



Using vision and AI technology to improve fish handling and data collection

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Software Product Manager



Optimar - a global market leader

Turnover

933

MNOK 2021

Over

1000

Installations
worldwide

About

370

Employees

Established

1934

80 years of
experience

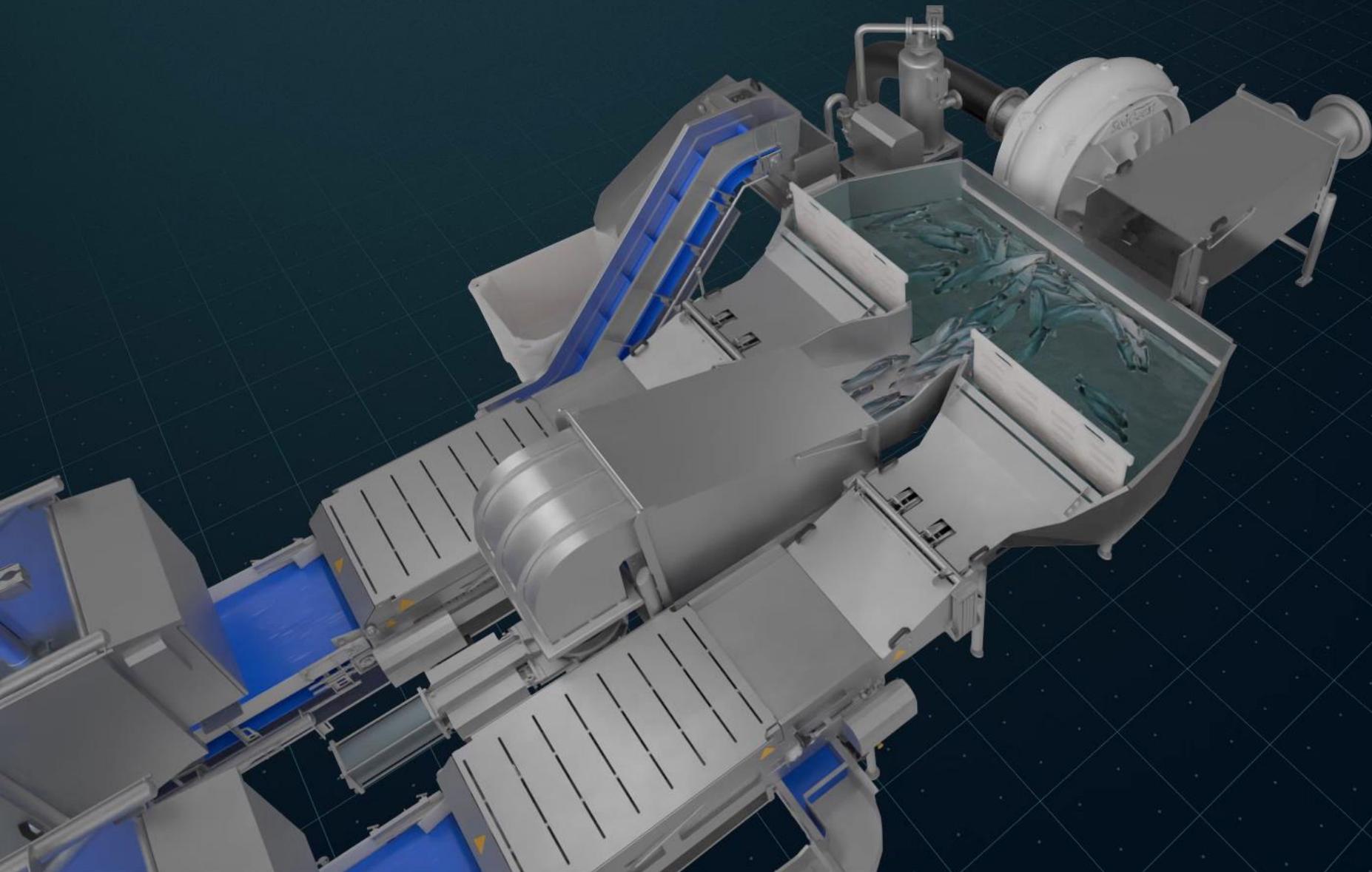
Why focus on humane handling of fish



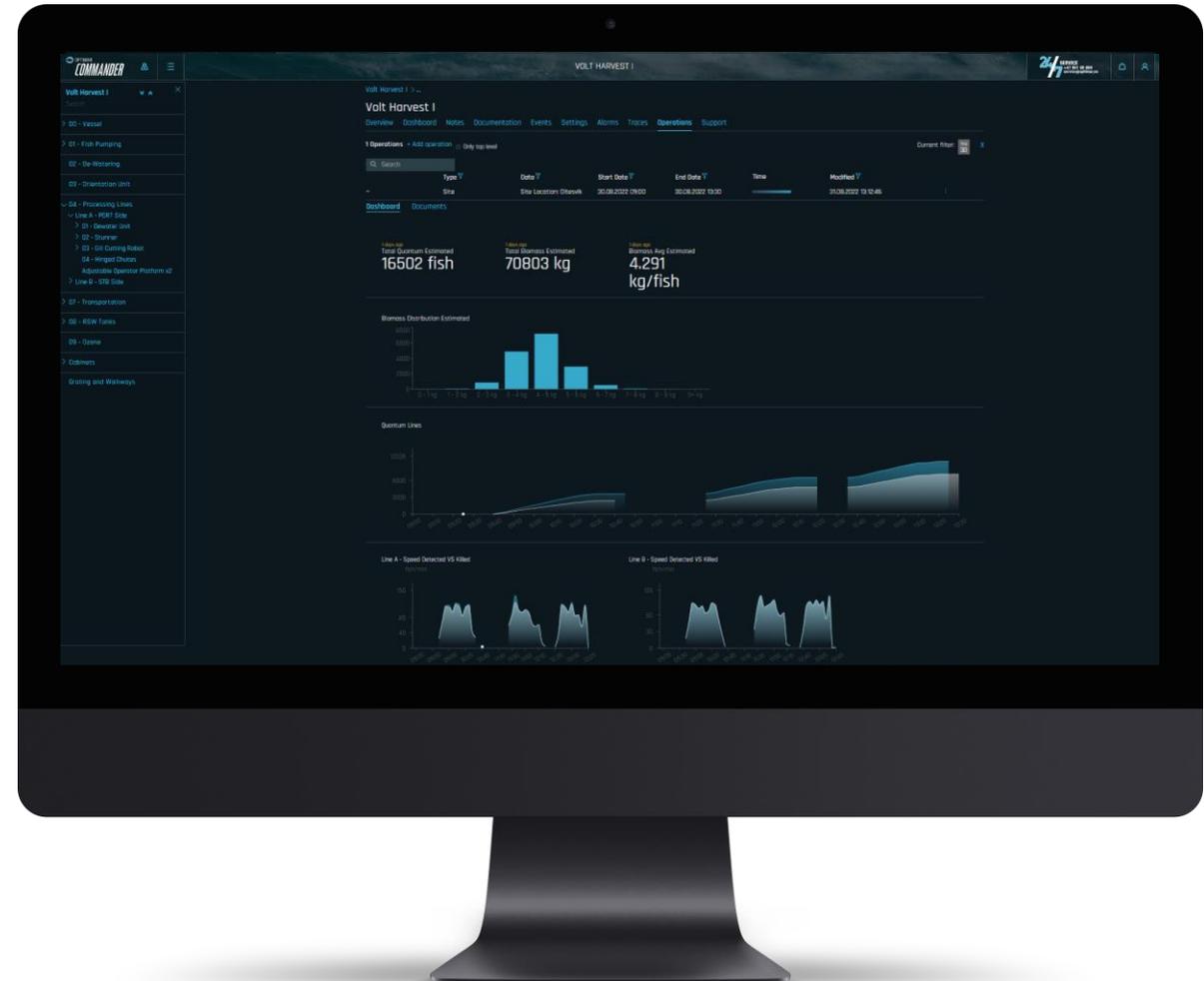
- A moral choice – respect for the animals.
- To maintain optimal fish health, prevent diseases and reduce stress.
- Reduce and prevent fish mortality, and increase the share of useful fish.
- Better quality of the fish and improved food standards.
- To create a healthier society with improved food safety standards – we prefer to know what we consume.

Stun & Bleed system - fish processing in the most efficient and humane way as possible

The Stun & Bleed system is taking care of the fish from the moment of entering alive and all the way until a humane slaughter is completed. The system is designed in order to increase the welfare of the animal, to allow for full automation, easy cleaning and to give access for easy surveillance of the process.

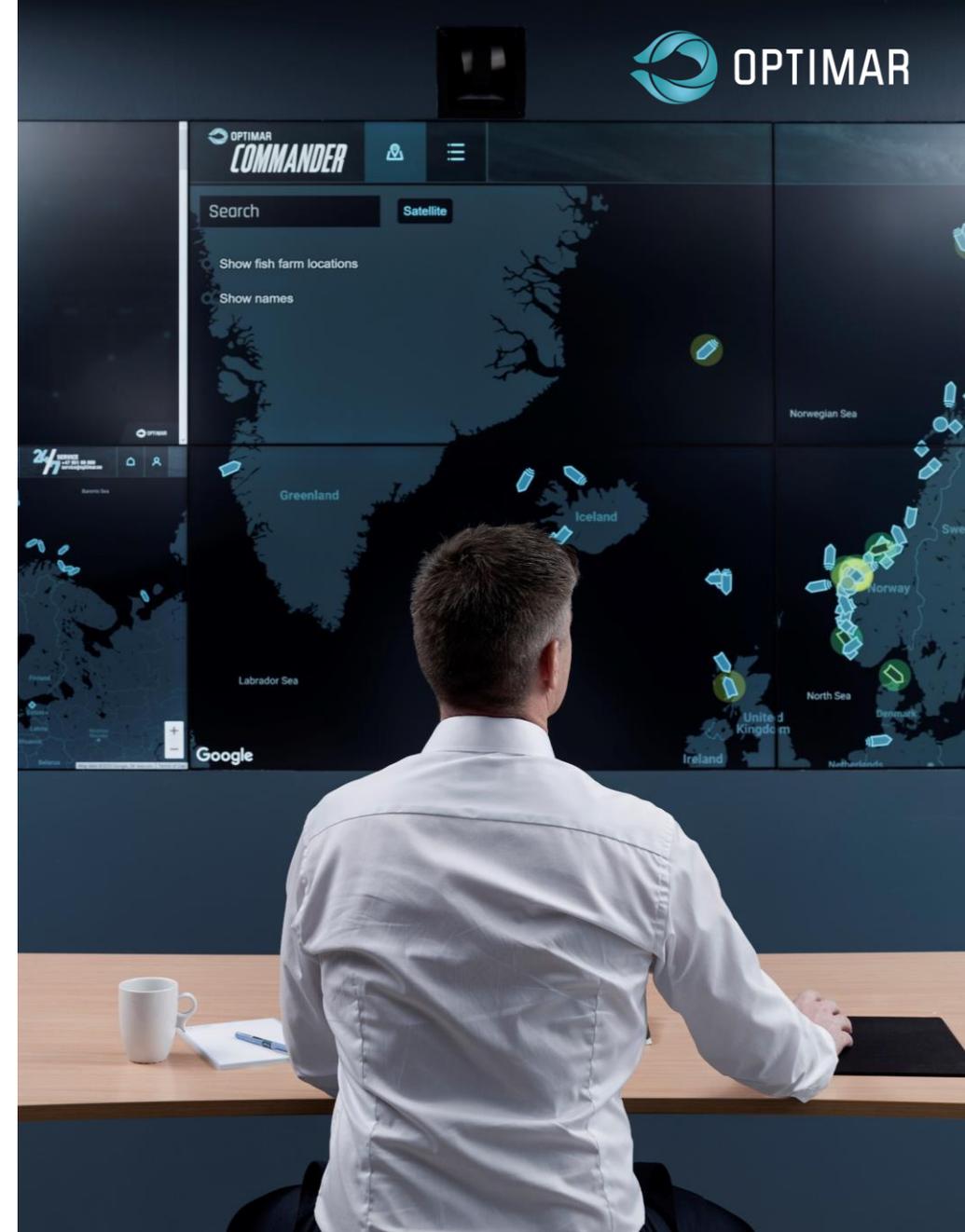
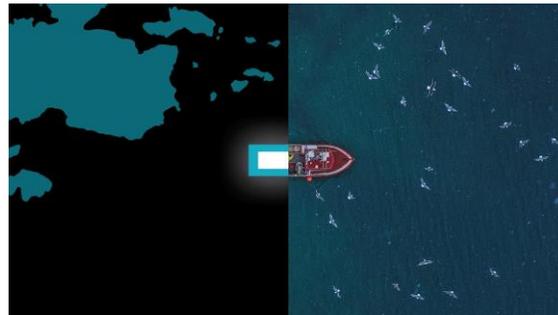


COMPLETE OVERVIEW – CLEVER DECISIONS



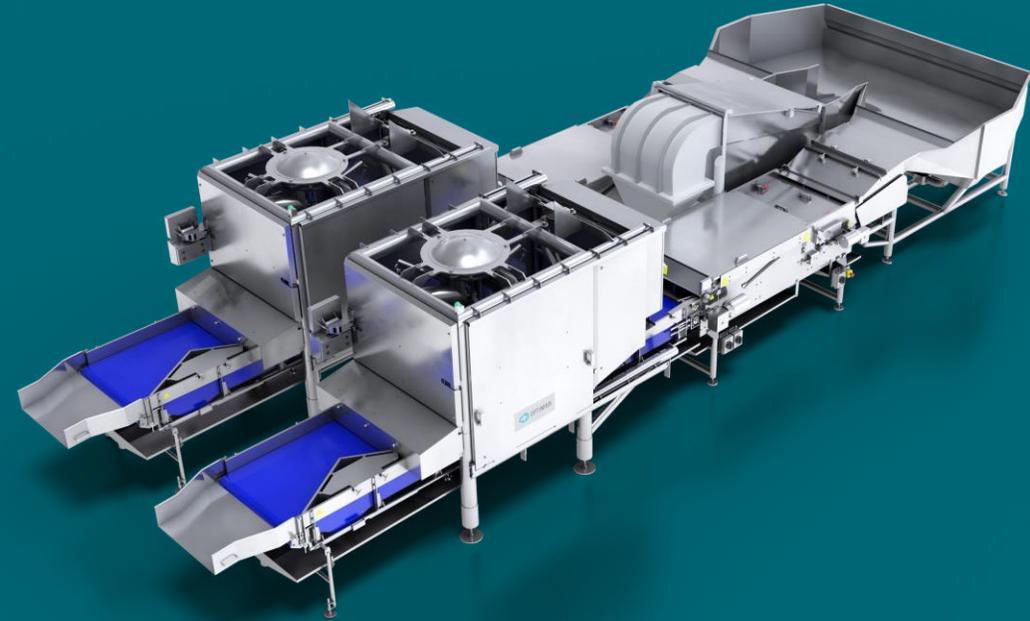
Key market and technology trends

- More highly automated machinery
- More data capture from processing
- Traceability on product (data sharing)
- Sustainability focus including fish welfare
- Fully integrated factories



Stun and Bleed Line

- Electric stunning before killing – unconscious fish before killing
- Automatic feeding to the stunner and further to the gill cutting robot
- Precise and efficient gill cutting
- Eliminate manual handling – and risk of bacterial contamination



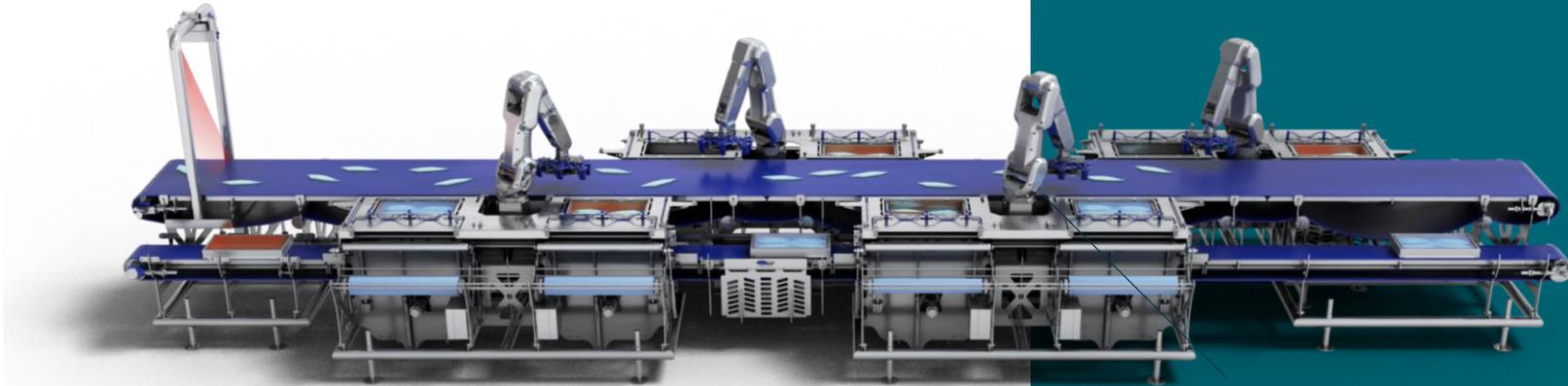
Species Recognition

- Efficient and automated sorting of species.
- Capacity: 1 fish per second
- Requires singulated fish
- 99,5 % accuracy on species.
- With Commander, catch diary and statistics can be created.



Automatic Packing Line

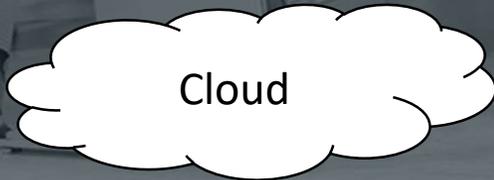
Under development !



- By using advanced automation and robotics, the automated packing table offers interleaving packing solutions for fish fillet.

- Fewer people are required for packing operations.
- Increased accuracy of product weight.
- Less overweight on boxes.
- Compact all-in-one solution.

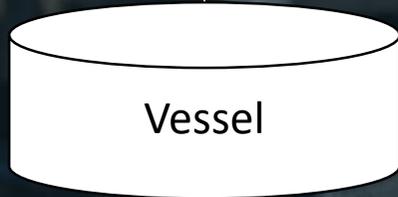
Office - Web - Factory Monitoring and planning



Cloud

Office Factory

Commander Web
Commander OnSite



Vessel

Vessel Bridge - Factory Monitoring and planning



Factory Floor - Local monitoring & Control



Factory Office - Local monitoring & Control





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Thank you for your
attention!

Questions?