

## **RESURGAM** project

Presenter's name

Company role name



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## **Project Overview**

- **Partners**
- ➤ Challenges
- > Impact
- ➤ Objectives
- ≥Q&A





### **Partners**

## Shipbuilding and maintenance stakeholders













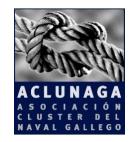






TURKISH SHIPBUILDERS' ASSOCIATION

**GISBIR** 

















## Motivation

Conventional welding requires highly skilled workers, is dangerous and low productivity



European shipyards.

Repair of ship hull damage requires very expensive manual divers or dry docking



Friction Stir Welding is mechanised, low-distortion, safer welding solution; applicable to (modular) fabrication and underwater repair

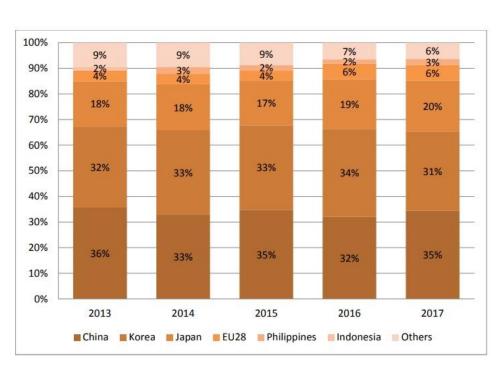




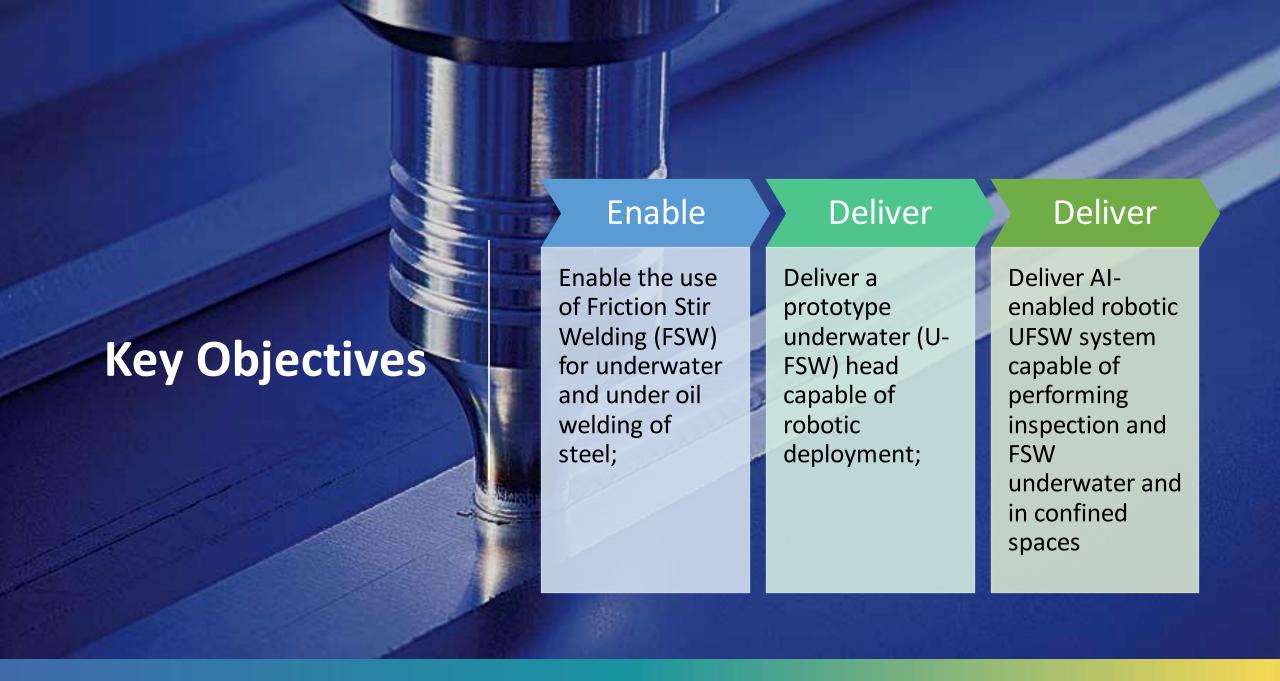


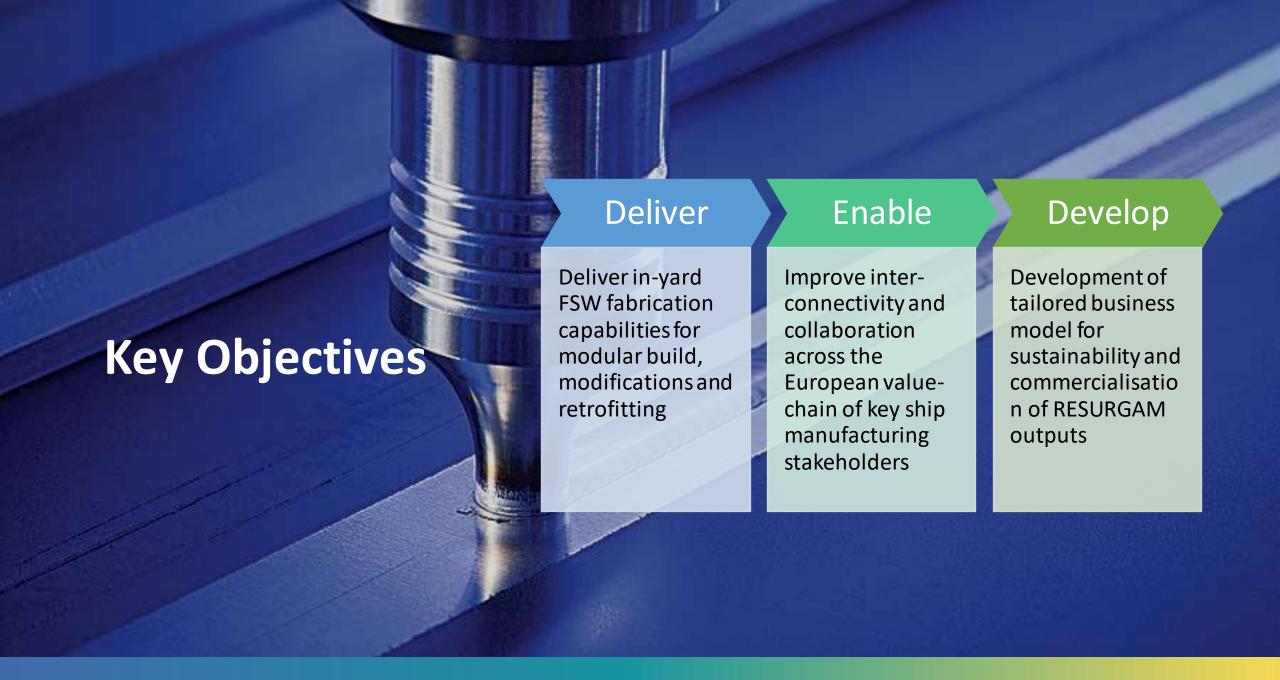
## Main challenges

- Ongoing competition from shipyards in Asia
- Limited investment capabilities from smaller European shipbuilding clusters
- > Shipyard repair processes are still:
  - **Expensive**
  - > Require highly qualified personnel
  - ➤ High-risk procedures
  - ➤ Often inefficient and time-consuming



**Source:** OECD, 2018, Market shares by shipbuilding economies





## Project Outcomes



**Technical Area** 

FSW/UFSW

Industry 4.0 & Digital Solutions

Advanced Robotics
Solutions

System Integration & Demonstration

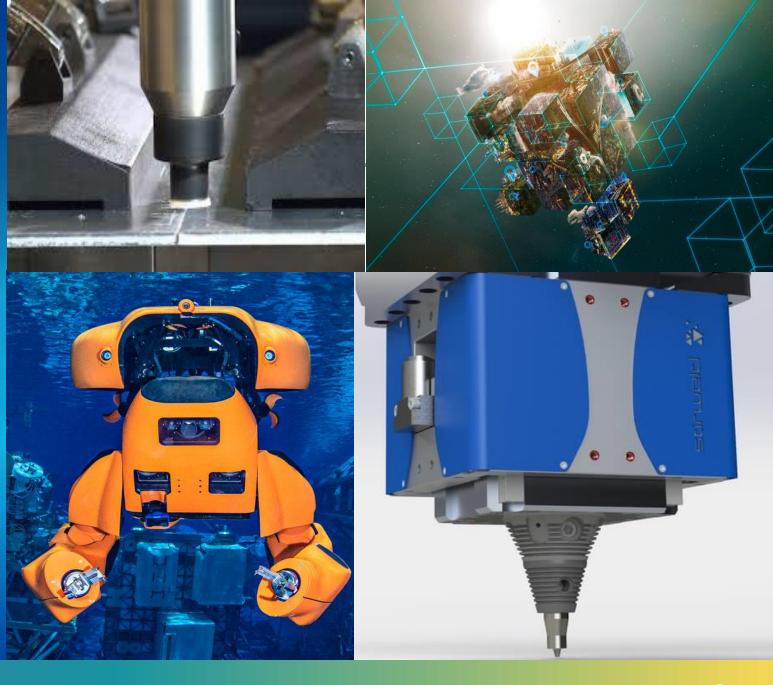
#### **Outcome**

Adapting FSW to new medium (liquid) and materials (steel)

The RESURGAM Digital Platform

New autonomous ROV

Development of new FSW head





# **Expected Impact**

Increased competitiveness of small/medium sized European shipyards and shipbuilders

Reinforcing European employment and competitiveness based on skills development for innovative production processes

Improving environmental performance of shipyards and shipbuilders



# **Expected Impact**

Support multiplication effect within Europe beyond core consortium

Gains in the modular construction and maintenance of new ships

Economic benefits of in-water/underwater maintenance to wider European ship maintenance sector

## **Innovation Associated Technologies**





### Any Questions?

Contact us at ewf@ewf.be



### Stay tuned!

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## Thank you



























