This project has received funding from the European Union's Horizon 2020 research and innovation action under grant agreement no.633680





Landing Obligation 2019: What have we learned, what are the next steps?

A Science - Policy conference for the closing of H2020 DiscardLess project

Handling unwanted catches onboard

Birgir Sævarsson & Jónas R. Viðarsson 31/01/2019







Challanges

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- Lack of space onboard for handling and stowage
- Lack of onboard labour / additional labour required
- ➤ No/little economic incentives for fishermen and vessel owners
- Investment needed
- > Shorter fishing trips due to lack of stowage space
- Infrastructure at harbour to handle unwanted catches lacking
- Sometimes no market for unwanted catches
- Reporting as well as Monitoring, Control and Surveillance a specific challenge.

Challanges

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The MCRS catches have to be recorded and stowed separately from the catches intended for human consumption (EU 2015/812).

Vessels greater than 12 meters length overall also have to place their catches in boxes, compartments or containers separately for each stock (EC 1224/2009)

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Optimum handling of all catches, placing everting into boxes by species and sizes — and clearly separating in the hold between catches intended for human and non-human consumption e.g. by having a separation panel and/or differently coloured boxes.

+Allows for using all catches for high value products, as unwanted catches can for example be used for pet-food, pharmaceuticals, nutraceuticals, high value feed etc.

-Does however require lot of work and space.

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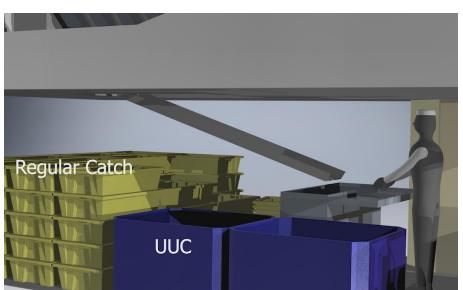


Bulk storage of unwanted catches – to be classified at harbour.

+Saves time and space. Handling can be made to fit requirements of intended production stream.

-Is only allowed at the moment for below 12 meter vessels.





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Making (basic)silage or thickened silage out of unwanted catches

- +Simple solution requiring minimum effort and relatively little space.
- -MCS can be an issue (examples though where this has been allowed given conditions on reporting e.g. CCTV).
- -Relatively low value





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Making FPC or FPH out of unwanted catches

+More value

-Considerable investment needed and more effort from the crew



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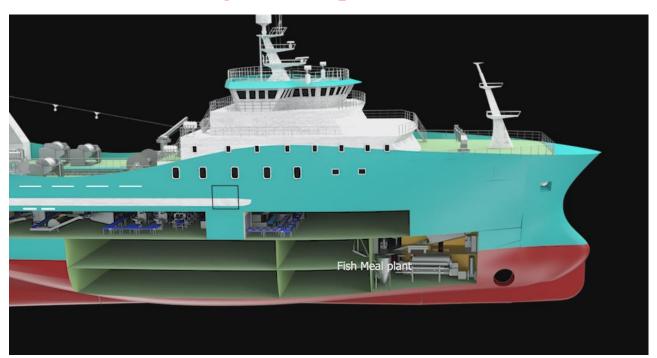




Making fishmeal and fish oil out of unwanted catches

+High value

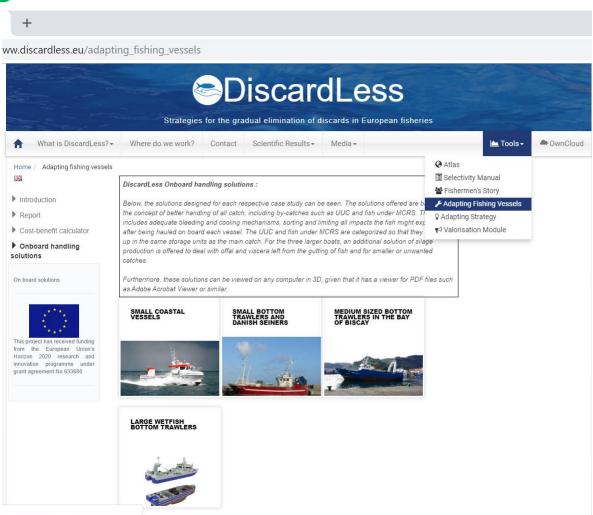
-Major investment, needs significant space and extra labour



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> 12 m coastal vessel

> 20 m seiner

> 29 m bottom trawler

> 36 m BoB bottom trawler

> 50 m bottom trawler

> 80 m factory trawler





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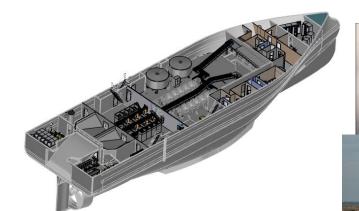
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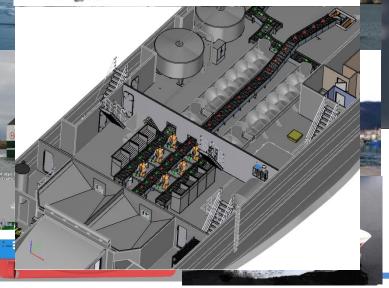


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HANDLING UNWANTED CATCH ONBOARD



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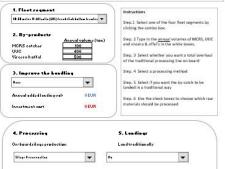
Discardless calculator

Annual Added Value

Total Added Annual Value

This calculator computes the revenue obtained by adding/increasing the processing of by-catches as well as estimating the benefits of improved handling. This calculator is a part of WP5 (DiscardLess) where solutions have been developed for four Europian fleet segments. Solutions for processing of bycatch, sorting, storing of the catch and how to improve all handling are all presented. Along with revenues, this calculator presents the investment cost for each respective fleet segment based on the solutions offered.

The aforementioned by-catch consist of fish under minimum conservation reference size (MCRS), unavoidable unwanted catch (UUC) and viscera & offals. These catches have been analyzed with respect to the chemical composition, fishing habit and fishing stocks for each fleet segment. For more information about designs, see WPS (DS.4), DiscardLess.



181.901 EUR

-166 000 EUR





Thank you

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