The Canaries as a leading test facility for research, technological development and innovation in Marine and Maritime sector
Outline

1. Vision – Mission – Definition
2. Facilities & Services
3. Strategies & Projects
4. Summary & Recommendations
Geographical Context

Canary Islands

Santa Cruz
Las Palmas de Gran Canaria

Portugal
Spain
Morocco

Google
Western Sahara

Atlantic from Space Workshop;
23-25, January, 2019, Southampton, UK
Spanish Network of Unique Scientific and Technical Infrastructures (ICTS):

- Unique research facilities
- Specialized Scientific fields
- Demand high level of investment
- Dedicated to cutting-edge science and technologies
- Foster socio-economical growth and development

MAP OF UNIQUE SCIENTIFIC AND TECHNICAL INFRASTRUCTURES (ICTS)

TYPES OF ICTS
- ICTS WITH A UNIQUE LOCATION
- ICTS IN A UNIQUE CONTEXT

SCIENTIFIC FIELDS
- AUTOMATION AND ENTERPRISES
- HEALTH SCIENCES AND BIOENGINEERING
- MATERIALS AND ENGINEERING
- ENERGY
- INFORMATION AND COMMUNICATION TECHNOLOGIES
- SOCIAL SCIENCES AND HUMANITIES

50 M€
2007-2021

National Government (50%)
Regional Government (50%)
Facilities & Services

- MONITORED & DEEP STUDIED MARINE TEST SITE
- R & D MARITIME PLATFORM
- A COASTAL AND OPEN OCEAN OBSERVATORY
- TRANSVERSAL CAPACITIES & TECHNOLOGIES: ICTs
- HOSTING
- DATA SUPPLY
- OPERATIONS & LOGISTICS
- SPECIALIZED TRAINING
Facilities & Services

PLOCAN
Plataforma Oceánica de Canarias
Platform
- Cubierta (540 m²)
- Balcón de 20 m
- Estación de Socorro
- Puerta de Emergencia
- Área de Transporte
- Armario
- Estación de Redes
- Piscina de 10 m

Banco de ensayos marino
Marine test-site

Atlantic from Space Workshop;
23-25, January, 2019, Southampton, UK
Some Figures....

Small organization:
- **30** Fixed employees +/- 10-15 temporarily

Avg. Requested Projects yearly: **32**
Avg. Success rate: **26%**
5-8 new projects yearly

Average number of projects under execution: **23**

Total executed projects since 2010: **60**
**2018**: 59; 25%; 15; 37

**Overall Project Funding**

**PLOCAN Project Funding**

Nearly 300 partners....
Several networks....

PLOCAN
PLATAFORMA OCEÁNICA DE CANARIAS

European Space Agency
Strategies & Projects

- Blue growth
- Marine data and knowledge
- Maritime spatial planning
- Integrated maritime surveillance
- Sea basin strategies

Integrated maritime policy

- Logistics and transport
- Social Sciences
- Recycling Technology
- Human Health
- Underwater vessels
- Marine vessels
- Innovation for emerging Blue Growth activities
- Healthy oceans and seas for healthy people
- Sea basin Strategies
- Aerospace for observation / UAV
- ICT for Big Data
- Sensors
- Space/Satellite for observation

Atlantic from Space Workshop;
23-25, January, 2019, Southampton, UK
THE ATLANTIC STRATEGY

Atlantic Ocean Research Alliance (Galway Statement)

Belém Statement on Atlantic Research and Innovation Cooperation Conference in Lisbon on 13-14 July 2017

HORIZON 2020

THE ATLANTIC: OUR SHARED RESOURCE
MAKING THE VISION REALITY

Optimizing and Enhancing the Integrated Atlantic Ocean Observing Systems

EU Horizon 2020 project
A large scale EU Horizon 2020 research and innovation project contributing to the Trans-Atlantic Research Alliance and GEO

62 Partners, 18 Countries
International integration of Atlantic ocean observing activities
- Further supporters / members are welcome.

All Atlantnic Cooperation for Ocean Research and innovation
AANChOR

Responding to the call:
Type of action: CSA - Coordination and support action
Topic: BG-08-2013-2019 “All-Atlantic Ocean Research Alliance Flagship”
Call topic: [A] 2018 “Coordination of marine and maritime research and innovation activities in the Atlantic Oceans”
THE ATLANTIC STRATEGY

Central Atlantic
Outermost Regions (ORs)
The Macaronesian Area

Forward
Fostering research excellence in EU Outermost Regions
Continued integration and enhancement of all leading European research infrastructures for testing offshore renewable energy systems through a range of TRLs (1-7). 31-Wave; 21-Tidal; 26-OFW.
Atlantic from Space Workshop;
23-25, January, 2019, Southampton, UK
• EO must go beyond Knowledge/data production, it should also be based on our capacity to progress on their application, progresses on technologies developments and services so to produce socio-economical growth and benefits.
• New prototypes/technologies need to overcome the “Valley of Death” – Validation and Demonstrations on real environments needs to be facilitated.
• Important to integrate specialized Research Infrastructures focused on reduce tests costs and speed up technology maturity to support market uptake of new innovations.
• EC strategies (Atlantic, RI´s, Blue Growth,..) need to keep and strength this vision, with dedicated funds and promoting collaboration at all levels.
• PLOCAN as a key infrastructure to conduct technology tests/validation in the Atlantic/Macaronesian area, as well as, strategically involved the cooperation at both sides of the Ocean (North, South and Central).