



Project: Use of a double (twin) set of bottom trawl to assess the selectivity of innovative cod bags and the structure of the caught population of Baltic cod

April 2023—December 2023

As a result of the project, both quantitative (geometric and resistance) and qualitative (based on underwater photographs and video) characteristics of cod bags used in Baltic fishing will be determined. A new, innovative in the Polish Baltic fishery, method of testing the selectivity of cod bags using the twin trawl system will be developed. Surveys at sea will confirm with high accuracy the number of fish leaving the bag during trawling and hauling. As part of the project, digital twins of fishing vessels will be created in a ship bridge simulator, enabling simulation studies of the trawl process. On the basis of actual measurements and simulation research, concepts of energy optimization (arrival to the fishery, fishing, return) will be proposed, taking into account innovative, ecological energy sources and novel types of thrusters.



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