



# EUTOPIA\_HEALTH Hackathon

## Challenge launched by [Testa & Cunhas, SA](#)

### Mission of the company:

Fishing and aquaculture family owned company respecting the principles of sustainable exploitation of the ocean, is able to provide consumers with a first-class product that is safe and nutritionally unmatched.

### Title of the challenge (one question):

How might we assess the medical and/or nutritional use of innovative marine ingredients derived from blue mussel, horse mackerel, and Atlantic chub mackerel, including their extracted oils, to determine their potential for commercialisation in the EU market?

### Brief description of the context/problematic behind the challenge:

Family-owned since 1927 and operating a vertically integrated marine value chain in Portugal, the company Testa & Cunhas aims to produce organic-certified mussels and sustainably sourced fish species using advanced processing technologies (HPP, freeze-drying, and supercritical CO<sub>2</sub> extraction) to create high-value powders and oils. The main challenge is to define a clear European regulatory and scientific compliance pathway, including complete technical files, for **blue mussel (Blue mussel), horse mackerel (Horse mackerel), Atlantic chub mackerel (Atlantic chub mackerel), and their extracted oils, ensuring full alignment with EU food safety, hygiene, contaminant, labelling, and Novel Food requirements** to enable compliant market access for innovative marine ingredients.

### Expected results/outcomes:

The expected outcome is the establishment of a clear regulatory and scientific compliance framework for stable, highly concentrated, solvent-free marine ingredients with preserved nutritional and bioactive profiles, ensuring alignment with European requirements applicable to food, nutraceutical, and functional ingredient markets.