

Reducing our reliance on marine resources

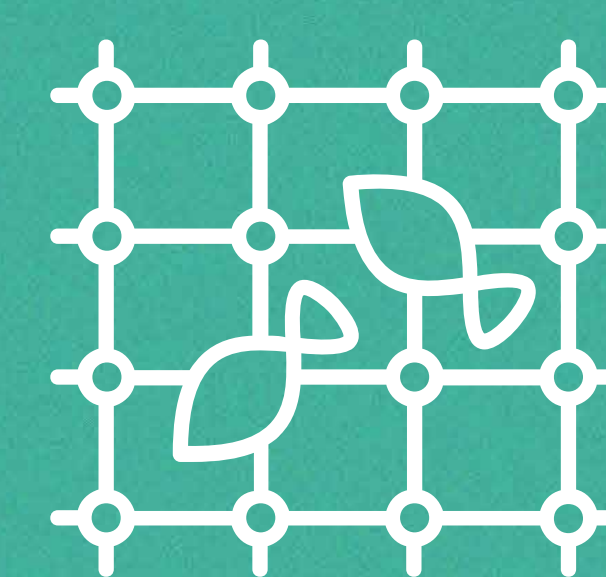
THE CONTEXT

Over **3 billion people** consume seafood as at least **20% of their daily protein intake**



By 2030 the demand for seafood estimated to rise by **~30 million tons**

33% of ocean fisheries are **overfished**

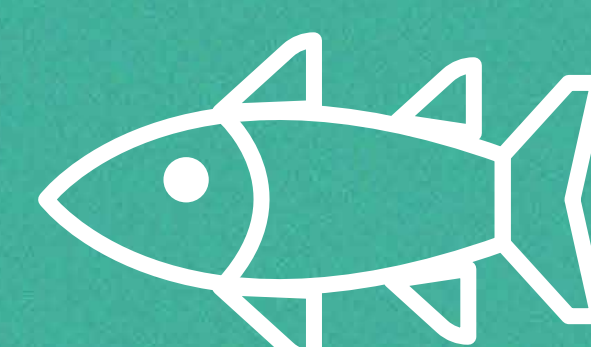


BUT

Aquaculture also relies on wild caught fish for fish feed as a source of:



Omega 3 EPA & DHA, derived from fish oil



Protein

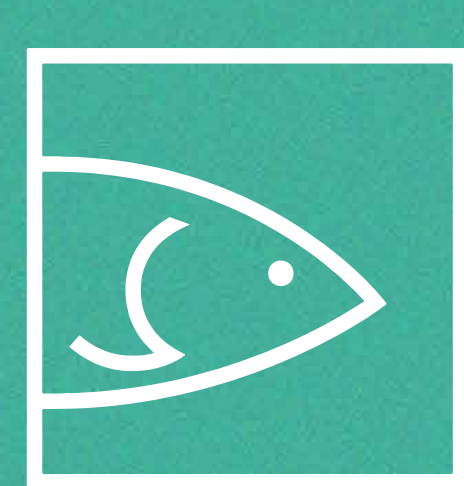
OUR AMBITION

Reduce our reliance on finite marine resources for fish feed, by developing alternative sources of:

Omega 3 EPA and DHA and protein raw materials

to meet the demand

OUR SOLUTIONS



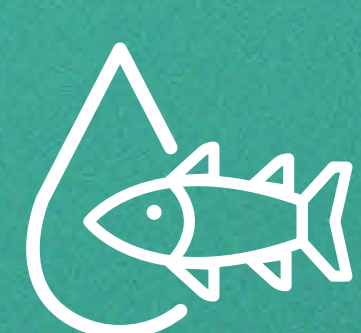
Veramaris®



Cultivates natural marine algae, in a large-scale, land-based, waste-free production



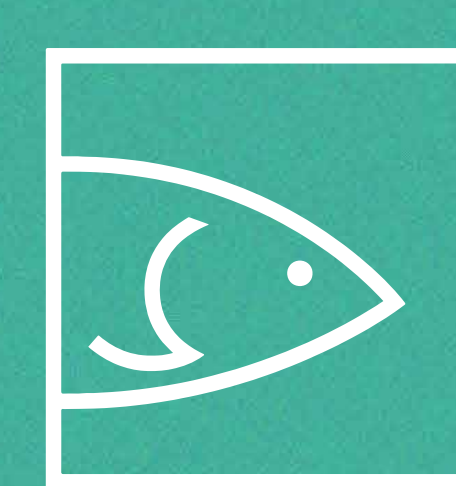
Produces algal oil with 2X omega-3 EPA and DHA as fish oil



1 ton Veramaris® algal oil = 60 tons of wild catch



reduced reliance on fish oil



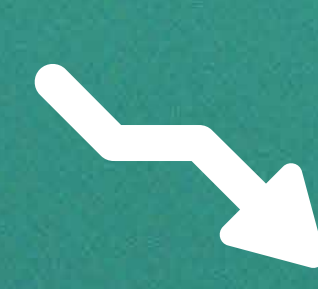
Feed Enzymes



Improves digestibility + increases nutritional value of plant-based feed raw materials



Enhances fish growth in low and zero fish meal diets



Lower levels of fish meal needed in fish diets



Greater flexibility in feed formulations + reduced reliance on fish meal

THE RESULT

Ground-breaking solutions that help aquaculture **grow sustainably** and produce **healthy, nutritious seafood**

Reducing our reliance on our finite marine resources



If not us, who? If not now, when?
WE MAKE IT POSSIBLE

Find out how DSM can help transform animal nutrition and health sustainably at www.dsm.com/wemakeitpossible

ANIMAL NUTRITION AND HEALTH



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BRIGHT SCIENCE. BRIGHTER LIVING.