

4th June 2025, Nice

LEAD PRESENTER:

Aldo Drago, Malta College of Arts, Science & Technology

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And

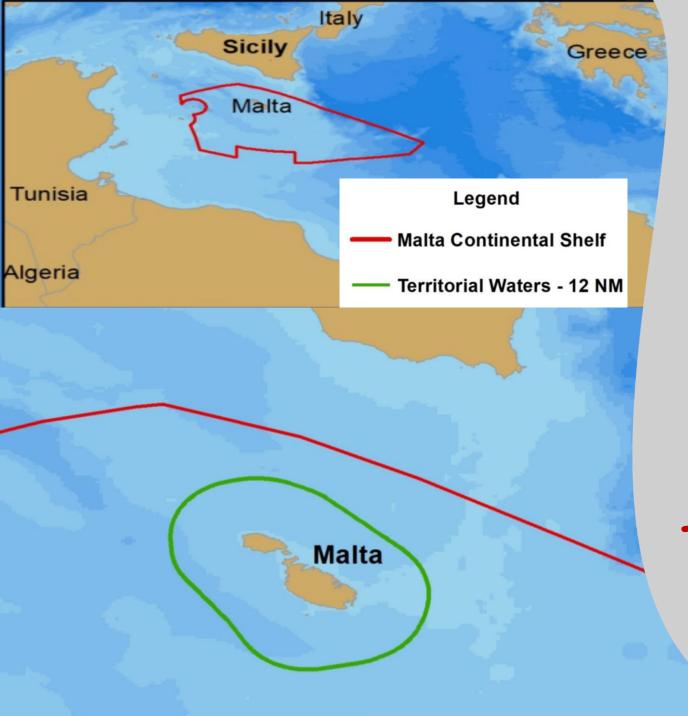
John Schembri, Malta Meteorological Office

Patrizia Patti, EcoMarine Malta

Adam Gauci, University of Malta



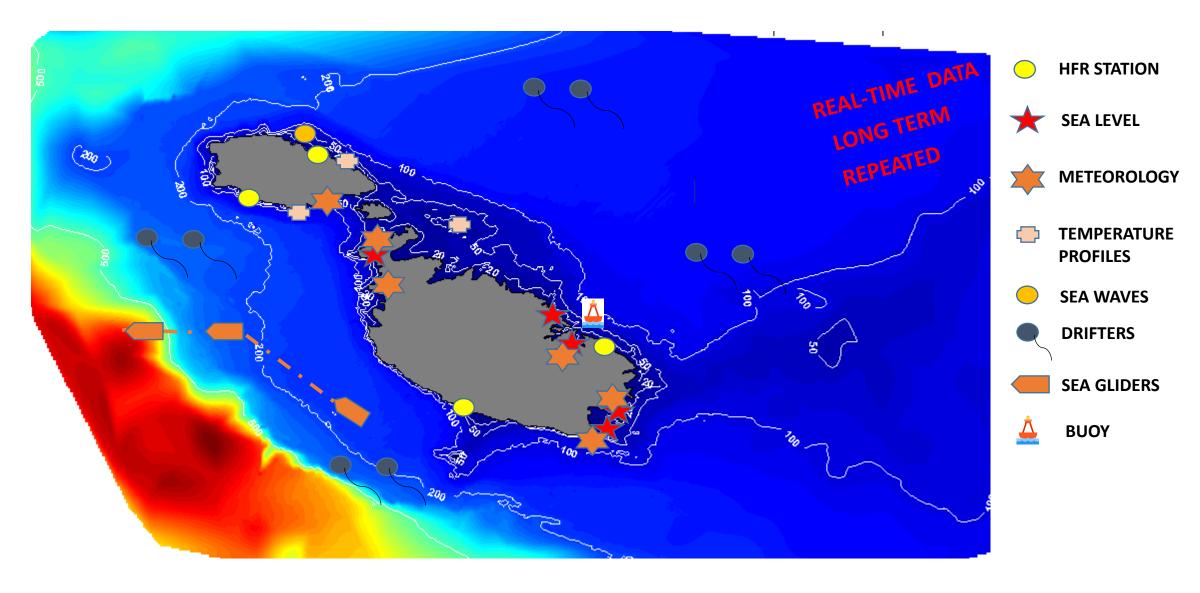
monitor the Ocean?



## THE MALTESE ISLANDS CHALLENGE OF A SMALL ISLAND STATE

Up to 12 nm the territorial waters are 14 times the size of the land

formidable challenge to measure, monitor and manage coastal waters



**EXPERIENCE WITH MARINE OBSERVATIONS IN THE MALTESE ISLANDS** 

#### **NEW CONCEPT FOR DIGITAL SERVICES**

View & Get data on popular media

Added value derived data

Simplified system without losing quality and value

Free, on-demand and individualised service

Alerts on personal threshold exceedance/subsceedance

Operational and climatological data

Easy data formats







**The Project** 

The Team

**Products** 

**EO Links** 

News

Promo

Stream App

### www.stream-srf.com

# Exploiting Earth Observations to Benefit Society

Satellites are not just for research – they cover data at each point on earth, on land, at sea and in the atmosphere, monitoring change and delivering applications and services to society.

01



Look for





STREAM THINK Malta





STREAM SRF

**Exploiting Earth Observations to Benefit Society** 

Sign In



**CALYPSO HF Radar Network** 

2<sup>nd</sup> June 2025



#### Malta Airport Meteorological Office



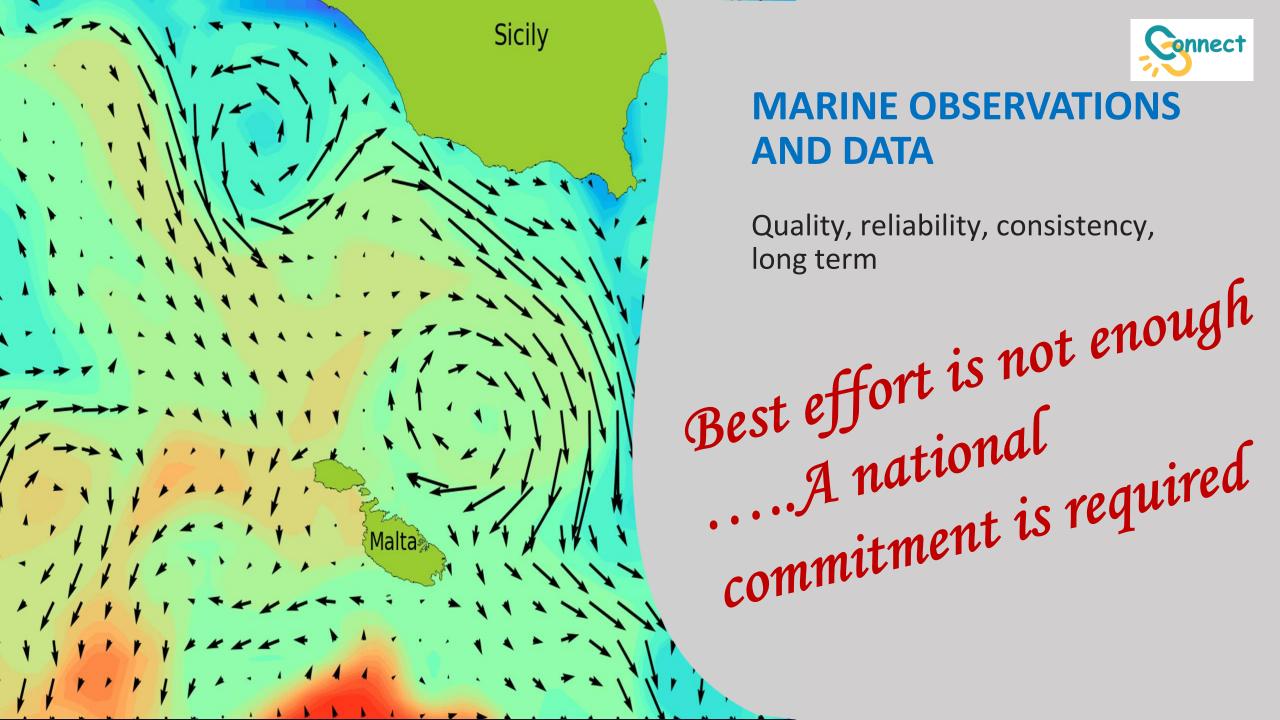




Dolphin Talk: Decoding Ocean
Conversations with Technology

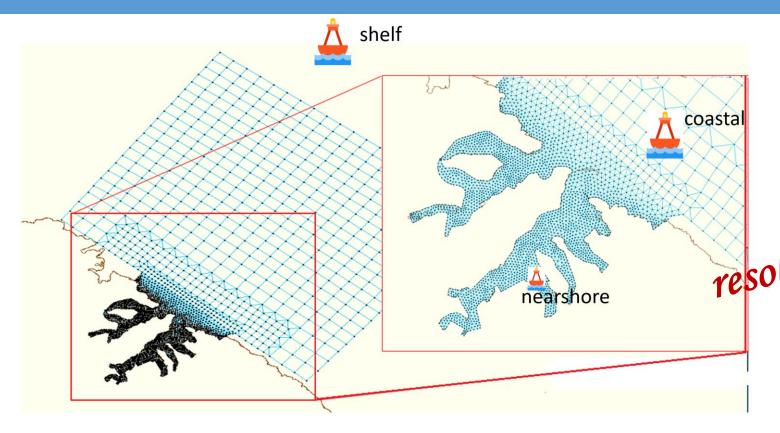
4 June 2025





## CUSTOMISED DESIGN OF A MARINE OBSERVING SYSTEM FOR THE MALTESE ISLANDS

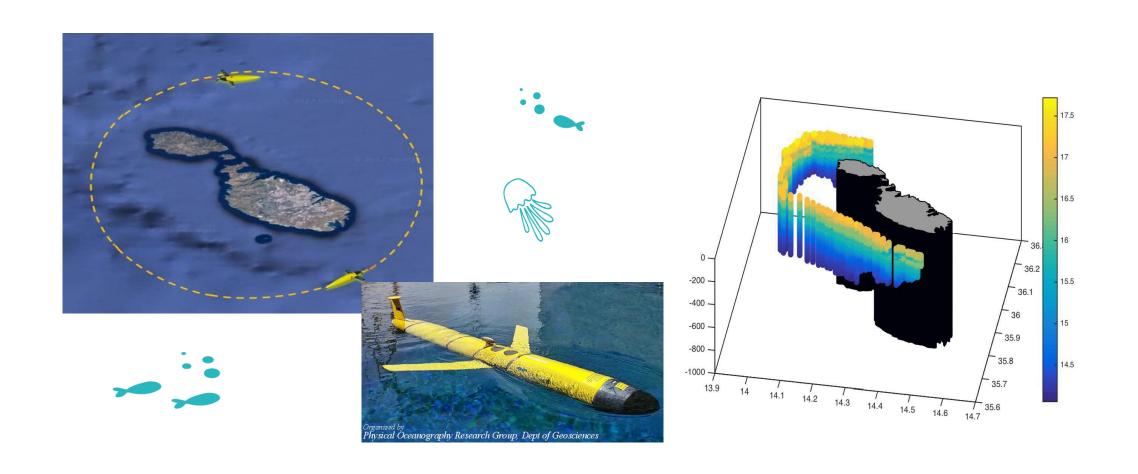
- Low cost systems in the near shore
- Main long term offshore platforms
- Measure offshore and model extrapolate onshore
- Surface, water column and benthic measurements



resolving coastal and nearshore scales by integration to numerical models

## CUSTOMISED DESIGN OF A MARINE OBSERVING SYSTEM FOR THE MALTESE ISLANDS

- Adaptive observations using gliders
- Synoptic observations by satellites for constant watch and model assimilation





## Pillars of the CONNECT project CONNECTING THE STAKEHOLDERS

CLUSTERING OF INFRASTRUCTURE
CAPITALISING ON PAST RESEARCH
BUILDING THE NATIONAL MARINE CORE DATA PLATFORM

Discussion and co-design between stakeholders

Plan national conference on the subject

Build a common plan and design for marine observations in Malta

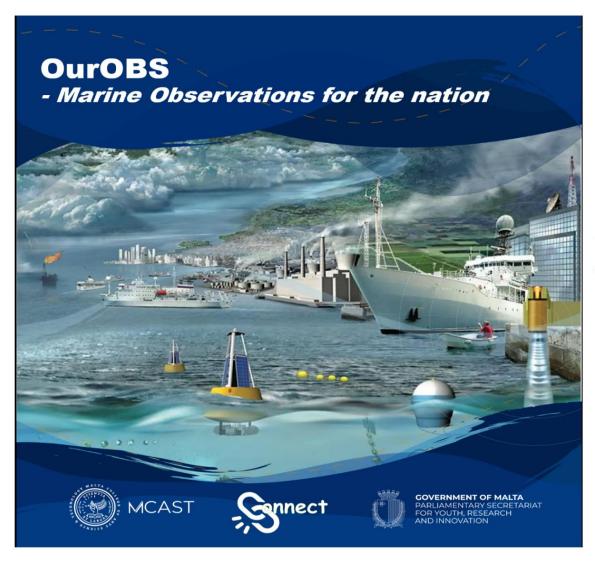
Integrate marine core data into the national data ecosystem

Promote awareness on needs and benefits for marine observations

Submit plans to government for uptake and funding under a national governance framework







#### https://backend.stream-srf.com/connect/

#### **MEET IN MALTA**

#### **National Conference**

Marine data and information are essential ingredients not only for sea-based research, climate studies, the monitoring of the state of health of the sea and the management of its resources. Indeed, the marine data value chain in the evolving information age targets new avenues, reaching out to industry and fuelling innovative applications that can raise economic levels to new heights that perhaps we cannot yet fully grasp.

The conference is precisely planned to bring national stakeholders, responsible entities, the research community, operators and private enterprise to discuss, design, streamline and plan marine observations in the Maltese Islands for monitoring, ecosystem services, research and security. This is a very much needed national strategic reflection that we have to make as we endeavour to more systematically depend on the oceans, and we further look at the sea as a resource for the blue economy and the green transition.

No more disjointed efforts. Individual project-based, ad hoc initiatives relying on singular best effort deliveries do not work. We need a coordinated effort, a financed enduring strategy with a political commitment to achieve and sustain a national marine observing system for the needs of a nation that works to meet challenges and looks beyond the horizon.

You can <u>REGISTER</u> free

Contact: Prof. ALDO DRAGO (Project Leader; aldo.drago@mcast.edu.mt)

#### **CONNECTING EFFORTS AND IDEAS**

Actions to serve as building blocks

Capitalise on what we have

More than combining what we do separately

Capitalise on what we have

Political will and mandate

.....et d'un effort transformateur pour agir ensemble afin d'atteindre des objectifs globaux partout dans le monde, de manière efficace et efficiente.

#### WATCH THE CONNECT VIDEO AT THE EU DIGITAL OCEAN PAVILION

https://www.digitaloceanpavilion.eu/content/engage-contributors OR https://backend.stream-srf.com/connect/



#### **CONNECTing** with you



MALTA COLLEGE OF ARTS, SCIENCE & TECHNOLOGY

#### **GRAZZI**

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GOVERNMENT OF MALTA MINISTRY FOR EDUCATION, SPORT, YOUTH, RESEARCH AND INNOVATION

PARLIAMENTARY SECRETARIAT FOR YOUTH, RESEARCH AND INNOVATION