

INNOVATIVE DEEP SEA IMPACT ASSESSMENT

TRIDENT: NEW IMPACT ASSESSMENT TECHNOLOGIES FOR SUSTAINABLE DEEP SEA EXPLORATION

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THE PROJECT

TRIDENT will create new technological tools for deep sea impact assessment. These new tools will empower a shared responsibility to supervise and monitor deep-sea activities, while preserving marine habitats, supporting an environmentally sustainable blue economy.

It will complement relevant physical, chemical, geological and biological parameters already known, to be measured at the sea surface, midwater and seabed. TRIDENT will also identify gaps in methods of real-time data gathering and build data sets, and develop the technological solutions to address them.



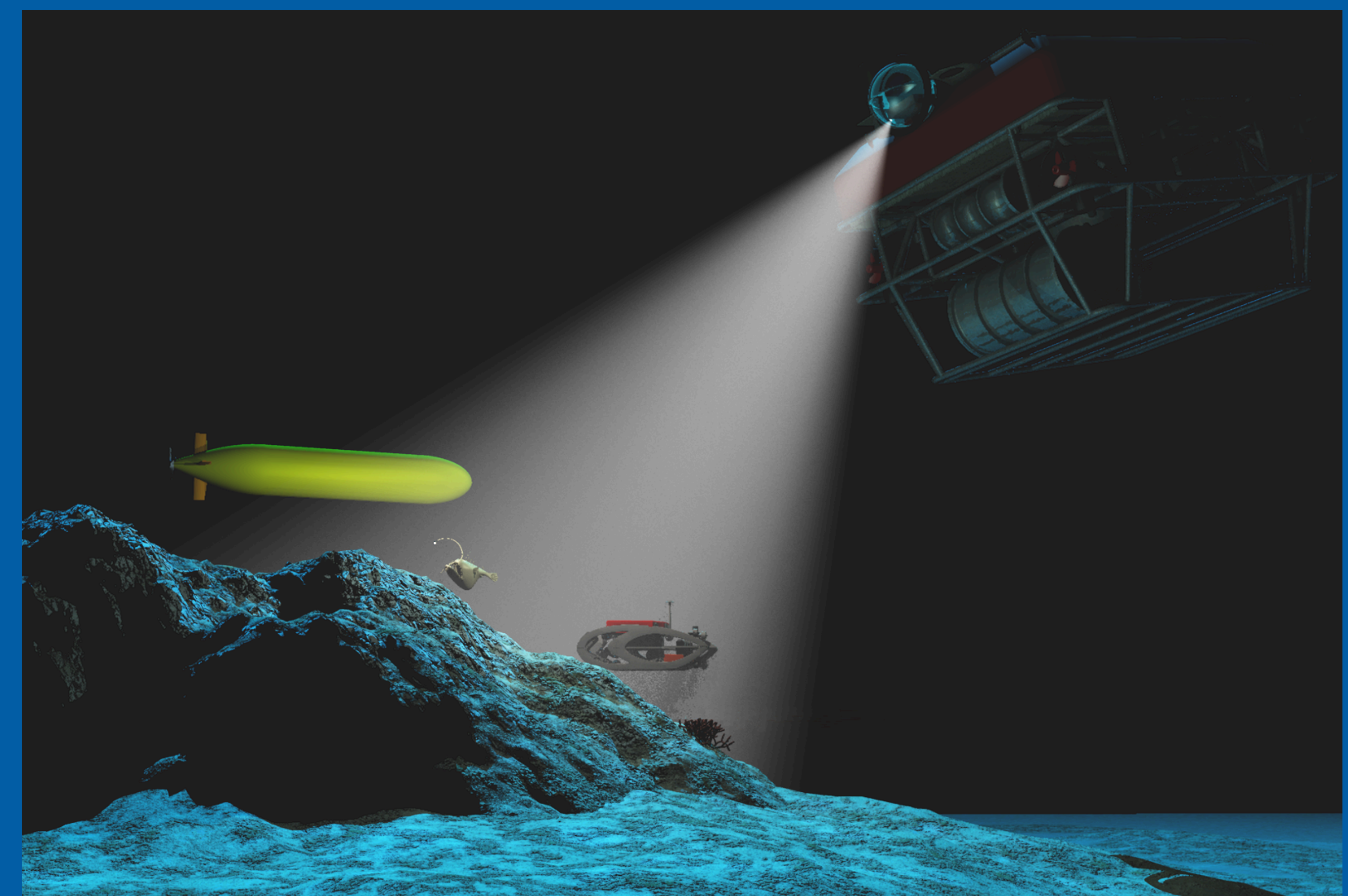
TRIDENT

Technology Based Impact Assessment Tool For Sustainable, Transparent Deep Sea Mining Exploration And Exploitation

THE TECHNOLOGIES

TRIDENT's system will use advanced technology and innovative solutions to operate autonomously in remote areas under extreme conditions. It will provide real-time data to permitting and supervising authorities to ensure compliance with international and national legal frameworks, identifying gaps in the methods of real-time data gathering and build data sets, developing the technological solutions to address them.

The project will complement all relevant physical, chemical, geological and biological parameters already known to be measured at the sea surface, midwater and seabed.



THE OBJECTIVES

Develop an integral environmental impact assessment capability.

Lead the creation of a new commercial ecosystem driven by a cluster of European service and technology providers.

Elaborate a holistic governance framework for Europe's Ocean resources sustainable exploitation.

Create innovative infrastructure for real-time navigation, communication and awareness of deep-sea activities and monitoring systems.

Advance the understanding of geological, biological and environmental processes.



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