



User-centric solutions for a flexible and modular manufacturing in small and medium-sized shipyards

Overview

Mari4_YARD is an EU funded project that leverages the potential of Internet of Things (IoT), mobile and ubiquitous ICT tools, and robotics to develop user-centric solutions for flexible and modular manufacturing and thus implement a novel connected shipyard.

Objectives

To develop intuitive human-robot collaborative solutions allowing symbiotically integration of operators' skills and dexterity into flexible and reconfigurable solutions in shared workspaces.

To develop handheld and portable AR/MR tools for assisting shipyard workers.

To develop AI-assisted exoskeletons for reducing fatigue and physical stress.

To implement a portfolio of worker-centric tools assisting in the execution of the labour-intensive tasks by preserving industry-specific workers' knowledge and skills.

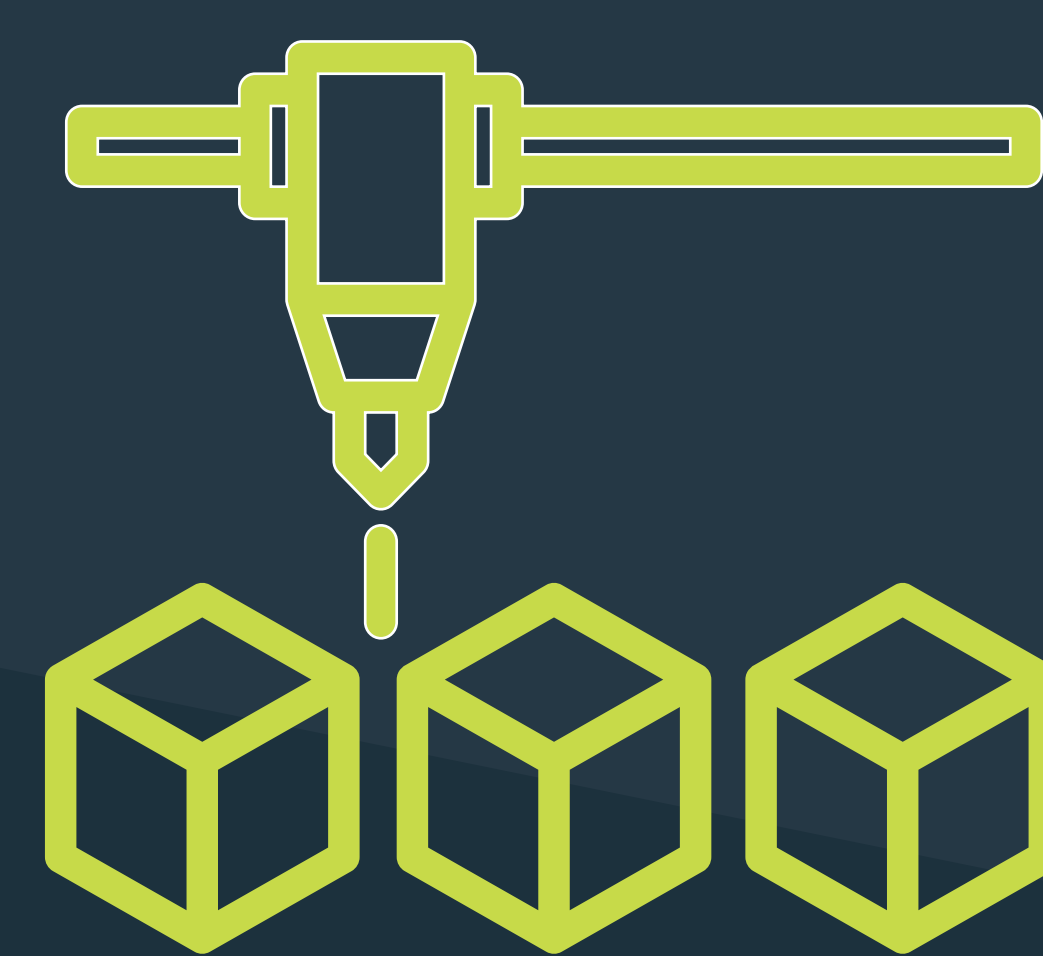
To demonstrate Mari4_YARD approach at real-scale targeting both shipbuilding and retrofitting in SME-shipyards, fostering results exploitation and enabling EU wide manufacturing adoption.

Contacts

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Project website
www.mari4yard.eu

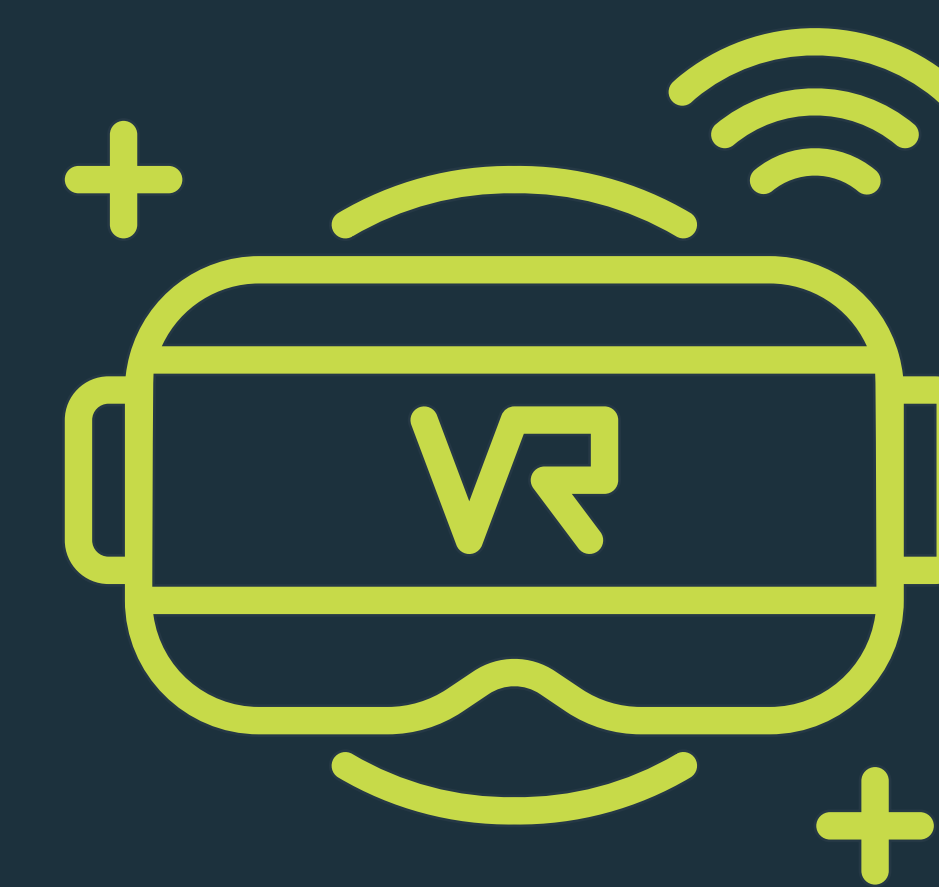
Project Pillars



Pillar #01
Digital solutions for 3D modelling supporting retrofitting/repairing of vessels.



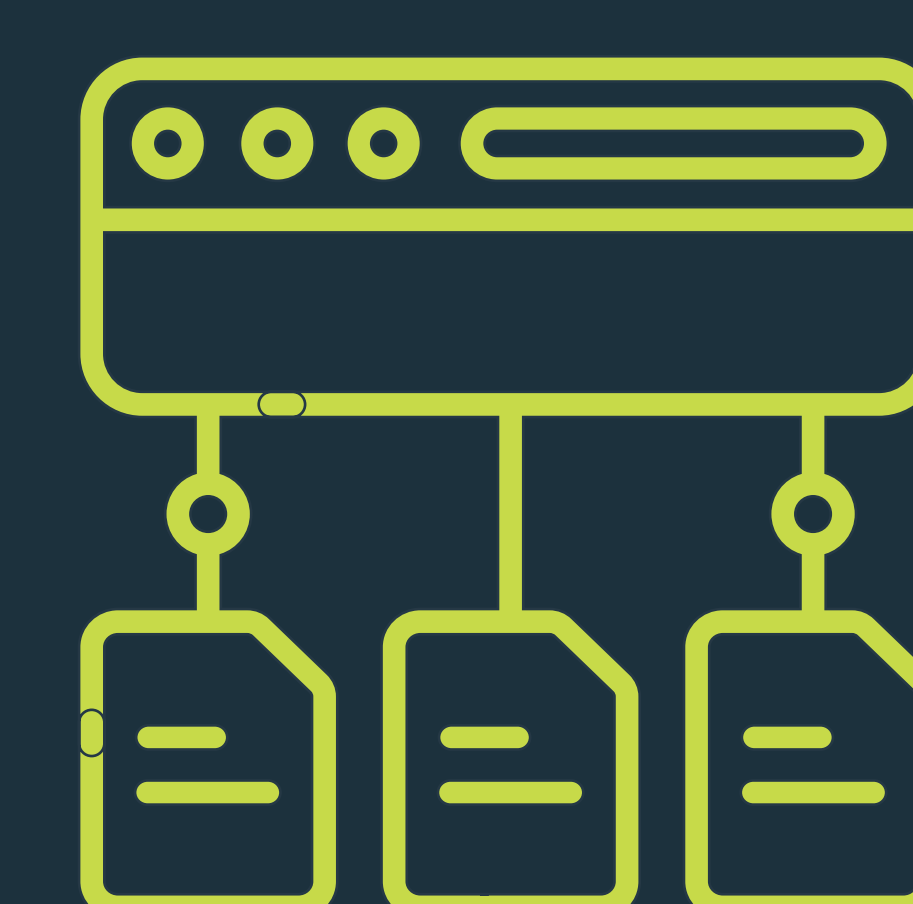
Pillar #02
Safe robot-based solutions for shared workspace shipyard workers.



Pillar #03
AR/VR tools assisting in shipbuilding.

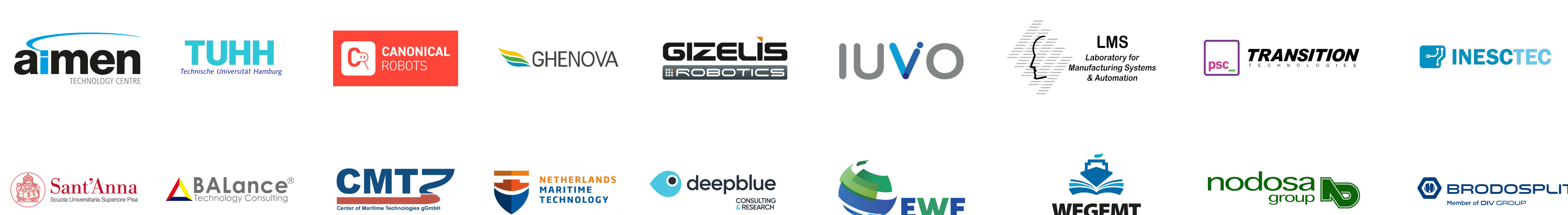


Pillar #04
AI-enhanced exoskeletons.



Pillar #05
Dataflow and data sharing for developing flexible, modular and reconfigurable solutions.

Consortium



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