



**STRONG
MAR**

Strengthening Maritime Technology Research Center

OVERVIEW

INESC TEC is strongly committed to become a center of excellence in maritime technology and, in particular, deep sea technology. It is strategically located, with fast access to deep sea, it has been steadily building up its skills, capabilities and resources, and is presently in the process of implementing an open research infrastructure, thus preparing itself to become capable of providing services and open access to the European academic and industrial communities and, thus, become a recognized European maritime research asset.

The **STRONGMAR** project thus aims at creating solid and productive links in the global field of marine science and technology between INESC TEC and established leading research European institutions, capable of enhancing the scientific and technological capacity of INESC TEC and linked institutions (as well as the capacity of partnering institutions involved in the twinning action), helping raising its staff's research profile and its recognition as a European maritime research center of excellence.

These objectives will be fulfilled through a set of measures: summer schools, winter schools, short-term scientific meetings, long-term staff visits, networking meetings, workshops, conferences, technology transfer workshops with stakeholders, and other dissemination activities.

Therefore, the **STRONGMAR** project places INESC TEC as the pivot of a network of excellence, involving four European partners which are international leaders in deep sea technology.

DATA

NAME // Strengthening Maritime Technology Research Center

ACRONYM // STRONGMAR

REFERENCE // 692427

DURATION // 01/01/2016 to 31/12/2018 (36 months)

TYPE OF ACTION // Coordination & Support Action (CSA)

TOPIC // Twinning

CALL FOR PROPOSAL // H2020-TWINN-2015

EU CONTRIBUTION // 999.203,75 €

PROJECT OFFICER // Manuela Alfé

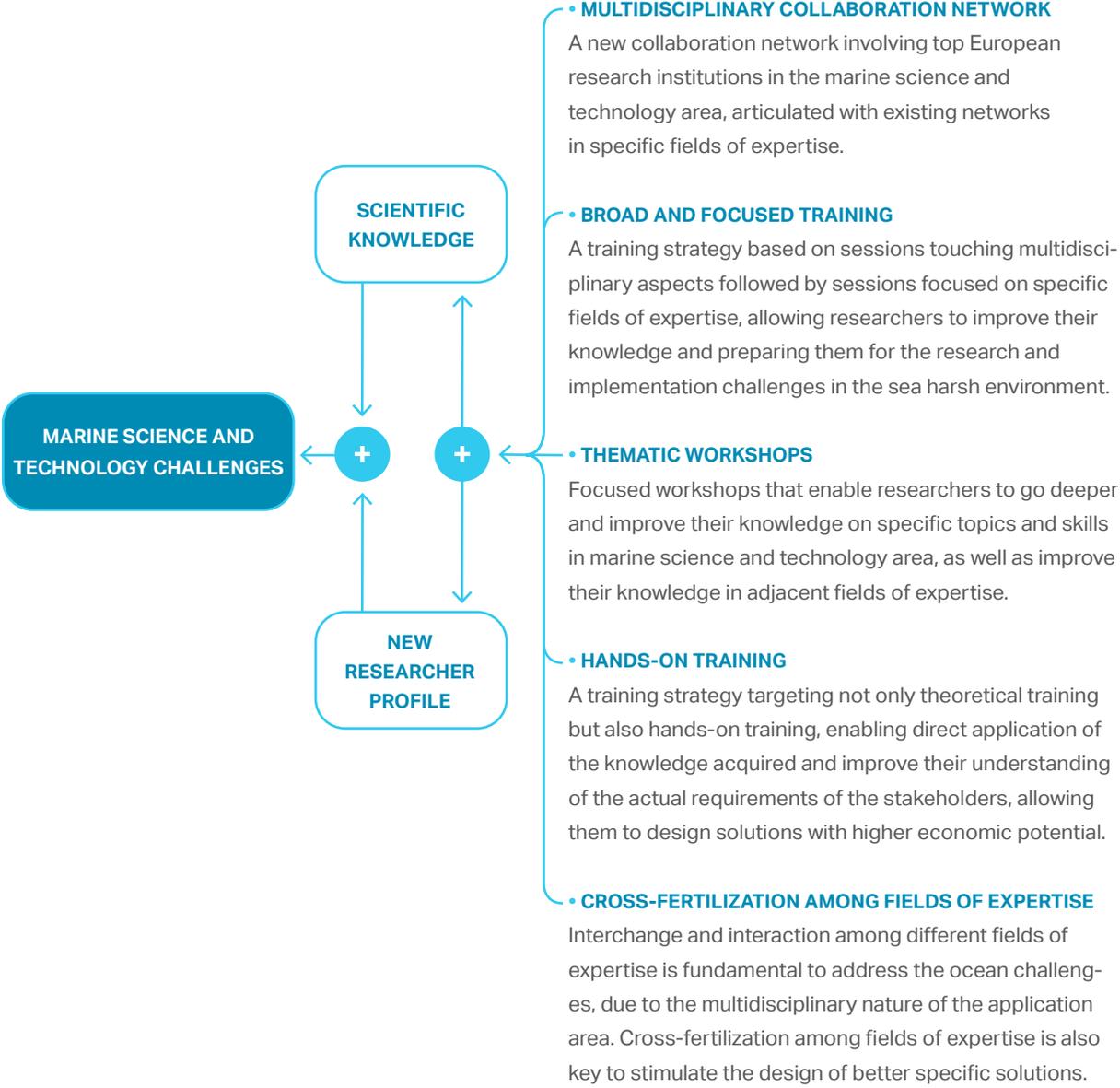
COORDINATOR // INESC TEC (Portugal)

PARTNERS // CINTAL (Portugal) / Heriot-Watt University (United Kingdom) / NATO Science & Technology Organization (Belgium) / Universitat de Girona (Spain) / University of Aberdeen (United Kingdom)

CORDIS // www.cordis.europa.eu/project/rcn/199452_en.html

WEBSITE // www.strongmar.eu

CONCEPT



CONSORTIUM

INESC TEC // Portugal / www.inesctec.pt
 Instituto de Engenharia de Sistemas e Computadores,
 Tecnologia e Ciência



Centre for Robotics and Autonomous Systems (CRAS)
 Centre for Applied Photonics (CAP)
 Centre for Telecommunications and Multimedia (CTM)

CINTAL // Portugal / www.cintal.ualg.pt
 Centro de Investigação Tecnológica do Algarve



Signal Processing Laboratory (SiPLAB)

HERIOT-WATT UNIVERSITY // United Kingdom / www.hw.ac.uk

Edinburgh Centre for Robotics
 Ocean Systems Laboratory





OBJECTIVES

GENERAL

- // Provide services and open access to the European academic and industrial communities.
- // Become a recognized maritime research asset.
- // Build a well-designed and coherent plan for knowledge transfer and exchange of best practices.
- // Enhance the scientific and technological capacity of INESC TEC and linked institutions.

FUNCTIONAL

Increase INESC TEC's capabilities:

- // to improve and develop innovative low cost sensors;
- // for resilient long distance and long term deployment of autonomous and semi-autonomous platforms;
- // for long distance and underwater control of robotic platforms, and the associated information harvesting;
- // to develop, produce, deploy and operate off-shore and deep sea platforms, capable of autonomous and semi-autonomous operations and tasks.

OPERATIONAL

- // Reinforcement of scientific and technological human potential of INESC TEC's staff.
- // Promote the cross-fertilization, i.e., interaction between people not only from different institutions but also with expertise in different topics.
- // Enable a stronger networking between INESC TEC's research staff and world top researchers.
- // Bring together groups of national and international research staff and world top experts, discussing advanced topics related to sea technologies.
- // Provide opportunities for developing scientific and personal relations.
- // Ensure the involvement of all relevant stakeholders and the dissemination of project results to scientific, industry and investment communities, as well as to the public.
- // Promote the exploitation of project results.

EXPECTED IMPACTS

- // Direct collection of experience and best practice guidelines by the partners, and establishment of a solid network of cooperation with other recognized institutions.
- // Extend the overall research and innovation potential of the North region of Portugal.
- // Increase the research and innovation capacity of the proposing institutions and, in particular, of INESC TEC.
- // Reach broader audiences, motivate and attract new talent, and foster cooperation with the regional industrial fabric and stakeholders.
- // Make an important contribution for the long-term sustainability and viability of the research infrastructure [TEC4SEA](#), by helping to 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.
- // 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".

