


Capture based aquaculture on Arctic  
cod  
-  
state of the art

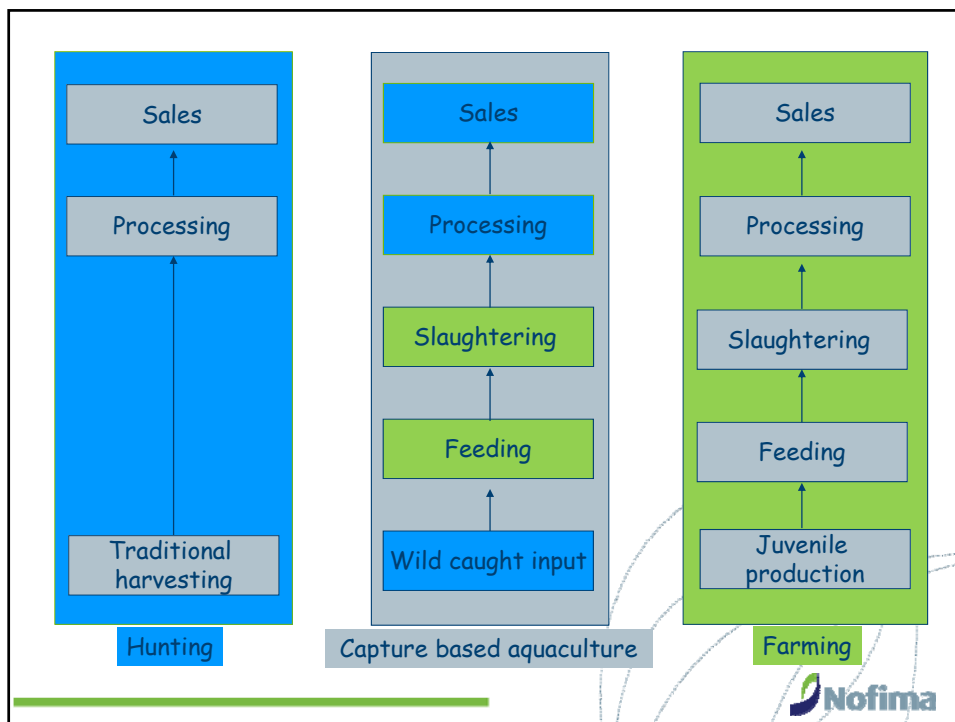
Øystein Hermansen  
and  
Bent Dreyer

The slide features a dark blue background with white text. The title is centered, and the authors' names are positioned below it. A green horizontal bar is at the bottom. Faint, light-colored curved lines are visible in the background.

- Why capture based aquaculture (CBA)?
- CBA on Cod - the state of the art
- Challenges




The slide has a white background with blue text. It contains a bulleted list of three items. A green horizontal bar is at the bottom. Faint, light-colored curved lines are visible in the background.



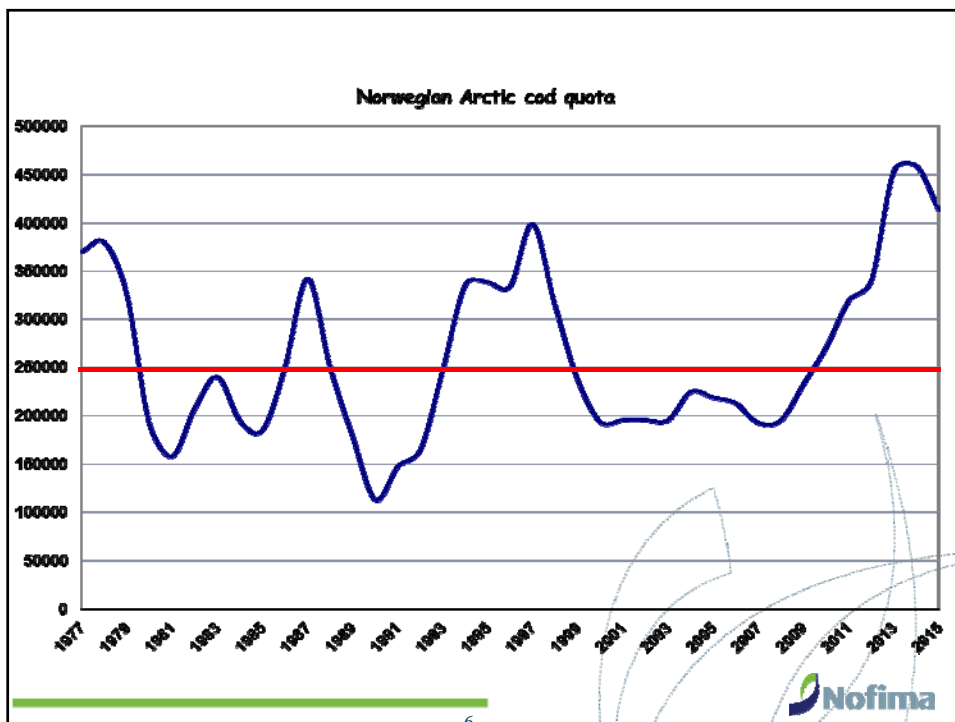
### Arguments for CBA

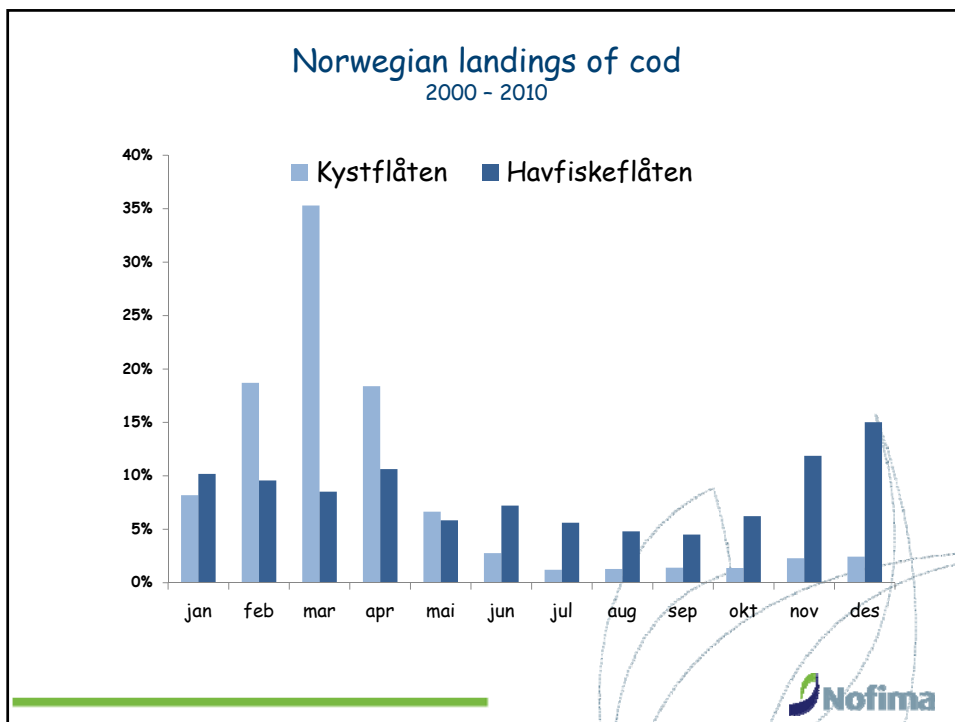
- Limited - and often decreasing - wild resources
- Adds volume and value to TAC
- Consumer preferences - fresh seafood
- Longer shelf life
- Input uncertainty
  - Volumes and timing
  - Quality
- Farming - too costly

# Biology



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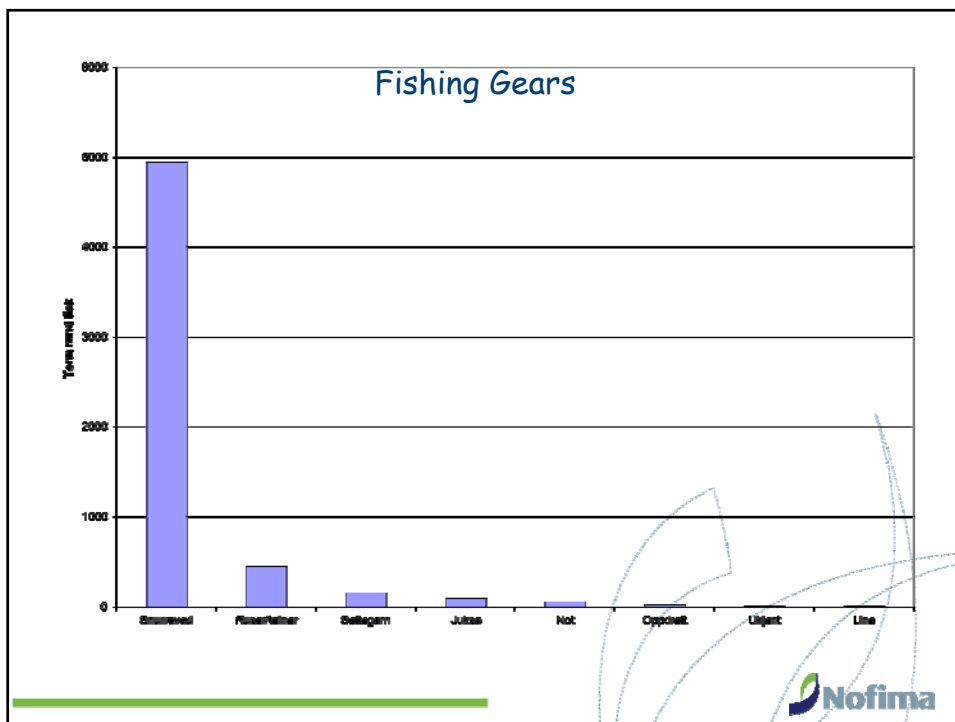
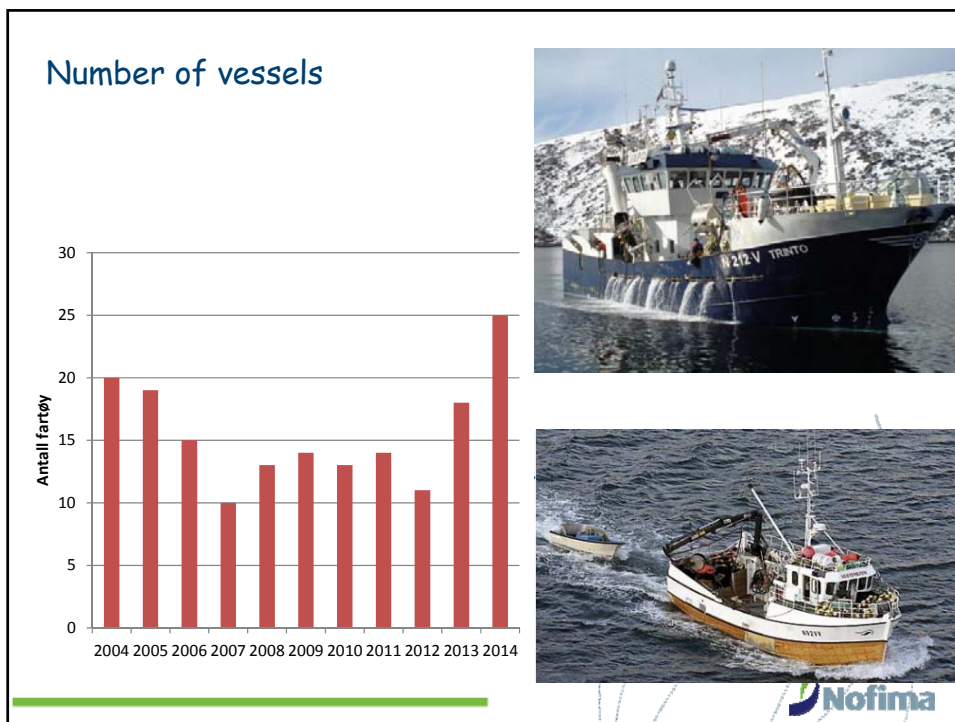


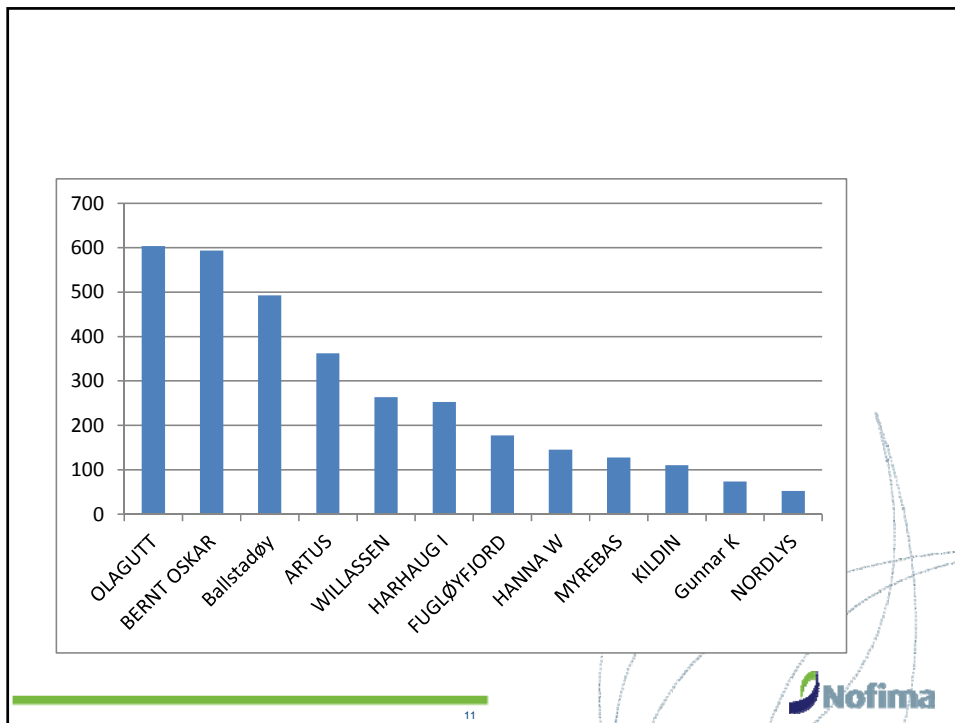


## Value system

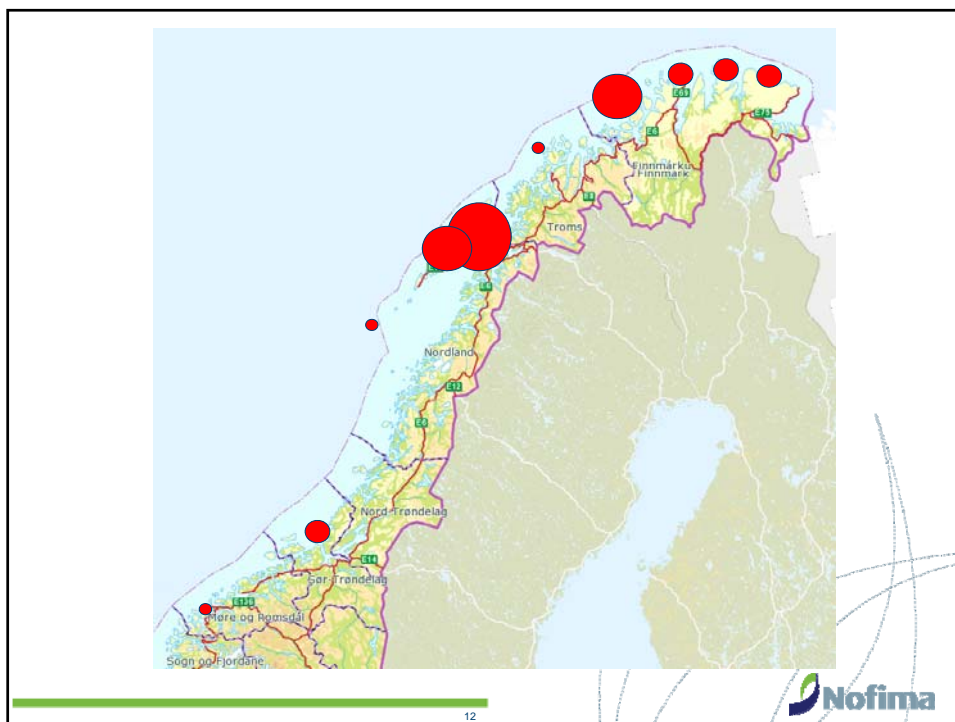
Nofima

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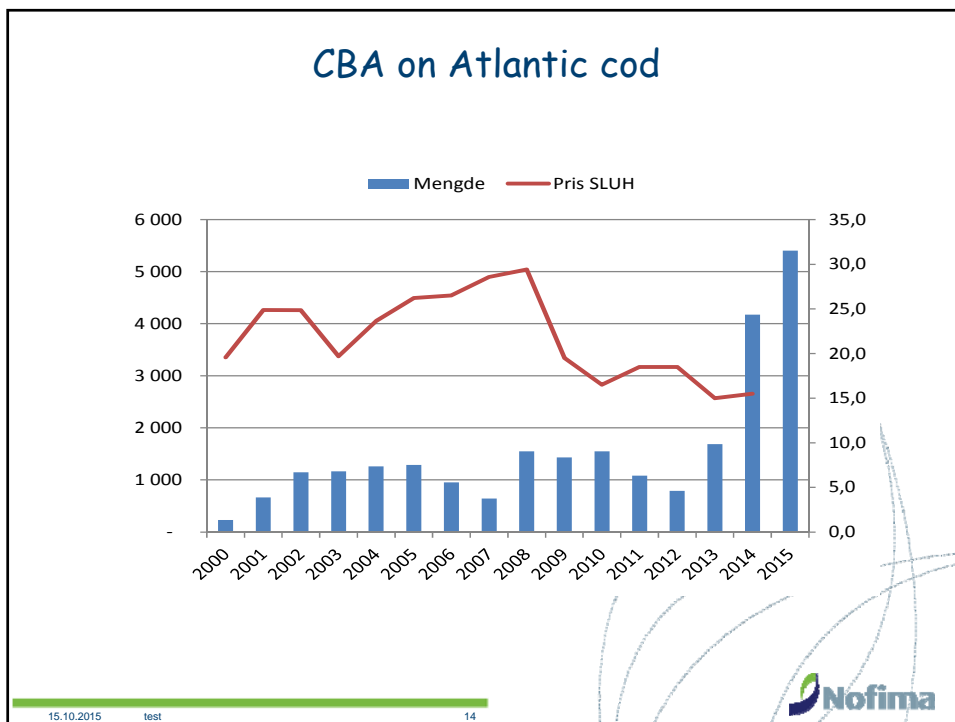
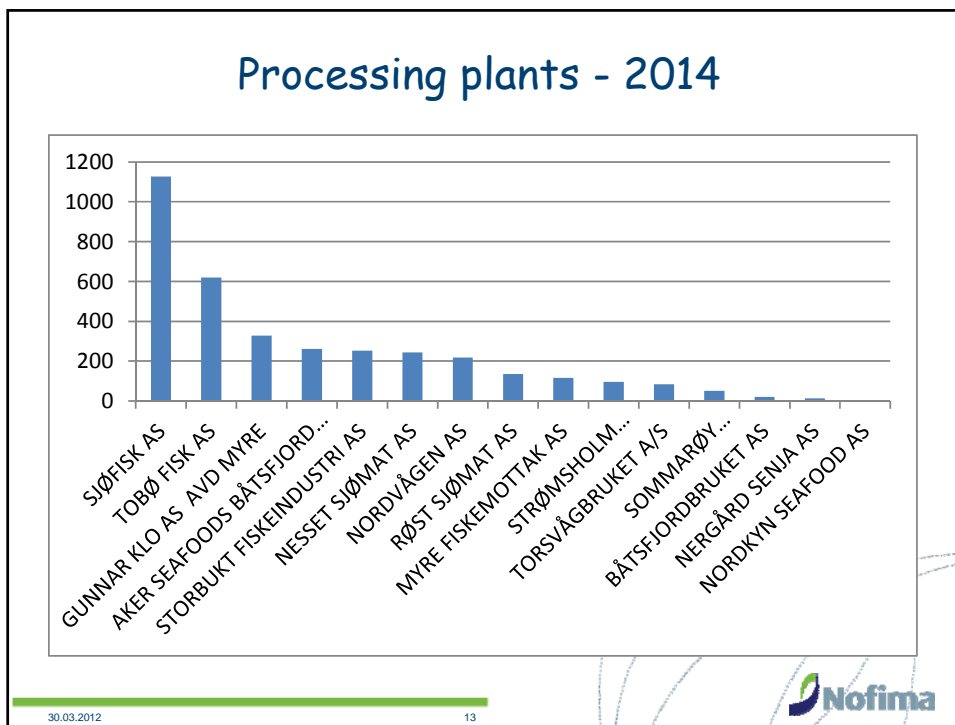




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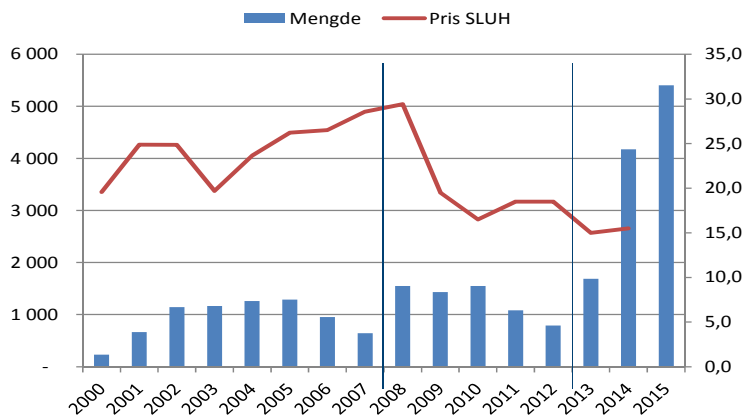


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## Quota premium - it works!

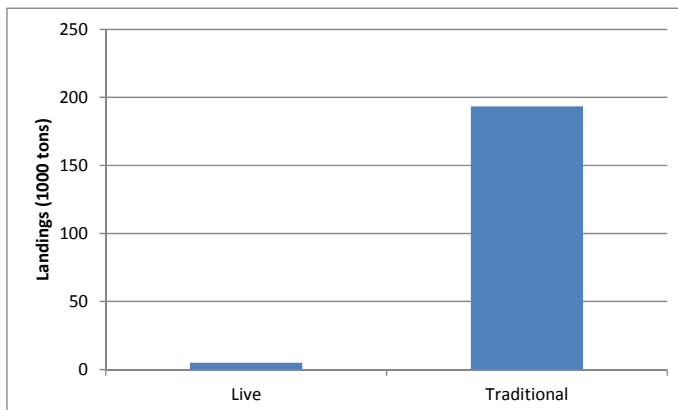
- Incentives for activity - likely temporary
- 2008 - ca 25 % bonus
- 2013 - expanded ca 75 % - very strong incentive



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- Relatively small volume landed live
  - Could be expanded
  - Significant compared to fresh sales in June - Oct.



15.10.2015

test

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## Further developments

- 10% drop in cod quota
- Quota premium until 2018
- Harvesting strategy - more concentrated in space and time
- More important to add value to TAC
- Input uncertainty
  - Volumes and timing
  - Quality
- Market:
  - Consumer preferences - fresh seafood
  - Longer shelf life
  - Continuity
- Farming - still too costly?



## Challenges

- Technology and biology:
  - How to reduce risk and costs in harvesting, storing and processing?
- Public governance:
  - Will the quota premium survive?
- Knowledge:
  - How to develop and share?
  - How to integrate fisheries and aquaculture?
  - How to avoid opportunism?
- Market:
  - Product mix and labeling
  - Logistics and shelf life
  - Reduce volume and quality uncertainty
- Structure:
  - How to organize the value system?
  - How to share risk and profit in a fragmented value system?



