

Sunndalsøra

27.10.2022







## Sustainability - Huge value potential for multidisciplinary teaming

News Salmon lice costing Norway NOK 5 billion a year Noe er i ferd med å skje med Norge Sakte, nesten umerkelic Washington state senate bans Atlantic salmon farming in state waters Company that runs state's net-pen fish farms says it is considering next moves Liam Britten - CBC News - Posted: Mar 02, 2018 11:02 PM PT | Last Updated: March 3, 2018 Land-based salmon producer Atlantic Death toll reaches 4,244 Sapphire suffers mortality incident at tonnes as toxic algea bloom hits Chilean salmon US farm Company blames design issue with its recirculating aquaculture News by editorial staff - 9 April 2021 system. Salmon farmers in Los Lagos and Aysén hit regions continue to fall foul of killer 24 March 2021 6:22 GMT UPDATED 24 March 2021 18:16 GM7

algae.





#### The Norwegian Aquaculture Analysis

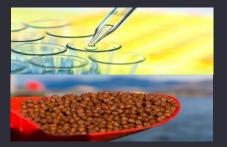




- ✓ 1,247 companies covered
- ✓ Annual data from 2008 more than a decade
- ✓ 6 editions published and available on www.ey.com



Technical solutions



Biotechnology



Production



Distribution



**Processing** 



## Snapshot of the value chain analysis

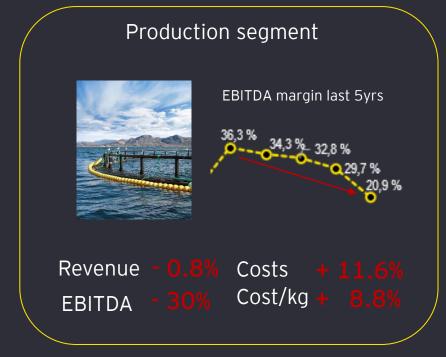
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Revenue: 259 bn + 1%

EBITDA: 27 bn - 20%







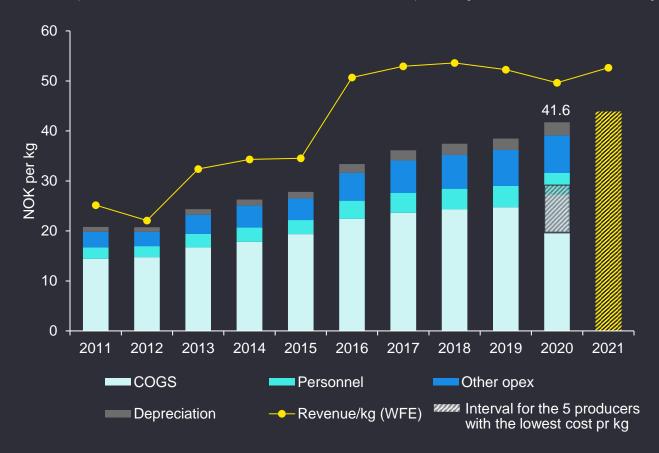


Revenue MNOK				EBITDA MNOK	
<b></b>	5 5	12	BROODSTOCK AND SMOLT	1 433	
<u></u>	6 63	36	TRANSPORTATION ON SEA	2 484	<b></b>
<u>سر</u>	6 5	72	CONSULTING AND SERVICES	1 068	<b></b>
<u></u>	15	718	PROCESSING	750	<b></b>
	67	77	FISH HEALTH	1 209	
	28	469	FEED	1 501	<u></u>



### Decrease in revenues per kg, and costs per kg continue to rise

#### Development in costs, revenue and EBIT per kg in the sea farming segment



- Revenue per kg decreased by 2.6 NOK from 2019 to 2020
- Costs per kg rose by 50% from 2015-2020
- Lowest cost per kg in 2020 was 20.0 NOK
- EBITDA per kg decreased by 33% from 2020 to 2019



## World towards 2030





## Global megatrends and new taxonomy standards will highly impact the future of aquaculture production

Exponential climate changes

Overconsumption of natural resources

Demographic changes and urbanization

ecosystindu indu Decarbonization biotec

Genetics, ecosystems and industrial biotechnology

Technology and Al









and biodiversity







# Towards 2050:

- Protect
- Produce

Economic growth

# Global Ocean Science Report 2020

Charting Capacity for Ocean Sustainability



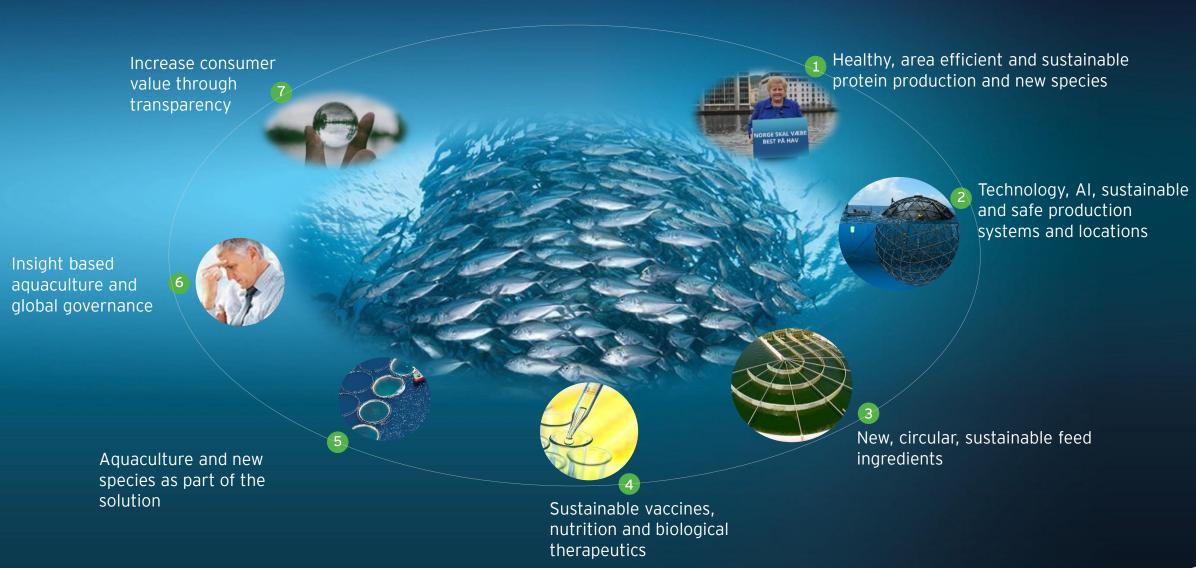








## Opportunities for sustainable aquaculture growth



## Five battles Norwegian aquaculture must win



