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**Recovery of dredged  
SEDiments of the PORT of  
Ravenna and SILicon extraction**

**SEDI.PORT.SIL.**

European Commission  
ENV.E4 – LIFE Environment and Eco-innovation  
BU-9 2/1, B – 1049 Brussels



## **LIFE+ ENVIRONMENT POLICY AND GOVERNANCE**

LIFE+ Environment Policy and Governance is one of the strands of the European Union's main funding programme for the environment. It supports technological projects that offer significant environmental benefits. This part of LIFE+ also helps projects that improve the implementation of EU environmental legislation, that build the environmental policy knowledge base, and that develop environmental information sources through monitoring.

The Environment Policy & Governance component continues and extends the former LIFE Environment programme. It will co-finance innovative or pilot projects that contribute to the implementation of European environmental policy and the development of innovative policy ideas, technologies, methods and instruments. It will also help monitor pressures (including the long-term monitoring of forests and environmental interactions) on our environment.

### **THE SEDI.PORT.SIL. PROJECT**

The SEDI.PORT.SIL. project is intended to demonstrate the efficiency of consolidated treatment technologies coupled with innovative techniques aimed to the recycle and valorization of port dredged sediments, that can be considered an important resource rather than just a dangerous waste.

From a technical perspective, the project proposes an integrated cycle of actions to be applied to sediments (and associated water) right after the dredging, to reduce the environmental impact and maximize the percentage of material suitable for recycling. Decontaminated sediments could be suitable as raw material in the infrastructure and environmental engineering sectors. The use of polluted sediments for the extraction of metallurgic silicon is also investigated.

A pilot study will be firstly undertaken for some sediment samples dredged from the port of Ravenna, Italy. Afterwards we will analyze the applicability of the process at regional level, and we will evaluate the process repeatability in a different European context (port of Midia, Romania). The final goal is to develop a guidelines for treated sediment and raw materials reuse, and to assess the feasibility and sustainability for the realization of a treatment plant at the Port of Ravenna.