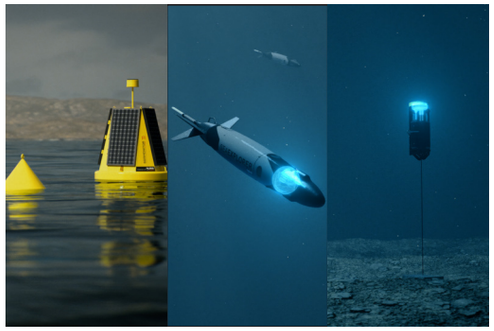
SONUSIA ALSEAMAR key components:
from embedded processing to data visualisation

AURIS ALSEAMAR passive sonar: real-time onboard processing

- 3D antenna: 4/8 hydrophones
- Embedded processor: Jetson Nano Nvidia
- Open system: ROS compatible Python and C++
- Encrypted data



Persistent, scalable network of stealth underwater assets

	SEAMONITOR ALSEAMAR surface buoy	SEA EXPLORER ALSEAMAR underwater glider	SEANODE ALSEAMAR seabed station
Type of asset	Fixed	Mobile	Fixed
Operating depth	20m - 200m	5m - 1,250m	50m - 2,500m
Endurance	3 to 6 months	1 month	3 to 6 months

GLIMPSE ALSEAMAR C2: data visualisation and analysis

- Data transmission encrypton
- Cyber secure, user-friendly interface
- On-premise configuration possible



Version : October 2026

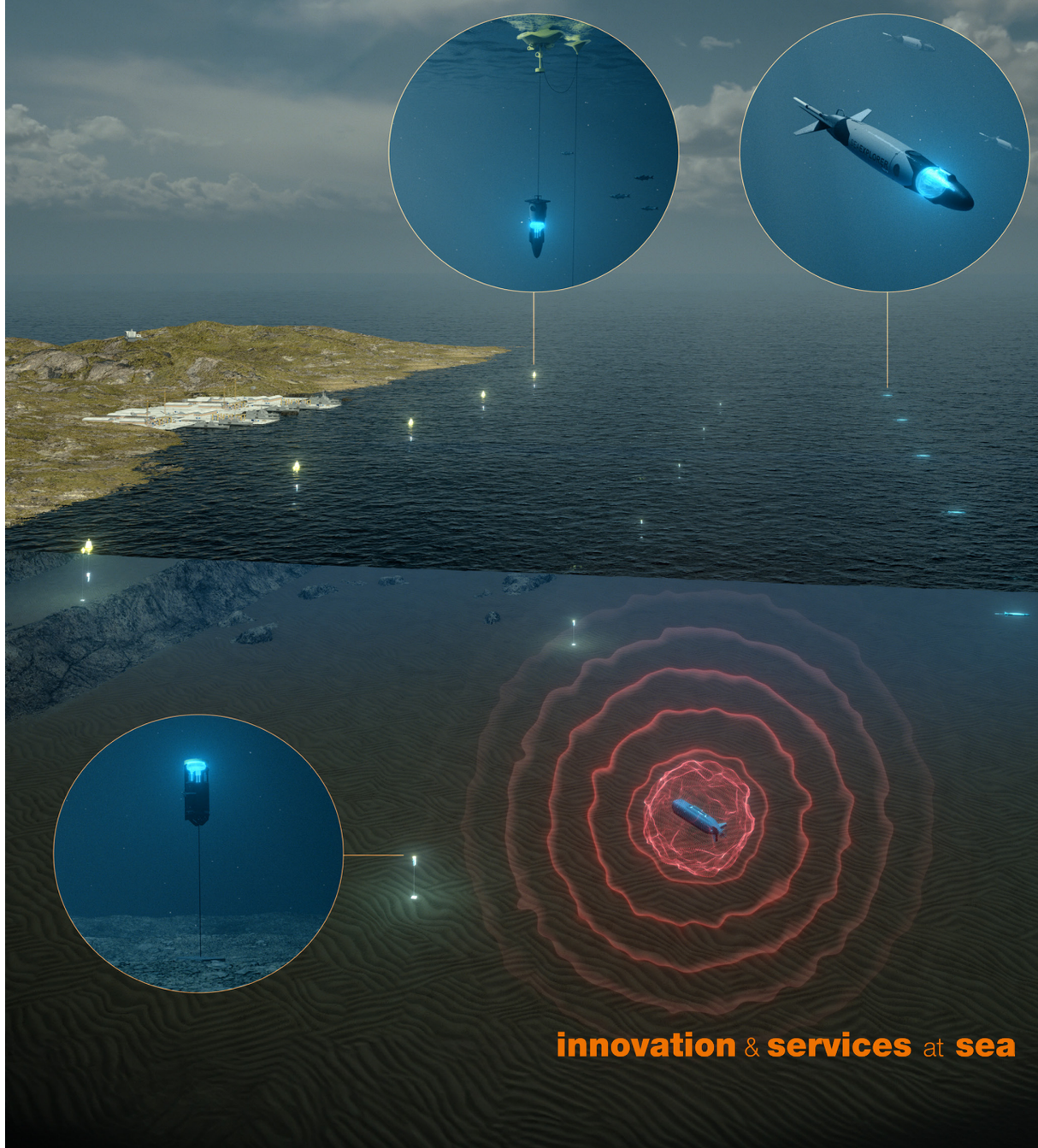
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SONUSIA ALSEAMAR

Continuous Maritime Situational Awareness

Modular, distributed network of stealth underwater sensors for persistent threat detection and environmental monitoring



innovation & services at sea

Continuous Maritime Situational Awareness

SONUSIA is a modular, distributed network of acoustic and non-acoustic underwater sensors designed to support **persistent threat detection and environmental monitoring.**

By combining **data collection and onboard processing** across multiple underwater platforms, SONUSIA provides continuous maritime situational awareness in critical areas where persistent monitoring is required.

CRITICAL INFRASTRUCTURE PERSISTENT SURVEILLANCE

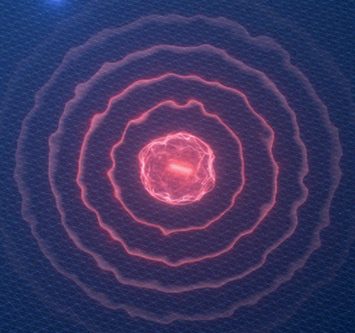
- Ports and coastal areas
- Strategic maritime passages: straits, shipping lanes
- Subsea cables and pipelines
- Offshore infrastructures
- ...

ONBOARD DATA PROCESSING

- AURIS ALSEAMAR passive sonar: onboard processing of acoustic and non-acoustic data
- Identification and classification of threats
- Open architecture: algorithms developed by ALSEAMAR or custom algorithms

FULL WATER-COLUMN COVERAGE

- Lightweight, stealth and persistent underwater assets
- Repositionable network
- Easy to operate, deploy and recover



SCALABLE & COST-EFFECTIVE

- Modular network configuration according to the desired coverage and theat-detection needs
- Number and types of platforms, arrangement and distance from the area to be protected can be configured

NEAR REAL-TIME DATA VISUALISATION

- GLIMPSE ALSEAMAR Command and Control (C2): data fusion and triangulation
- Fleet management
- Interoperability with other assets' C2 systems
- Compliant with NATO STANAG 4817