

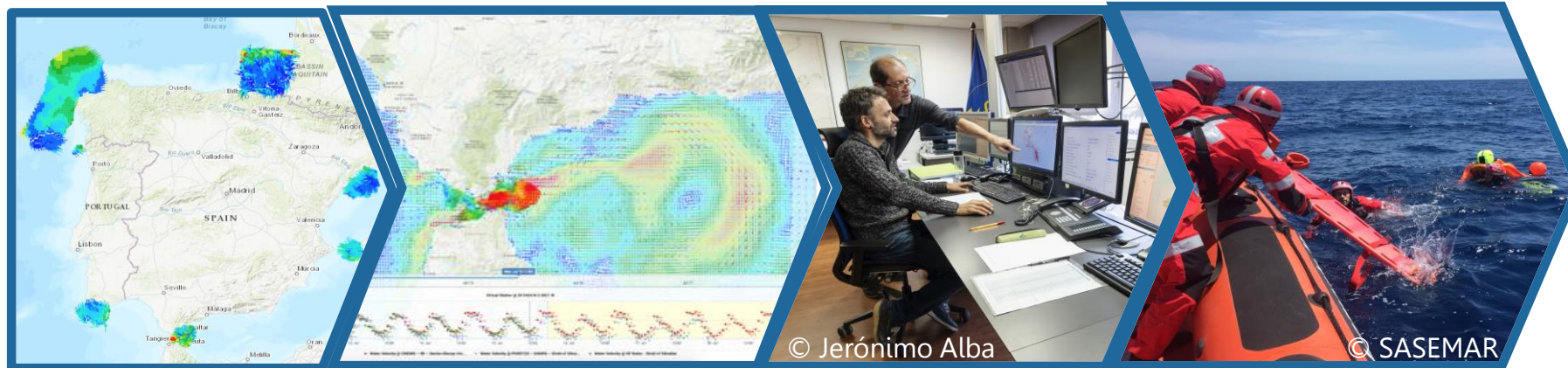
OCEAN AND ENVIRONMENTAL TECHNOLOGIES AND SERVICES

Part 1 : Ocean Focus

Wednesday 20 October
9:00 AM to 01:15 PM



IBISAR service: Supporting operations and emergency response at sea



Emma Reyes Reyes (Head of HF radar Facility, SOCIB)



Impact of the major disasters

Prestige oil tanker oil spill (Spain, NOV 2002)



1.6 bln. €

Offshore oil rig Deepwater Horizon (Gulf of Mexico, APR- 2010)



US\$ 18.7 bln.

▲ Photo: by U.S. Coast Guard via Getty Images

◀ Photo: by [Miguel Riopa](#) / AFP

Increase society awareness



Op. Oceanography starts in Spain



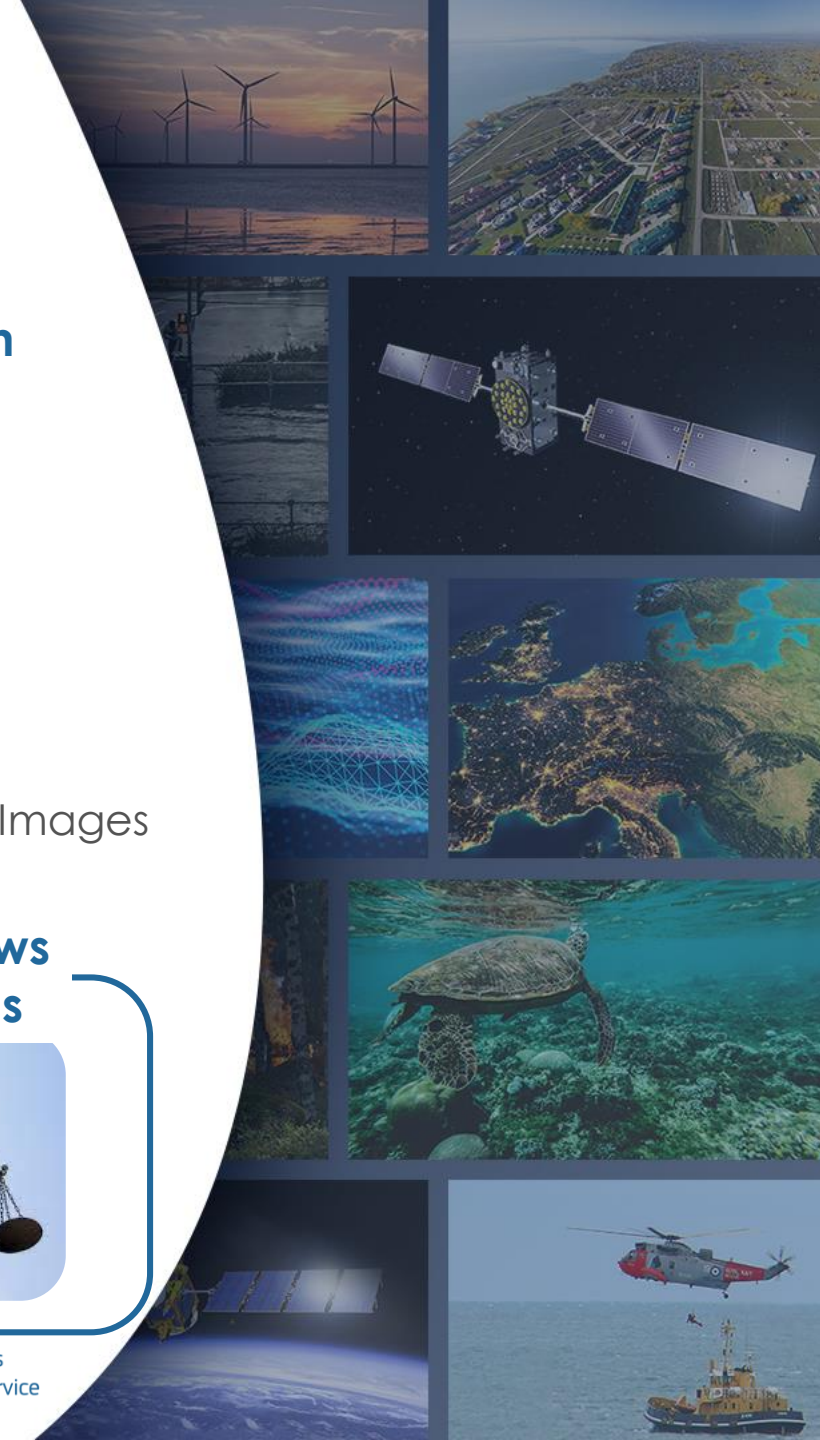
24

partners

4 M€

budget

Change in Laws & Regulations



IBISAR: market and users

Markets:



COASTAL
MONITORING



SAFETY
& DISASTER

Geographical areas:



IBERIAN-BISCAY
-IRISH
REGIONAL SEAS



- Why?
- What?
- How?
- Benefit?

End users need **reliable** ocean current predictions
View, compare & assess model skill
 Guide users to select the **most accurate** ocean forecast
 Facilitate **decision-making** at sea

IBISAR

End users targeted:



SAR
operators



Maritime
traffic

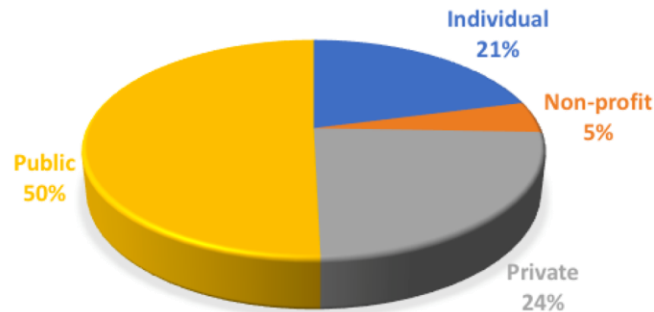


Modellers

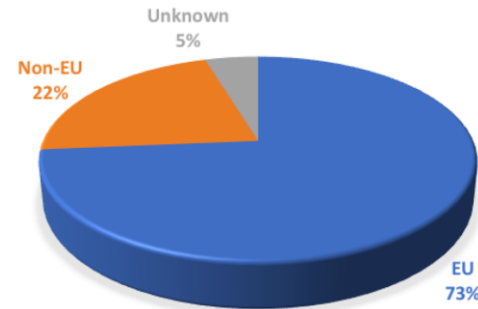


Emergency
responders

Organization Type



Organization Country



Condition of use and accessibility: **freely accessible** under registration on www.ibisar.es

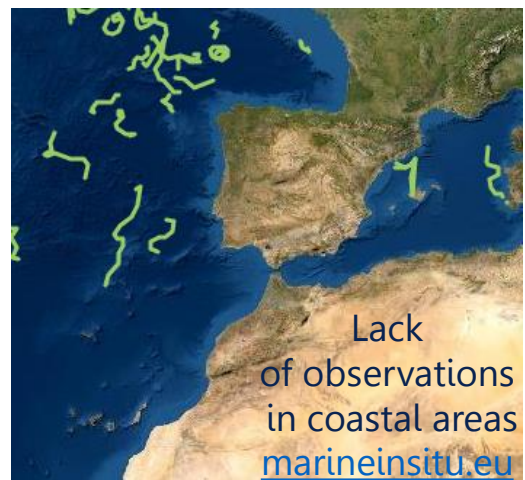
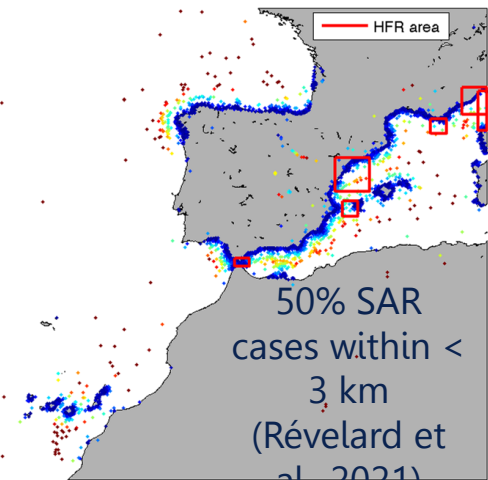
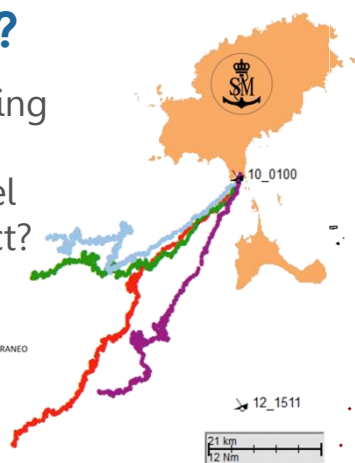


IBISAR: elements & methodology

Why IBISAR?

Broad & growing portfolio:
Which model should I select?

- COPERNICUS IBI
- COPERNICUS MEDITERRANEO
- WMOP ROMS
- HYCOM GLOBAL NAVY
- BAHAYA



3 elements

Catalogue

IBI region

In-Situ

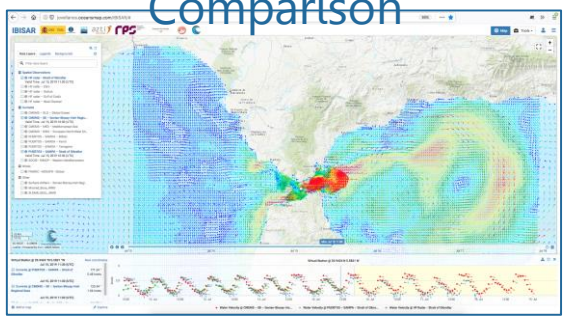
8 Models

Drifters [IBI]

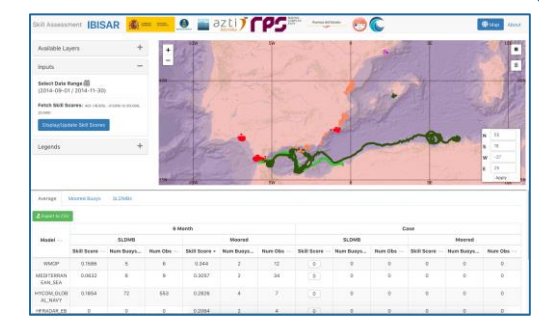
6 HF radars

Surface current forecast

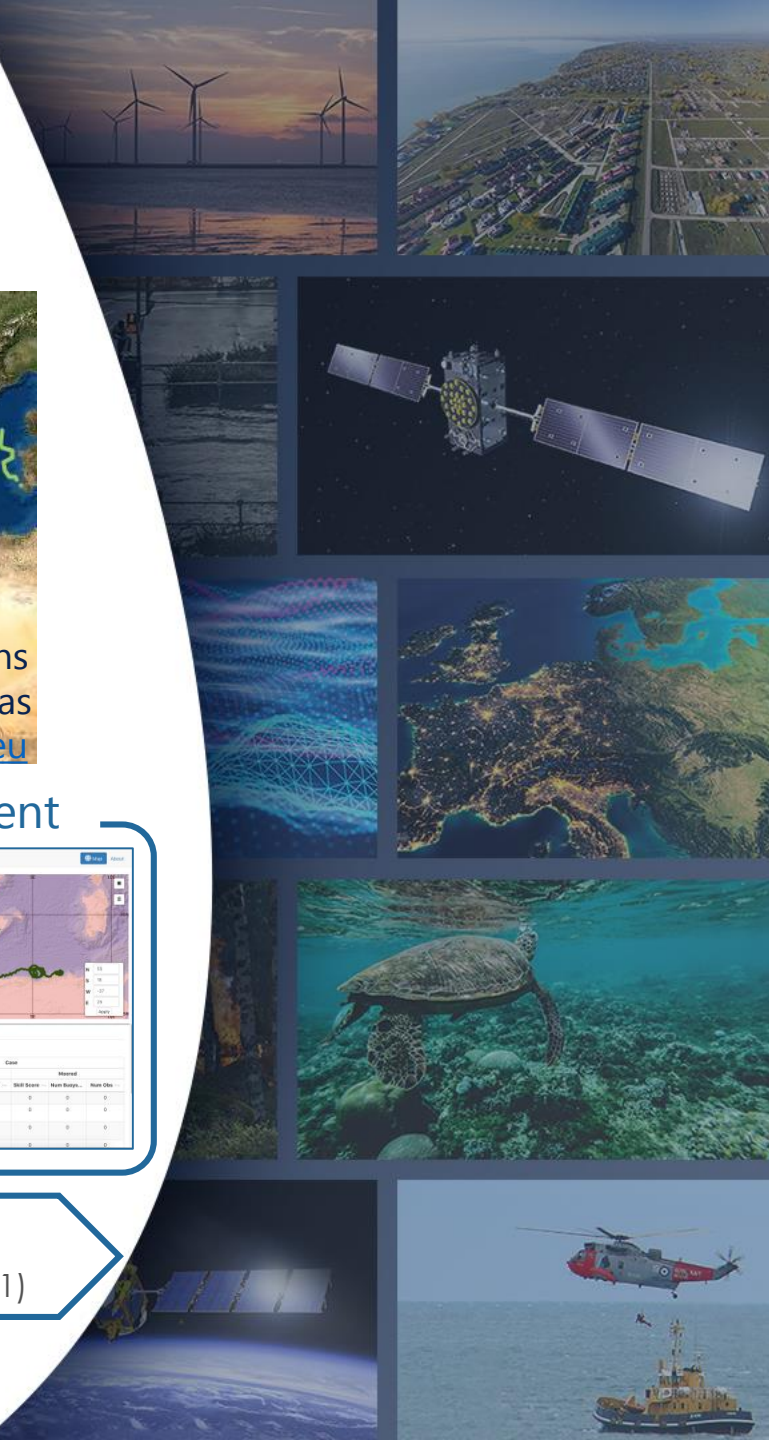
Visualization & Comparison



Skill Assessment



3 steps



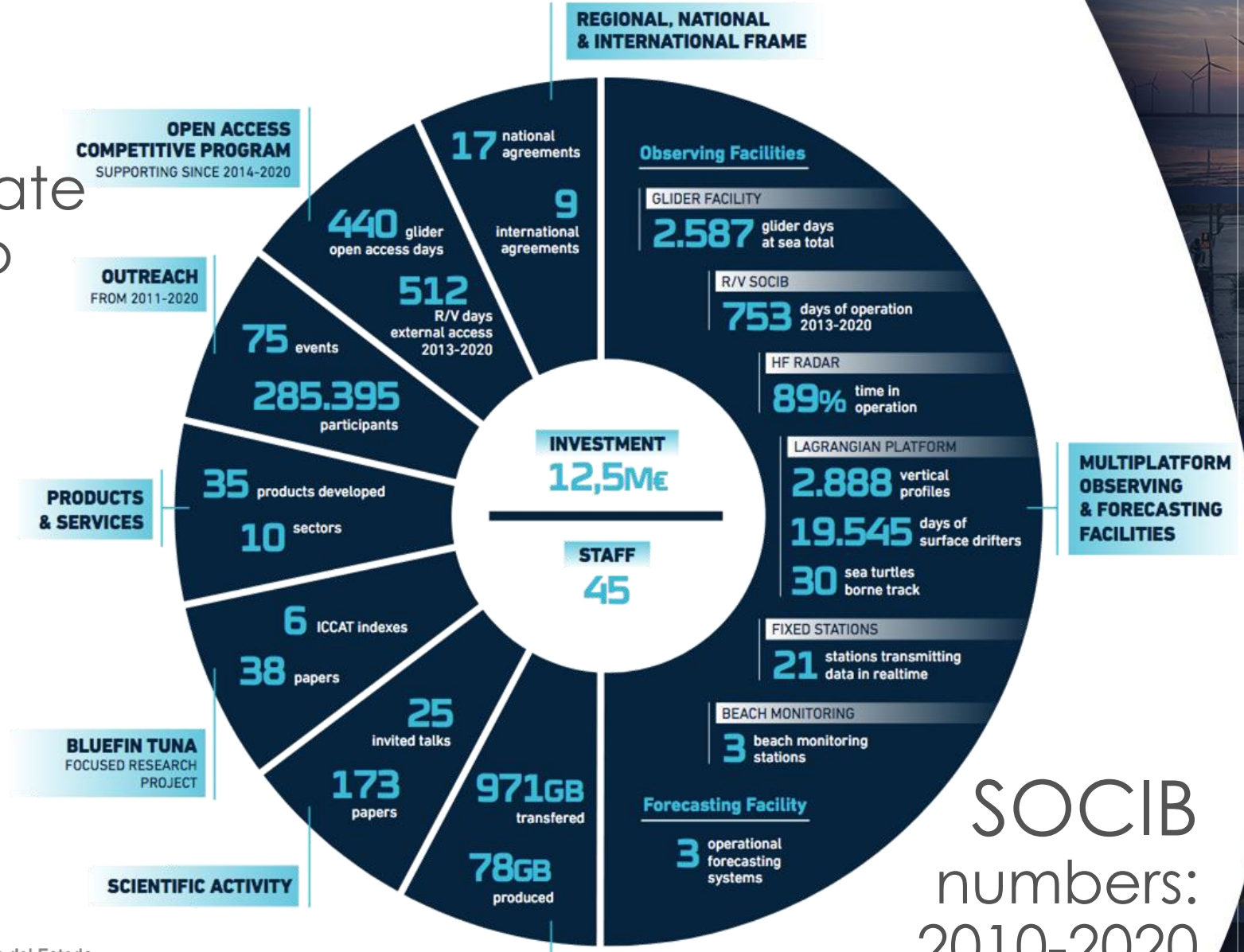
IBISAR: Public-private partnership

Coordinator:
SOCIB Balearic Islands
Coastal Observing
and Forecasting
System

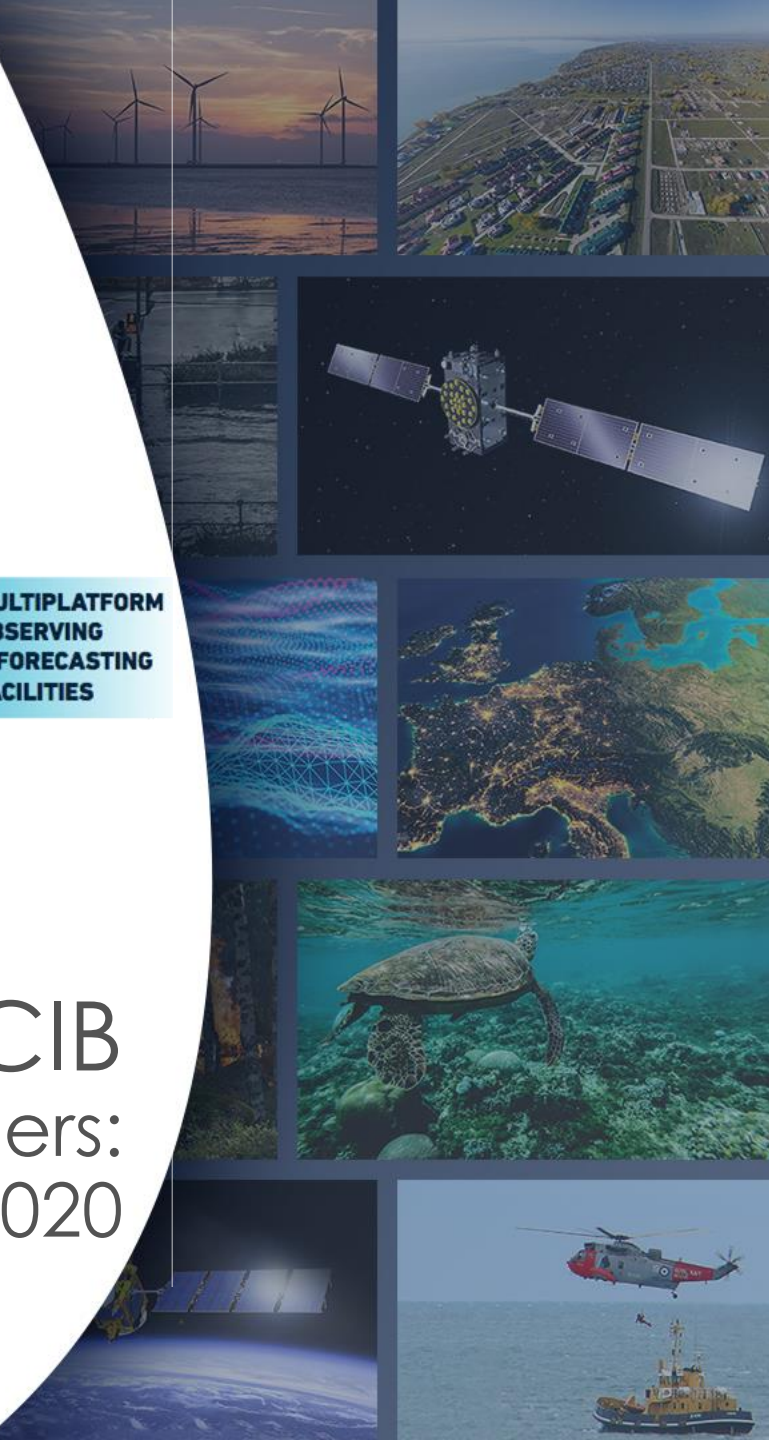
Co-contractors:
RPS **AZTI**
MEMBER OF
BASQUE RESEARCH
& TECHNOLOGY ALLIANCE

Collaborators:
GOBIERNO DE ESPAÑA
MINISTERIO DE TRANSPORTES, MOVILIDAD Y AGENCIA URBANA
Salvamento Marítimo

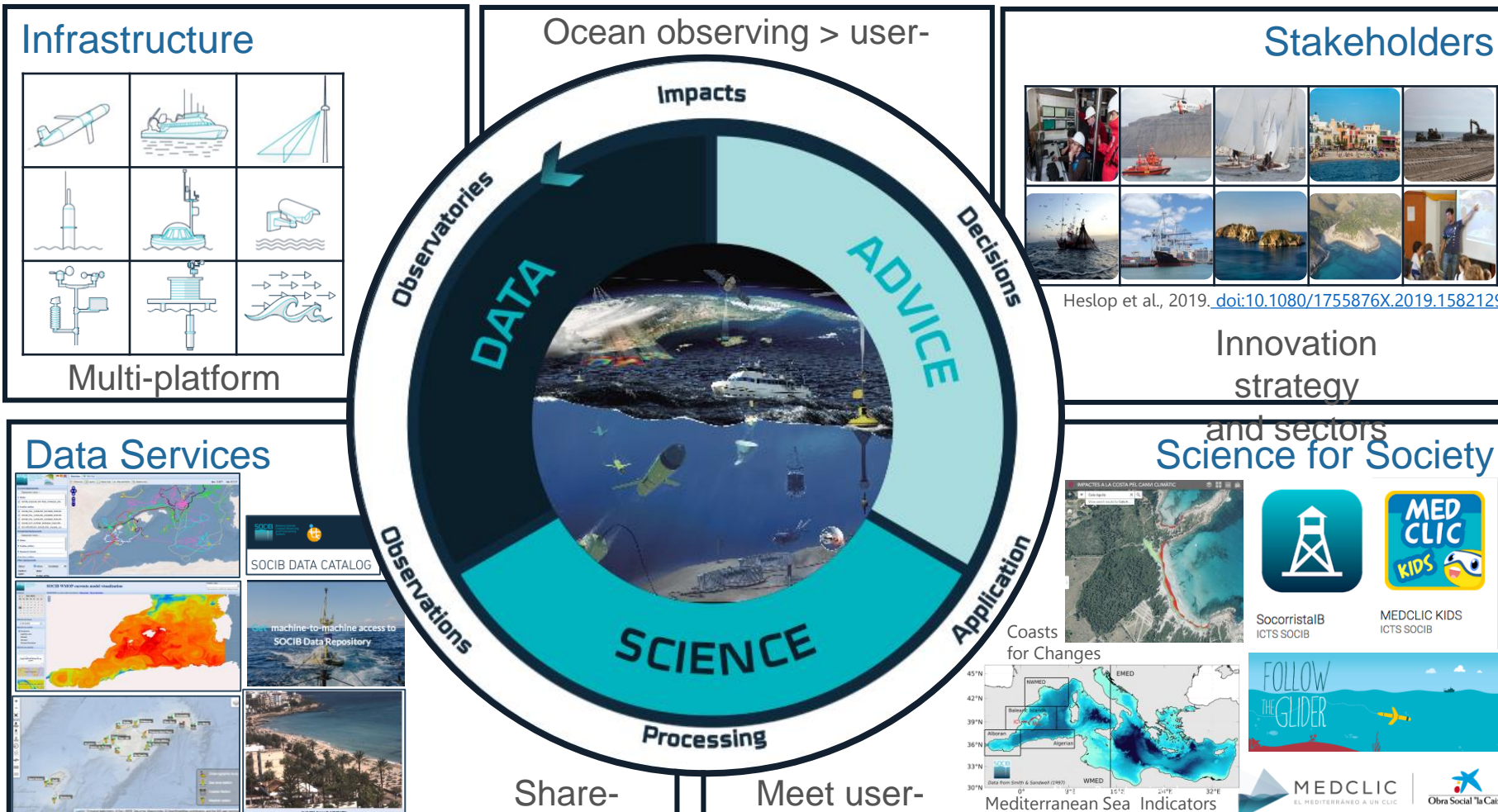
GOBIERNO DE ESPAÑA
MINISTERIO DE FOMENTO
Puertos del Estado



SOCIB
numbers:
2010-2020



SOCIB: Operational monitoring, data and services for ocean health and climate



Science excellence with impact in the society



Benefits for our end users

-  Regularly **updated catalogue**
-  **Easy** interpretable **metrics**
-  **Single** access **point**
-  Minimize **response time**
-  Allocate **resources** effectively
-  Optimize **search area** planning
-  Support **preparation** of response at sea

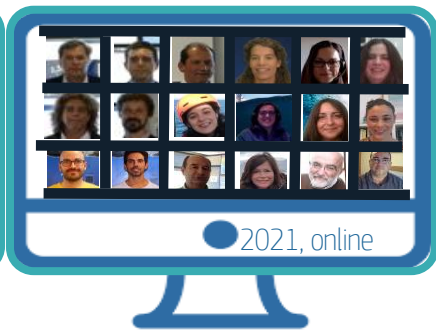
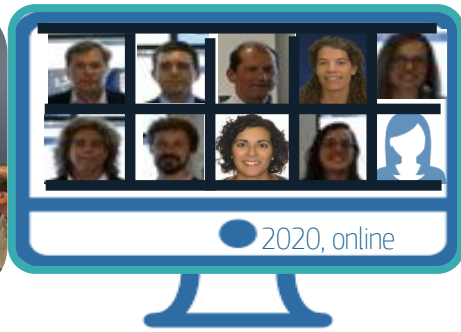


End-user engagement

Participation in training activities with SASEMAR



Celebration of annual meetings with SASEMAR



SOCIB Outreach activities: general public



Open Days



Science fairs



Exhibitions



Educational materials



SOCIB's strategy 2021-24

3

DRIVERS

6

OBJECTIVES

24

STRATEGIES

112

OUTCOMES

157

INDICATORS

Our
VISION

- To become a **strategic marine infrastructure** in the field of marine **R&D&I**, nationally and internationally recognized in the **observation** of the **Mediterranean Sea and the global ocean**

Future
INVESTMENTS

- To **renew, enhance and extend** SOCIB's **technical capabilities** to keep ensuring the highest level of **scientific excellence** with **impact on society**.

Contacts

SOCIB & IBISAR



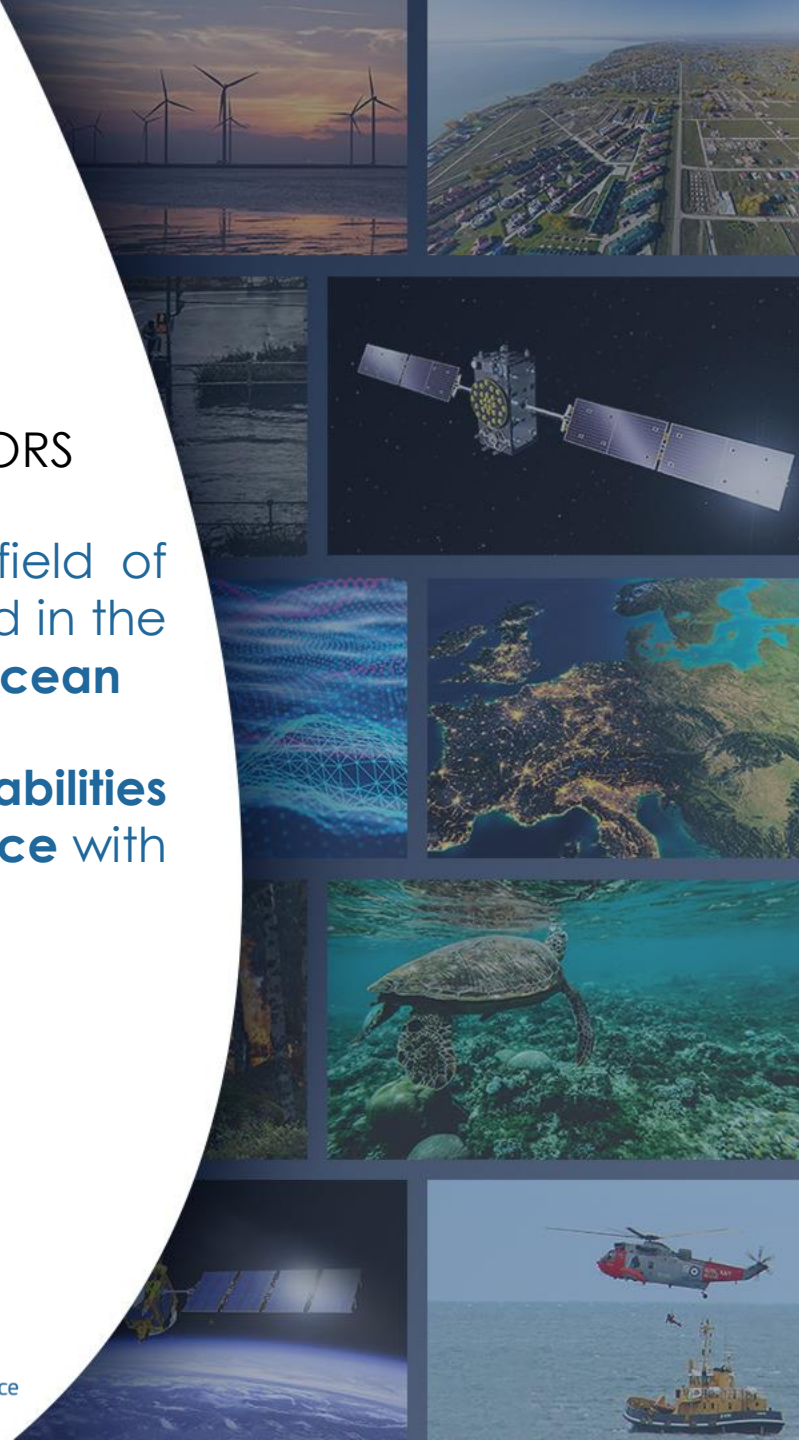
info@socib.es



ibisar@socib.es



servicedesk.cmems@mercator-ocean.eu



Thank you very much
for your attention

