

Pearl

PEARL

Port Environmental information collector

SPACE DATA FOR PORT MANAGEMENT

The primary objective of PEARL is the development of a Port Environmental Management System Platform capable of optimal exploitation of space and in situ data products and models.

PEARL aims at providing, for the first time, a tailor made platform focusing on ports and their environmental problems for user friendly access to in situ and space data, models, and means for their efficient combination.

To attain the overall objective, PEARL has set out the following aims:

- Acquire a good understanding of environmental needs of various port authorities;
- Review existing space data products, services, and in situ sensors; and select the most relevant ones for port authorities;
- Achieve the operational use of space data in the port sector;
- Consider existing environmental in situ sensors for the use in the port areas;
- Achieve an effective integration of space and in-situ data and models to provide the most relevant information for ports;
- Develop an integrated effective platform, capable of ingesting future data products and models;
- Provide the port environmental manager with a user friendly tool for accessing and interpreting all relevant information;
- Achieve a good degree of market integration of the service.

PEARL will also seek to exploit synergies with other EU research initiatives, and will educate the user community on the information available from space and in-situ instruments.

DEVELOPMENT OF SERVICES

So far, the PEARL project has provided an overview of the port sector market and of the requirements for marine environmental data. PEARL has also reviewed the existing space data products and services, models and in situ sensors used in ports and other sectors, and selected the most relevant ones suitable for the port authorities. The in situ sensors considered were those typically available at harbours, as well as new and forthcoming sensors for physical oceanography and pollution monitoring. Regarding space data, sources as ESA, NOAA, PODAAC, ORBIMAGE, AVISO, SSMI and model sources like ECMWF, MERSEA, and local meteorological model outputs were considered.

PEARL services will enable port authorities to access earth observation based information efficiently with respect to pollution. Oil and other types of marine pollutants could be monitored through the system. This will lead to improved enforcement for a cleaner marine environment.



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LIST OF PARTNERS

- Atos Origin, Spain
- BOOST Technologies, France
- ECOPORTS, The Netherlands
- French Research Institute for Exploitation of the Sea, France
- ABP Marine Environmental Research Ltd., UK
- Starlab Barcelona S., Spain
- Space Research Centre, Poland

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PROJECT INFORMATION

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Specific Targeted Research Project

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