

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