



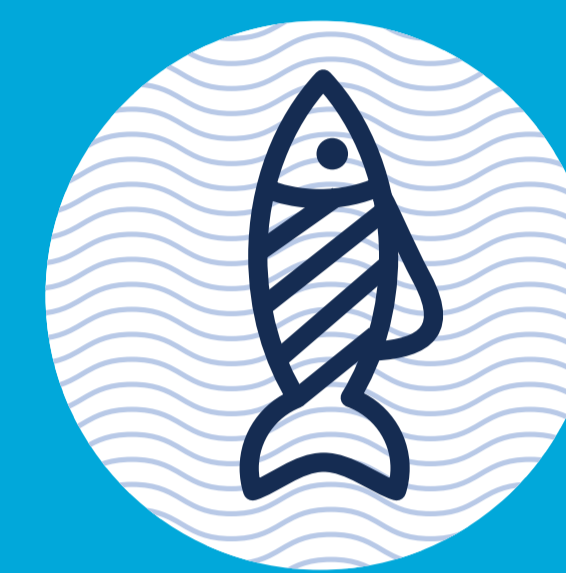
SUPPORTED BY THE EFF (European Fisheries Fund)

INNOVATION IN FISHING VESSEL DESIGN

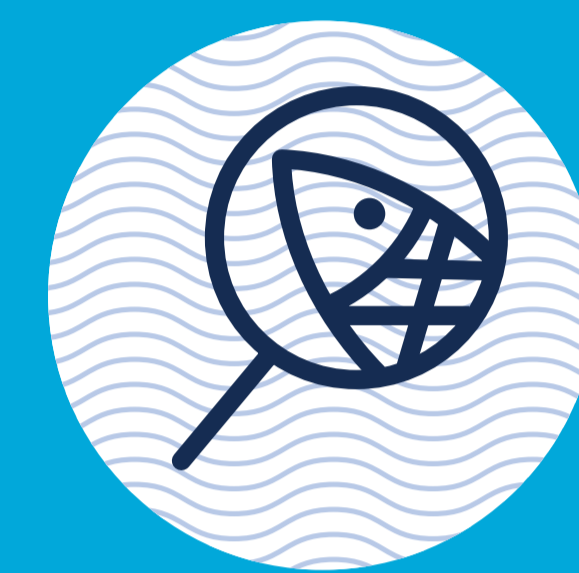
An innovative type of multipurpose vessel was designed and constructed. The objective was to construct a twin-rig fishing vessel suitable for efficient fishing for plaice and sole, with a capacity to carry 850 boxes of fish. Innovations that were part of the vessel design included: the hull shape; diesel-electric propulsion; insulation methods and materials used; a heat accumulation device in the engine room; fully automated sorting by size on board; and an automated plaice gutting machine.

But the vessel is suitable not only for fishing. The aft deck is sufficiently large to place a 20-foot container, for example containing survey equipment, and extra beds are provided. This means the vessel can also be used to provide services, for example to oil companies with oil platforms, and wind farm companies with offshore turbines.

More information here: <http://www.masterplanduurzamevisserij.nl>



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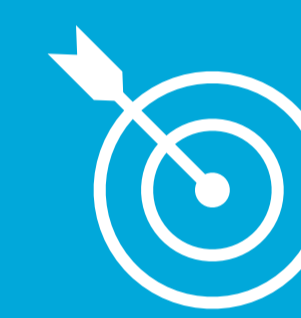


research



environment

URK, THE NETHERLANDS



RESULTS (2013 - 2015):

- High generator efficiency at 800 to 1 200 rpm and lower requirements for generator capacity compared to traditional vessels
- Lighter construction due to vessel shape and selective use of composites to replace traditional materials, and therefore fuel efficiencies compared to traditional vessel designs
- A larger propeller possible than on traditional vessels with fuel efficiencies
- Reduced onboard heating needs and associated power savings, with associated costs benefits
- Improved working conditions in terms of noise, vibration, and climate control



LESSONS LEARNED:

The operation showed the benefits of collaboration between designers, scientific institutes, shipyards and fishermen, to spur innovating thinking.



TOTAL OPERATION COST:

Total budget: 4 000 000 €
Union contribution: 2 000 000 €



CONTACT DETAILS:

Masterplan Sustainable Fishing Foundation
<https://masterplanduurzamevisserij.nl/nl/contact>