



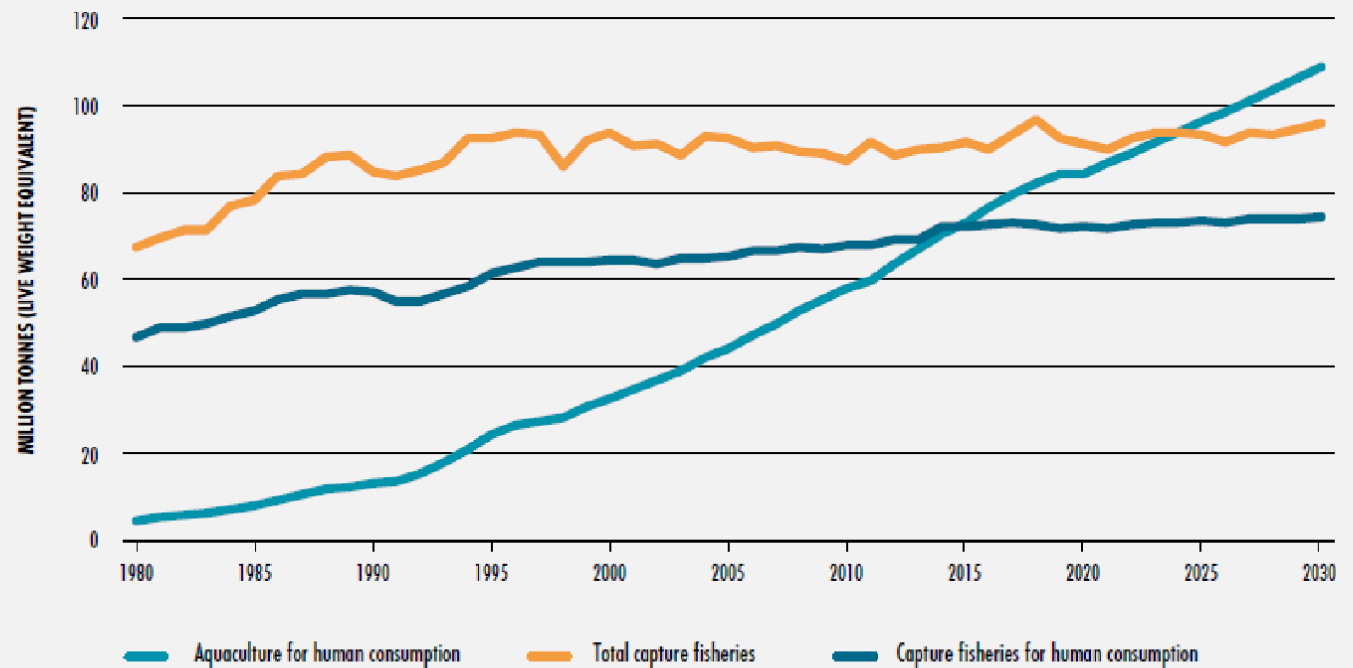
Novel ingredients in aquaculture

October 2020





FIGURE 53
WORLD GLOBAL CAPTURE FISHERIES AND AQUACULTURE PRODUCTION, 1980–2030



INCREASE IN
AQUACULTURE PRODUCTION

+ 27 million
tonne



+ 40 million
tonne

RAW MATERIALS

These must be sourced responsibly
contributing to fulfilling the UN
sustainability development goals

12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



13 CLIMATE
ACTION



14 LIFE
BELOW WATER



15 LIFE
ON LAND



17 PARTNERSHIPS
FOR THE GOALS



Aquafeeds

25^{years}
ago

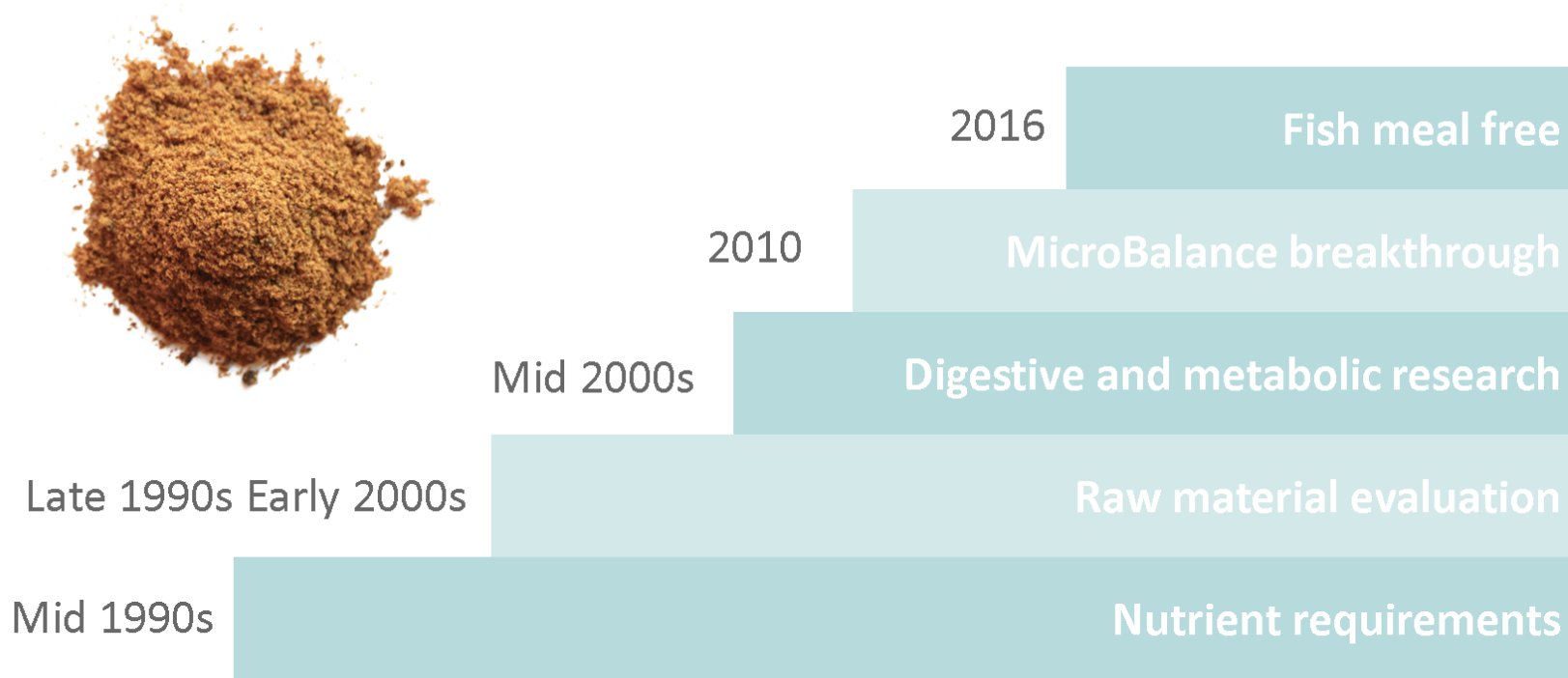


Fish meal

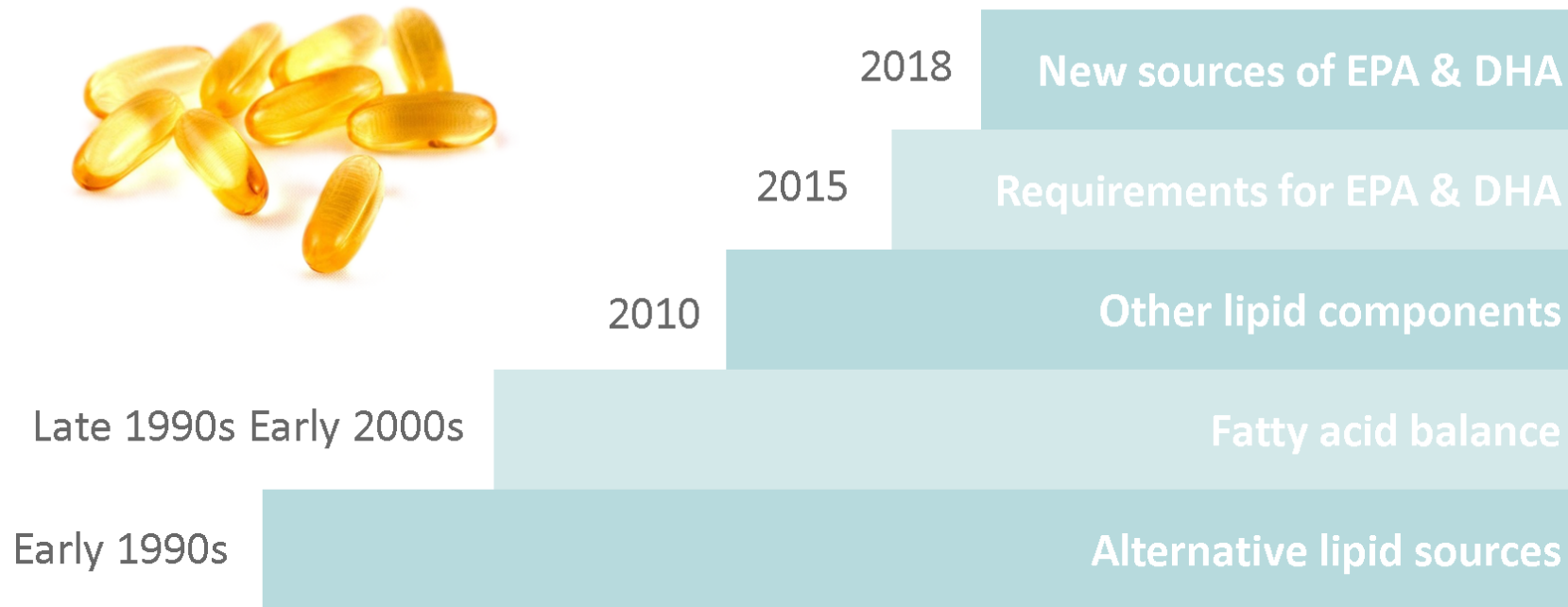
Fish oil

Wheat

Research on **fish meal** substitution in salmon



Research on **fish oil** substitution in salmon



Fish meal and Fish oil replacement – a collective effort



RAFOA



Aquafeeds Today

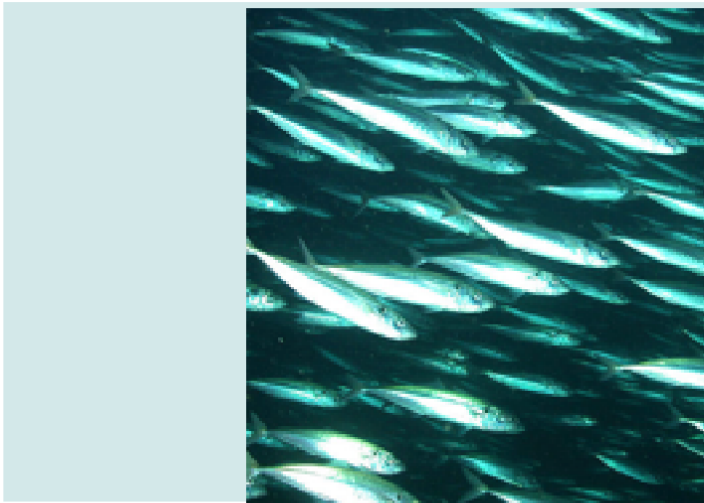


Up to 50
ingredients per
feed

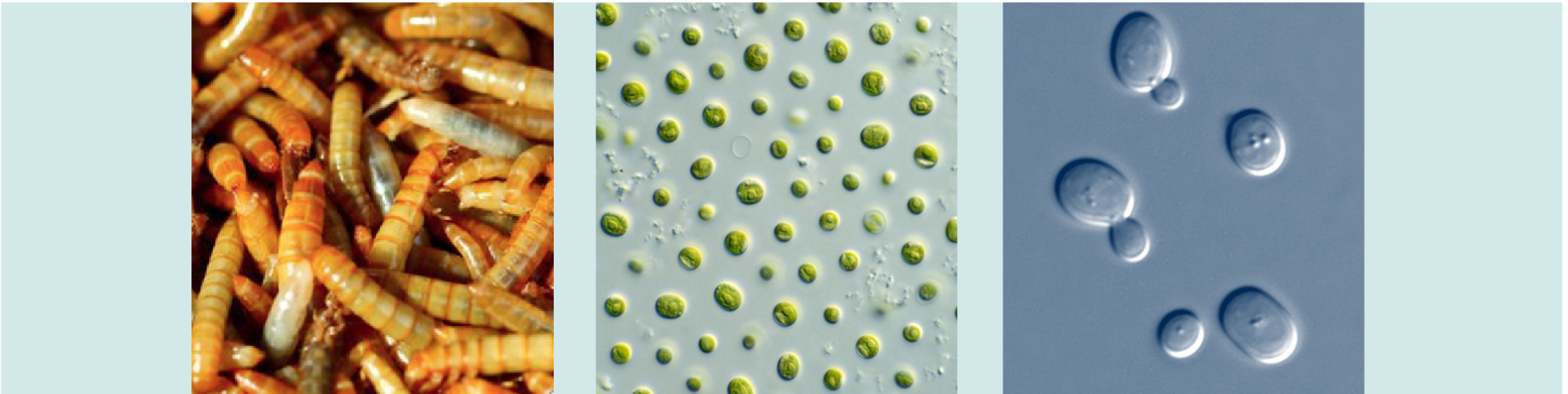
Marine

Vegetable

Animal



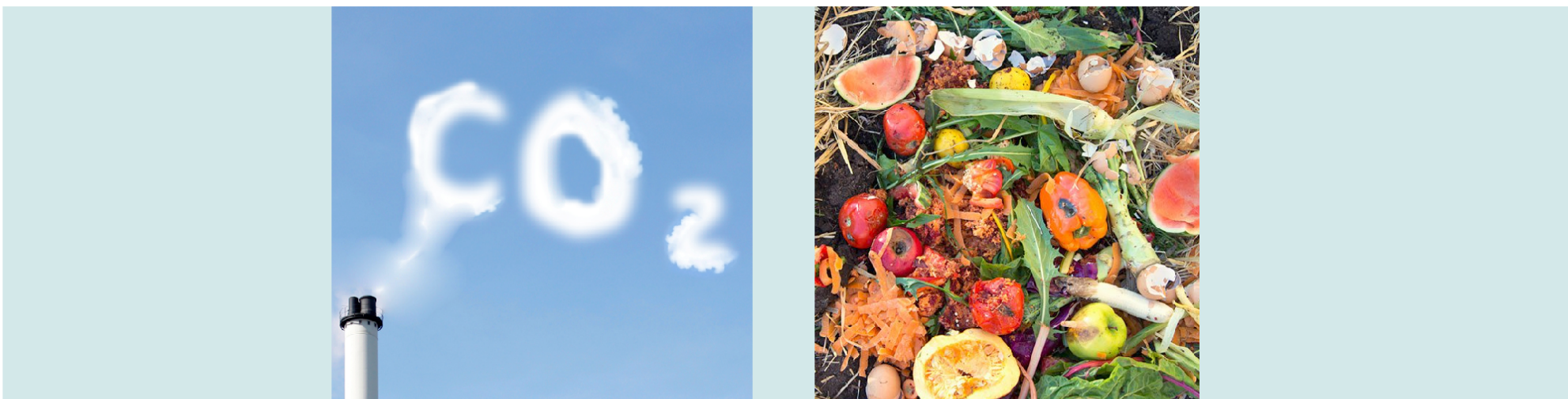
Insects and microbial ingredients



Low value streams



CO₂ capture and waste streams

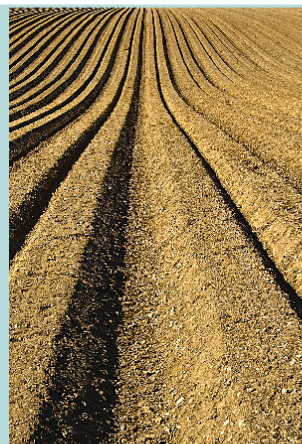




Deforestation



Water use



Arable land



Pesticides



Carbon emissions

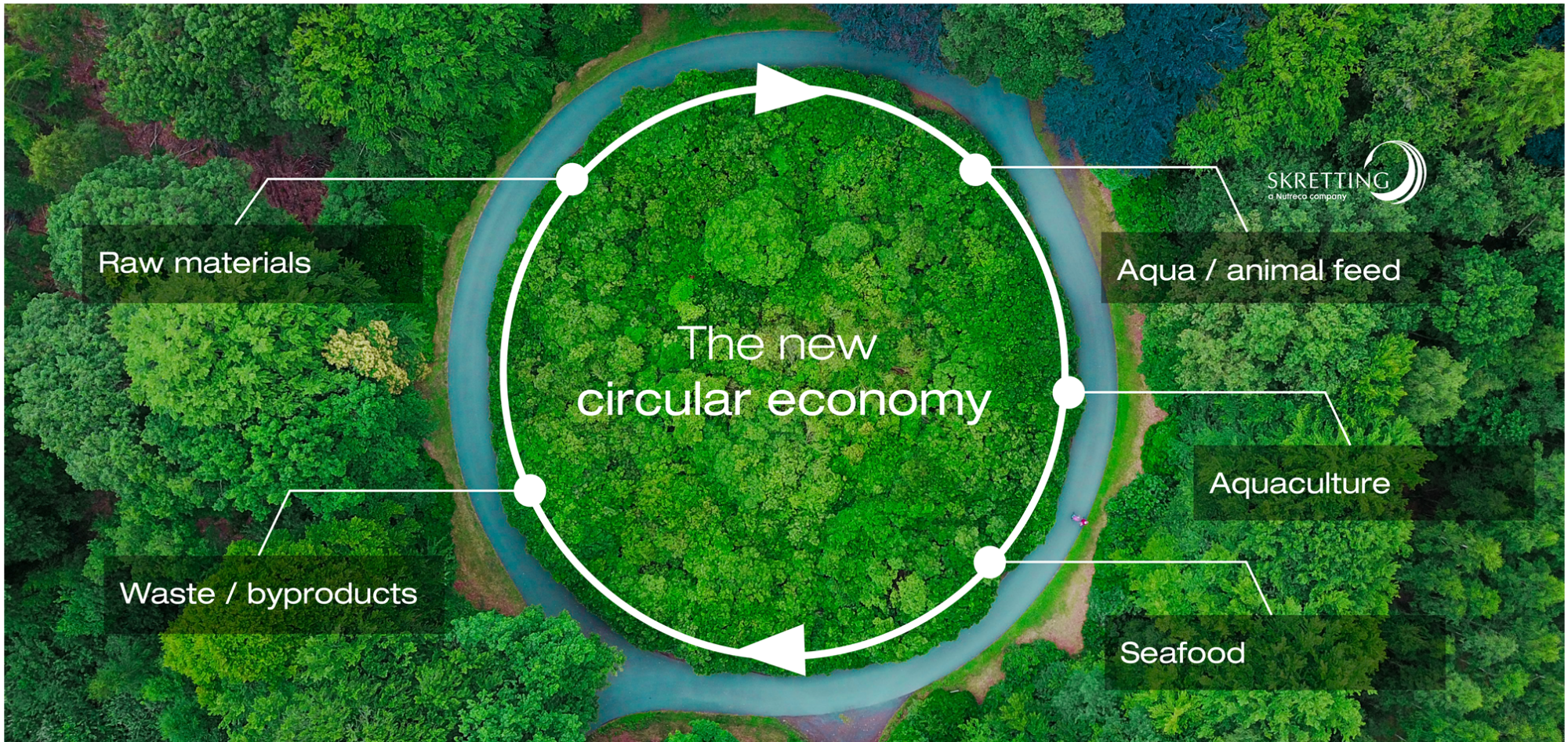


Fertilisers

**NOVEL
INGREDIENTS**



**ENVIRONMENTAL OR
SOCIAL FOOTPRINT**



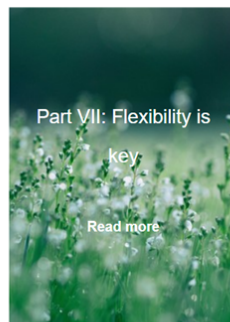
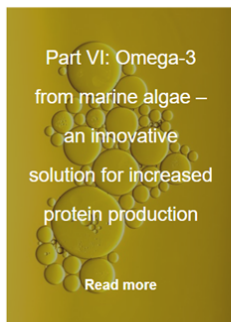
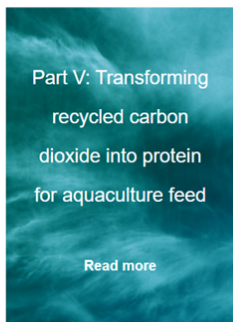
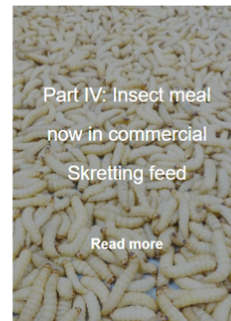
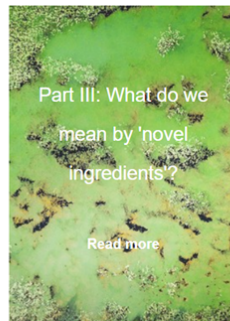
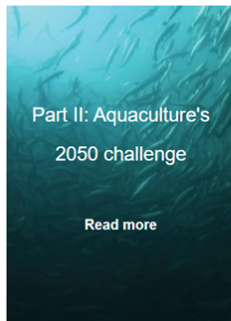
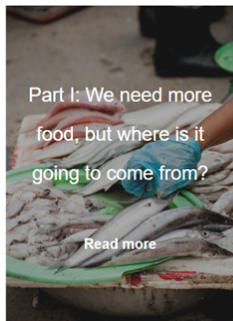


Ingredients

Creating a sustainable base for fish and shrimp feed

Skretting is always seeking to expand our knowledge of the nutritional composition of aquafeed ingredients as well as the impacts of the supply chains that create them. This helps us to deliver products that enable farmers to produce more from less, and by doing so we address three United Nations Sustainable Development Goals (SDGs).

Changing the way we think about ingredients



<https://www.skretting.com/en/sustainability/ingredients/>

THANK YOU

