

European

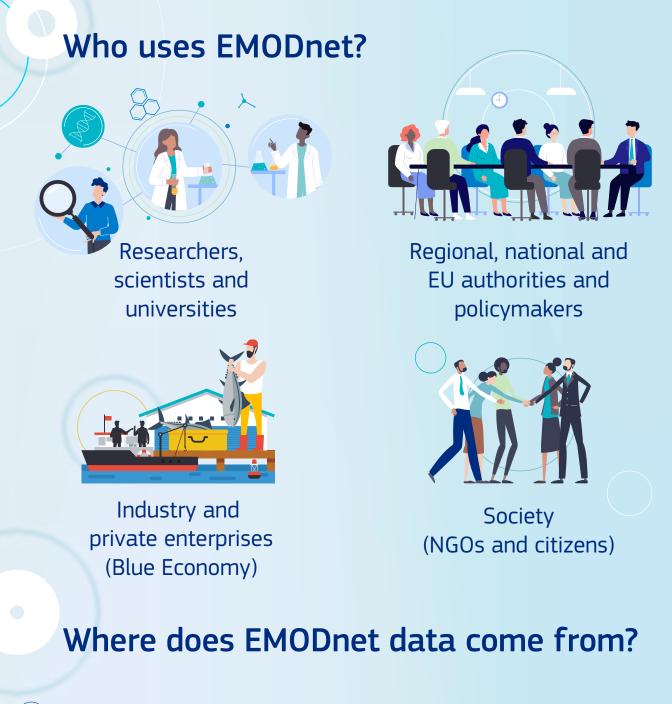
What is the European Marine Observation and Data Network (EMODnet)?

The **marine data service** that supports the integrated maritime policy of the European Commission's Directorate-General for Maritime Affairs and Fisheries 4MODner (DG MARE).

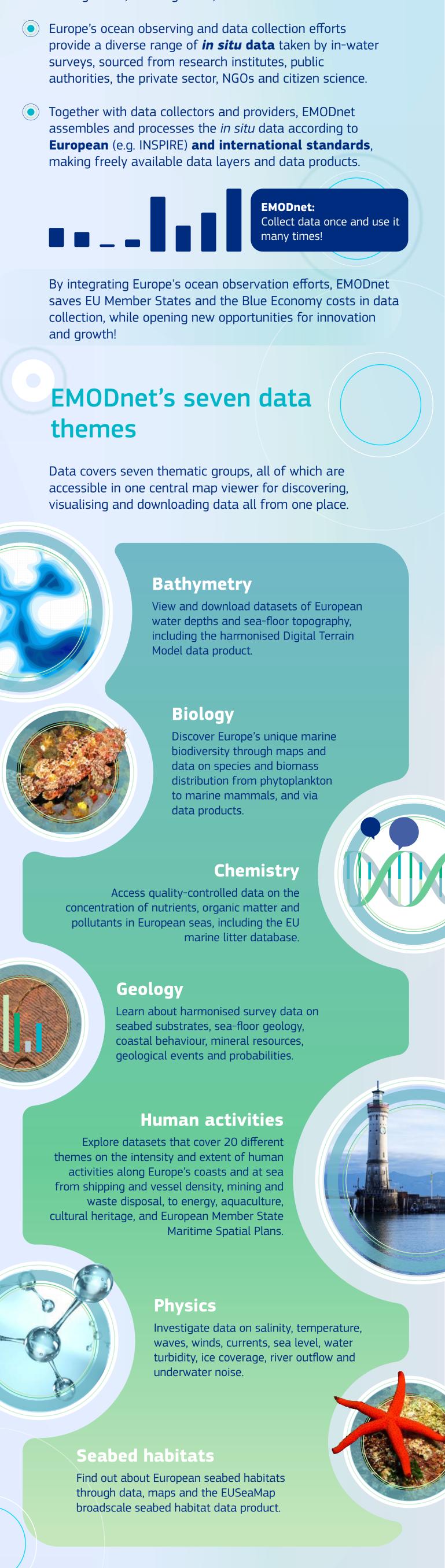
Provides open access to high-quality pan-European marine data, metadata and data products from the marine environment and human activities at sea.

• EMODnet supports the **aquaculture sector** and wider Blue Economy in their diverse data needs and requirements for planning, operations and environmental impact assessments.

Data collection and monitoring is a key area for further work identified in the European Commission's Strategic guidelines for a more sustainable and competitive EU aquaculture for the period 2021-2030. Collecting accurate data is necessary to ensure the appropriate planning of aquaculture activities and to assess and monitor the social, economic and environmental performance of the EU's aquaculture sector. Transparency and data reporting is also important for maintaining the trust of consumers and other stakeholders in the sector



EMODnet includes over 120 public and private organisations with experts in marine data management, data ingestion, data and web services.



What does EMODnet offer the aquaculture sector?

EMODnet's high-quality baseline marine data supports the aquaculture sector in terms of farm management, well-being of marine life and sustainable exploitation of living resources, advancing the sector's efforts to build resilience, sustainability and competitiveness, while supporting green transition and stimulating innovation.

Access to FAIR (findable, accessible, interoperable, reusable) data EMODnet's reliable in situ data provides Member States and the aquaculture sector with knowledge and information to: Support planning, Select optimal farm sites management and decision-making Monitor changing conditions Increase predictability of production cycles in the marine environment

Carry out environmental impact assessments

Avoid hazards and risks

Marine data dialogues

Aquaculture workshops

In 2020 and 2021, EMODnet collaborated with EATiP and Copernicus Marine Service to organise two online workshops, raising awareness about the wealth of marine data made available to support EU aquaculture and to promote opportunities for data sharing in the sector.

Marine Data to Support Aquaculture in the North Atlantic (20 October 2020)

Marine Data to Support Aquaculture in the Mediterranean and Black Seas (24 March 2021)

Click on the link to watch the short video "EMODnet for aquaculture"

European Atlas of the Seas

EMODnet also powers the European Atlas of the Seas, an interactive tool that allows users to explore, collate and create their own marine maps. It's ideal for school projects, researchers and professionals. Each week, the Atlas features a new map for exploration, including themes related to aquaculture.

Use cases for aquaculture



Human Activities

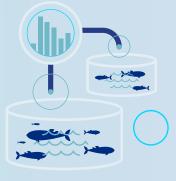
Maps of shellfish, finfish and freshwater production provide insights into the **distribution**, **density and** health of marine populations. Integrating maps of production into decision-making processes can enhance efficiency, sustainability and overall success of the aquaculture sector in farming operations.







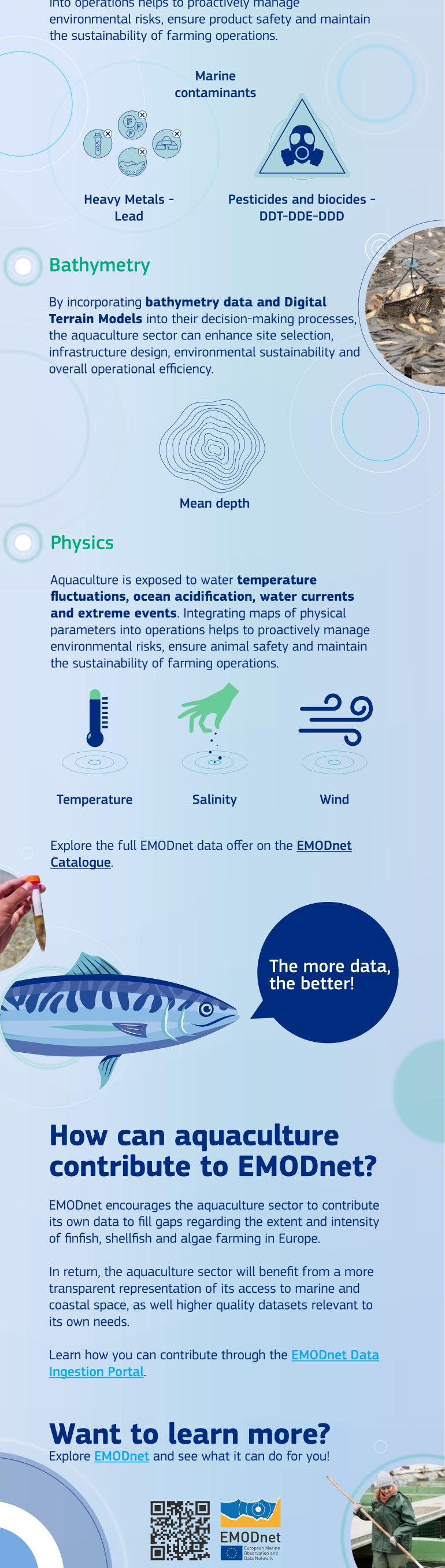




Freshwater **Production**

Chemistry

Data layers of oxygen, chlorophyll-a, nutrients, **marine contaminants** and more are invaluable tools for managing and reducing potential risks associated with water quality. Integrating maps of marine contaminants into operations helps to proactively manage



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