



MAPPING OF
MARINE REST RAW MATERIAL AND
FOOD-LOSS
IN THE NORWEGIAN SEAFOOD INDUSTRY

AQUANOR 2021

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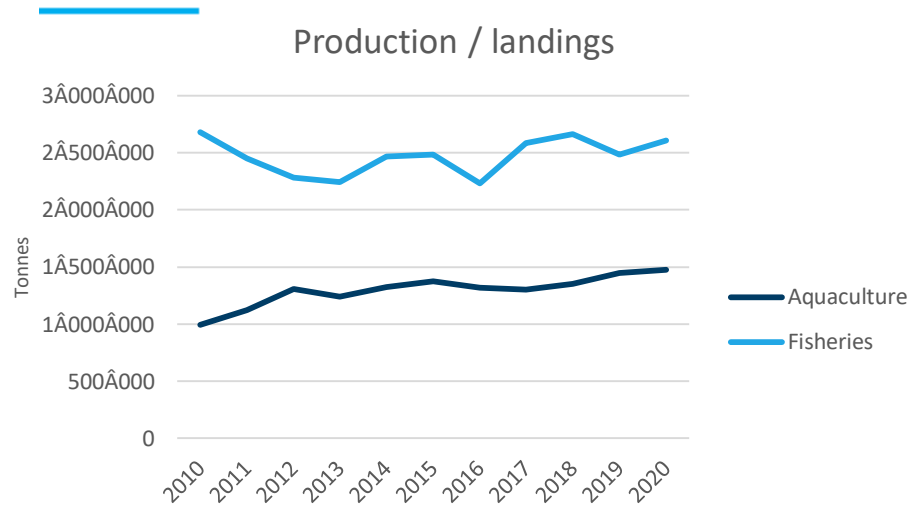
August 2021

The global focus

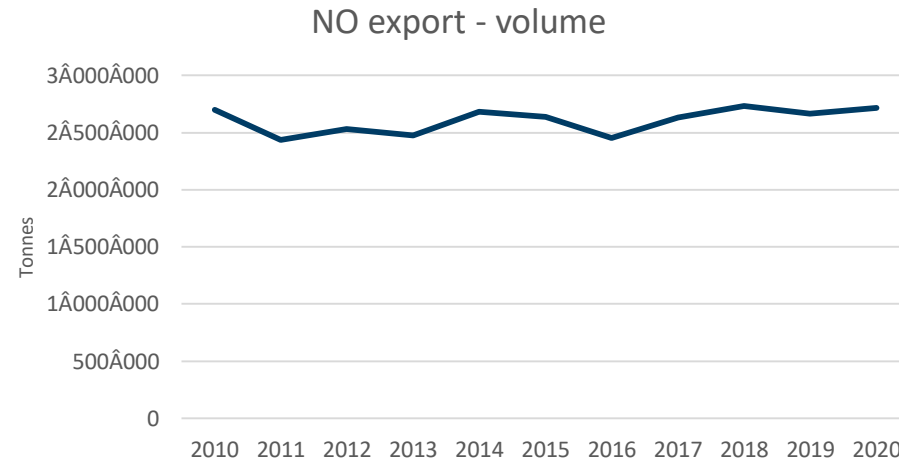
- Growing population → growing demand for food
- Need for change and circular economy
- Sustainable production and full utilization of resources



Norway - catch, production and trade



Source: Norwegian Directorate of Fisheries

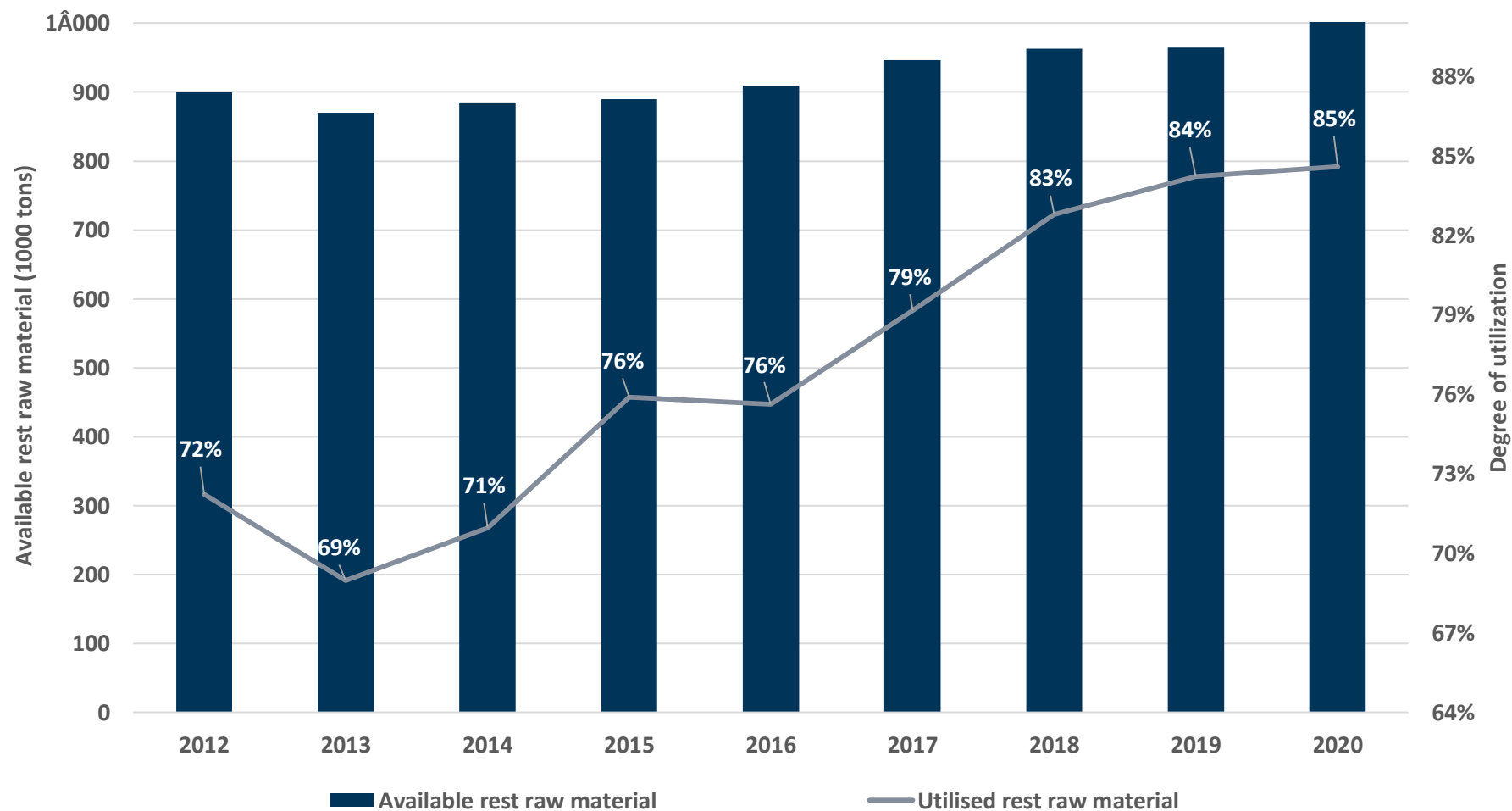


Source: Norwegian Seafood Council

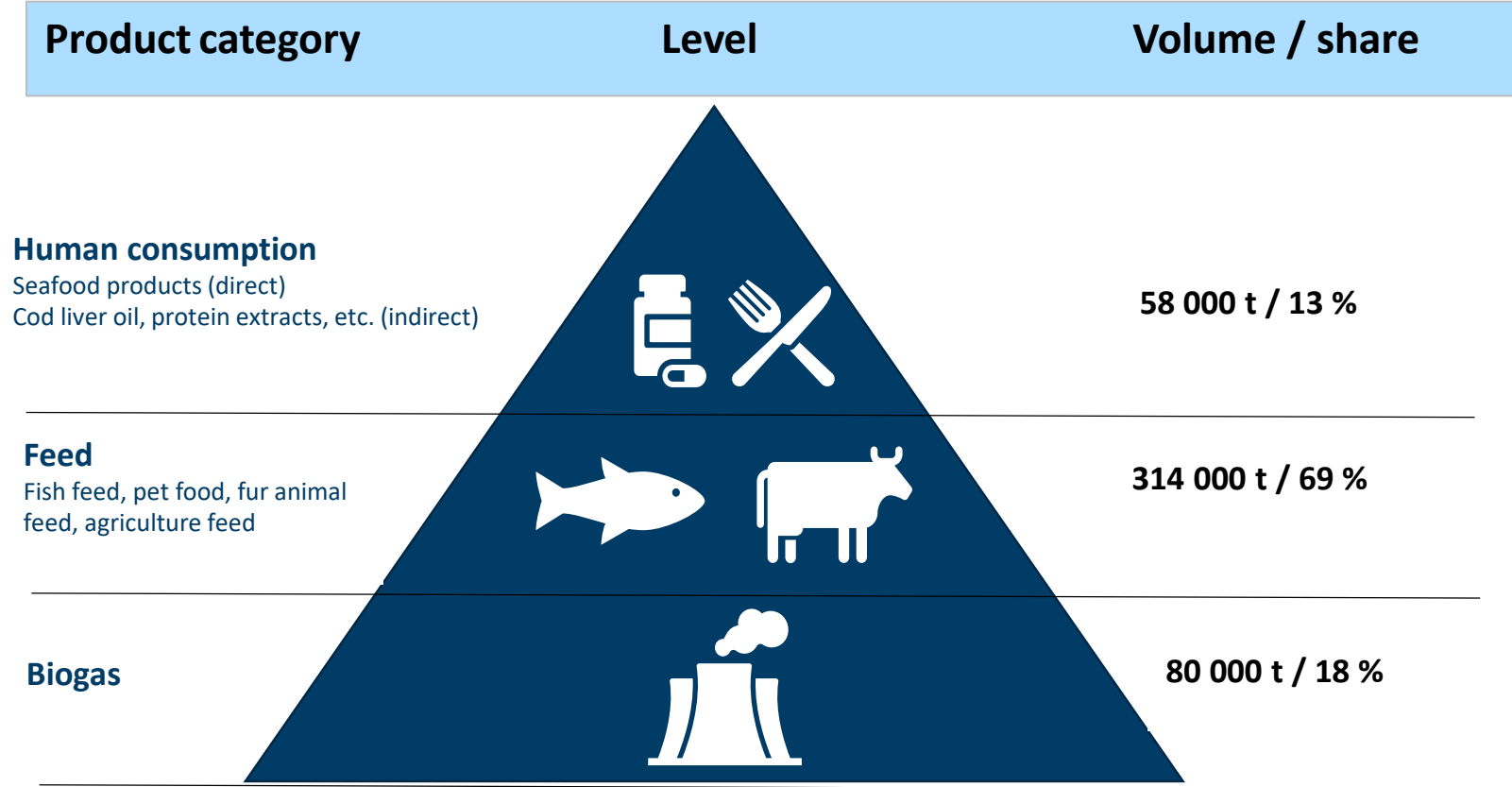
- 285 000 tons / 98 % of mackerel was exported from Norway round/unprepared
- 16 000 tons / 3 % of cod was exported from Norway as filets
- 155 000 tons / 14 % of farmed salmon was exported from Norway as filets

→ Large volumes of marine *rest raw materials* disappears from Norwegian industry

Development for overall degree of utilization



Product categories based on marine rest raw materials



From RRM to food waste

- Food waste agreement in 2017
- Reduce by 50 % by 2030
- Main goals
 - Define RRM fractions to include as food waste
 - Retrieve realistic data
- Several large actors as participants
 - Interviews & workshops → Definitions → Calculations



INSULA



PELAGIA™



Result - volume



Strategies and initiatives

- UN SDGs and EU commission
- National reports and strategies
- Projects / Initiatives
 - *Pelagisk løft (pelagic)*
 - *Sea-going fleet (white fish)*
 - *Blood (aquaculture)*





Teknologi for et bedre samfunn