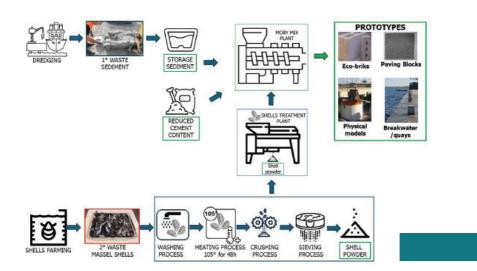
WHICH ARE THE MAIN ACTIONS FORESEEN BY GREENLIFE4SEAS?





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













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



WHAT IS GREENLIFE4SEAS?

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.

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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)



La Spezia (IT)





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.

- 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.

GREENLIFE4SEAS LONG TERM EFFECTS

- 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



- shell powder - breakwater blocks

new sustainable products realised:

- outdoor paving blocks

- mass stabilisation

involved in the

in-kind contributors involved

organisations and research

institutions worldwide.

from public and private industrial

Mediterranean



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



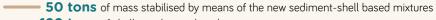
▶ 450sam

area paved by the new outdoor paving blocks in the port areas sectors, municipalities, networking

▶ 30m

coastline covered by the new breakwater blocks





—— 120 tons of shell powder produced

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



