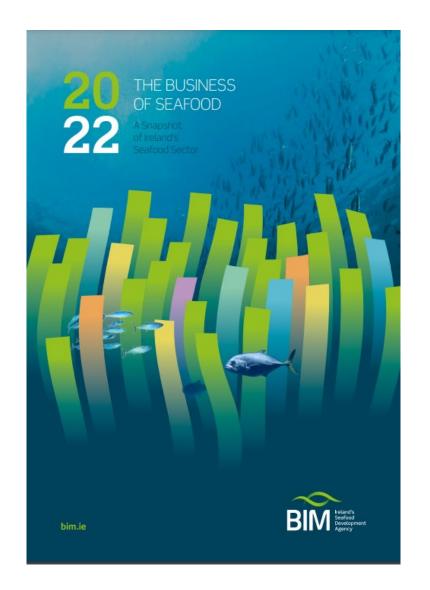
Sustainability & The Circular Economy















Breakdown of **Top 20 Landed Species**by the Irish Fleet







Factors affecting profitability















Byproducts



A by-product or byproduct is a secondary product derived from a production process, manufacturing process or chemical reaction; it is not the primary product or service being produced.







Species:









Horse Mackerel



Mussel

Research Partners:







End Products:













- Protein hydrolysates represent key ingredients to enhance significantly the feed nutritional value of petfood's, providing a high level of essential small soluble compounds.
- Hydrolysate can be used as a pet food additive to reduce weight gain
- H&G gelatine hydrolysate has the potential to be used as an ingredient in pet food for maintenance of blood pressure and prevention of high blood pressure.
- It also has a potential anti -inflammatory role
 as ACE-I is also a target in terms of vascular
 inflammation

The global pet food sector is worth ~ €1 billion per annum and the US market represents about 50% and the EU around 25% of this market.







The global market for Plant Bio-stimulants is projected to reach ~€3.5 million by 2025, driven by the growing focus of governments worldwide to reduce agriculture's growing carbon footprint and make it more sustainable.



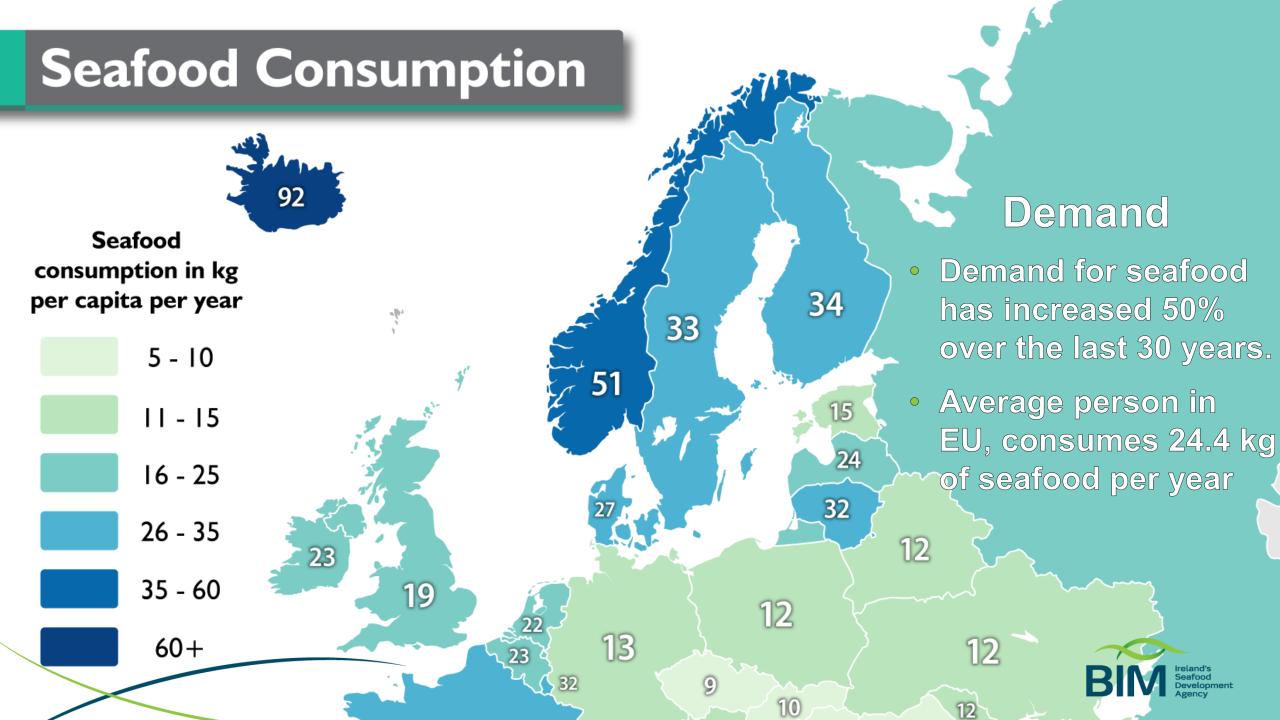


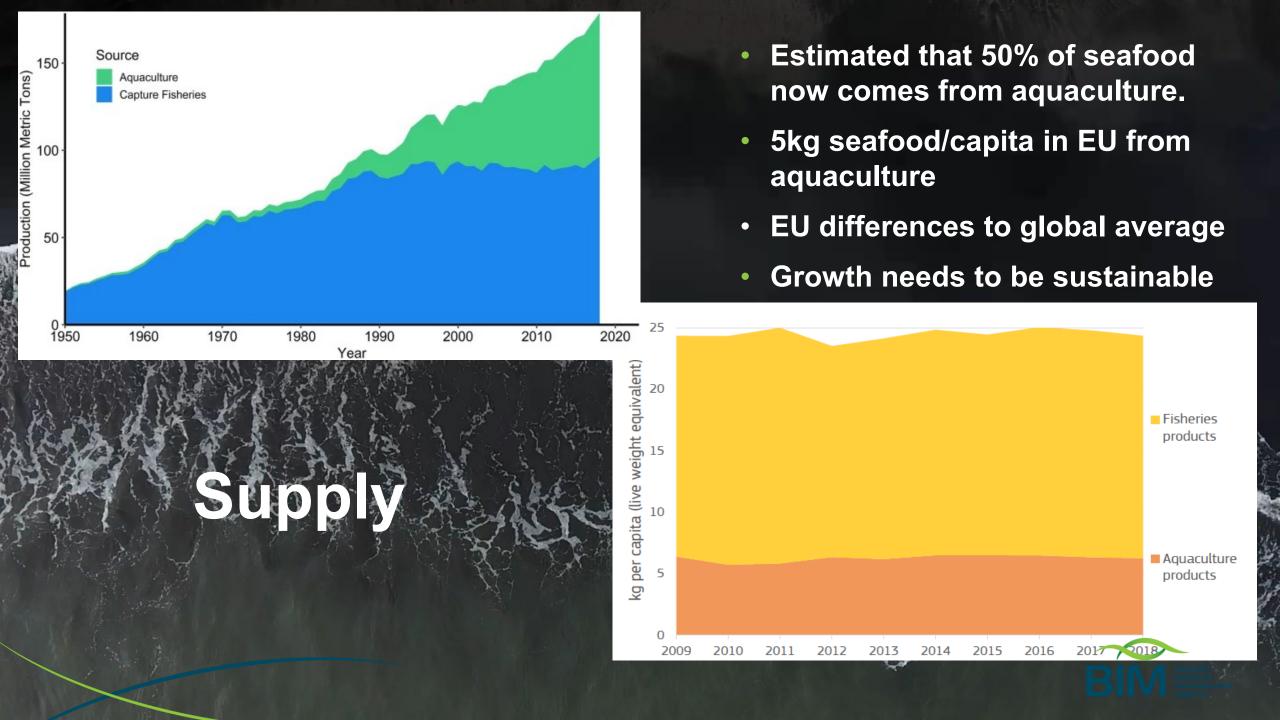
- Blood-waters represent a source of essential amino acids and fatty acids that have potential for use as biostimulants.
- The application of mackerel bloodwaters and salmon and whitefish blood-waters independently at a dose rate of 5% (w/v) to horticultural plants basil, dill, chives and cayenne peppers enhanced seed germination by almost 30% over a 16 day period compared to a control (water).

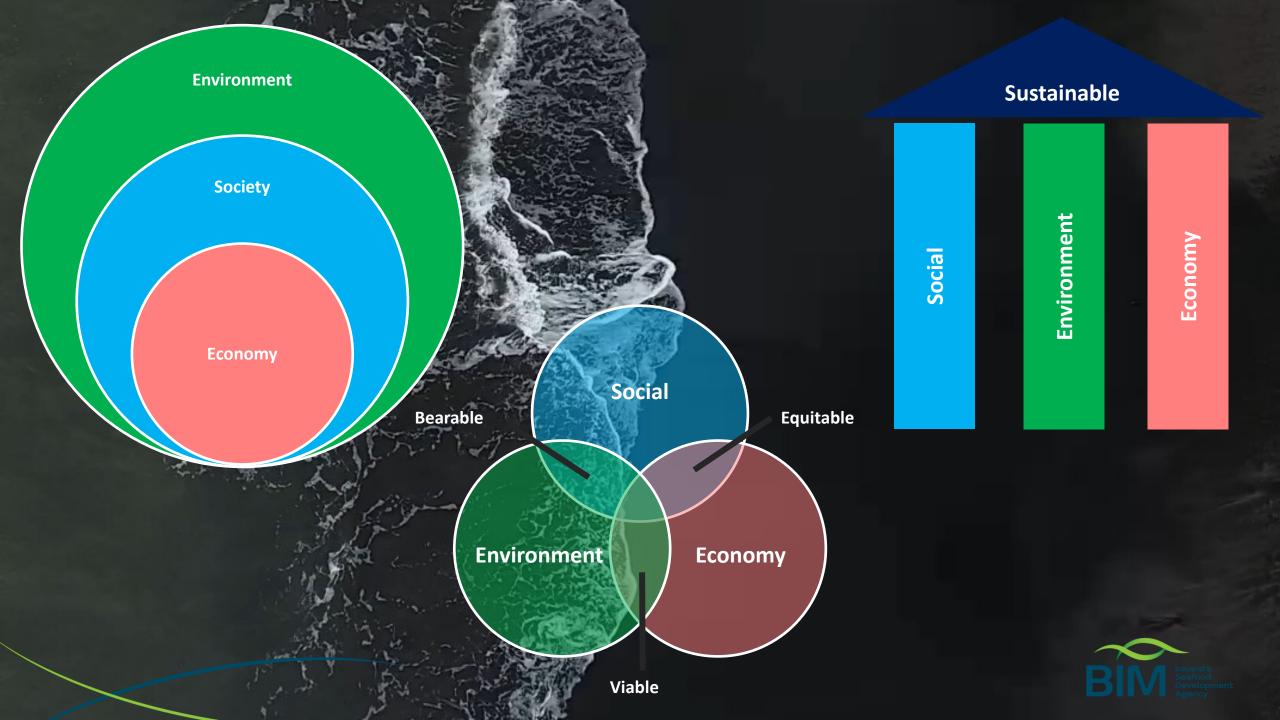
























Carbon Footprint report of the Irish Seafood Sector









Economic Sustainability **Innovation Environmental** Report **Social**

Sustainability In Motion





- Develop simple KPIs across the pillars
- Env surface use (kg/ha), emissions (kg CQ₂ eq./kg)
- Soc age, permanence of farmer/farmer
- Econ labour productivity, profit, GVA
- Innov new processes, new products



Sustainable and circular bioeconomy

[səsˈteɪnəbl ænd ˈsɜːkjʊlə ˈbaɪəʊi(ː)ˈkɒnəmi] - adjectives + noun

An agrifood model promoting biological innovation, responsible consumption and production, and zero waste.















Summing it all up

- The Seafood sector is a sustainable food production sector
- The seafood sector is a relatively low GHG emitting sector
- Irish seafood is a relatively low carbon food
- Need to develop and promote KPIs that highlight the environmental and sustainability credentials of the sector





Thank you for your time

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