Vessels for the FUTURE

The European Vessels for the Future Initiative

Vision 2050

By 2050, Europeans will be using their maritime and inland waterways space for transport; offshore food production, energy generation and mineral exploitation; an alternative to urban dwelling; tourism; manufacturing; and trade. The evolution of the maritime sector will need to ensure drastic emissions reductions; meeting safety requirements with the advent of new technologies and operations; training highly specialised manufacturing and operating personnel in order to use these products and provide services in this evolved and competitive waterborne environment.

The Need for a Research Public Private Partnership for the Maritime Community

The European maritime technology industry firmly believes that it can play its part in the positive development of Europe and its common political targets, whilst maximising the use of the oceans and seas in a sustainable and safe manner. However, this requires a **coordinated long-term RDI approach** involving the **complete maritime value chain**.

The European maritime community, through the Waterborne Technology Platform, has developed a comprehensive RDI roadmap (***Vessels for the Future***) setting ambitious targets providing the justification for a contractual Public Private Partnership (cPPP) at EU level with the aim of focussing maritime research **towards zero emission and energy efficient vessels**; and **towards zero accident vessels**, with the overarching aim of **stimulating** the sector's global **competitiveness**.

Research Association established

To address the challenges, the European maritime industry launched the Research Association "Vessels for the Future" on 5 November 2014, with 50 companies, research institutes, academic organisations and interested associations joining this initiative at the first general assembly. The initiative will promote and facilitate maritime research, development and innovation with a focus on vessels and waterborne operations.

Vessels for the Future in Brief

Name of Initiative	Vessels for the Future
Start Date	**November 2014**
Requested EC Budget	**425 m€** (under Horizon 2020)
Number of EU Partners	**50** (Ship owners, ship yards, marine equipment supplier, classification societies, research, academia, SMEs, etc.), registered as of 2014-11-06
Demonstrators	Up to **40** including an overarching Pan-European Vessel Demonstrator
2050 Targets	• **80%** reduction in **CO_2** • **100%** reduction of **NO_x and SO_x** • Reduction of risk by a factor of 10
Ship Types Covered	Passenger vessels, cargo carrying ships, complex special vessels also supporting Blue Growth
Key Technology Areas	• Energy management • Hull / water interaction • E-maritime and safe shipping • Materials, design and production • Fuels and propulsion systems
Pan-European Vessel	• Unique Pan-European maritime platform for integrating "Vessels for the Future" research results applicable to different ship types and environmental conditions • Framework for demonstrating functionality, performance and cost effectiveness of new technologies at ship level