

Realisation and Demonstration of Advanced Material Solutions for Sustainable and Efficient Ships

RAMSSES Project



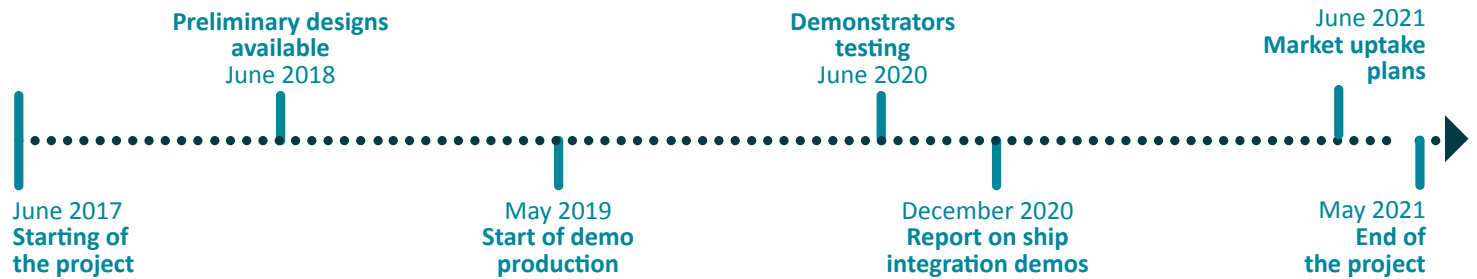
The RAMSSES project will demonstrate the benefits of advanced materials in the European maritime industry in 13 industry led and market driven demonstrator cases along the entire maritime process chain from components through equipment and ship integration to repair. Those demonstrators will either be on shore or on board.

Technical and economic impacts

- ▶ Use of new materials in real applications with high market potential
- ▶ Proof of full technical and economic feasibility using best practice
- ▶ Provide significantly lower maintenance and life cycle cost

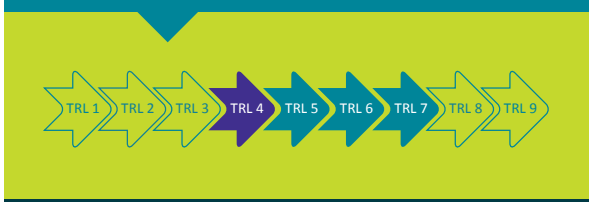
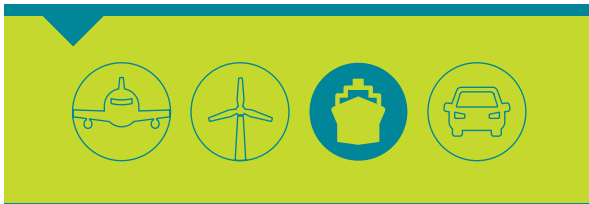
Keywords

High performance and lightweight materials // Sustainable and efficient ships // Demonstrators



INDUSTRIAL CONTEXT

New materials – be it composites or high performance metallic materials – can help making ships and maritime products lighter, more cost efficient, more environmentally friendly and safer. However, to qualify innovative materials for maritime applications, they need to cope with extreme operational scenarios and environmental conditions. Moreover, to be cost efficient they need to be integrated in multi-material ship structures as well as into complex building and global repair, retrofitting and dismantling processes.



INNOVATIVES FEATURES

- ▶ Developing, demonstrating and validating 13 specific maritime products to prepare for commercial market uptake immediately after the project
- ▶ Conducting a comprehensive assessment of technical properties, life cycle cost and environmental performance of the demonstrator cases
- ▶ Setting up a Materials Innovation Platform for information exchange and cooperation which is open to other projects
- ▶ Developing a “fast track to approval” for the application of new materials in the maritime sector

Partners

- ▶ IRT JULES VERNE AND 36 PARTNERS

Budget

- ▶ 13500,00 K€

Equipment

- ▶ Jules Verne’s multi axis test facility

INDUSTRIAL APPLICATIONS

- improving products, strengthening market position, explore new market segments and gain new customers
- ensuring market leadership in advanced technologies and engineering methods
- improving the financing conditions for innovative technologies

Sales contact

business@irt-jules-verne.fr

Press contact

communication@irt-jules-verne.fr

www.irt-jules-verne.fr



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