THE CONTRIBUTION OF AQUACULTURE TO THE CIRCULAR ECONOMY

- THE USE OF BY-PRODUCTS IN MARINE INGREDIENTS



LIBBY WOODHATCH EXECUTIVE CHAIR, MARINTRUST THURSDAY 30 NOVEMBER



Our Programme



We want to improve responsible fishery sourcing and production of marine ingredients (fish meal and fish oil) globally and aim to keep improving the responsible sourcing and production of global marine ingredients through an accessible programme based on independent, third party conducted audits.

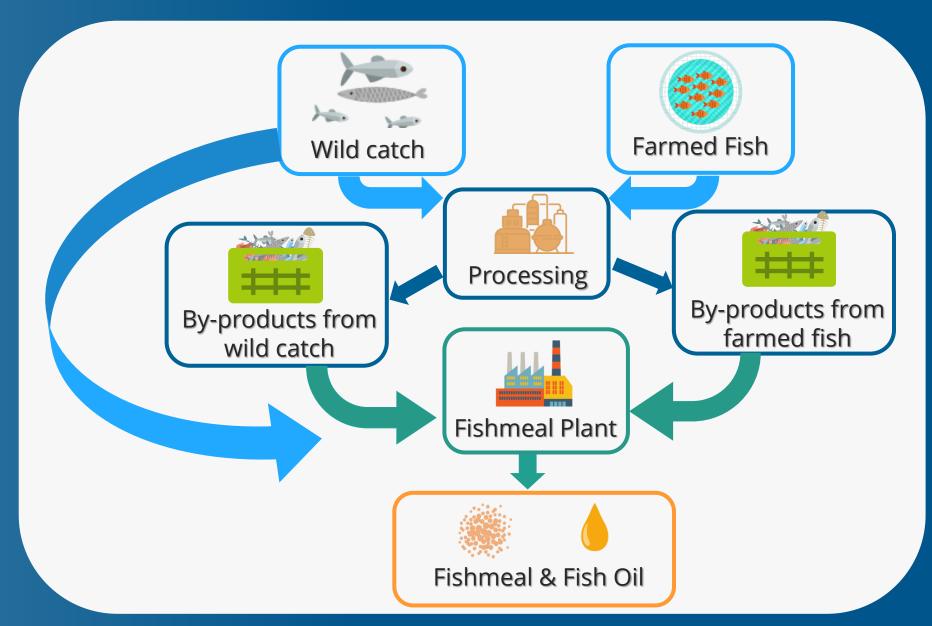






Sourcing & production of marine ingredients





MarinTrust Value Chain



PRODUCT CERTIFIED STORAGE & ANIMAL FEED & INGREDIENT SOURCING PROCESSING TRADING SUPPLEMENTS INGREDIENTS PROCESSING marin Trust marin Trust CHAIN OF CUSTODY CHAIN OF CUSTODY Fishmeal marin Trust Fishery Quality feed Storage & Trading Feed Plant Fish oil **Marine Ingredients** marin Trust marin @ Factory CHAIN OF CUSTODY CHAIN OF CUSTODY FEM/S By-products Fish oil Fish oil

Storage & Trading

Supplement plant

END USE



Human consumption



Pet food



Health supplements

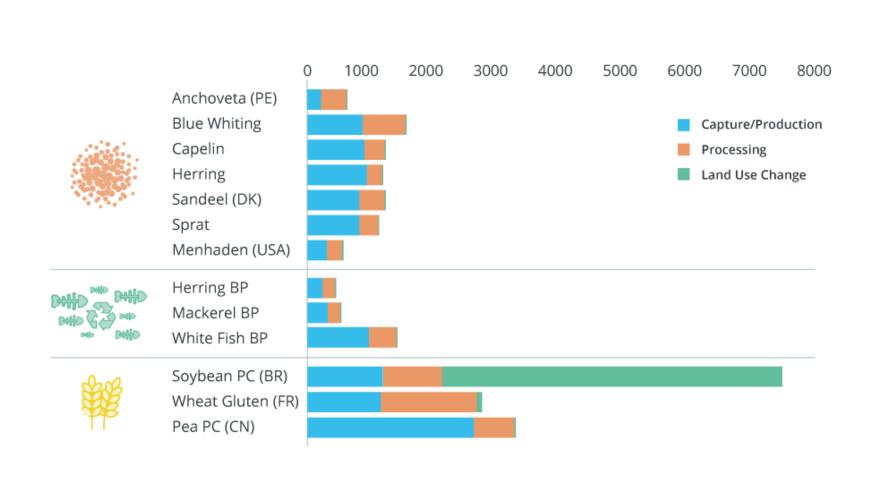


Cosmetics

supplements

CARBON FOOTPRINT (KG CO2 EQ. PER TONNE OF PRODUCT)





Source: based on data provided by Dr Richard Newton. University of Stirling, UK

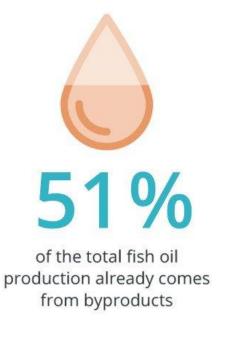


The use of by products, which would otherwise have been discarded, reduces pressure on the oceans



comes from byproducts





Source: IFFO

Approved by-products





Approved by-product raw material from wild capture sources MarinTrust also recognises by-products from aquaculture species.



Facilities in 20 countries















Sardinella







Plaice

Next steps: Moving marine ingredients forward through continuous improvement



accessibility for responsibly sourced and produced marine ingredients.

Version 3: The Factory **Standard**

Progressing the Standard's focus on environmental, and social impacts, both at the factory and on the vessels.

Encouraging the use of **by-products.**

Laying the foundations towards **fully traceable** marine ingredients through standardisation of data.



Thank you www.marin-trust.com