

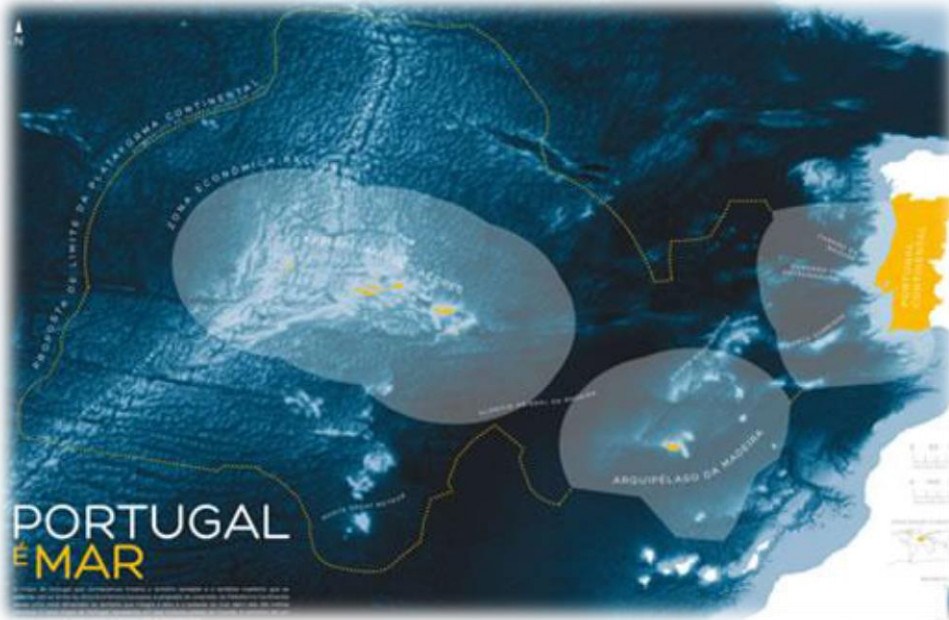


ICELAND
LIECHTENSTEIN
NORWAY

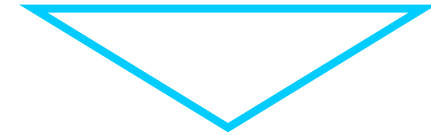
eea
grants

Project n. PT02_Call4_0013 –
“MEDUSA_DS – OPENING THE DEEP SEA
FRONTIER”

The problem



The Marine National Strategy is driven by the challenge to explore and monitor the vast deep continental shelf with an average depth over 3.000 meters.



PROBLEM/MARKET NEED:

- Technology available not cost-efficient for such depths
- Technology extremely dependent on support from manned surface vessel
- **Need for systems with light logistic requirements**

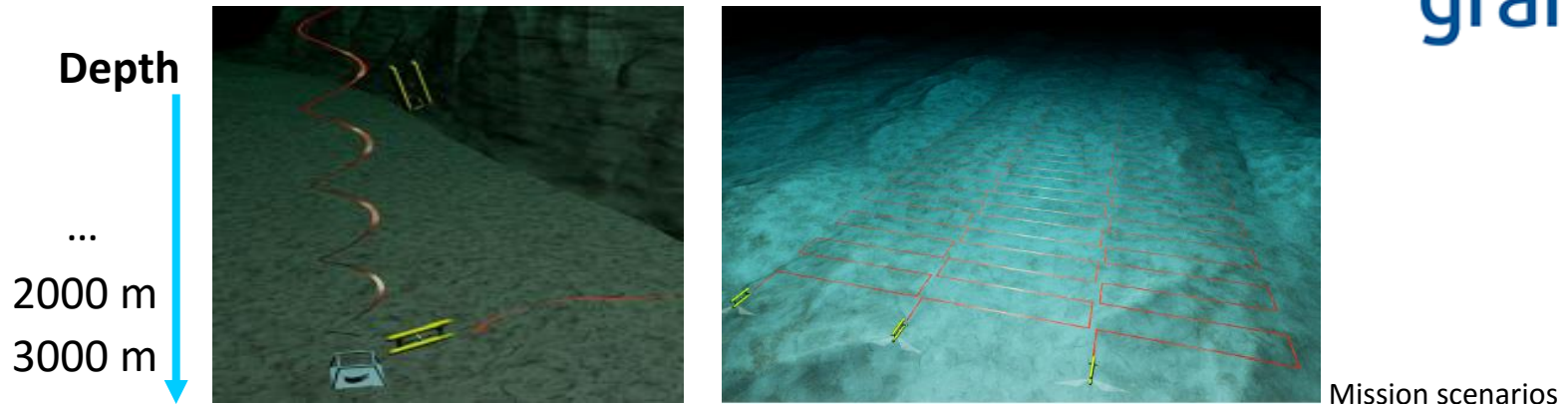
SOLUTION:

System of multiple cooperative autonomous vehicles for the deep sea frontier

MEDUSA_DS



The solution: MEDUSA_DS



Objectives: development of a new cost-effective system of autonomous vehicles with light logistic requirements, with advanced mission control capabilities, to collect and disseminate relevant deep sea data using NIPIM@R platform.



Concept:

Autonomous Surface Vehicle – ASV

for navigation and communications support and relay operation

Multiple Autonomous Underwater Vehicles – AUVs

for data acquisition in the water column and near the ocean floor

All operating autonomously and in a cooperative manner

Developed by



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...Impact!

Using a modular,
easily scalable
design for future
interoperability
with other
monitoring
systems

Reinforce the capabilities of
national science and
technology stakeholders
with an accessible
environmental monitoring
and exploring tool for deep
sea - seabottom and water
column.

Extend
oceanic
exploration
to the
deep sea