



Press Release

NAVAIS: Model Based Systems Engineering in a shipbuilding environment

Thursday 11th of February the first in a series of webinars was hosted by the [NAVAIS](#) project. In this first webinar, an audience of almost 100 participants was informed about the latest developments on how to apply Model Based Systems Engineering (MBSE) in a shipbuilding environment. Three presenters highlighted why and how the NAVAIS project is bringing the MBSE approach to shipbuilding.

Jeroen Pruijn of Delft University of Technology explained why MBSE, or a modular and flexible design approach can be beneficial to the design of small series of vessels like the passenger ferries and workboats. Jorinus Kalis of Damen highlighted the impact of MBSE on the business processes of a shipyard, helping Damen move from either a conventional "Engineer to Order" or "Sell from Stock" to a flexible yet cost effective "Assemble to Order" business model. Emilie Lenglet and Thibault Colas of Dassault Systèmes demonstrated how the **3DEXPERIENCE** software can be used to support this engineering approach with some examples developed in the NAVAIS project.

In the coming weeks, two more webinars and one discussion session with Small- and Medium Enterprises (SMEs) will be held. The 18th February session will focus on the design and engineering aspects and how to integrate innovative emission reduction technologies, both as developed in the NAVAIS project and a presentation by the related TrAM project, also funded under the Horizon 2020 programme of the European Union. A third session on the 11th of March will address the ship production impacts of the NAVAIS methods and an inspirational example from the civil construction sector.

A fourth session on the 18th of March will be focussed on a discussion with the SME stakeholders on the impact and opportunities of this new approach to shipbuilding on the supply chain of shipyards.

Registration is still possible through this link:

[Registration](#)



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Editorial note:

New, Advanced and Value-added Innovative Ships

The European maritime technology sector generates an annual turnover of € 91 billion and creates more than 500,000 direct jobs and more than 400,000 indirect jobs, primarily for European citizens. However, worldwide competition is fierce, and in order to maintain world-leadership in complex, value-added and highly specialised vessels European shipbuilders must develop tailor-made innovative concepts that are efficient to design and build. NAVAIS will develop a platform-based modular product family approach supported by the **3DEXPERIENCE®** integrated business platform. This concept will increase efficiency in vessel design and flexibility in production networks. NAVAIS will specifically focus on passenger/road ferries and multi-use workboats integrating sustainability in the design of the ships. NAVAIS will support the transfer from an engineered-to-order business model to an assemble-to-order business model, which will allow shorter process lead-times, constant quality, reduced design and production costs and better integration of the SME supply chain, thereby increasing competitiveness of the European shipbuilding industry.

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