

# Sea Lice is damaging brand 'salmon' and constraining growth

### **TANGIBLE CHALLENGES**

- Mortality
- Feed conversion efficiency & growth rates
- Efficacy & resistance to treatments
- Commercial viability of prevention methods
- Restricting expansion licences

### **INTANGIBLE CHALLENGES**

- Fish welfare
- Public perception
- Environmental safety
- Pride of the farmer
- Reliability



# Sea Lice is a significant cost to the industry

# ENVIRONMENTAL & SOCIAL

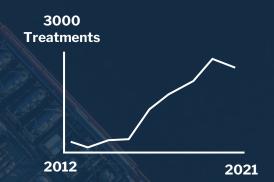
- Negative publicity and brand reputation
- Medicine discharge
- Decreased amenity values

### **BIOLOGICAL**

- Fish welfare
- Mortality
- Loss of feeding days
- Weakened immune system
- Contagious- farm level and wild stock

### ECONOMICS1

- Treatment costs
- Reduced feed conversion efficiency
- Decreased market value of downgraded salmon
- Market distortion



14x

Increased use of Mechanical treatments between 2015 and 2021<sup>2</sup>

16%

increase in reported welfare incidents from fish production (2021)<sup>2</sup>

**15.5**%

total mortality (54m dead salmon in sea phase)<sup>2</sup>



NOK 6.6bn

Sea lice cost to the Norwegian industry annually <sup>3</sup>

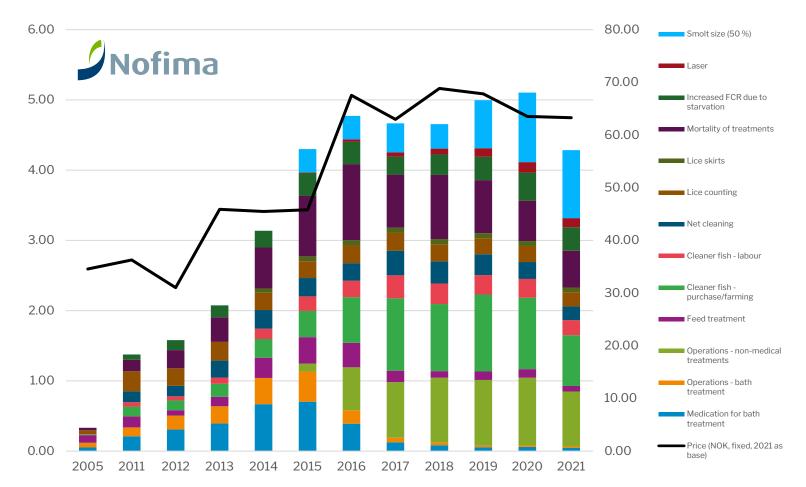


<sup>&</sup>lt;sup>2</sup>Norwegian Veterinary Institute, Fish Health Report 2021

<sup>&</sup>lt;sup>3</sup>Nofima, Cost of Lice 2021, Audun Iversen & Øystein Hermansen

# **Economic and welfare impact:**

# TRUE COST OF SEA LICE PER KILO PRODUCED





 $^{1}\,\text{Nofima},$  Cost of Lice 2021, Audun Iversen & Øystein Hermansen

<sup>2</sup>Barentswatch.no

### IN 2021

>45m

Cleaner fish used<sup>1</sup>

2826

Mechanical Treatments used<sup>2</sup>

961

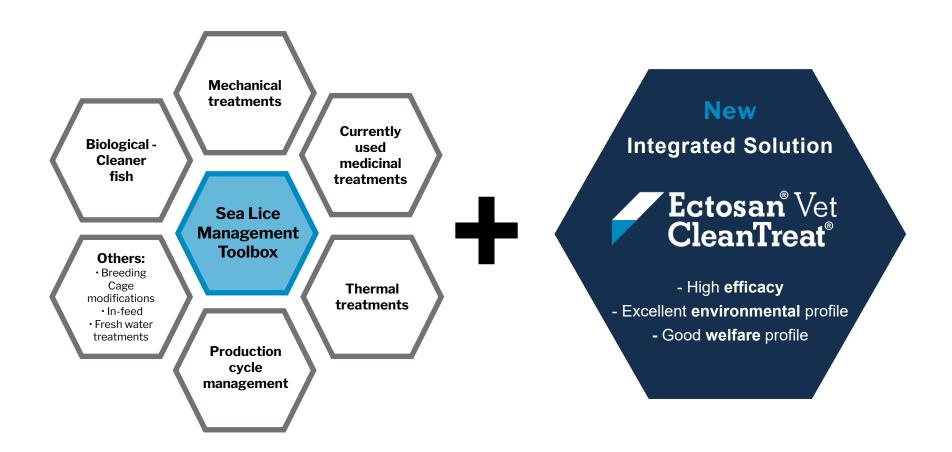
**Medicinal Treatments<sup>2</sup>** 

More than

NOK 3.8bn

Spent annually on preventive measures<sup>1</sup>

# **Strengthening the sea lice management toolbox**







# Looking to the future

- Increasing sustainability potential
- Coordinated strategic management approach
- Improving the bottom line



# Products and solutions are a key driver of more sustainable production

### **INCREASING SUSTAINABILITY POTENTIAL BY:**

- Improving the environmental profile of medicines by purifying treatment water before discharge
  - CleanTreat® can meet the high entry barrier for new medicines by mitigating environmental impact
- Providing more tools to the industry to tackle sea lice which meet stringent safety, efficacy and environmental criteria





# Coordinated strategic sea lice management approach

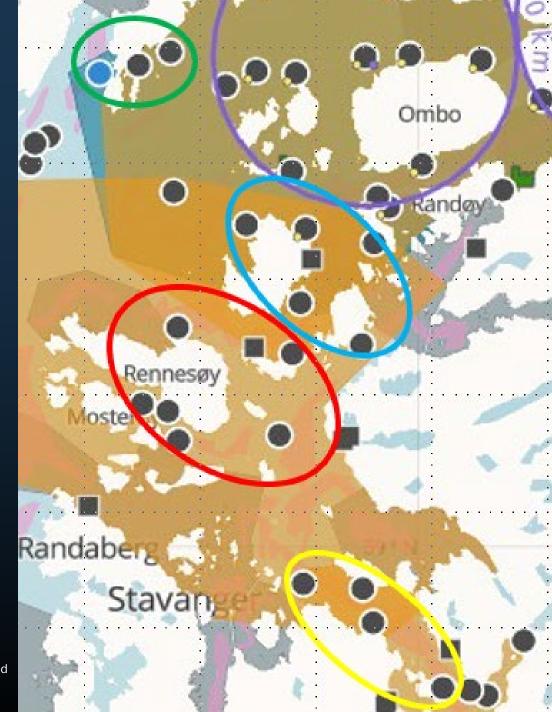
OVERCOMING THE SEA LICE CHALLENGE NEEDS A HOLISTIC APPROACH, USING ALL RELIABLE SOLUTIONS IN THE MOST EFFECTIVE MANNER



Strategic use offers the real possibility to reduce the number of treatments and improve overall fish health - stop fire fighting

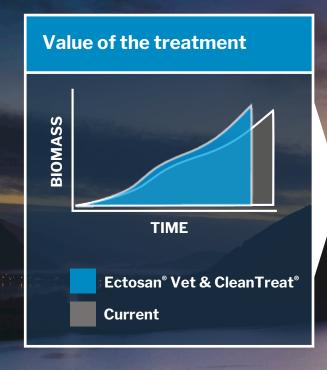


Work together to apply all available knowledge and competencies to sustainably manage sea lice





# Improving the economics of sea lice management



# Adding tangible value

- Efficacious and safe treatment
- Increased biomass at harvest
- Shorter production cycle
- Reduction in number of treatments in the cycle
- Quality upgrade

# Plus intangible value

- Improved fish health & welfare
- ASC scoring of zero
- Restoring farmer pride





Benchmark® have introduced the first new sea lice medicine to the Norwegian market in over a decade

Tusen Takk



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