

MAJOR

Maintenance, Joining, and Repair
innovation in multidomain defence



Need

The EU has a need for advanced technologies to strengthen its security and defence capability. The MaJoR project aims to address this need by **collaborative cross-domain development of innovative technologies for maintenance, joining and repair of multi-material structures across the Air, Sea and Land domains**. This can be achieved through the **design, prototyping, testing, and qualification** of candidate technologies using unique **demonstrator platforms for each domain**.

Objectives

01

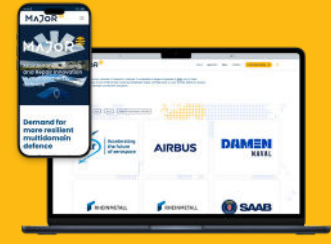
To reduce the cost, weight, lead time, vehicle signature and increase the space efficiency and vehicle availability within the air, sea, and land domains. These improvements are demonstrated on three prototype platforms (one for each domain), with variants to accommodate multiple functions and technologies (including outcomes of the Innovation Techwatch).

03

To establish an Innovation Techwatch that searches for promising related technologies among Small and Medium-sized Enterprises (SMEs) and start-ups (including those from the civil market), provide mentoring and access to funding and facilities through Cascade funding.

02

To develop enabling technologies from Technology Readiness Level (TRL) 3 to 6 and demonstrate them on each domain platform representing the relevant testing environments.



major-project.eu



Project Coordination
Marco Nawijn
Royal NLR - Netherlands Aerospace Centre

GA Number
101167891

Activities: Integrating knowledge, Studies, Design, System prototyping, Testing, Qualification



Entities
38

Nations
10



Contribution to SMEs via Cascade funding
3.2 M€



Starting date
01/09/2025



Programme
Horizon Europe, European Defence Fund (EDF)



Estimated total cost
46.8 M€

Max. EU contribution
30 M€



Duration
42 months

Project coordination and domain leads

Project coordinator



Fuselage of a UAV



Mast structure of a navy ship



Cabin of a logistic vehicle



Funded by the European Union under GA No 101167891 - MaJoR. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Defence Agency. Neither the European Union nor the granting authority can be held responsible for them.

