



### The EU MAGPIE consortium

As a fellow port of the project, HAROPA PORT is proud to be contributing to Europe's sMArt Green Ports as Integrated Efficient multimodal hubs (MAGPIE) project, which is headed up by the port of Rotterdam (lighthouse port), working alongside with the port of Sines (Portugal) and Delta Port (Germany). This unique collaborative project in Europe is aimed at developing innovative technologies for the greening of maritime transport.

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MAGPIE is developing **innovation in a "living laboratory" approach**. A dozen pilot projects will be conducted in this way in three key areas :

- the energy transition and the development of alternative, low-carbon forms of energy,
- the digital transition as applied to port operations,
- connections to port hinterlands.

**The themes include the following:** bioLNG production; smart power systems; port digital twins (tools for managing greenhouse gases and matching energy supply to demand); a green energy container for inland waterway navigation; a hybrid shunting locomotive; innovations directed at increasing the use of green energy, and so on.



The various projects will be developed initially by the Port of Rotterdam and if the outcome of the trials is positive, HAROPA PORT, the Port of Sines and Delta Port will then be able to reproduce the project or projects of their choosing, depending on their needs and their local region.

The active contribution of HAROPA PORT as France's leading port to this project is totally in line with the goals defined in the area of innovation. It will also raise the Seine Axis major river/seaport's profile in the European and International port world.

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MAGPIE consortium has **44 European partners** (research bodies, universities and private companies).



71, quai Colbert, 76600 Le Havre  
+33(2) 79 18 05 00