



IMPROVE

DESIGN OF IMPROVED AND COMPETITIVE PRODUCTS USING AN INTEGRATED DECISION SUPPORT SYSTEM FOR SHIP PRODUCTION AND OPERATION

The IMPROVE project proposes to deliver an integrated decision support system for a methodological assessment of ship designs to provide a rational basis for making decisions pertaining to the design, production and operation of three new ship generations. Such support can be used to make more informed decisions, which in turn will contribute to reducing the life-cycle costs and improving the performance of those ship generations.

IMPROVE Project

IMPROVE is a three-year research project which started on the 1st October 2006. The project is supported by the European Commission under the Growth Programme of the 6th Framework Programme. Contract No. FP6 - 031382.

Project Partners:

ANAST, University of Liege
 Akeryards shipyard
 Uljanik shipyard
 Szczecin New Shipyard
 Grimaldi
 Exmar
 Tankerska Plovidba Zadar
 Bureau Veritas
 Design Naval & Transport
 Ship Design Group
 MEC
 Helsinki University of Technology
 University of Zagreb
 NAME, Universities of Glasgow & Strathclyde
 Center of Maritime Technologies
 BALance Technology Consulting GmbH
 WEGEMT

Belgium (project coordinator)
 France
 Croatia
 Poland
 Italy
 Belgium
 Croatia
 France
 Belgium
 Romania
 Estonia
 Finland
 Croatia
 United Kingdom
 Germany
 Germany
 United Kingdom

The Project Objectives

The main objective of the IMPROVE project is to develop three new ship generations in an integrated multiple criteria decision making environment by using the advanced design synthesis and analysis techniques at the earliest stage of the design process, which innovatively considers structure, production, operational aspects, performance, and safety criteria on a concurrent basis. The product types focused on this project are new generations of LNG gas carriers and chemical tankers, and an innovative concept of a large Ro-Pax vessel.

The specific objectives of the project are to:

- a) Develop improved generic ship designs based upon multiple criteria mathematical models,
- b) Improve and apply rational models for estimation of the design characteristics (capacity, production costs, maintenance costs, availability, safety, reliability and robustness of ship structure) in the early design phase,
- c) Use and reformulate basic models of multiple criteria ship design, and include them into an integrated decision support system for ship production and operation.

Further Information

More information about the IMPROVE project can be found at the project website <http://www.improve-project.eu/>

Alternatively you can contact:

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