

#### Precision trawling for more sustainable fisheries





1<sup>st</sup> International Symposium on Catch Identification Technologies Hege Hammersland Business Development Manager Scantrol Deep Vision AS









#### The fisheries are in crisis

- Almost 90% of global commercial fish stocks are overfished or fully exploited
- 1/3 of the stocks are overfished
- 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.







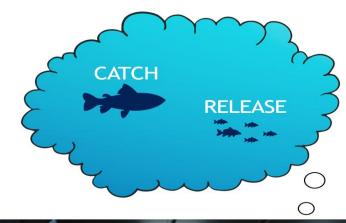
We need to find radically news ways to harvest from our fisheries resources!



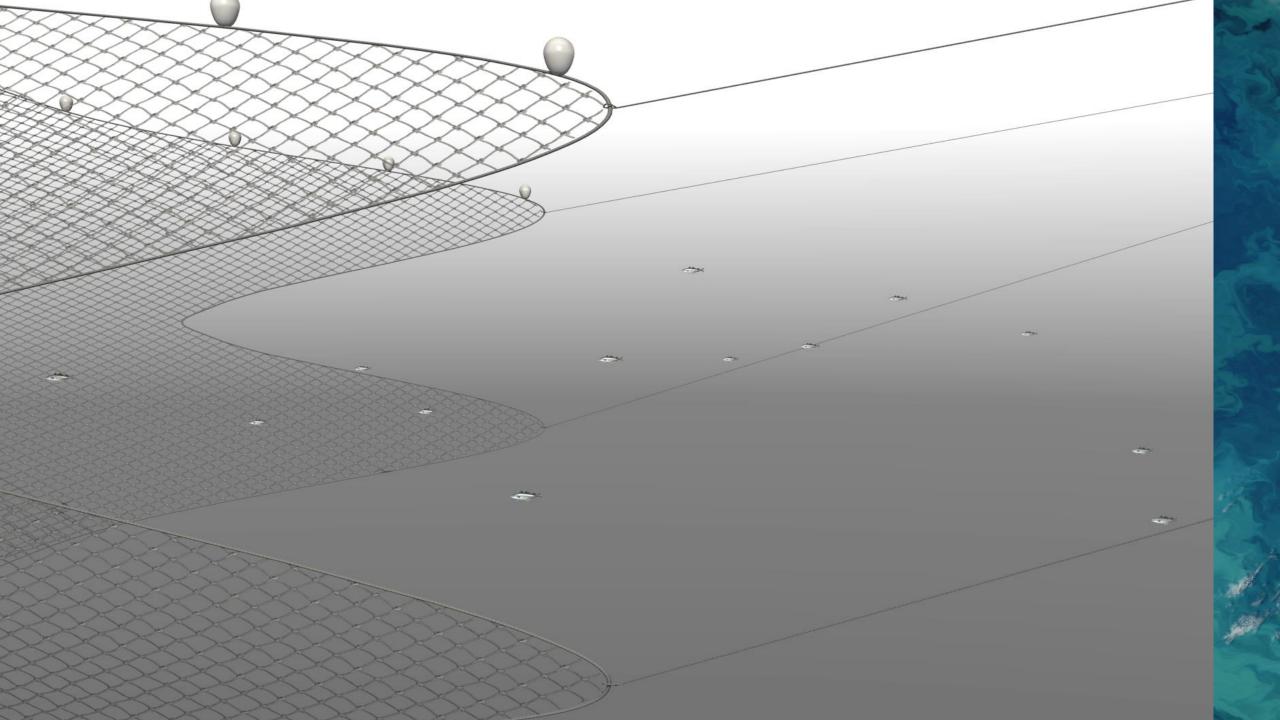


# The skipper has limited information about the catch before it is on deck

Our mission is to give the skipper as much information as possible so that he can make the best possible decision about what to catch and what to release.









#### Deep Vision for marine research

No Catch – Just Data!





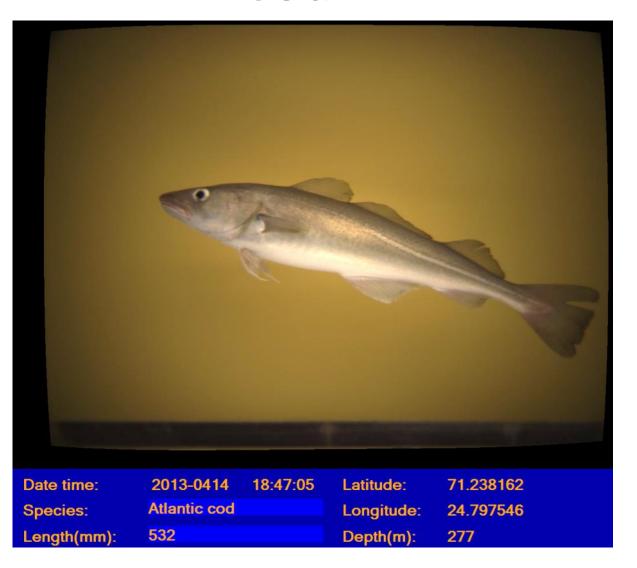
Dr. Huyngbeen Lee:
The biggest change is eco-friendly research
that does not catch fish when operating
trawling equipment.



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



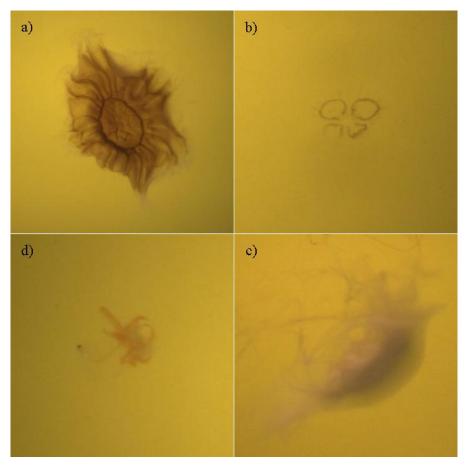


Octopus





# Jellyfish



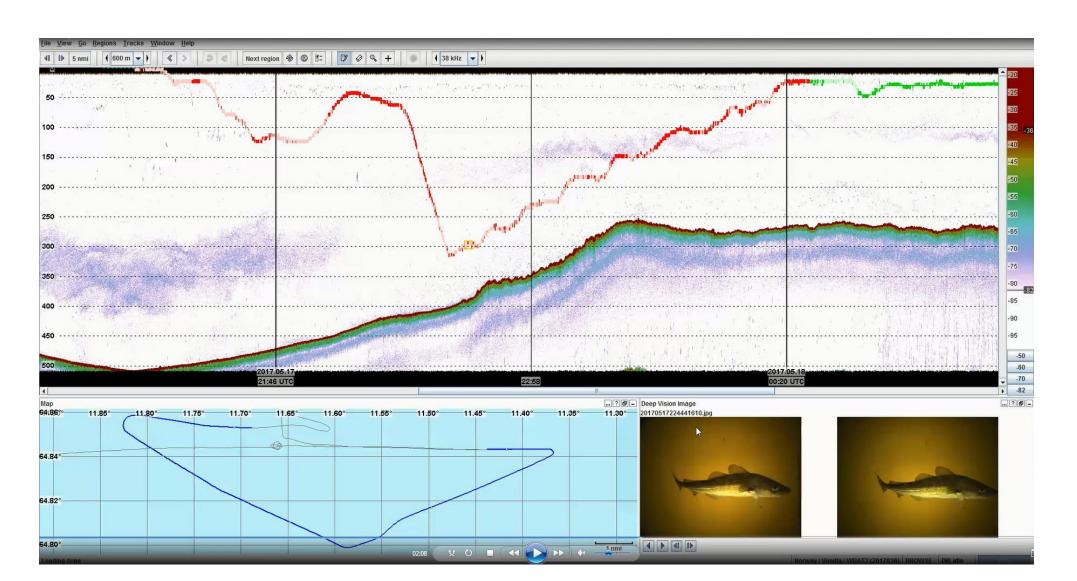


### Juvenile fish

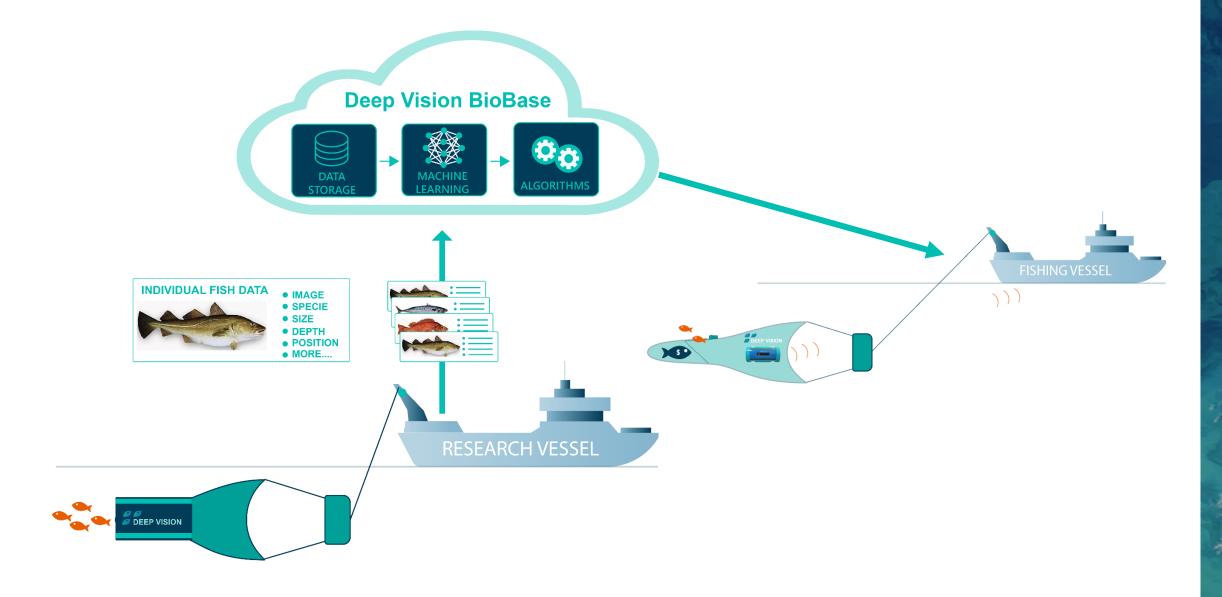




#### Deep Vision helps interpret acoustic data









## Deep Vision for commercial fisheries







#### Developed in three stages

#### Stage 1: Deep Vision CatchView Sensor

Image capture and offline analyses on board

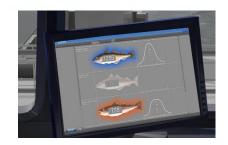


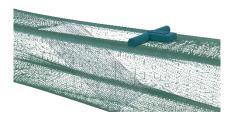
Real time catch information on the bridge

#### 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 fisherman
- Reduce bycatch
- Manage our fisheries resources more sustainably













#### Questions?

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