

Protecting marine
Ecosystems from invasive
alien species (IAS)
by creating new value
chains from their underexploited
biomass feedstock



Horizon-MSCA-2022-SE-01
Valorization of Marine Invasive Alien
Species (IAS) a Pathway Towards the
Protection of European Marine Biodiversity:
From Destructive Invaders to a Source of Wealth

318 Secondment months
to implement 5 research steps

1

Marine invasive alien species will be selected based on collection of existing data in terms of presence (distribution), abundance, biology, ecology, toxicity and potential uses (i.e., as fishfeed, food and cosmetic industry).

2

Use of underexploited feedstock biomass to extract valuable compounds in high selectivity, yield and purity via green extraction methods - Evaluation of toxicity and safety of ingredients for food and feed application.

3

Encapsulation of bioactive compounds using proteins and/or polysaccharide mixture as carriers in order to increase bioactivity and controlled release, developing stable and safe formulations.

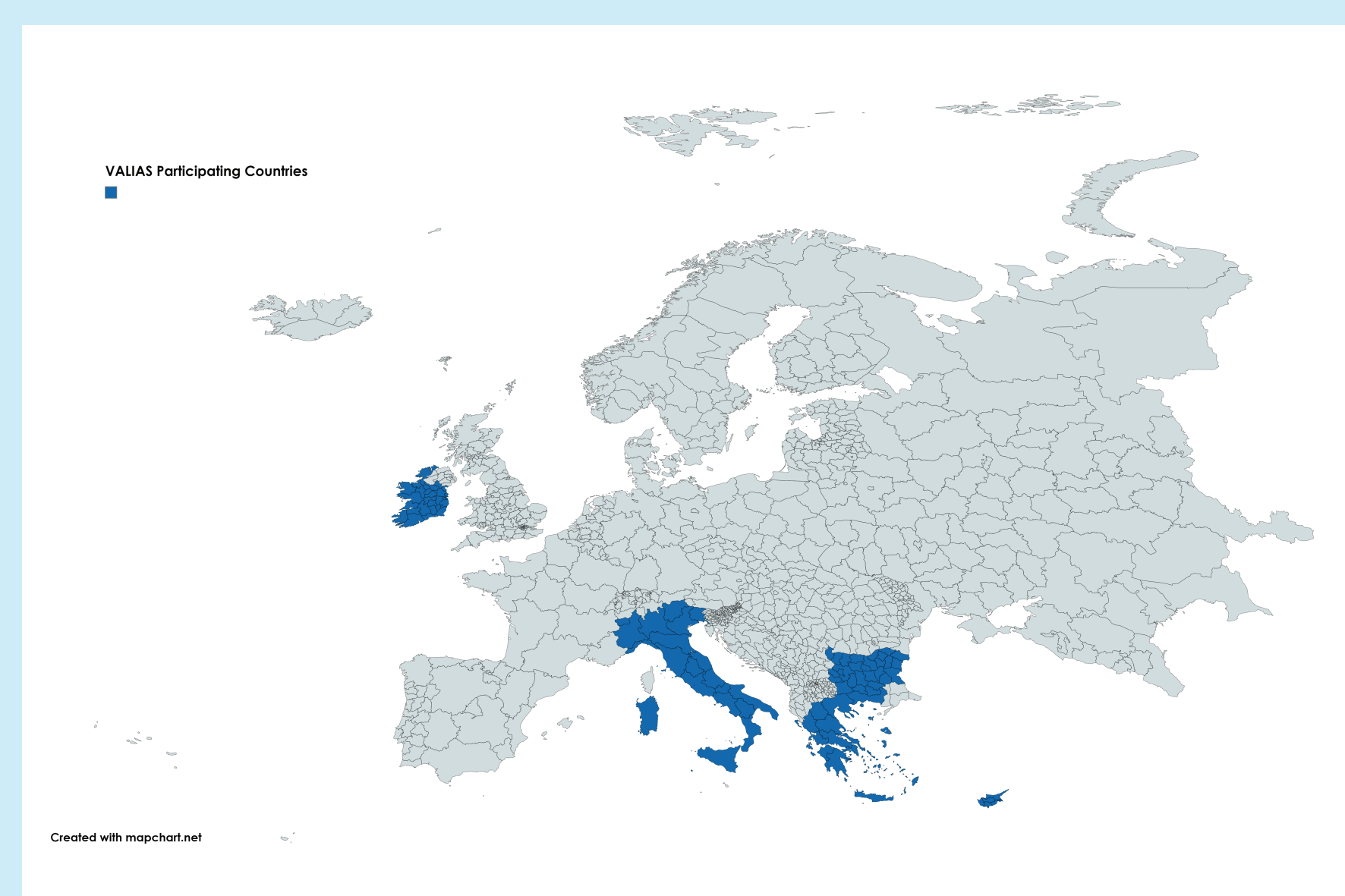
4

Development of stable and safe functional food, fishfeed and cosmetic products. Implementation of preliminary market research for VALIAS products indicating their commercialization potential.

5

Life Cycle Analysis (LCA) to assess the environmental impact of processes and new products - Socio-techno-economic assessment of processes for final product development.

PARTNERS



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