



Would you like to get more information or to contribute to our work?

Services and Technology for Sustainable Sea Exploitation

Please do not hesitate to contact us.

### Huge Potentials for the Future

It is the oceans shaping the face of our blue planet. They influence our climate. They are a gigantic habitat, as well as an economic zone full of vital resources. Here, the power of nature and human activities are closely interlinked.

Our oceans contain huge potentials for the future, which can be exploited with the help of innovative technologies. The focus of current developments lies within:

- Renewable energy from offshore wind parks- and wave and tidal power plants,
- Deepsea hydrocarbon deposits,
- Marine mining and
- Modern aquacultures.

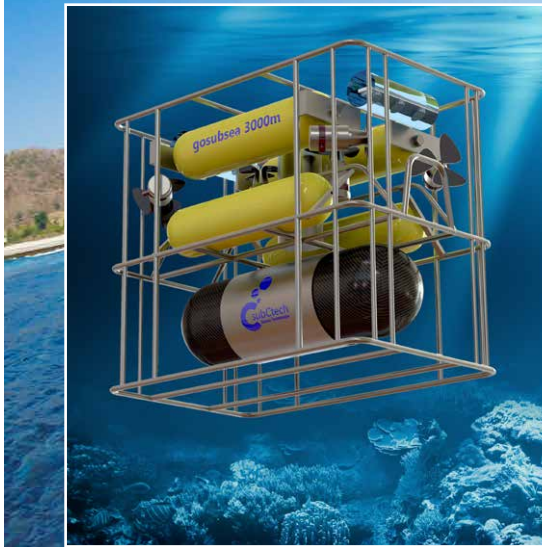
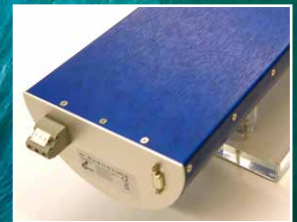
In this course, new challenges, chances and risks evolve, which have to be carefully supervised and dealt with. Only then we can use the vast resources in the oceans considerably without disturbing the fragile balance of the marine environment.

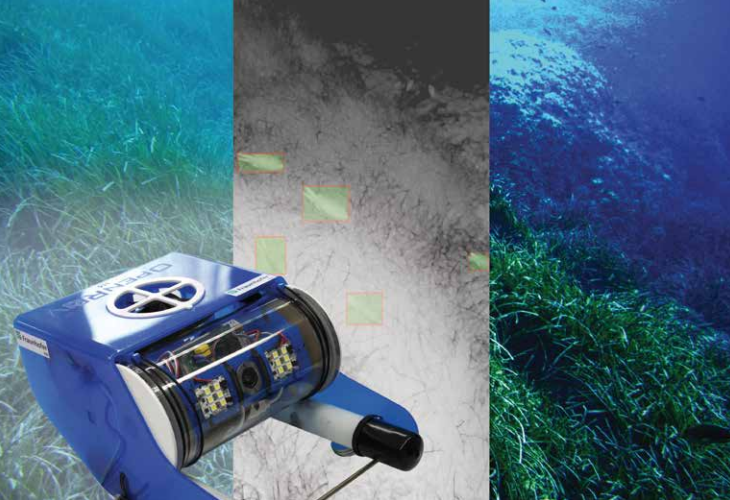
With its innovative technical solutions, SMN aims at meeting these requirements and at opening up maritime potentials in a sustainable way.

#### Subsea Monitoring Network e. V.

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## Heading for the Age of the Oceans

The overall aim of our network is the development of innovative subsea technologies which contribute to a sustainable treatment of the oceans. Understanding the complex interactions taking place in the world's oceans marks the starting point of our work. From there we explore and register specific possible uses by, monitoring processes in and possible consequences for this sensitive environment.

Intelligent subsea systems are the key to success in these activities.

## The Network

The Subsea Monitoring Network unites competent research institutions and companies in the development of appropriate solutions for the various challenges in marine research, maritime industries, and environmental monitoring.

## Integrated System Development

Together, we work on the integration of powerful individual components as well as on engineered innovative and riskbased solutions:

- Sensors and measuring systems, samplers, and analytical systems
- Building up UW sensor networks with numerous stationary and mobile hubs
- Energy supply systems for long-term underwater use
- Innovative carrier systems and autonomous robots (ROVs, AUVs and USVs) with their respective controlling units above the water surface
- Integrated high-speed data communication and navigation under and above the surface; connection to modern satellite technologies and digital communication systems
- Real-time processing of large data volumes
- Innovative visualization technologies
- Drive systems

## Our Aims and Responsibilities

With subsea monitoring technologies, we support the process chains of maritime industries, from resource exploration, to production and postprocessing, to safety and environmental management. We develop efficient measuring methods, as well as possibilities for control and diagnosis, in order to eliminate potential dangers, increase operation efficiency and avoid damage to the environment.

By the implementation of these concepts, we want to contribute to bringing the economy and ecology of the world's oceans into accordance and to guarantee their intact existence for the future.

## Our Services

We offer you the following services within the framework of our goals:

- Development of customized subsea components or systems
- Provision of an extensive infrastructure for testing subsea technologies
- Technical consulting
- Project coordination

