



## Shippingklubben Ålesund

March 6<sup>th</sup> 2018





- 1. Company introduction
- 2. Optimar value proposition
- 3. Segment overview
- 4. Optimar delivery model
- 5. Market, Business plan and financials

# Optimar Group - a global leader in automated fish processing and handling solutions



More than **80 years** experience



400+ employees



**90+** within engineering and R&D



**800+** installations worldwide



**24/7** availability and service



>50% of all production exported

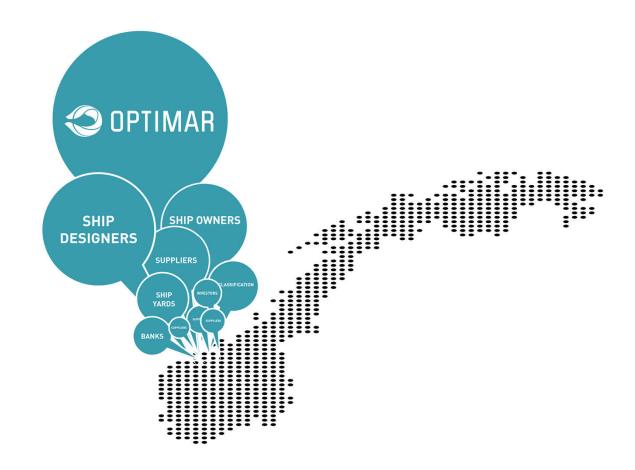


40% annual organic growth since 2014



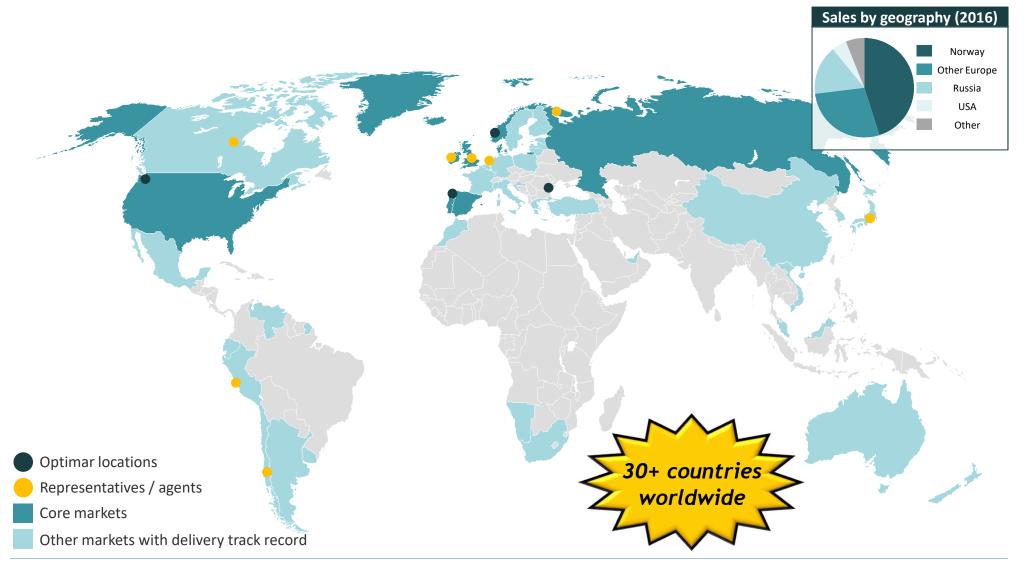
# We are headquartered in the heart of the Norwegian maritime and seafood eco-system

A maritime cluster well known for sharing competence and expertise, making it possible to be at the forefront of innovation and product development



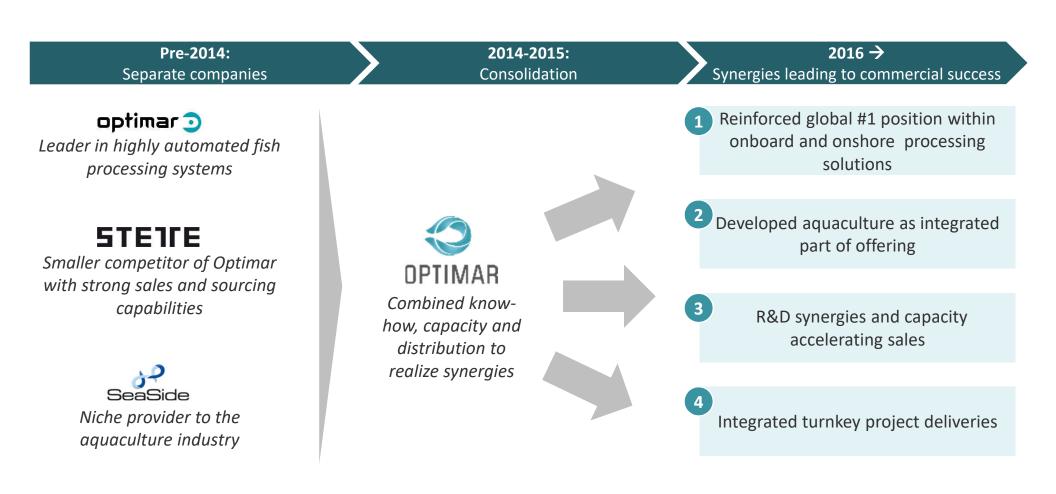


# Optimar is a global technology leader, and we have experience from deliveries to all parts of the world

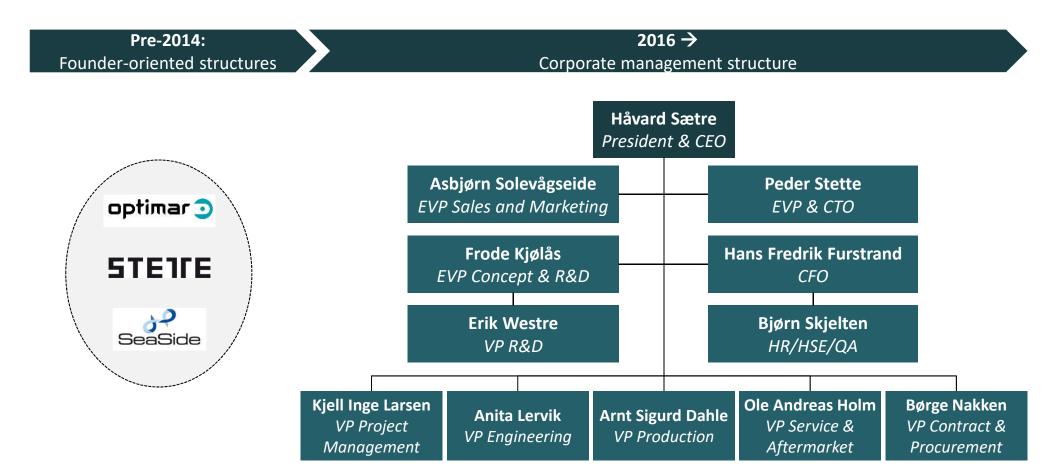




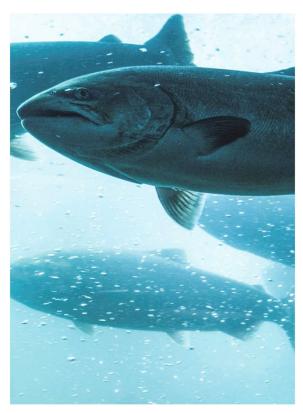
### Key differentiation through reach and span of capabilities



# Transformational shift from founder-oriented to corporate management structure



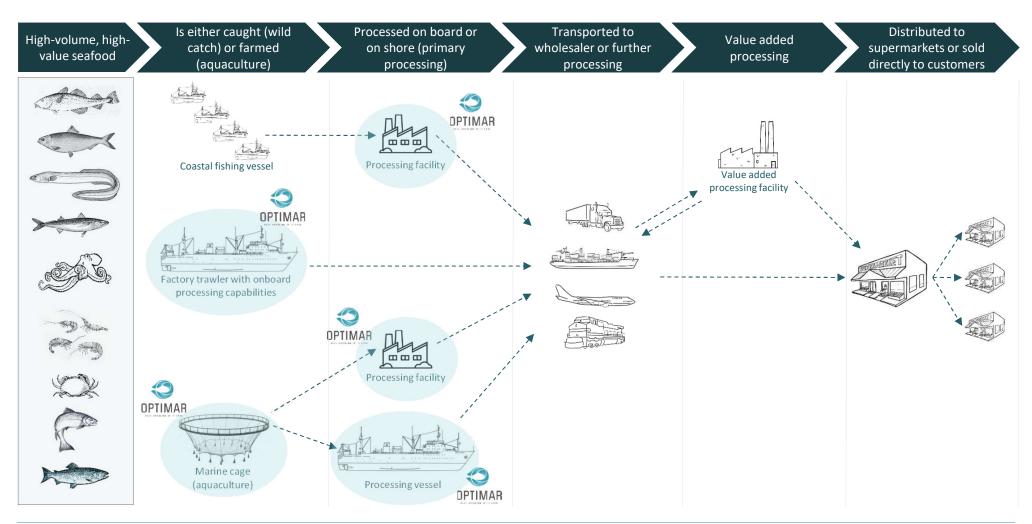






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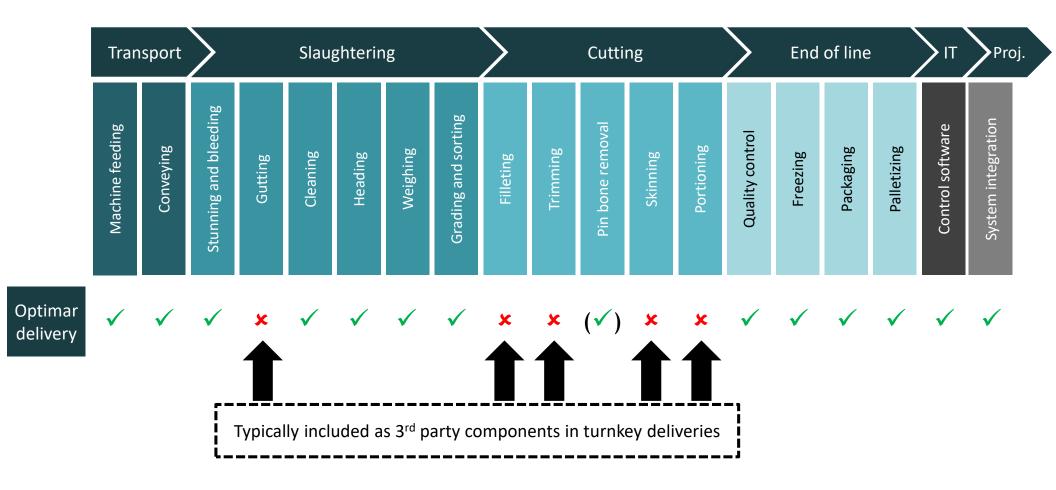
# Optimar's solutions are relevant to all types of seafood, both wild catch and aquaculture



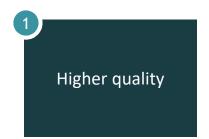




# Turnkey solutions combined with blockbuster products within a range of product categories



# Optimar enables customers to produce with higher quality, lower cost, in less time and in less space





- Superior quality to withstand high seas (vessels)
- Increased uptime
- Higher throughput





- Up to 50% better space utilisation
- Significantly reduced vessel/plant investment cost







- Up to 75% staff reduction
- Up to 20% lower energy consumption for freezing of fish
- Improves hygiene and traceability



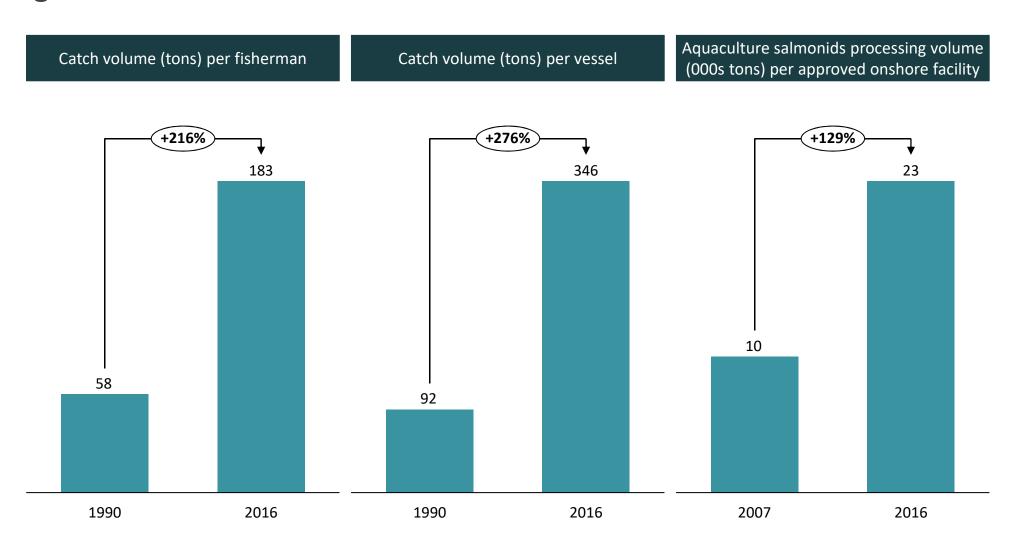




- Significantly improved capacity
- Processing time reduction improves end product quality
- Improved utilisation and reduced waste



# The Norwegian seafood industry has achieved tremendous efficiency gains from automation



Source: Norwegian Directorate of Fisheries





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### **Segment introduction**

### Onboard



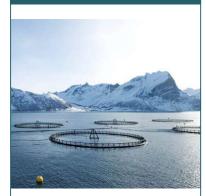
Onboard processing solutions for wild catch

### Onshore



Onshore processing solutions for wild catch

## Aquaculture – processing solutions



Onshore and onboard processing solutions for aquaculture

### Aquaculture – biological control



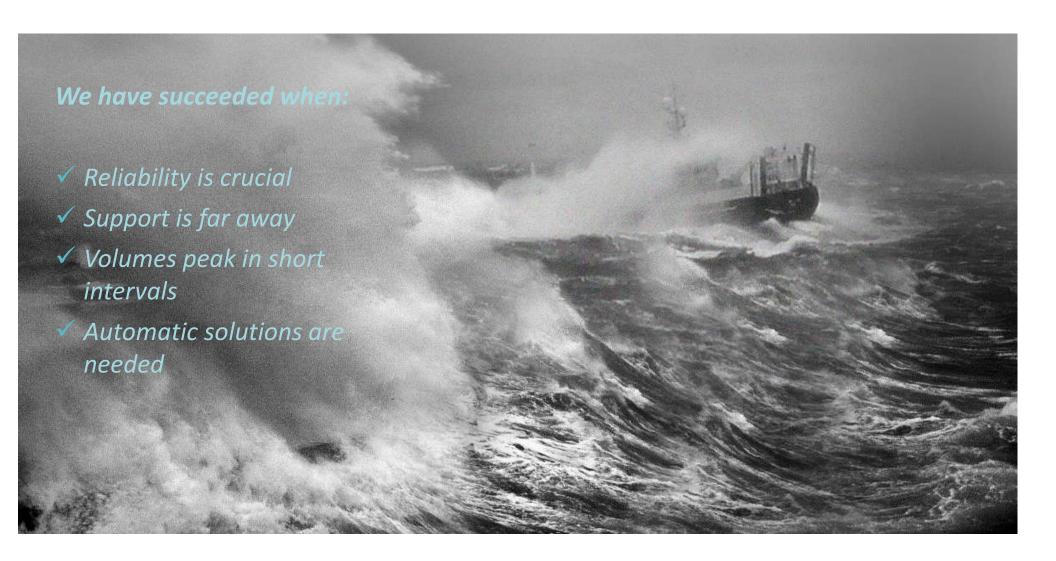
Salmon delousing solutions for aquaculture

### Services and aftermarket

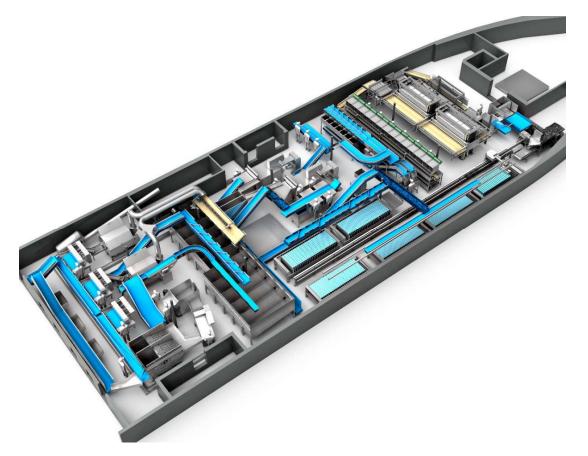


Smaller projects and spare parts across all major segments

### Onboard production – succeed in extreme conditions



### Make the most out of your space

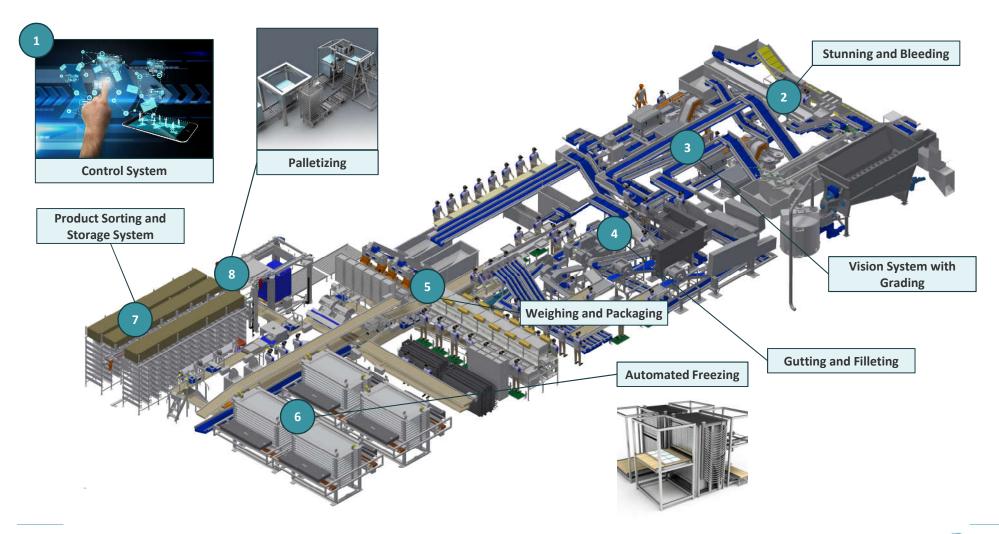


### An onboard factory from Optimar will:

- Reduce production area
- Reduce manual heavy load handling
- ✓ Maximize total processing line speed
- ✓ Improve your efficiency
- ✓ Improve HSE results

3. Segment overview Onboard Onshore Aquaculture - Aquaculture - Services and aftermarket

# Optimar's land-based factories are designed to process high quantity of fresh fish with highest possible quality





# We bring innovation to practice – Optimar products are designed to solve problems, both for our customer, the environment and the consumer

- Increasing focus on system deliveries
- Main products include stunners and bleeders, byproduct handling and water treatment
- Customers are primarily salmon and trout producers
- Key factors for aquaculture customers include animal welfare, product quality, efficiency and quality of equipment, hygiene and technology

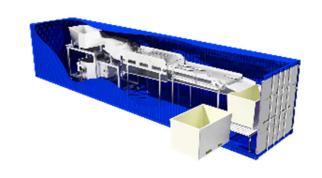
### Complete factories onshore



Onboard processing



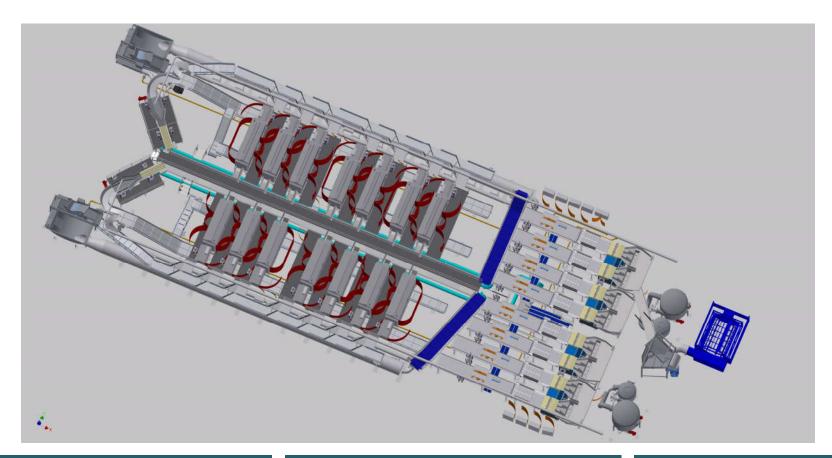
#### Containerized solutions



### Stun and bleed



### **Complete salmon factories – revolutionizing modern farming practices**



#### Core Optimar products

- Stunning & killing
- Bleeding & cooling
- Freezing & packing
- By-product handling

### Other Optimar products

- Fish net cleaning & impregnating equipment
- Logistics & control systems

#### Third party products

- De-heading, gutting and filleting equipment
- Pumping systems
- Scales and graders
- Refrigeration systems









### y kunnskap om postsmolt i resirkuleringsanlegg

idig flere produserer stor postsmolt i resirkuleringsanlegg, men vi vet enda lite om denne produksjonsmåtens tydning for postsmoltens utvikling og velferd. Ny forskning skal undersøke dette og teste ut praktiske tiltak for ptimalisere denne produksjonsformen.



aftig prisfall



Jobber med omdømmet fremfor konsumrettede tiltak



### Pressemeldinger



Eksportverdien økte med 13 %



Få overskridingar for importer



FMV skal levere arbeidsbåt til Finnsnes Dykk og Anleggservi



Vil ha mer økologisk laks i nor butikker



Lanserte ny undervannsdrone

## Åtte tilfelle av alvorleg sjukdom til no i år

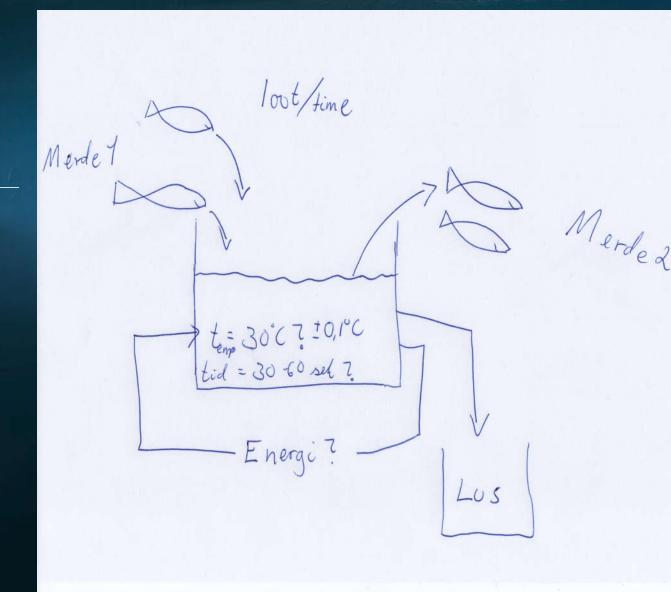


Spøkelsesoppdrett



## PRODUKTIDÉEN

- Fiskehelse
- Fiskehelse
- Fiskehelse
- Temperatur og nøyaktighet
- Oppholdstid



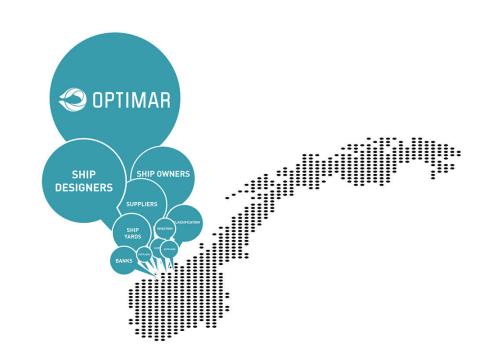
## Samarbeid mellom lokasjoner

- Stranda
  - Produktide
  - Markedskompetanse
  - Service
- Valderøya
  - Engineeringskapasitet
  - Automasjon/Software
- Stette
  - Prosjektledelse
  - Montasje



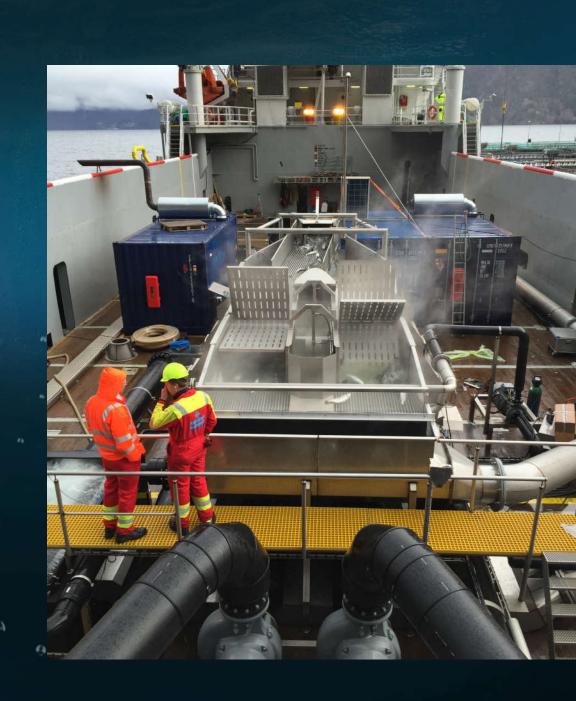
## DEN MARITIME KLYNGA

- Innovasjon Norge
- OPTIMAR
- ☐ Fjordlaks
- Farstad
- □ NOFIMA
- Andre leverandører



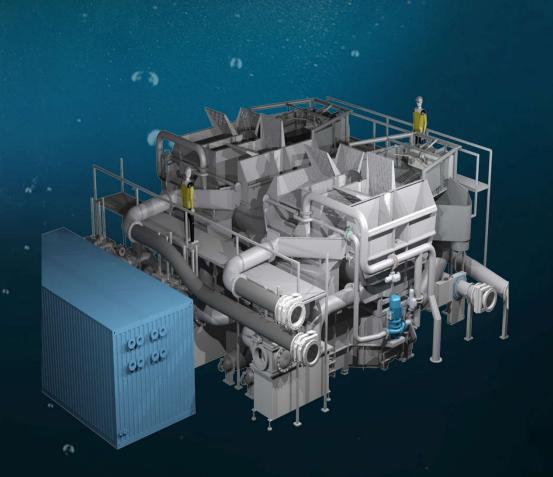
## PILOT-INSTALLASJON

- □ Pilotinstallasjon ombord i Far Server (våren 2016)
- Uttesting av systemet sammen med Fjordlaks
- ☐ Tett samarbeid med NOFIMA
- ☐ Mye testing/tuning
- Systemet ble senere flyttet over til flåte



## Godkjent produkt

- November 2016; NOFIMA rapport bekrefter at Optilicer tilfredsstiller kravene til Mattilsynet
- ☐ Aktivt salgsarbeid starter



### Hvordan fungerer Optilicer

- Fisken pumpes til behandling
- ☐ Fisken telles
- Fisken bades i temperert vann, 30-35 grader C
- ☐ Oppholdstid i det tempererte vannet er 25-35 sekunder
- ☐ Fisken pumpes ut igjen i sjøen og er klar til foring
- ☐ All lus filtreres og destrueres
- Optilice har kapasitet til å behandle ca. 100 tonn pr time pr linje



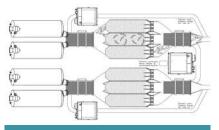
### Effekt og fiskevelferd

- ☐ Kontinuerlig forbedring sammen med kunder
- ☐ Leverer nå generasjon 3 og 4 Optilicer
- ☐ Dokumentert fiskevelferd fra NOFIMA for bruk på laks og ørret (ISBN 978-82-8296-458-6)
- 98-100% effekt på bevegelige lusGod virkning på skottelus

Oppvarmet Sjøvann Sikker

# Additional farming growth is linked to biological control – Optimar is uniquely positioned to tap into an attractive new market

### Optilice development cycle – 6 months from initial concept to sales



Conceptualize



Design and test



Commercialize



Established

Develop

position as number one provider of delousing solutions

~20 solutions (45 lines) delivered since introduction in 2016



# R&D and innovation capabilities allow us to continuously introduce new products and upgrades to always stay one step ahead of competition

#### Optilice V3 vs. V4

#### Optilice V3



#### Optilice V4



### **Optilice V4**

- ✓ More gentle handling of fish
  - Easier entry to treatmenttank
  - Better space for fish
- ✓ Less movable parts
- ✓ Less height
- ✓ More hygienic design
  - No separate buffer-tank
  - Totally renewed construction
- ✓ Better outfeed system
- ✓ Improved filtration

3. Segment overview

Onboard

Onshore

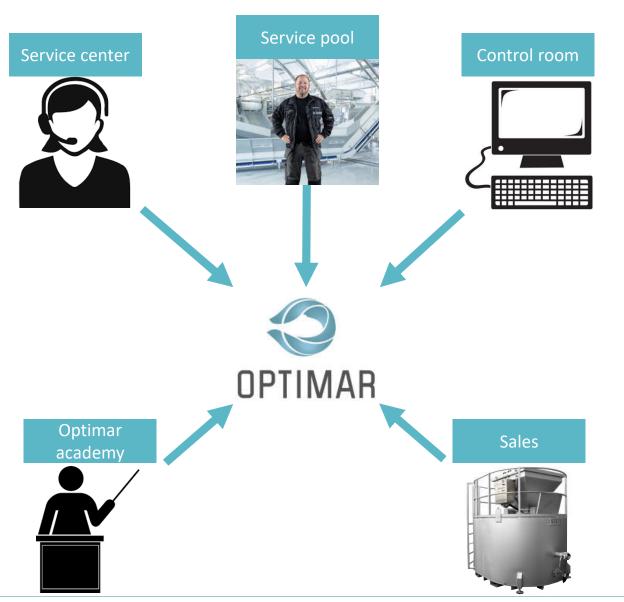
Aquaculture – processing solutions

Aquaculture – biological control aftermarket

### Significant opportunities in developing services and aftermarket

### Key initiatives for development:

- ✓ Tiered service agreements
- √ spare parts program
- Loyalty-enhancing preventive maintenance programs
- ✓ Increased use of OEM components
- Digitalisation to unlock 24/7 tracking and assistance



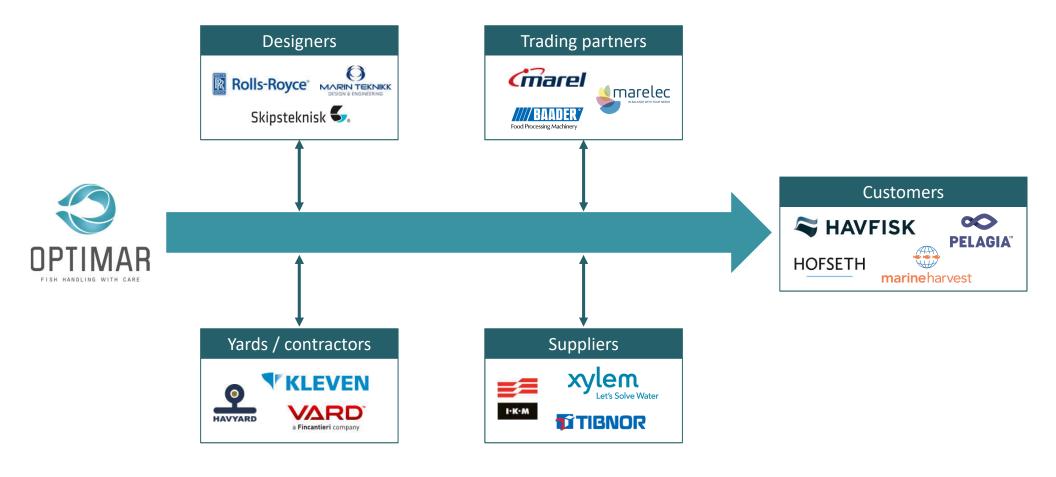






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# We are experienced in working with a number of sub-suppliers and trading partners to ensure the best possible end product for our customers



# Optimar's role as system integrator – solving challenges that call for a combination of several engineering and commercial disciplines

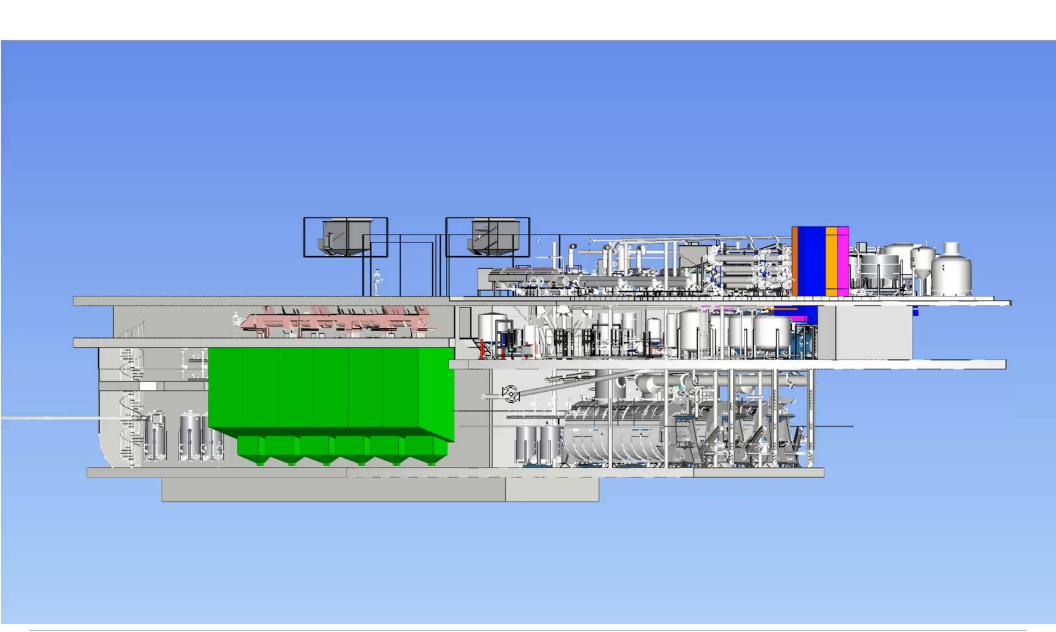






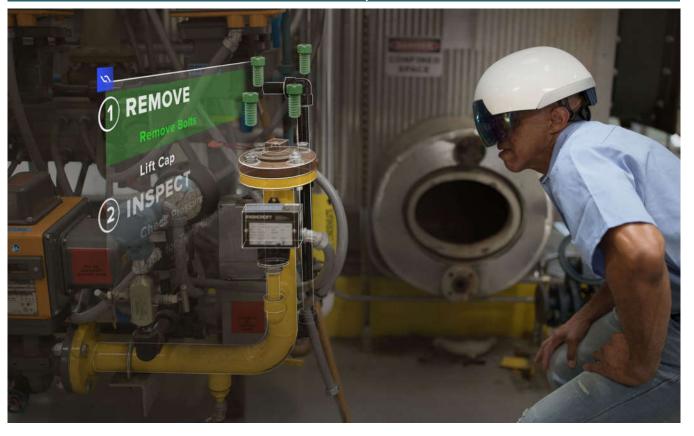
## Our teams has depth and diversity within:

- ✓ Project Management
- ✓ Design
- ✓ Fabrication
- ✓ Programming
- ✓ Installation
- ✓ Steelwork
- ✓ Electrical installation
- ✓ Automation
- ✓ Robotics
- ✓ Training
- ✓ Service



# New integrated digital system will allow for live tracking of all Optimar deliveries worldwide including 24/7 remote diagnostics and support

### Illustration of virtual reality service instructions



#### Optimar value

- ✓ Remote diagnostics and support
- ✓ Roll out data for similar products
- ✓ Input for R&D
- ✓ Key and unique selling points
- ✓ Design of new factories
- Data evaluation and production optimization
- ✓ Data ownership/rights

#### Customer value

- Increased up-time and technical support
- ✓ Safety and efficiency
- ✓ Predicted maintenance
- ✓ Fish catching diary and traceability
- ✓ Optimizing production modes



### Unparalleled track record of repeat business from satisfied customers

### Example of repeat business from customer: Havfisk project deliveries since 2000

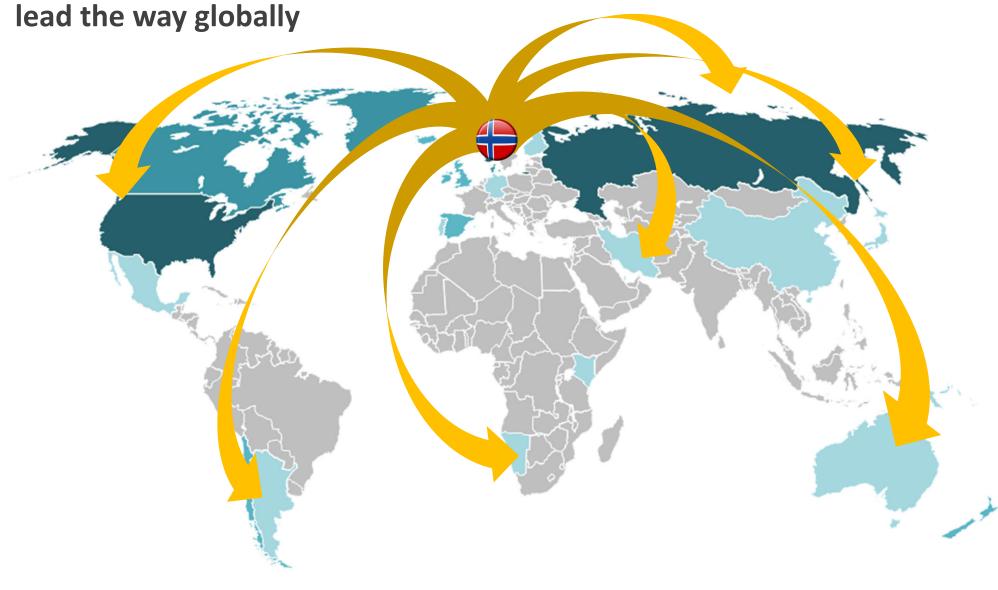






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New markets are emerging rapidly, and Optimar is ideally positioned to



Source: Company

