



# RESURGAM

Robotic Survey, Repair and Agile Manufacture



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## Robotic Survey, Repair and Agile Manufacture

**Topic:** Improved Production and Maintenance Processes in Shipyards  
**Programme:** SOCIETAL CHALLENGES – Smart, Green and Integrated Transport

**RESURGAM** project aims a decisive break-through with Friction Stir Welding (FSW) as a high integrity, low distortion, environmentally benign, welding technique to be developed in steel, in air, to facilitate the modular construction of ships across multiple yards with final assembly at one master yard and the development of the process of underwater, robotic FSW to allow repairs to be carried out on marine structures without needing to bring ships or platforms ashore to a dry dock. These fabrication and repair capabilities, backed by the secure, digital Industry 4.0 infrastructure and techniques already in widespread use in the automotive and aerospace industries, will facilitate the rapid, coordinated but distributed modular manufacture of ships and watercraft throughout Europe.



### DURATION

Start: February 1st, 2021  
End: January 31st, 2024



### PARTNERS

Coordinated by: EWF



### BUDGETS

General Budget: € 6 123 140  
EU Contribution: € 5 012 586



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