

MINKE is the first European project that will integrate the key European marine metrology research infrastructures to coordinate their use and development and thereby help the European EOVs monitoring sector face the challenge of sustainable management of marine ecosystems. The project proposes an innovative framework of quality of oceanographic data for monitoring and managing the marine ecosystems. MINKE has a new vision in the design of European marine monitoring networks considering a multidimensional approach of data quality, addressing in particular two dimensions, accuracy and completeness, as the driving components of the quality in data acquisition.

Considering the dimension of accuracy, it is important to take into account that at present only 2 oceanographic parameters are traceable to the International System of Units. This traceability will ensure, (i) that data collected all over the world can be comparable and (ii) that measures collected can be reasonably assumed to be in a defined interval of confidence.

To ensure data completeness, the project will explore cost-effective technologies to provide measurements at the increased resolution necessary for illuminating complex system processes and rapidly evolving changes in marine environments.

MINKE will provide the different involved actors (academic, private research communities, industry, civil associations) with easy access to high quality services and resources linked to the 16 key involved research infrastructures.

The project will provide case studies on how the collaboration between the metrology community and the oceanographic community can lead to an improvement of data use and exploitation to address pressing issues related to climate-driven and natural variability and ocean health.

MINKE is a European Horizon-2020 project under Grant Agreement No. 101008724.