

STRONGMAR: Robots at Sea

InfoDay Horizonte 2020
Spreading Excellence and Widening Participation
Faculdade de Medicina da Universidade do Porto

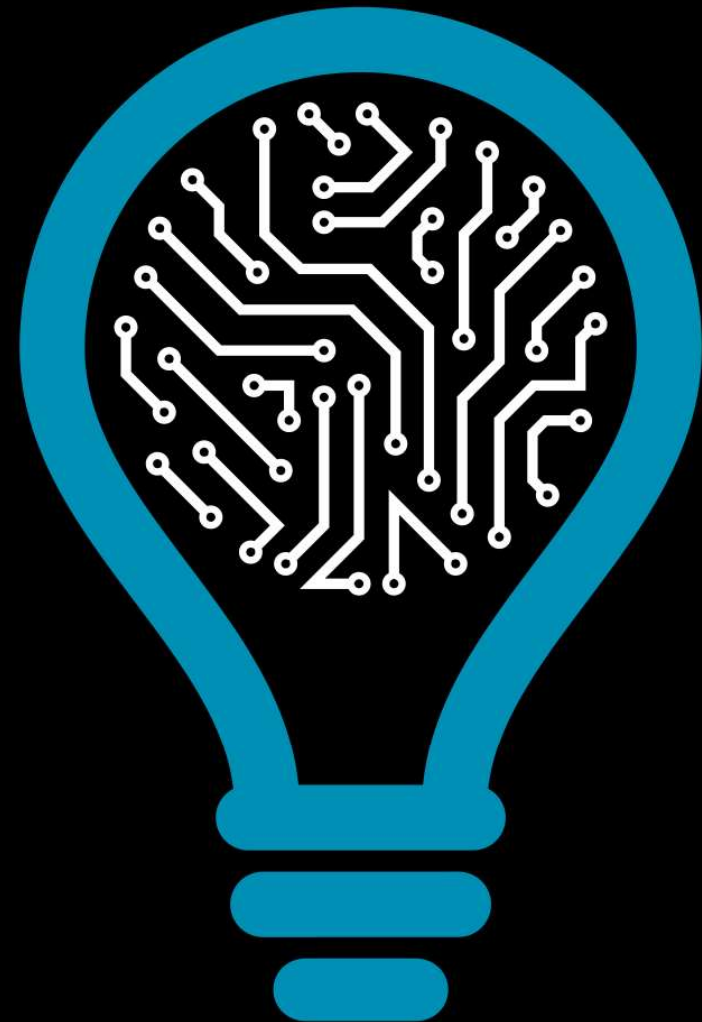
Marta Barbas

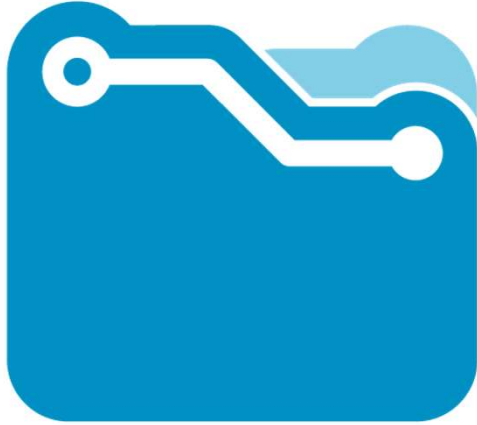
Funding Opportunities Officer at INESC TEC

6 September 2018



INSTITUTE FOR SYSTEMS
AND COMPUTER ENGINEERING,
TECHNOLOGY AND SCIENCE





STRONG MAR

- **Call: H2020-TWINN-2015**
- **Type of Action: CSA**
- **Acronym: STRONGMAR**
- **Duration: January2016-December2018**
- **Website: www.strongmar.eu**

Consortium



Objective e motivation

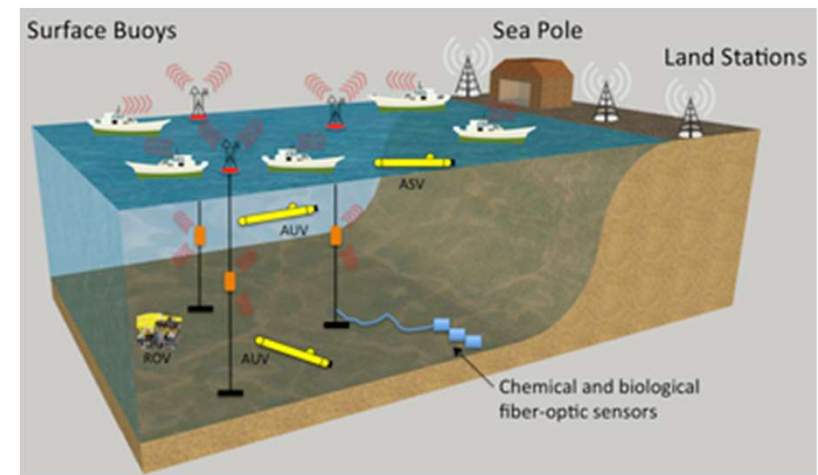
To turn INESC TEC into a centre of excellence in maritime technology, in particular, on deep sea technology.



Expected strategic impacts

Make an important contribution for the **long-term sustainability** and **viability** of the research infrastructure **TEC4SEA**, of which **INESC TEC** and **CINTAL** are the founding institutions.

Consolidate it as a **recognized research asset**, capable of providing unique services to the whole of the European research community and, hence, a pole of attraction of European talent to the region.



Expected operational impacts

- Collect **experience** and best practice **guidelines**.
- Establish a solid **network** of cooperation with recognized institutions.
- Increase the **research** and **innovation** capacity of INESC TEC.
- Overcome the identified **technological barriers** still hampering the full implementation of the strategic national visions: *Portuguese National Ocean Strategy* and *Portuguese Strategy for Smart Specialization*.
- Reach **broader audiences**, motivate and attract **new talent**, and foster **cooperation** with the regional industrial fabric and **stakeholders**.

Progress

ERL EMERGENCY ROBOTS GRAND CHALLENGE - WINNERS!!!

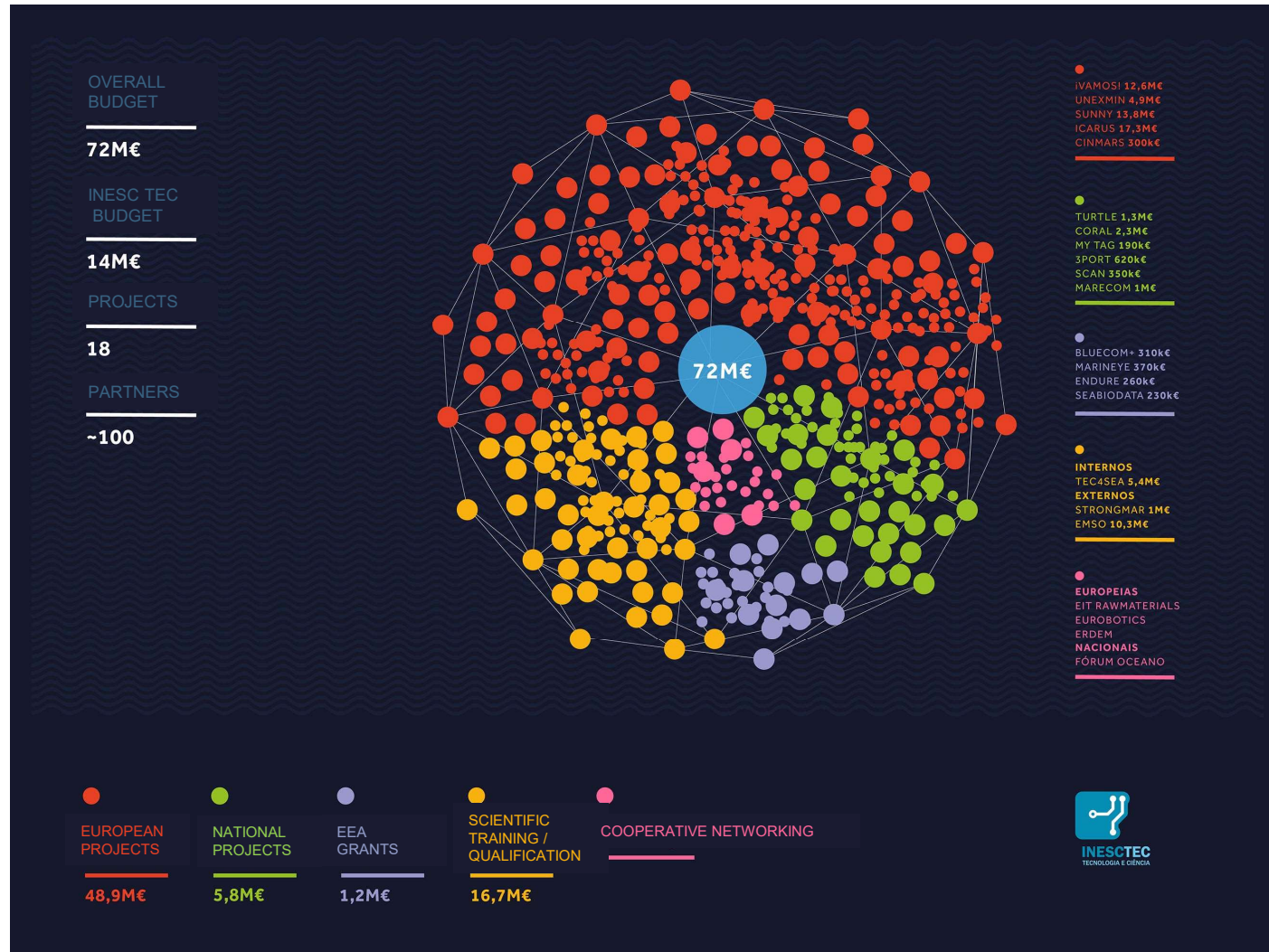


Progress

SHELL OCEAN DISCOVERY XPRIZE - FINALISTS!!!



Underwater/Sea related projects



Laboratories

- robotics with **test tanks**,
- acoustic submarine signal processing and instrumentation development for **submarine exploration**,
- optical/radio communications with access to an **anechoic camera**,
- optical and image sensors, with access to infrastructure for fabrication of **fibre optic** based devices, microfabrication (cleanroom), and optoelectronics instrumentation.

Research infrastructures

Maritime **wireless networks testbed** with fixed stations and sea nodes deployed in fishing ships.

Support facilities at **Leixões Harbour** (Porto – Portugal)

Water tanks (LxWxD, in meters: 10x6x5 and 4.5x4.5x2)

Hyperbaric chambers (up to 400bar)



Research Domains and market sectors

Non-living Resources

- Deep- and ultra-deep water **oil & gas**
- Dredging
- Marine and seabed **mining**
- Ocean **renewable energy**
- Offshore oil & gas (shallow water)
- Offshore wind energy

Living Resources

- **Aquaculture**
- **Fisheries**
- Marine biotechnology
- Seafood processing
- Stock estimation and monitoring

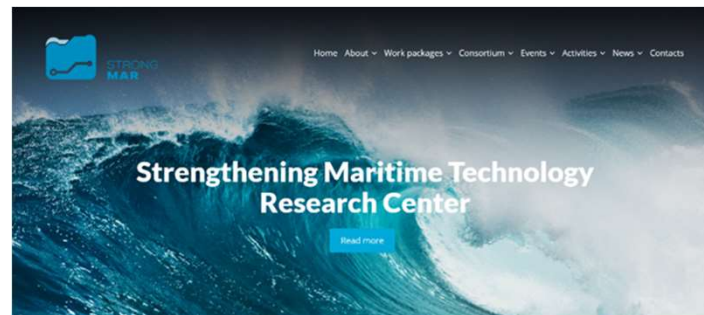
Services

- High-tech marine products and services
- Marine business services
- Marine manufacturing and construction
- **Marine R&D and education**
- Maritime and coastal tourism
- Maritime safety and surveillance
- Ports
- Shipbuilding and repair
- Shipping



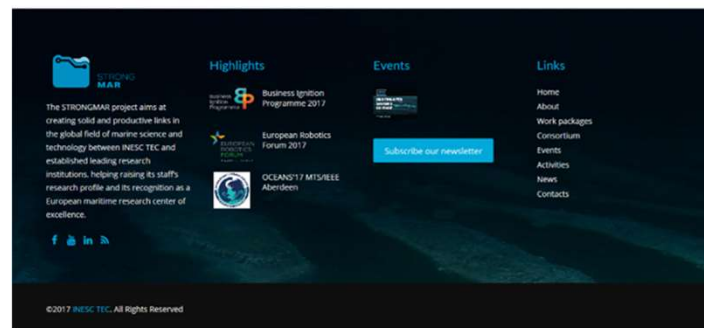
Strongmar Website & Newsletter

WWW.STRONGMAR.EU



STRONGMAR project

Funded by the European Commission under the H2020 EU Framework Programme for Research and Innovation (H2020-TWINN-2015, 692427)



Newsletter of the STRONGMAR project [View this email in your browser](#)
 Nº 01 // April 2016



**STRONG
MAR**

Strengthening Maritime Technology
Research Center

WE WORK ON LAND

Kick-off meeting

The kick-off meeting was held on March 7 and 8, 2016 at Porto (Portugal) and joined together the six partners of the consortium: INESC TEC (Portugal), CINTAL (Portugal), Heriot-Watt University (United Kingdom), NATO Science & Technology Organization (Belgium), Universitat de Girona (Spain) and University of Aberdeen (United Kingdom).



Brand

The consortium is strong and dynamic, and our expertise ranges from surface to deep sea technologies. We embedded these concepts into the brand logos.



Website

The website is under construction and will be launched as soon as possible. Stay tuned!

www.strongmar.eu

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