

Sustainable aquaculture

Fish aquaculture

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Fish and
Seafood
6,5 %

45 %
aquaculture

36 % aquaculture
in oceans

68 % finfish

< 1% of Global protein sources
for human consumption is
ocean farmed fish

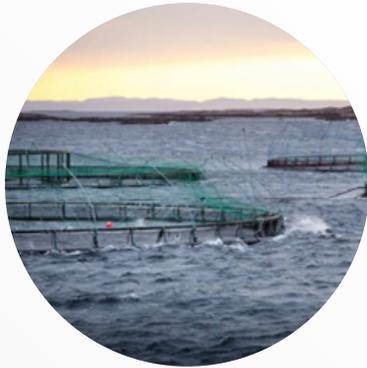
Animal
husbandry
33,0 %

Plants and
staples
60,5 %

Global Protein Sources for Human Consumption

Sustainable development of fish aquaculture

– main challenges and opportunities



**Access to area for
aquaculture**



**Farming for fish
welfare**



Sustainable feed

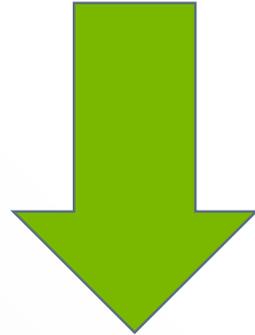
Aquaculture is moving offshore and on land

– technology developments open opportunities for aquaculture in new ocean areas and diversifying fish species



Fish welfare driven aquaculture development

Minimise loss of fish in production

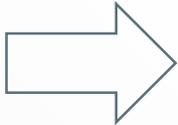


- 1) Understand the fish requirements, genetics and biology
- 2) Science based and operative fish welfare indicators

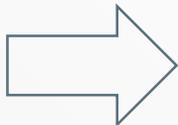
Diversification of feed raw materials produced in a circular bioeconomy across the blue and green sectors



Processing



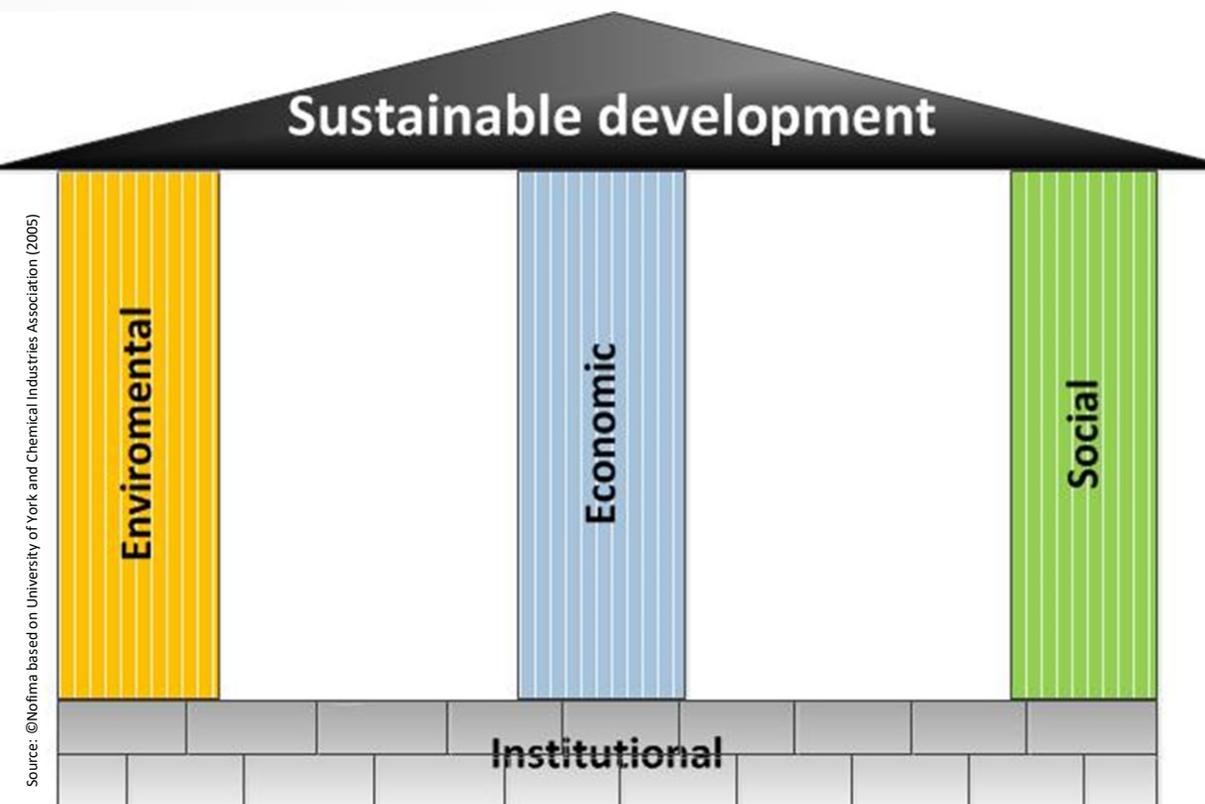
Processing



Carbohydrate rich sources and food production side-streams



Sustainability requires balance



Blue business in the blue growth



Sustainability in Aquaculture barometer

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Environment

How does the aquaculture industry affect the environment?

- [Disease](#)
- [Emissions from fish farming plants](#)
- [Escapes](#)
- [Fish mortality and loss in production](#)
- [Impact on wild salmon](#)
- [Sales of pharmaceuticals](#)
- [Salmon lice](#)
- [Utilisation of residual raw materials](#)



Economy

What are the production and economy of the aquaculture industry like?

- [Costs](#)
- [Feed composition and origin](#)
- [From feed ingredients to fish](#)
- [Production value](#)
- [Profitability](#)
- [Wealth creation – Contribution to GDP](#)



Social

How does the aquaculture industry impact community development and social conditions?

- [Absence](#)
- [Certifications](#)
- [Employment](#)
- [Land use](#)
- [Occupational injuries](#)
- [Social contributions, taxes and charges](#)



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