



# Presentation to EUfishmeal workshop on sustainability and responsible sourcing of fishmeal and fish oil

October 2019  
Copenhagen



# What we do

- Expose irresponsible corporate practices
- Goal: drive change towards a more sustainable economy
- Sectors: pharmaceuticals, fisheries, textiles, resource efficiency & circular economy, nutrition...
- Partnerships and coalitions with other NGOs, researchers, investors etc.

# Context



Era of unprecedented threats to ocean ecosystems



12 years to limit global warming to 1.5°C



3-25%: projected decrease in fish biomass by the end of the century



66% of marine environments “severely altered” to date by human actions

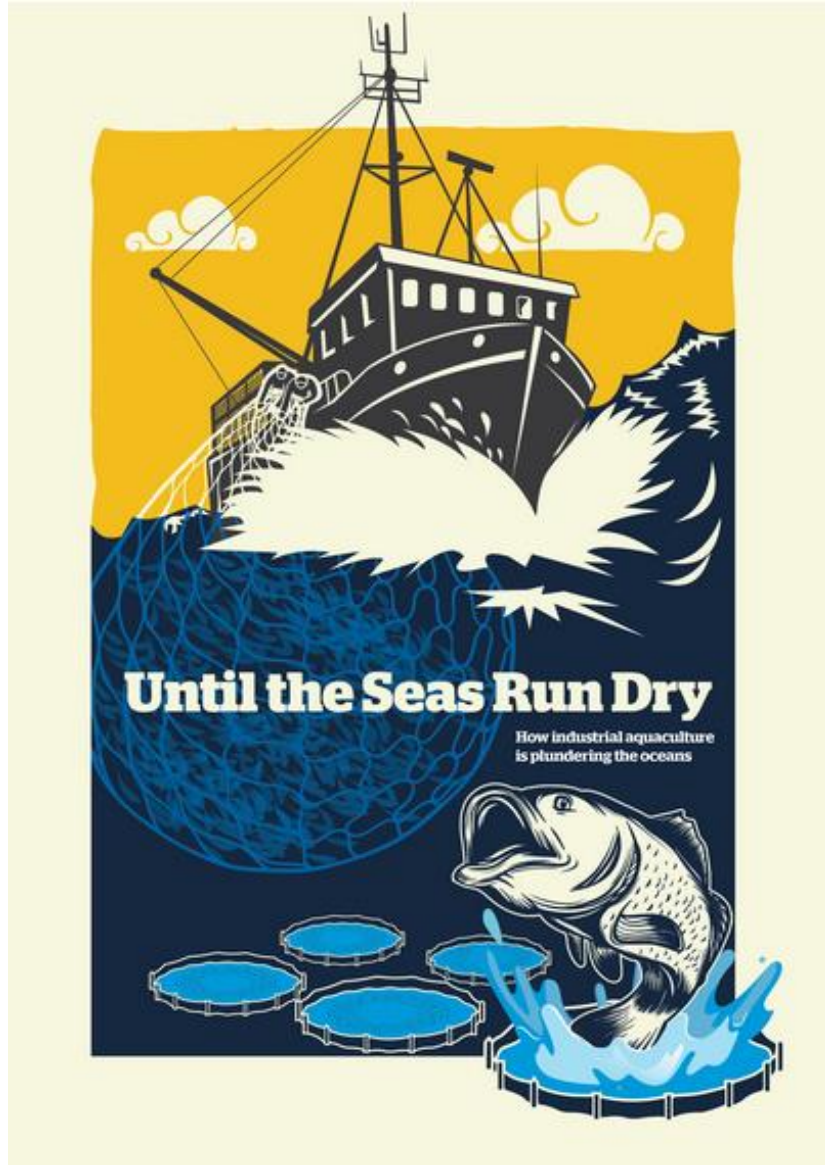


More than a third of all marine mammals are under threat



Up to 33% of world’s reported fish catch is illegal, unreported or unregulated (IUU)



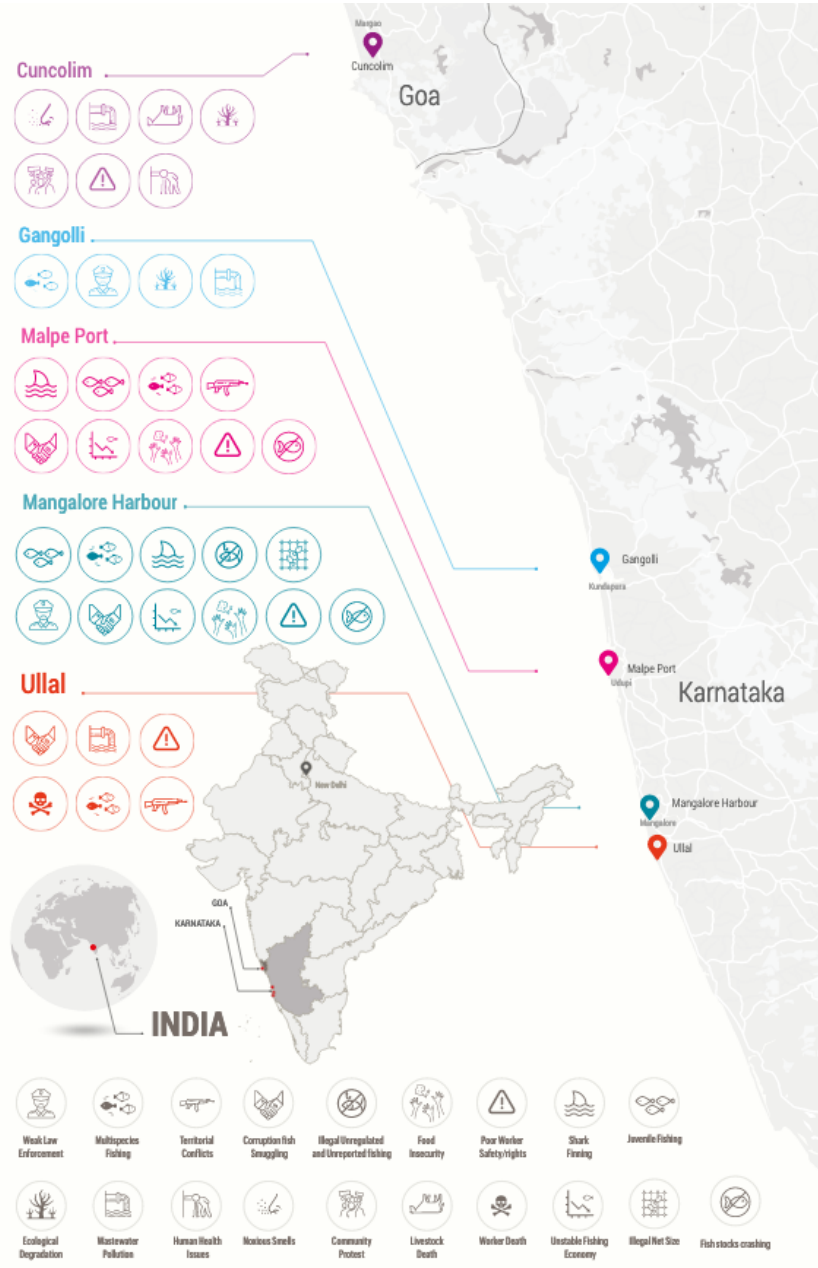




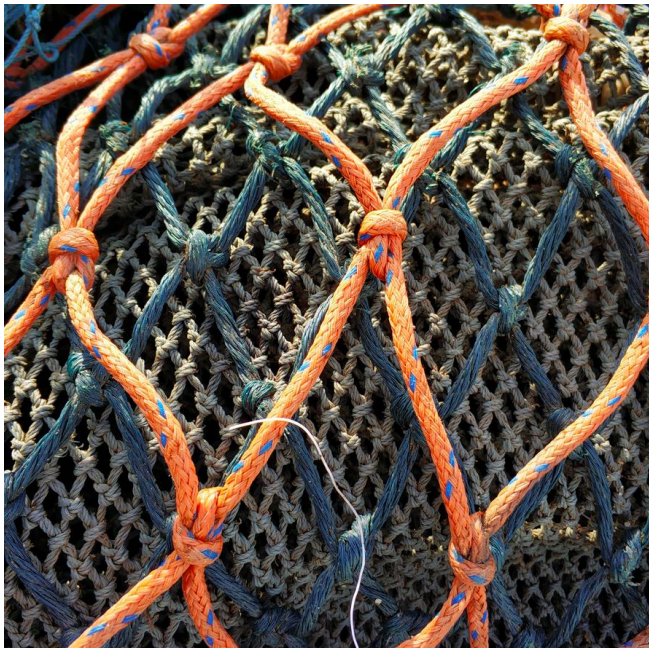
## **Key findings from India, Vietnam and The Gambia**

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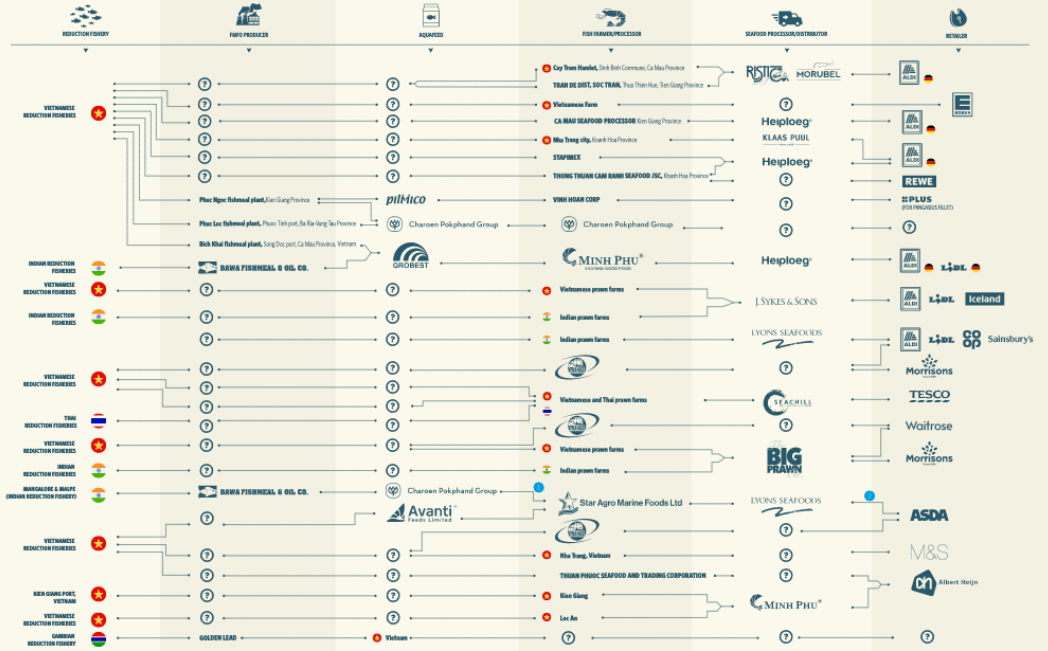




# Global Supply Chains

## European retailer links to reduction fisheries - prawn

The information displayed here was obtained from a variety of publicly accessible sources, in other words, interviews and our country investigations. It must be noted that without total transparency and transparency, it is impossible to establish an exact category of a given quantity of raw fish through FPOC production to address and then display. FARMING IS A BUSINESS AND WE ARE NOT INTERESTED IN THE FISHING INDUSTRY. IN CASES WHERE WE HAVE BEEN ABLE TO ESTABLISH THAT A FPOC PART IS SUPPLYING A SPECIFIC ADVERTISED COMPANY AND THAT THAT ADVERTISED COMPANY SUPPLIES A FISH FARM OR FISH FARM, THIS IS INDICATED FOR ILLUSTRATIVE PURPOSES TO DEMONSTRATE THE CONCERNING APPLICATION OF EUROPEAN RETAILERS AND ADVERTISED COMPANIES WITH RELEVANT UNDESIRABLE PRACTICES AT THE FARMER LEVEL.

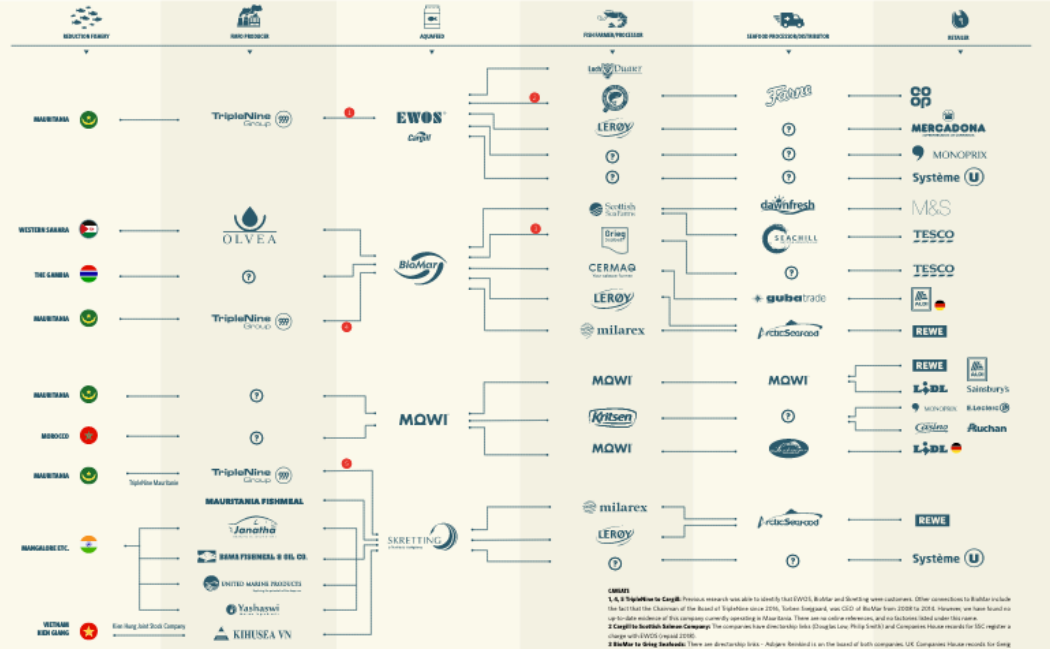


1 **OP Foods - Star Agri:** This comes from a 2014 corporate presentation obtained by Changing Markets but could easily have changed over the past five years.

2 **Star Agri - Arctic:** Industry news articles strongly suggest ASDA (now Lidl) was once being supplied by Star Agri in late 2018 & ended its contract with Young's and signed with Lidl according to industry sources, and we report stated that it is "understood that which and power own label work is involved in the contract."

## European retailer links to reduction fisheries - salmon

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1 **EWOS:** EWOS is a company that is a member of the Board of Directors since 2016. EWOS, Buller and Breding were customers. Other connections to Buller include the fact that the Chairman of the Board of Directors since 2016, Torkel Songstad, was CEO of Buller from 2008 to 2016. However, we have found no link to other evidence of this company currently operating in Mauritania. There are no other references, and no Buller listed under this name.

2 **English Seafood Sales Company:** The company has been listed in the Register of Companies in the United Kingdom since 2010. It is registered as a company with a change with EWOS in 2010.

3 **Buller to King Salmon:** There are directorship links - Adlene Rendell is on the board of both companies. UK Companies House records for King Salmon Ltd and also register a link with Buller in the late 1990s and early 2000s.



# Risks for companies

- Disruption of supply
- Rising costs of raw materials
- Reputational damage
- Competitive risk

# Is projected growth of aquaculture production sustainable under BAU?



Huge growth over coming decades: doubling of production by 2050?



Aquaculture industry still heavily reliant on wild-caught fish for feed

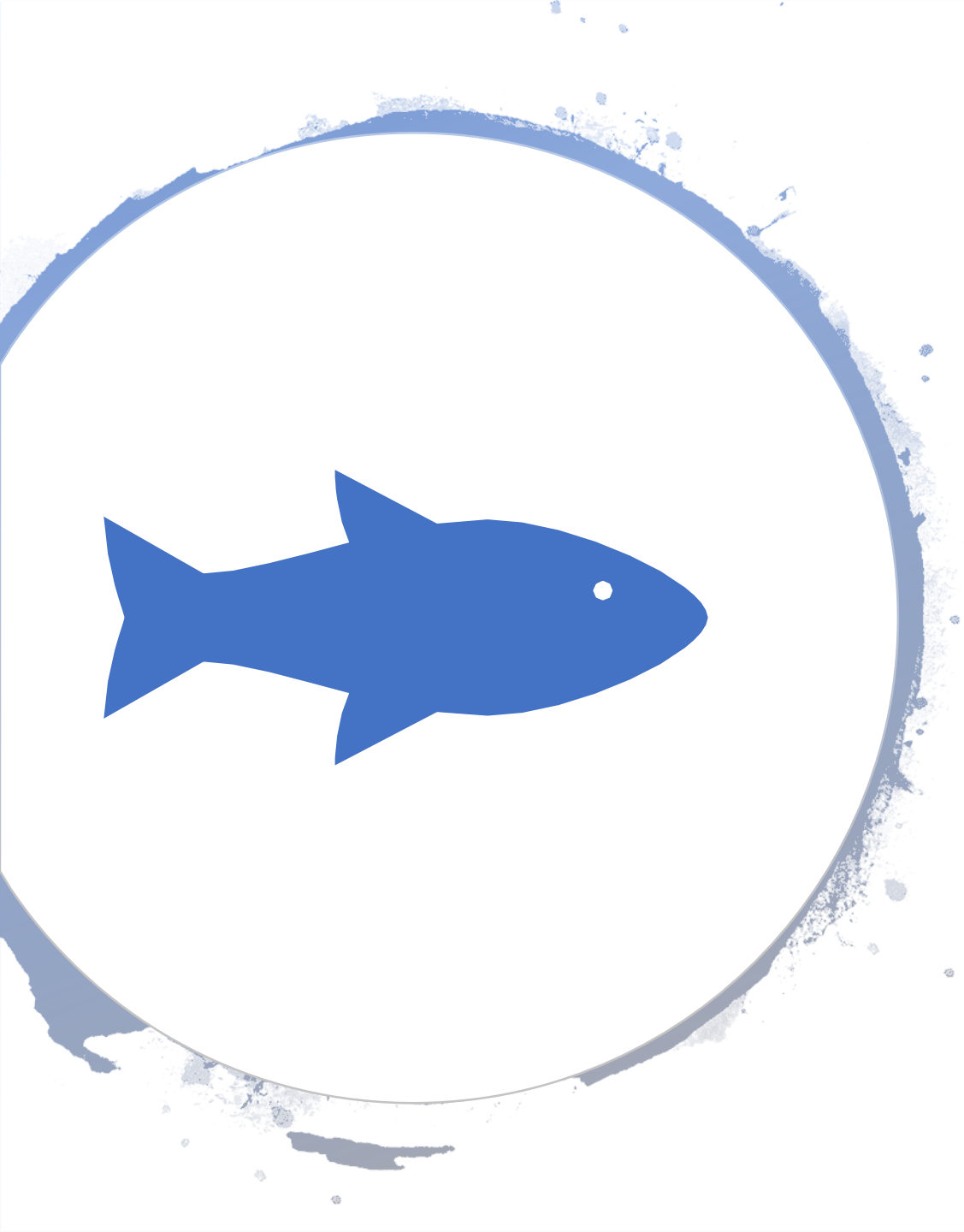


Major aquafeed producers sourcing from problematic regions



Some companies actively pursuing new sources in the ocean, fishing further down the food chain as fish stocks become depleted.





*“The global limit of wild-caught fish, the rapidly increasing production of fed aquaculture and international advice to increase fish consumption for human health and nutrition will create a tipping point of feasible seafood supply.”*

*(Froehlich et al 2018)*

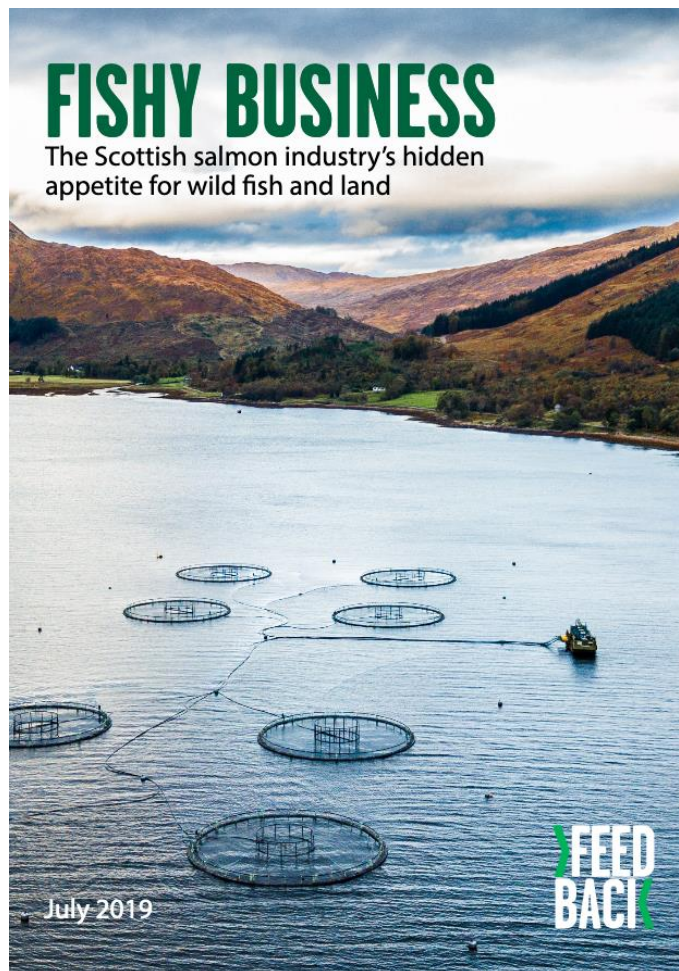
Framtiden i  
våre hender

Tommer havet for fisk i  
jakt på fiskefôr



# FISHY BUSINESS

The Scottish salmon industry's hidden  
appetite for wild fish and land



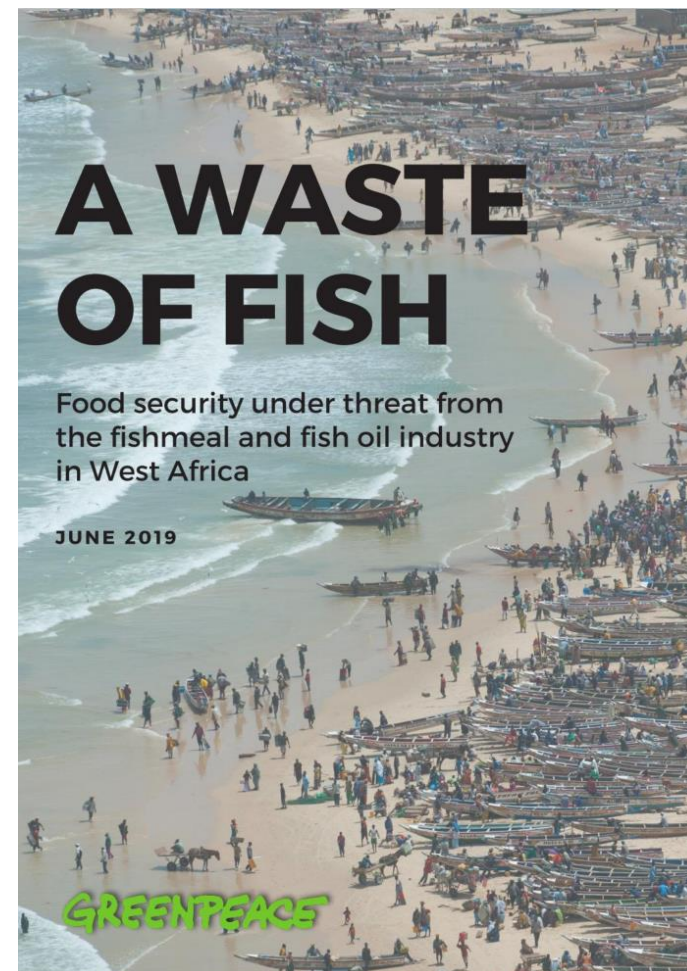
July 2019

FEED  
BACK

# A WASTE OF FISH

Food security under threat from  
the fishmeal and fish oil industry  
in West Africa

JUNE 2019



GREENPEACE



Executive Summary

# Shallow returns? ESG risks and opportunities in aquaculture

Fishmeal and fish oil  
production uses nearly

**20%**

of the global catch – and  
prices may rise by up to  
90% over 2010-2030



## Fish feed supply


Salmon and shrimp are carnivorous fish that require other fish in their diets, however demand is set to outstrip supply – the UN FAO warns that low supply will constrain the sector's future growth.<sup>9</sup> Carnivorous fish feed typically contains fishmeal and fish oil, which are made from wild-caught juvenile fish. In 2016, around a fifth of the world's commercially caught fish was used for fishmeal and fish oil production.<sup>10</sup> This makes the industry highly dependent on wild stocks of certain fish for future growth. Aquaculture is not a full solution to depleting fish stocks until this dependence is severely reduced. Prices of fishmeal and fish oil are set to rise by 90% and 70% respectively over 2010-2030.<sup>11</sup> Feed is already the most cost-intensive part of fish production, accounting for 30-70% of production costs. Rising marine ingredient prices will put additional pressure on producers' margins.

ucn HOME PRICES SPECIES COMPANIES DOWNSTREAM UPSTREAM

FISHMEAL COMPANIES ASIA

## India to curb opening of new fishmeal, fish oil plants

By Undercurrent News Oct. 23, 2019 09:07 BST



Vannameli from India. Credit: Aroher Dec24/Shutterstock

A Comment

India's Marine Products Export Development Authority (MPEDA) has issued a moratorium on the registration of new fishmeal and fish oil units with effect from Jan. 1 next year to curb the over-exploitation of fish resources, [Hindu Business Line](#) reported.

It also decided to extend the moratorium on enhancement of the production capacity of existing fishmeal units.

BusinessLine CIBO

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Agri Business

## Mpeda to impose moratorium on new fish meal units from New Year

V Sajeev Kumar | Kochi | Updated on October 22, 2019 | Published on October 22, 2019



There are about 56 fish meal industrial units in Kerala, Maharashtra, Karnataka and Tamil Nadu and the units together have a turnover of Rs1,750 crore with an annual production of 2.30 lakh tonnes, industry sources said. Representative image - The Hindu

Ag aquaculture utilises about 45 per cent of global fish meal production.

In its efforts to curb over-exploitation of food fish resources, the Marine Products Export Development Authority (Mpeda) has decided to come out with a moratorium on the registration of new fish meal and fish oil units with effect from January 1, 2020.

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SPECIAL EDITION: AQUA FEED INNOVATION

## Feed makers, retailers react after claims of irresponsible fishmeal and fish oil sourcing

By Jane Byrne 21-Oct-2019 - Last updated on 21-Oct-2019 at 16:15 GMT

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The Fish Site

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AS A PIONEER IN THE AQUACULTURE INDUSTRY, INVE HAS ALWAYS BEEN ABOUT ENABLING GROWTH

## Skretting concerned by the use of "finite marine ingredients" in aquafeeds

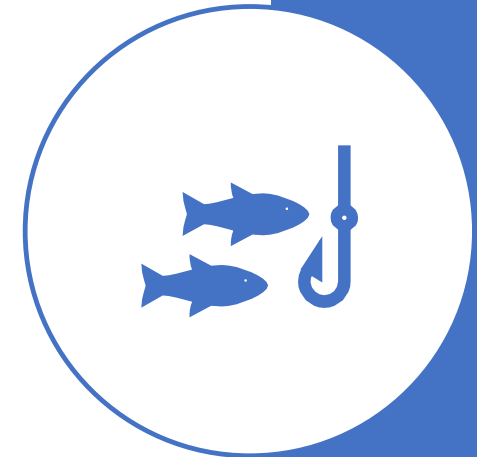
by The Fish Site 22 October 2019, at 10:53am

Skretting has allocated \$2 million for the development of novel aquaculture feed ingredients in 2020 as it bids to help create effective alternatives to the use of "finite marine ingredients" such as fishmeal and fish oil.



# Conclusions

- Marine resources are finite
- Aquaculture's continued reliance on wild-caught fish is a major threat to marine ecosystems and food security
- Industry must move away from use of whole wild-caught fish to feed farmed fish
- Transparency is key (in addition to traceability)





# Thank you



[natasha.hurley@changingmarkets.org](mailto:natasha.hurley@changingmarkets.org)