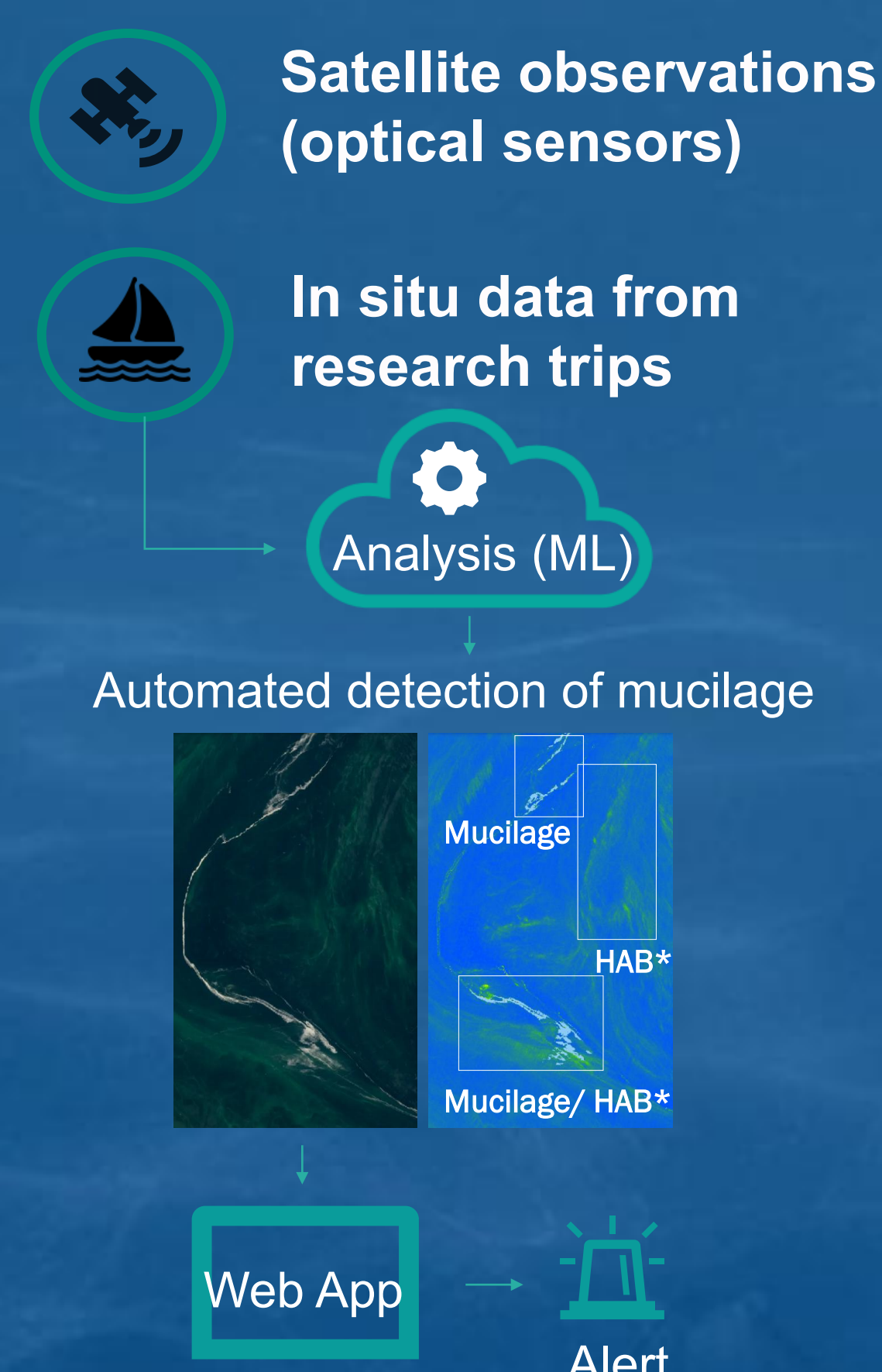
- ❖ **Alert system** enhancing the ability to detect, model and predict sargassum movements
- ❖ **Actionable insights** tailored for local authorities and hospitality businesses: presence, volumes, predicted landings



Mucilage Detection & Alert

Adriatic sea, Italy

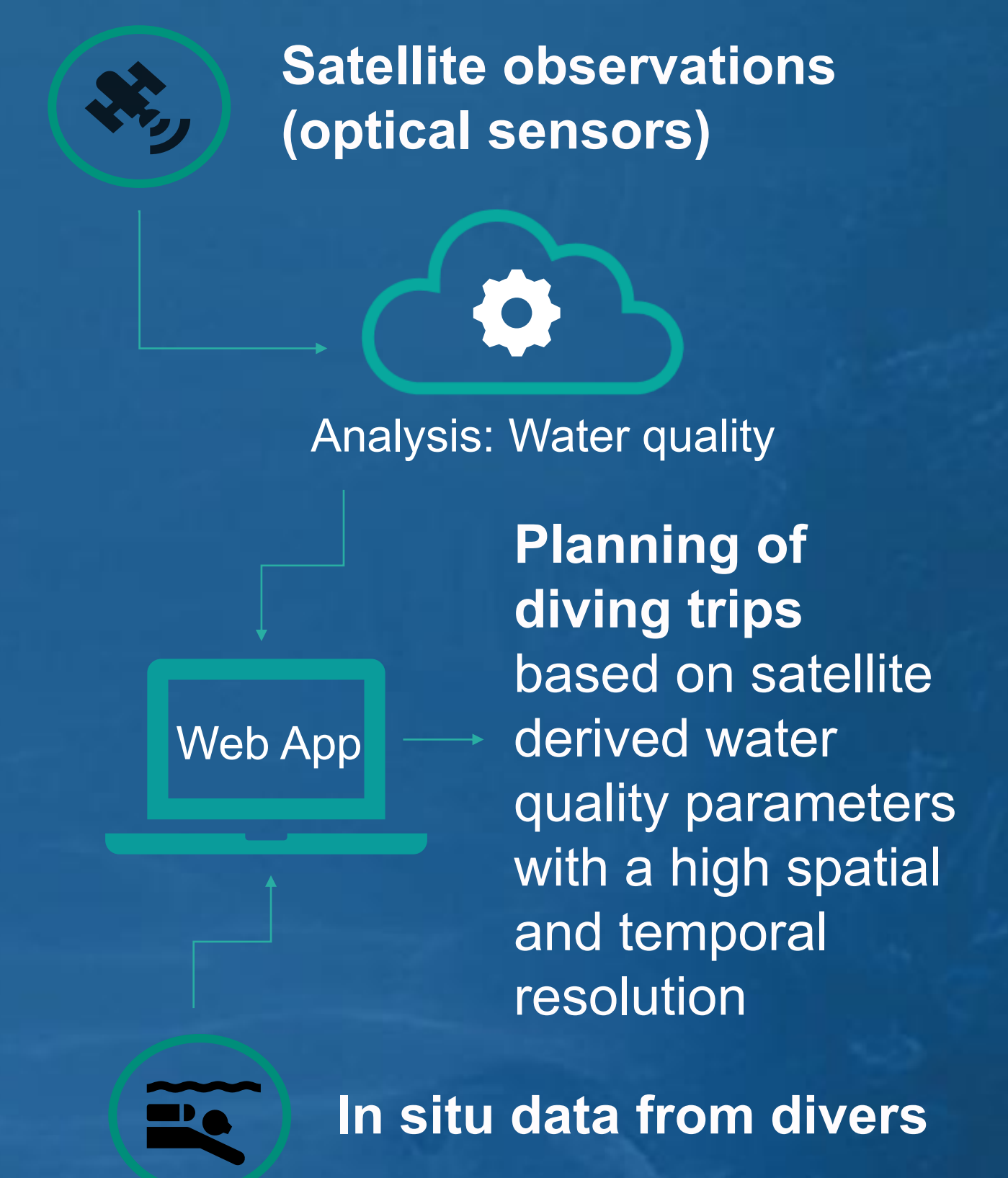
- ❖ **Alert System** improving the ability of local authorities to implement management measures
- ❖ **Earth-Observation based Near Real-Time monitoring of mucilage** to support resilience and manage the associated environmental and economic risks



Water Quality Monitoring for Underwater Activities

Baltic Sea, Germany

- ❖ **Decision support tool** for divers, providing accurate and real-time monitoring of diving conditions
- ❖ **Data driven assessment of underwater conditions** based on water quality parameters derived from high resolution satellite images



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