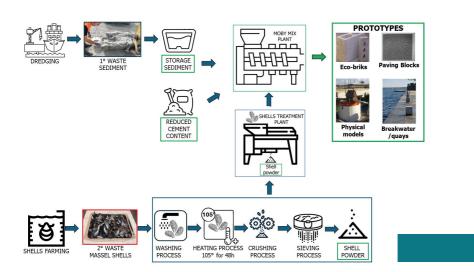
WHICH ARE THE MAIN ACTIONS FORESEEN BY GREENLIFE4SEAS?





Co-funded by the European Union



Project: 101114177 — LIFE22-ENV-IT-LIFE GREENLIFE4SEAS

GREen ENgineering solutions: a new LIFE for SEdiments And Shells

Coordinating beneficiary



Associated beneficiaries









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greenlife4seas

GREENLIFE4SEAS GREEN ENGINEERING **SOLUTIONS:** A NEW LIFE FOR SEDIMENTS AND SHELLS



GREENLIFE4SEAS is a courageous project that stems from the urgent need to find out sustainable solutions for two strong environmental concerns: the fate of 200 million of m3 of sediments, often contaminated, dredged in EU every year and the disposal of 490,000 tons/year of shells, as one of the most impacting EU aquaculture wastes.

GREENLIFE4SEAS will demonstrate the technical feasibility, full safety and commercial viability of breakthrough solutions for in-situ recovery and reuse of dredged sediments and shells, that will be used as secondary raw materials for the realisation of sustainable by-products by means of an optimised mixing technology.





WHERE GREENLIFE4SEAS ACTIONS ARE IMPLEMENTED?

GREENLIFE4SEAS SITES OF INTEREST





The activities of the project take place in four medium-large ports of the Mediterranean basin: Port of Bari (IT) / Port of Barletta (IT) / Port of La Spezia (IT) / Port of Piraeus (GR)







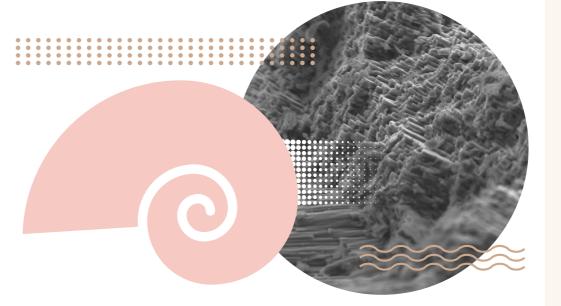
Port System of the Adriatic Sea (IT)



GREENLIFE4SEAS is carried out by a triple-helix model of Consortium, where synergy among research capitalisation, industrial symbiosis and governmental partners as primary stakeholders is the key to innovation and sustainable growth in a knowledge-based economy. The project results will epitomise a concrete contribution to improve the EU environmental policy for waste management, circular blue economy and aquaculture.

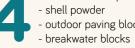
GREENLIFE4SEAS LONG TERM EFFECTS

- 2 innovative value chains (1 process: shell-mix with sediment-plant-products and powder shell chain).
- Industrialization and commercialization of GL4S mobile mixing plant.
- Industrialization and market uptake of the shell powder plant.
- Industrialization and commercialization of shell powder in different markets.
- Production and commercialization of 4 innovative products (paving blocks, breakwaters, stabilised mass and shell powder).
- Contribution for the updating of the national legislation on use of dredged sediments in Italy and Greece.
- Raising societal awareness on legal disposal of shells.
- Creation of new jobs involved in the new market chains.



GREENLIFE4SEAS IN NUMBERS





new sustainable products realised:

- shell powder

- outdoor paving blocks

- mass stabilisation

involved in the Mediterranean



partners involved from industry, university and research institutions, public bodies



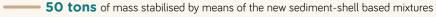
▶ 450sam

area paved by the new outdoor paving blocks in the port areas

▶ 30m

coastline covered by the new breakwater blocks





270 tons of sediments treated and transformed

—— 135 tons of sediments decontaminated

43.9 tons of reduced CO₂ emission due to the saved use of cement (replaced by shell powder)

50.9 tons of reduced CO₂ emission due to the avoided transport of sediments

1.6 tons of reduced CO₂ emission due to the avoided landfilling of sediments and shells

1.8 tons of reduced CO₂ emission due to the avoided inert extraction and transport













in-kind contributors involved from public and private industrial sectors, municipalities, networking organisations and research institutions worldwide.











