

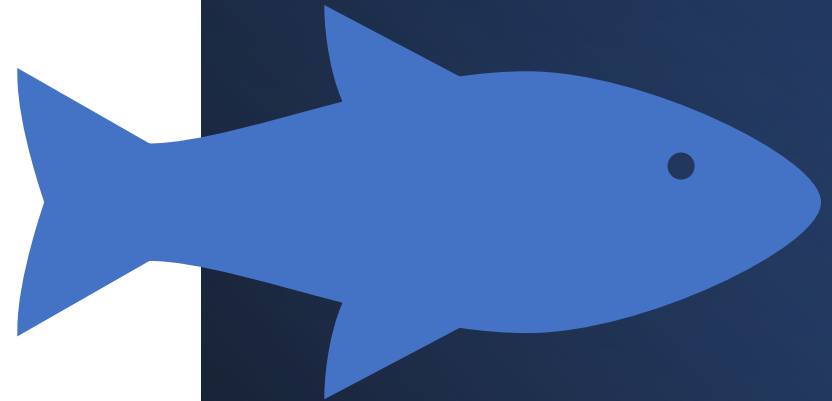
BLUE ECONOMY AQUACULTURE FORUM



Fish nutrition/sustainability

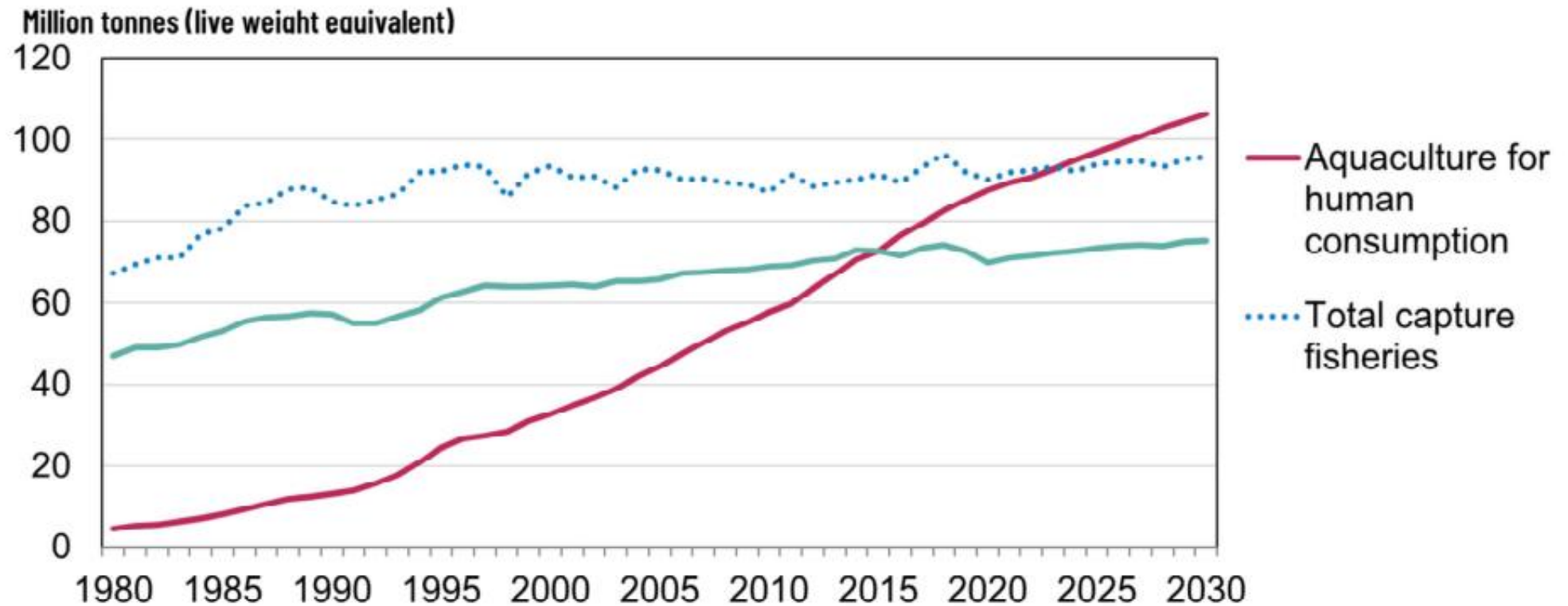
Dr. Petter Arnesen
Fish Farming Matters

Blue Economy Aquaculture Forum
Grand Hyatt Abu Dhabi Hotel 24th May 2023

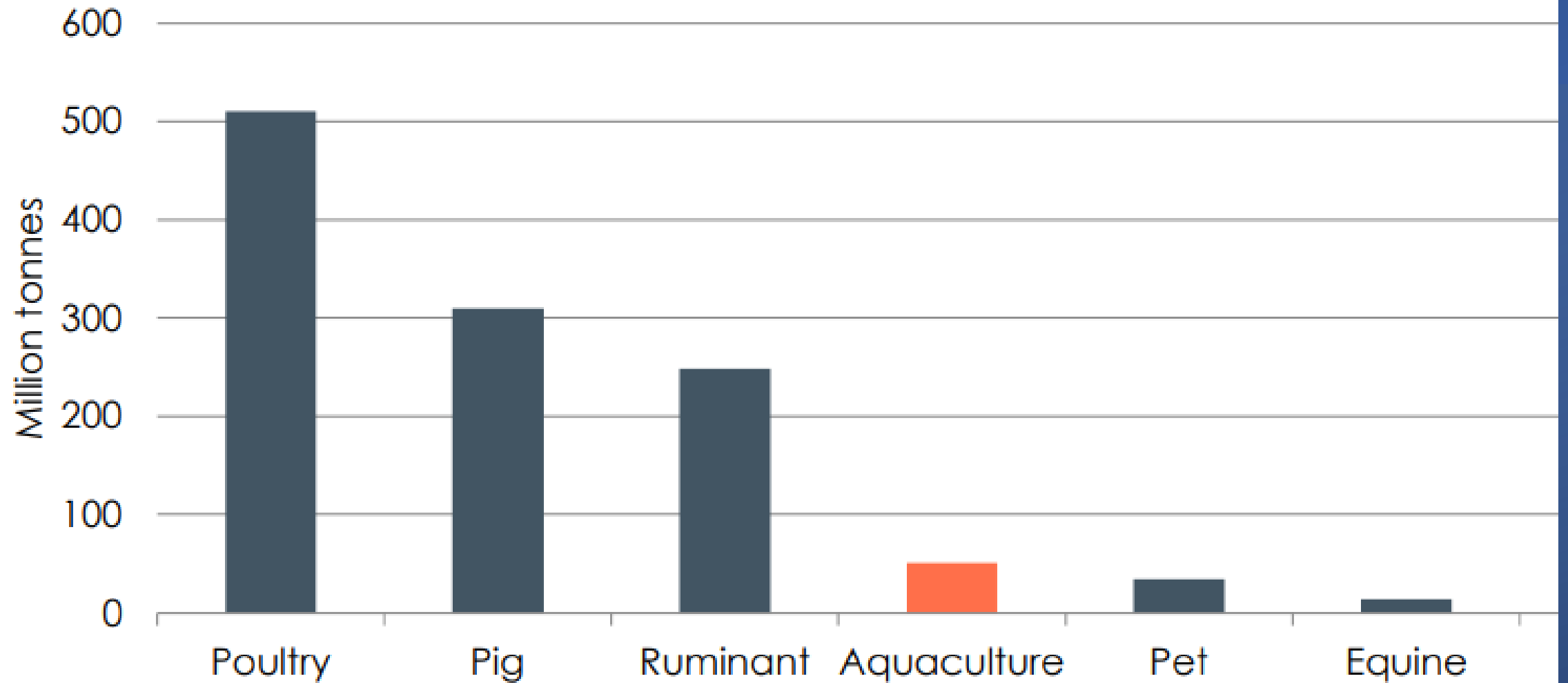


PRODUCTION OF AQUATIC ANIMALS EXPECTED TO GROW BY 14% BY 2030, TO REACH 202 Mt

Global capture fisheries and aquaculture production, 1990-2030



Global production of manufactured feed (2021)



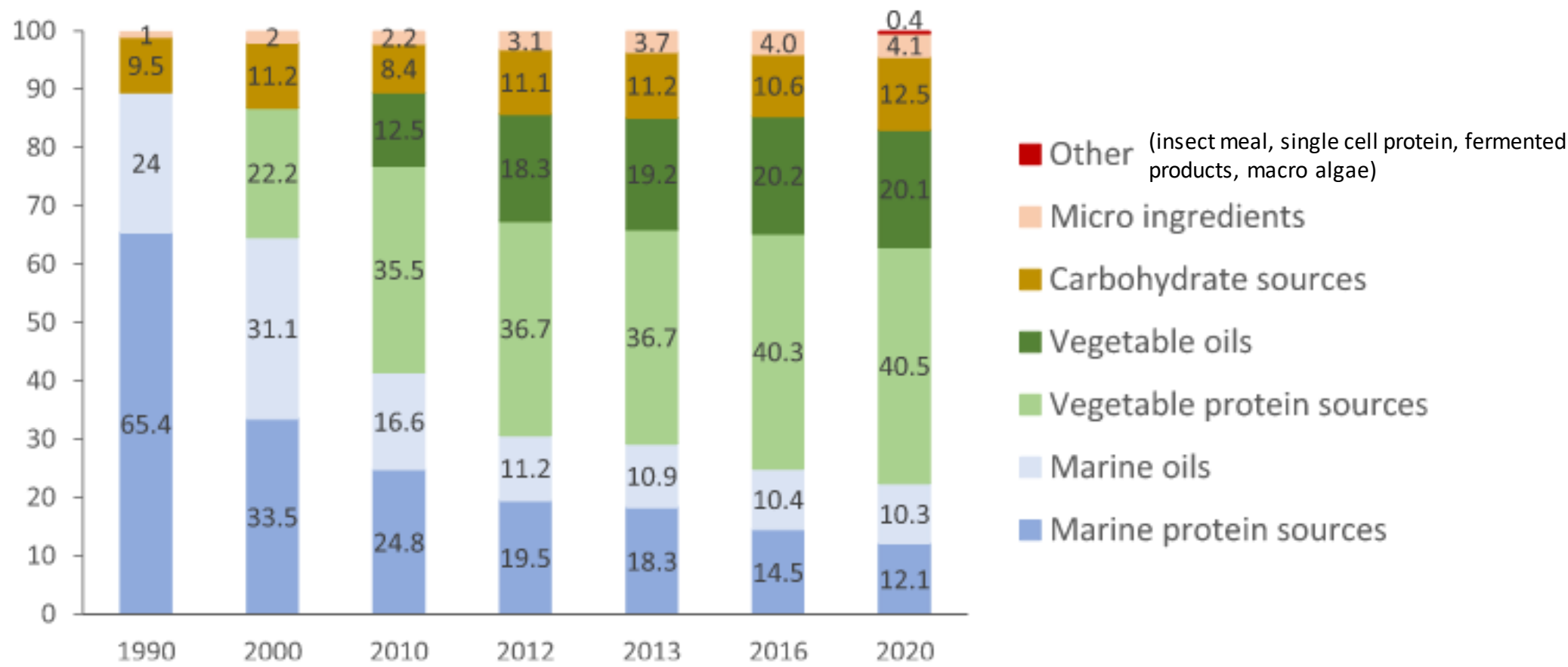


Fish feed has become less marine

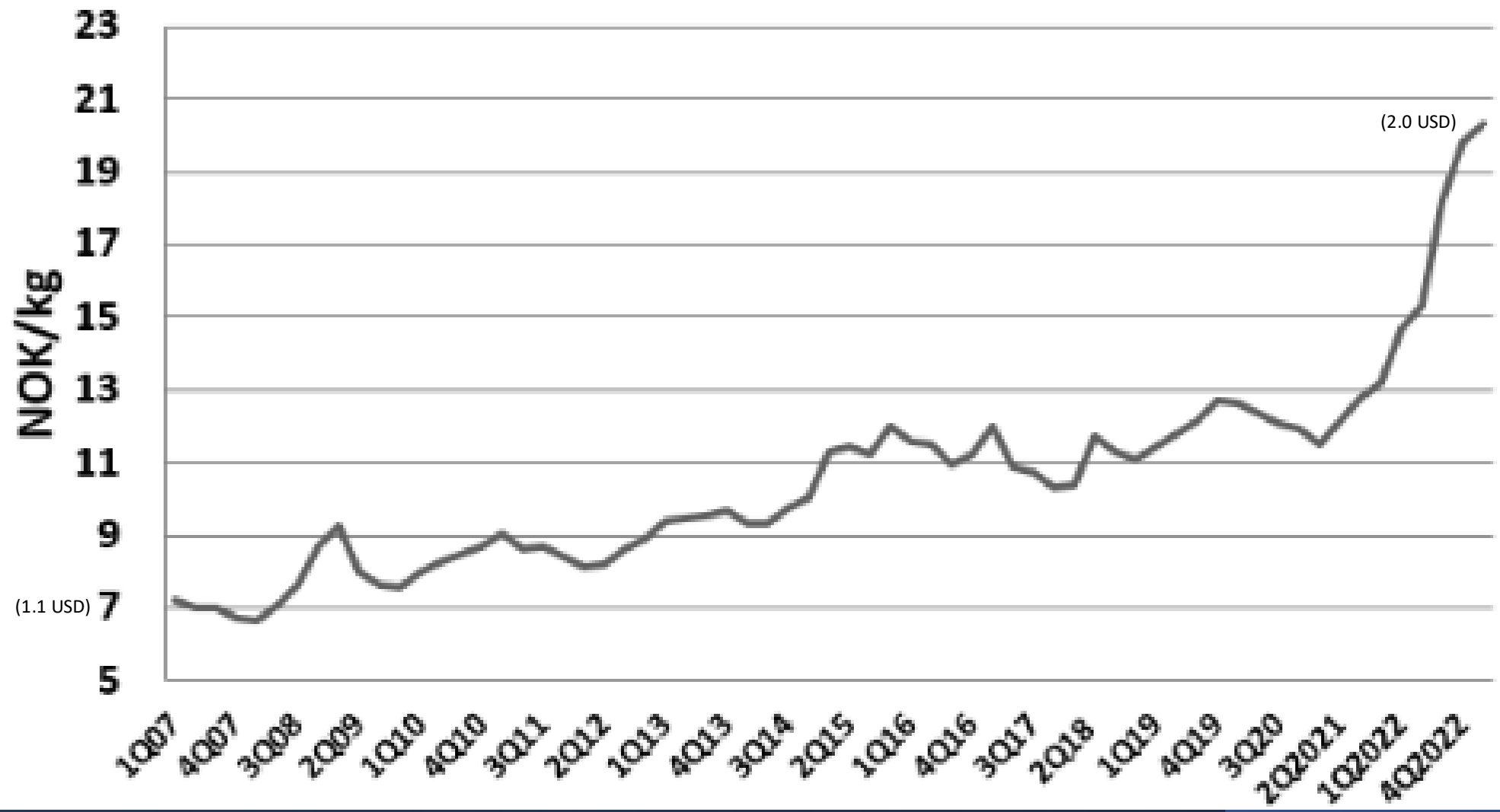
Over the last 30 years fish feed has gradually become less marine. Fish meal and fish oil have been substituted with vegetable or other types of raw materials. Mainly for cost reasons, but partly also due to pressure from NGOs and consumers

Historic changes in salmon feed formulation (Norway)

Aas et al., Aquaculture Reports, vol. 26 October 2022



Price fish feed



Consumer assurance

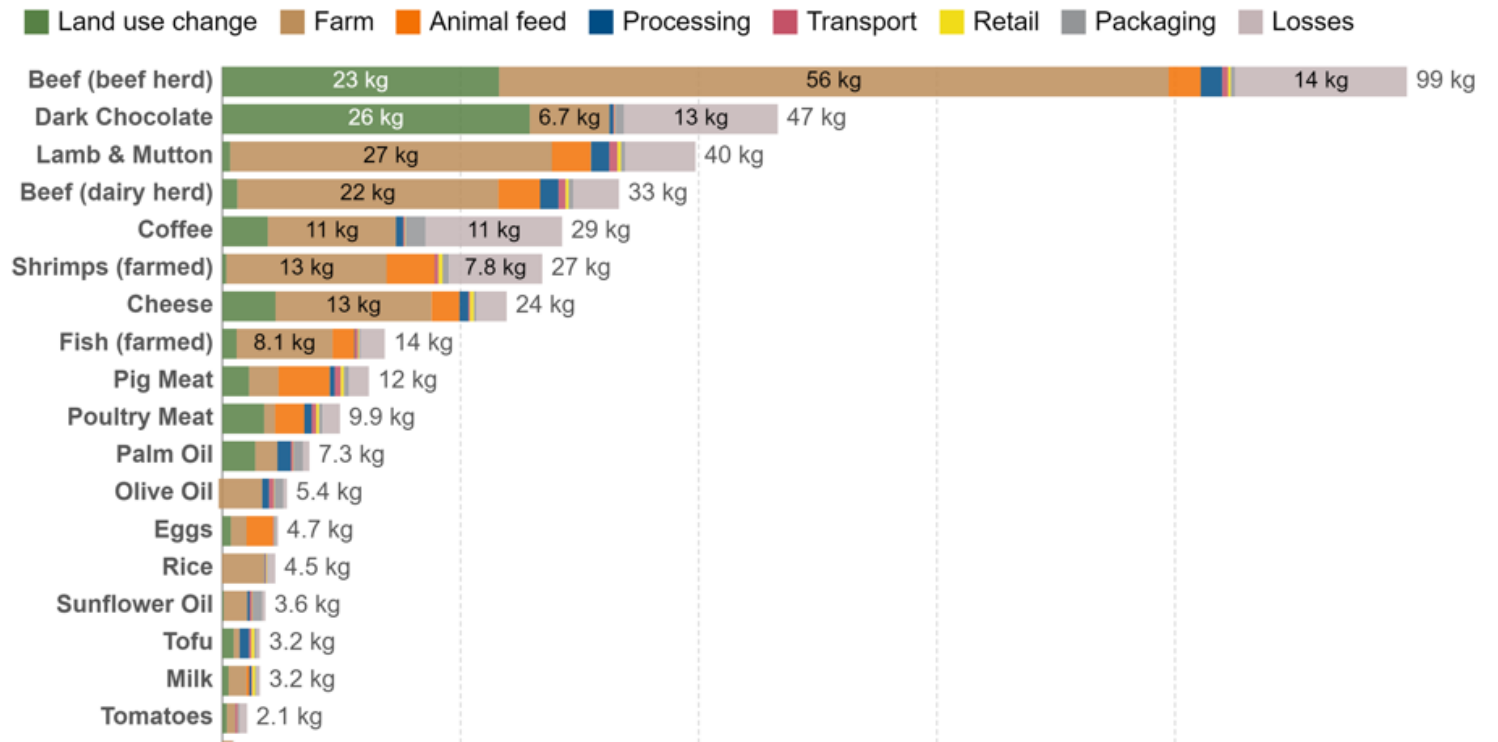
- Food safety
- Sustainability
(ecological and social)
- Climate impact

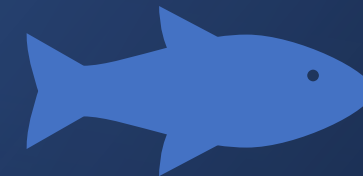
Carbon footprint is increasingly influencing food choices

Food: greenhouse gas emissions across the supply chain

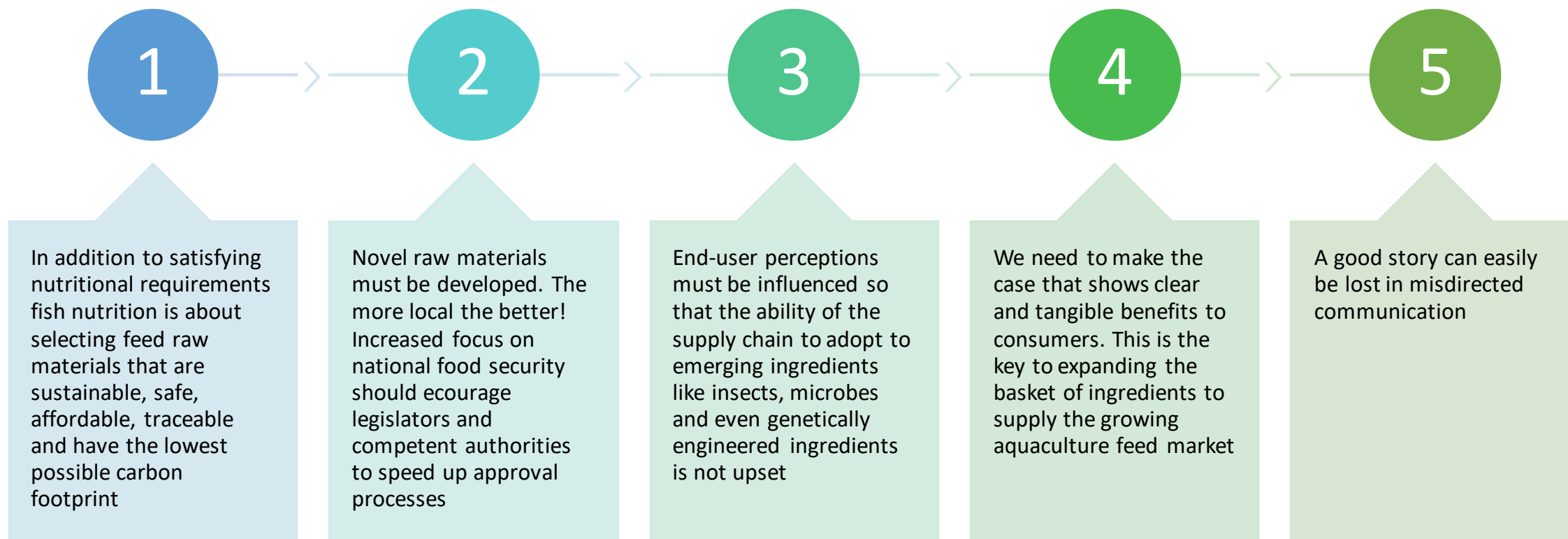
Greenhouse gas emissions¹ are measured in carbon dioxide-equivalents (CO₂eq)² per kilogram of food.

Our World
in Data





Take home messages



Thank You!



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