

## MAAXIMUS - Innovation for More Affordable Aircraft Structures

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The aim of MAAXIMUS (More Affordable Aircraft structure through eXtended, Integrated, & Mature nUmerical Sizing) is to demonstrate the fast development and right-first-time validation of a highly-optimised composite fuselage. This will be achieved through coordinated developments on

- A physical platform, to develop and validate the appropriate composite technologies for low weight fuselage structures
- A virtual structure development platform, to identify faster and validate earlier the best solutions.

The dual approach of simultaneously working on virtual and physical enablers is absolutely necessary to develop both platforms with their specific and dependent needs, and to cross-validate their respective achievements. This project constitutes a unique chance to demonstrate the efficiency of virtual structure development in the context of an innovative composite fuselage structure development.

The Consortium of 54 partners from 18 countries is made up of aircraft manufacturers, material behaviour specialists, software developers, computational mechanics experts and test centres, both from industry and Academia institutions.

The combination of such experience and know-how ensures proper capitalisation of results from past and current national and international projects.

Since 2013 a three years demonstration phase follows, containing the demonstration and validation of the technologies developed previously in the first project phase.

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