

Further Innovation Fields in the Cluster:

DIGITAL MISSION

Digital Twins as a powerful concept for integrating scalable data platforms, Al-based analytics and simulation to support offshore missions and decision making.

OCEAN LENSE

Efficient monitoring to ensure the conservation and to quantify the impact of human activities on marine systems. Data are collected as comprehensively as possible and with high temporal frequency over long periods of time.

OCEAN OPEN INNOVATION

Cross-organizational collaboration among partners, building a functioning innovation ecosystem, and improving value chains.



OUR VISION

We use the seas in harmony with ecology and economy and thus contribute to the protection of the oceans.

OUR MISSION

We want to position the Ocean Technology Campus as an international leading center for underwater technology and the sustainable use of the oceans.



"The oceans offer significant resources. We can and should make responsible use of it. We are therefore working on technologies and strategies for sustainable use of the oceans."



SUSTAINABLE OCEAN USE





Dr. Daniel Stepputtis Head of the Innovation Field

Contact

Phone: : +49 381 66099 136 Mail: daniel.stepputtis@thuenen.de www.oceantechnologycampus.com



THE OCEAN TECHNOLOGY CAMPUS

The Campus sets out to strengthen German marine technology by opening up important markets and setting impulses for a worldwide knowledge-based sustainable use of the oceans - and it does so at one of Germany's most traditional maritime locations, Rostock, with its exceptionally high density of marine and maritime research.

The Campus combines science, industry and unique testing sites as an innovative engine targeting renewable energies, food supply, climate change, marine pollution and others.

With the synergy of a comprehensive understanding of the ocean ecosystem through excellent research and a sustainable use of the marine habitat through innovative technologies at the highest level lies the key to reconcile ecology and economy.

SUSTAINABLE OCEAN USE

Marine resources are already being intensively used and are an important factor to gather enough food for a growing world population. Fishing is the predominant use of marine food resources but has significant impacts on the marine ecology.

The innovation field Sustainable Ocean Use aims at controlling and reducing these impacts, while opening other areas of marine resource usage, such as production of food supplements, fertilizers, biofuels and pharmaceutically active substances.

The goal is to reduce impacts on non-target species in fisheries and to support sustainable marine aquaculture as a second pillar of marine food harvesting.

PROJECTS

OTC-smartFishing

OTC-smartFishing develops a robust underwater camera system with AI-based image recognition for use in commercial fishing and fisheries research.

This technology opens possibilities for high accuracy catches in fisheries and marine research to enable sustainable use of marine resources.

OTC-Marikultur

OTC-Marikultur develops a monitoring system for marine aquaculture facilities, which allows remote maintenance and real-time monitoring of diverse animal welfare, animal behavior and environmental parameters by processing data from comprehensive sensor technology through AI-based methods.









MONITORF

