



## Let's talk about Coastal Challenges

📅 13 June 2025 – 10:30 am - 1:30 pm CEST

📍 Inspire Area – European Digital Ocean Pavilion

🌐 United Nations Ocean Conference 2025

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### Abstract

# Atlantic SENSE - Geospatial Intelligence for Climate Resilience and Environmental Monitoring

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Developed by +ATLANTIC in Portugal, Atlantic SENSE is an integrated geospatial intelligence platform designed to bridge the gap between scientific advances in Earth system observation and the real-world decision-making needs of policymakers, municipalities, and citizens. In an age of abundant environmental and climate data, Atlantic SENSE addresses the challenge of transforming complex scientific outputs into reliable scenarios and actionable information — contributing to improved governance, climate resilience, and environmental monitoring of the ocean, coastal zones, and selected inland territories.

Among its four thematic pillars — Air, Ocean, Coastal, and Land — the platform's Coastal module delivers concrete digital solutions for managing coastal risks. It provides dynamic, location-specific geospatial data and indicators on sea level rise, coastal erosion, storm surge, total sea level, overwash, bathymetry, and coastal risk mapping. Built through data fusion of satellite imagery, in-situ sensors, and numerical model outputs, the platform enables multi-hazard visualisations to support impact forecasting, planning, and adaptation. Users can benchmark risk profiles, identify localised hotspots, and tailor responses at scales ranging from national to high-resolution beach level.

Atlantic SENSE is scalable, transparent, and cost-effective — supporting the digital transition in coastal governance and enabling alignment with global adaptation goals.

