

Harvest control for more sustainable fisheries





7th Global Fisheries Enforcement
Training Workshop
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Scantrol Deep Vision AS











How can you use the Deep Vision technology to target IUU fishing?

The fisheries are in crisis

- Almost 90% of global commercial fish stocks are overfished or fully exploited
- 1/3 of the stocks are overfished
- More than 10% of the annual global catch is discarded
- We need to feed a growing population that will reach 9,8 billion by 2050
- Global demand for seafood expected to almost double in this period
- The global fisheries loose approximately \$83 billion a year







We are wasting valuable marine resources in a world where we so desperately need them.





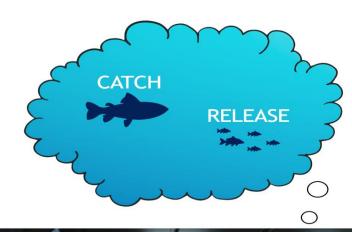
We need to find radically news ways to harvest and control our fisheries resources!



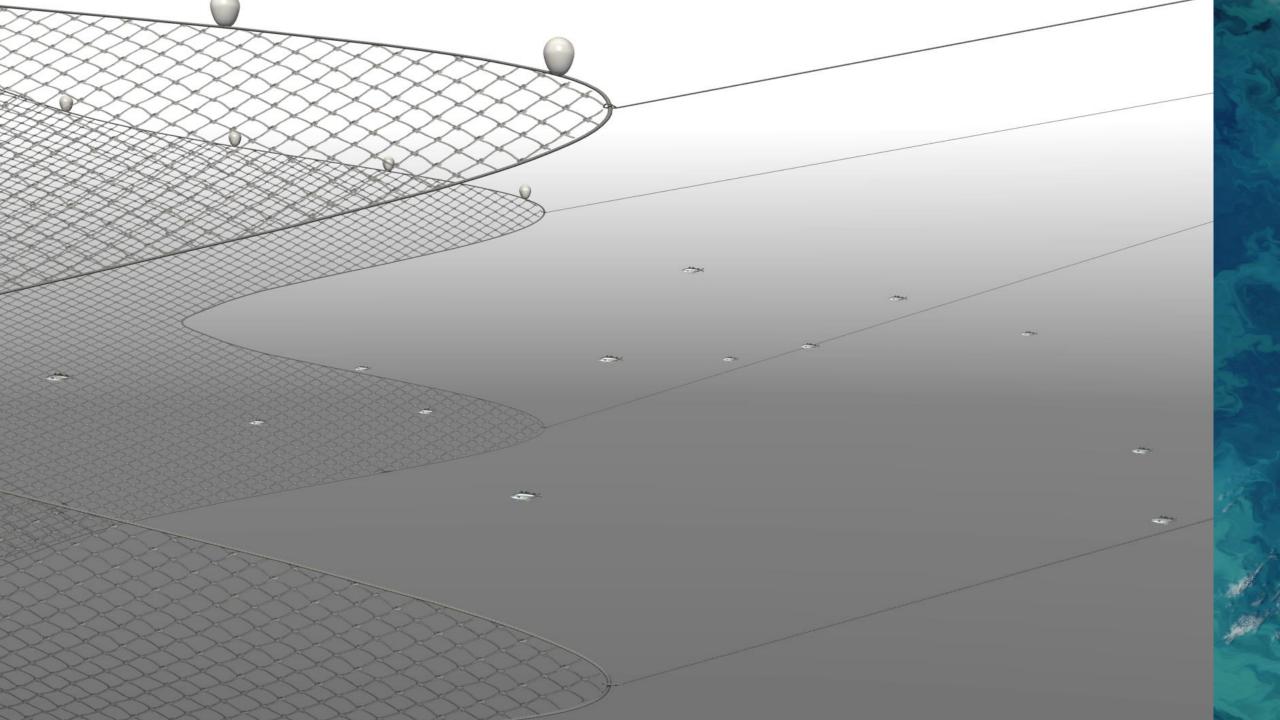


Deep Vision is your eyes under water

Our mission is to give fishers, researchers and regulators as much information as possible so that we can manage our precious marine resources in the best possible way.









Deep Vision for marine research

No Catch – Just Data





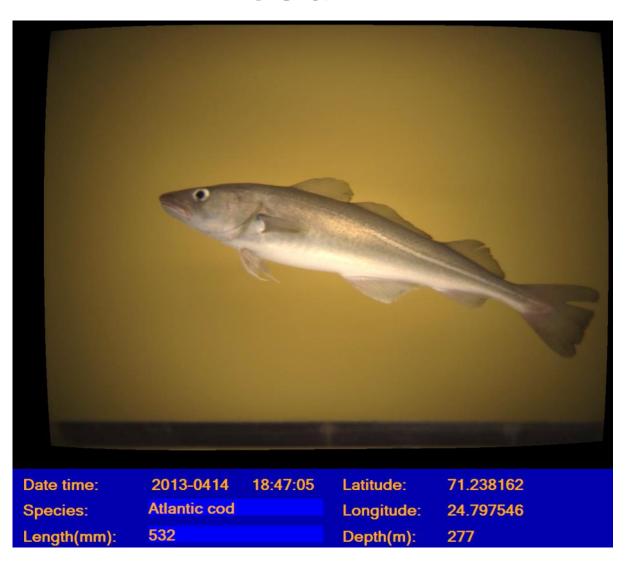
Dr. Huyngbeen Lee: The biggest change is eco-friendly research that does not catch fish when operating trawling equipment.



We have a database of millions of images of fish that we now use to train Deep Vision for the commercial fisheries.



Cod





Lumpsucker





Shrimp



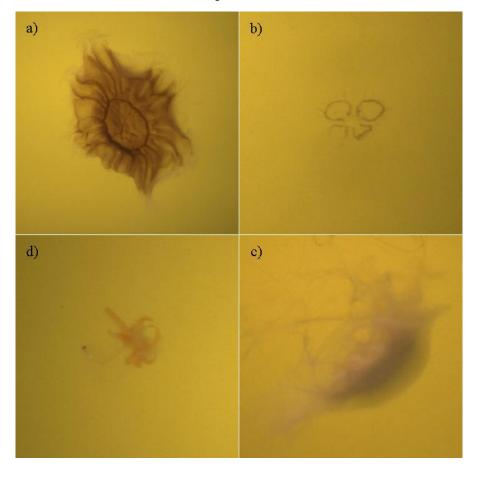


Octopus





Jellyfish



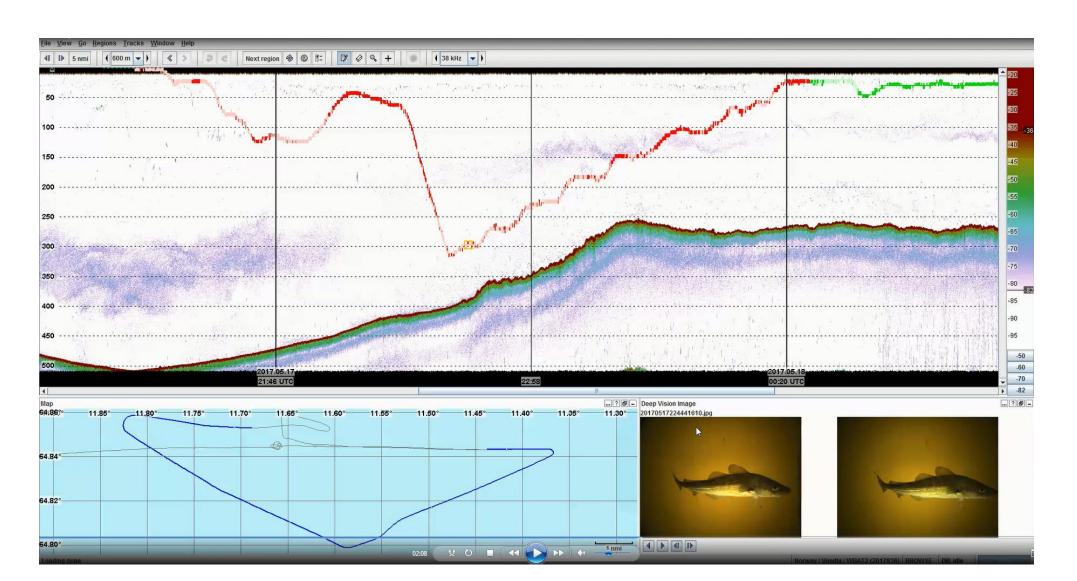


Juvenile fish

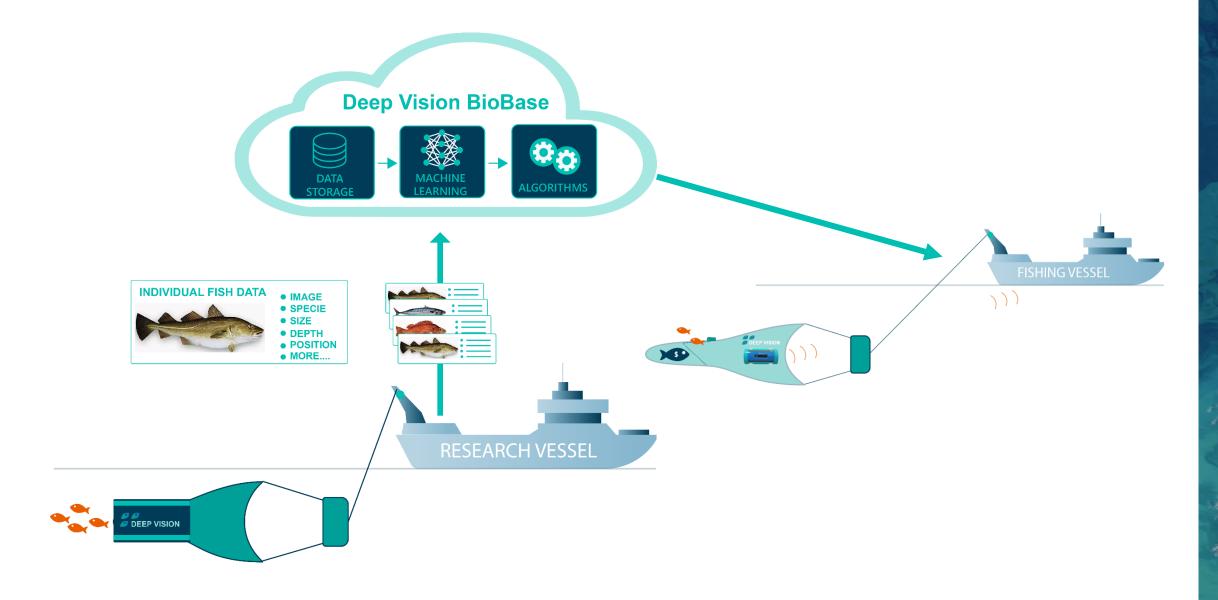




Deep Vision helps interpret acoustic data









Deep Vision for commercial fisheries

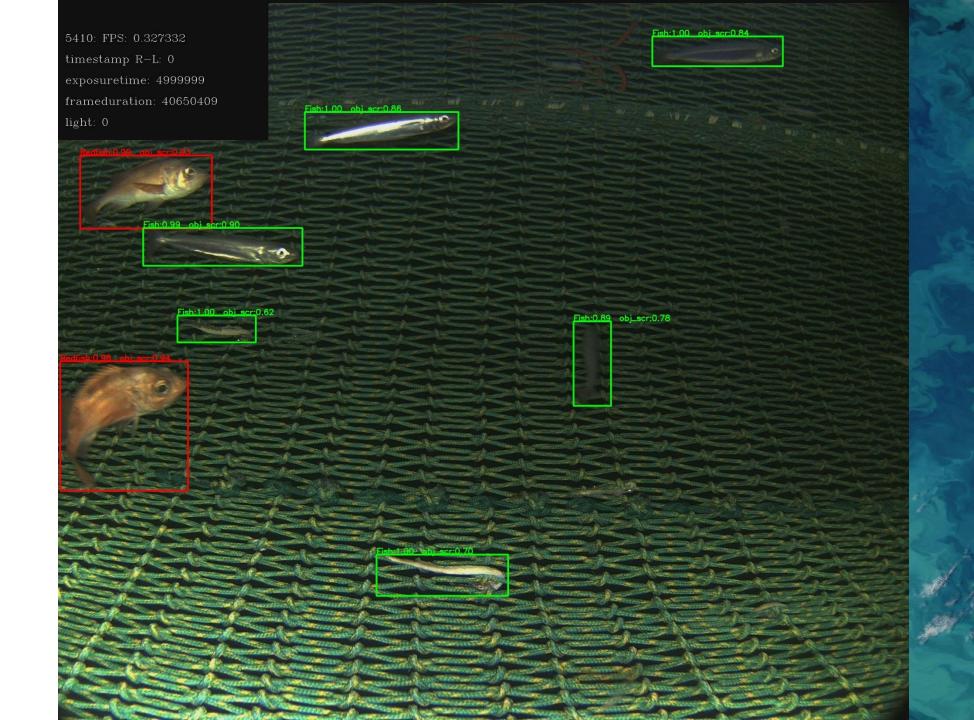














Developed in three stages

Stage 1: Deep Vision CatchView Sensor

Image capture and offline analyses on board

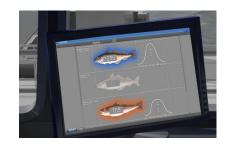
Stage 2: Deep Vision Live Catch Monitor

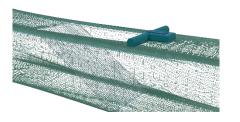
Real time catch information on the bridge

Stage 3: Catch / Release

• Catch and release mechanism controlled from the vessel









Deep Vision will make it possible to choose the species and size of fish so that we can:

- Fish more efficiently and reduce fuel consumption
- Catch only the fish that we need
- With the best possible quality
- To the best price for the fisher
- Reduce bycatch
- Manage our fisheries resources more sustainably



Where are we going from here?

- Modular system where you can add sensors specific to your data needs
- Solve problems specific to each fishery
 - Target species
 - Reduce bycatch
 - Target or avoid sizes
 - Reduce illegal discards
- Pave the way for tomorrow's resource management
 - Live data about the fish being caught
 - Target extraction of resources to certain size segment to improve the maximum sustainable yield (MSY)
- Contribute data to traceability systems Collect data from the commercial fleet to improve resource management
 - The Norwegian reference fleet



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DEEP VISION











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