



EXPRESSION OF INTEREST

selected HORIZON EUROPE calls under “Restore our Oceans and Waters mission”

CALLS FOR PROPOSALS

- HORIZON-MISS-2021-CLIMA-02-05 Local engagement of citizens in the co-creation of societal transformational change for climate resilience
- HORIZON-MISS-2021-CLIMA-02-02 Support to the regions in developing pathways towards climate resilience and corresponding innovation agendas
- HORIZON-MISS-2021-CLIMA-02-03 Towards asset level modelling of climate risks and adaptation
- HORIZON-MISS-2021-CLIMA-02-04 Large scale demonstrators of climate resilience creating cross-border value
- HORIZON-MISS-2021-CLIMA-02-01 Development of climate change risk assessments in European regions and communities based on a transparent and harmonised Climate Risk Assessment approach

Institute of Oceanology of the Polish Academy of Sciences (IO PAN) is interested in joining a larger consortium as a partner and contributing to a project under development.

OUR EXPERTISE AND OFFER OF COLLABORATION

The mission of the IO PAN is to seek, understand, and communicate the scientific understanding of the marine environment and the issues related to its protection and sustainable use. Our scientists and engineers achieve this by carrying out innovative, high-level scientific and technological research that further enhances our understanding of the environment, and provides expertise and new technologies which are then shared with the broader public and interested parties from the public and private sector. IO PAN conducts scientific research in the Baltic Sea and in the seas of the European Arctic.

Areas of Research:

- The role of the oceans in climate change and its effects on European seas
- The natural and anthropogenic variability of the Baltic Sea environment
- Contemporary changes in the coastal ecosystems of shelf seas
- Genetic and physiological mechanisms of the functioning of marine organisms; the basics of marine biotechnology



WE OFFER a pilot demonstration in the Gulf of Gdansk (PL) called BAY OF KNOWLEDGE - integrated system for acquiring, analyzing and sharing information about the state of the environment in the Gulf of Gdansk, supplied with data by: scientific institutions, national and regional institutions implementing the environmental monitoring program (WIOŚ, GIOŚ, IMGW), SANEPID, Maritime Offices, ports, coastal industrial plants, public utility institutions (health resorts, sanatoriums, etc.) and coastal residents and tourists.

Design and implementation - as a pilot large demonstrator - of the BAY OF KNOWLEDGE will enable:

- prediction of extreme weather phenomena as well as unfavorable and rapid changes in physico-chemical and biological conditions of the marine environment in the coastal zone;
- providing the society with objective and substantive information about the state of the environment, allowing for a conscious separation of real news from fake news;
- making accurate and advance decisions at all levels of management (not only crisis): local, regional and central,
- providing high-quality information on the environment to the inhabitants and visitors of coastal regions in the long term;
- increasing the social involvement of local communities and tourists in decision-making processes and dialogue on the sustainable development of seas and coastal areas.

EXPERIENCE IN HORIZON 2020 PROJECTS:

[ECOTIP](#) Arctic biodiversity change and its consequences: Assessing, monitoring and predicting the effects of ecosystem tipping cascades on marine ecosystem services and dependent human systems

[EUROSEA](#) Improving and Integrating European Ocean Observing and Forecasting Systems for Sustainable use of the Oceans

[CoastCarb](#) Coastal ecosystem carbon balance in times of rapid glacier melt

[EurofleetsPlus](#) An alliance of European marine research infrastructure to meet the evolving needs of the research and industrial communities

[Euro - Argo RISE](#) Euro-Argo Research Infrastructure Sustainability and Enhancement

See other projects [here](#).

CONTACT INFORMATION

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