



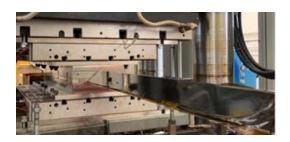
for AEROSPACE



Integrated and innovative services for Aerospace Our areas of expertise

MATERIALS
Selection
Formulation
Design and optimization

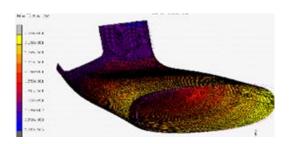




TECHNOLOGIES
Induction welding
Compression moulding
RTM

MODELING & SIMULATION

Thermo-mechanical simulation Static simulation Dynamic/impact simulation





PROTOTYPING

Component design
Prototype manufacturing
Prototype validation

CIRCULARITY

Recycled carbon fiber Composite recycling processes DFR of material and components





TESTING

NDT
Material characterisation
Full scale testing



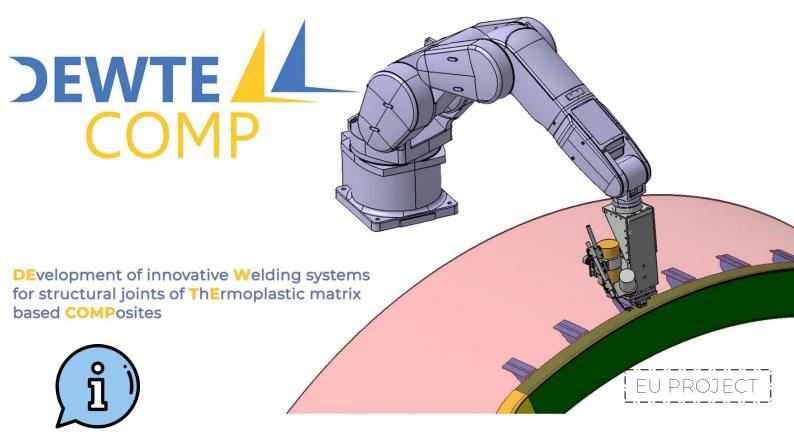
NHYTE - Horizon 2020

Green integrated aero-structures made by a new recyclable hybrid thermoplastic composite



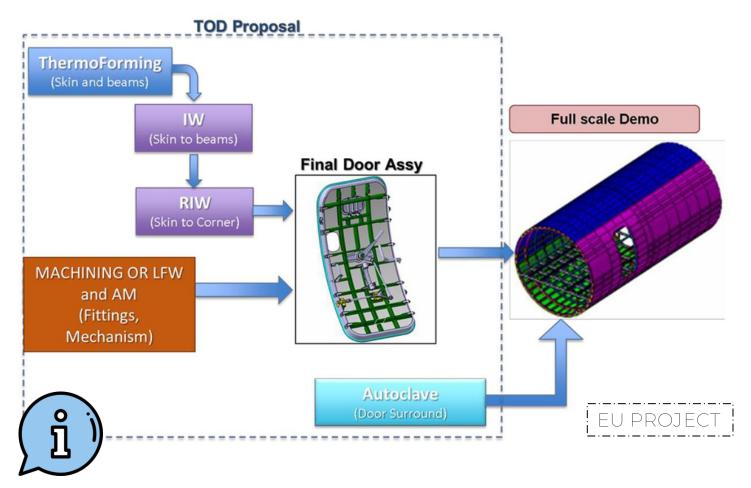
KEELBEMAN

Cost effective and high-performance manufacturing techniques to produce a thermoplastic composite Keel-beam demonstrator



DEWTECOMP Clean Sky 2

Induction welding system for a highly integrated Door Surround Structure, and stiffened panels

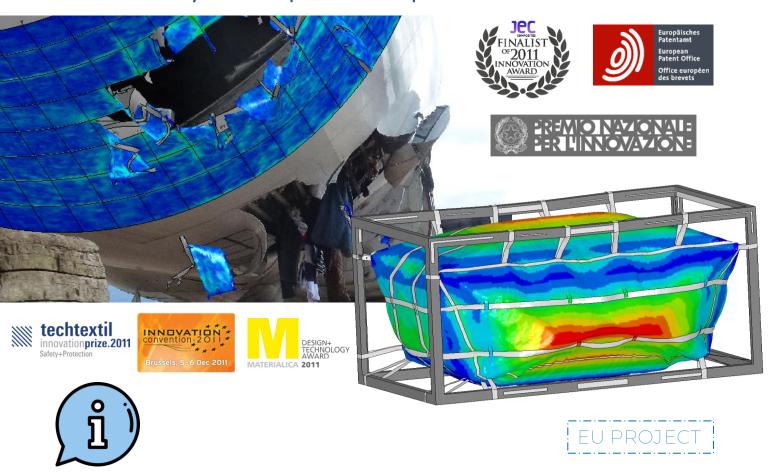


TOD Clean Sky 2 Manufacturing process of thermoplastic door components

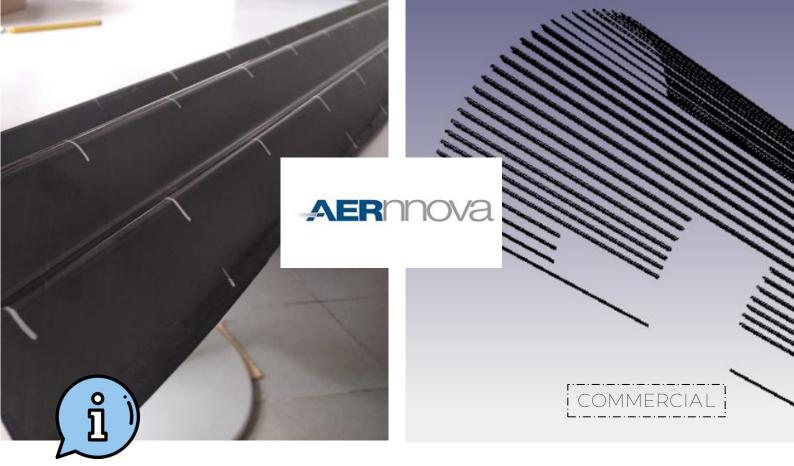


TRINITI Clean Sky 2

Design and production of an innovative pressure vessel for aircraft, manufactured by thermoplastic composite material



Flybag 1-2 projects: Composite materials characterization and numerical simulations to analyze all blast events and their effects on the structures, supporting the design of the blast resistant devices



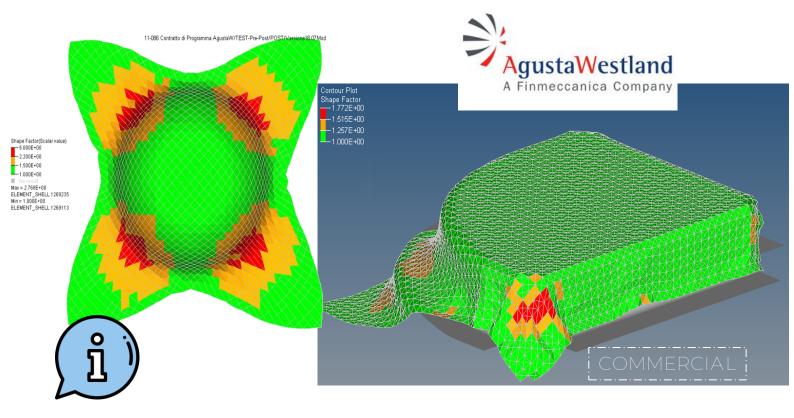
AERNNOVA

Development of Continuous Compression Molding process and manufacturing of straight stringer 8 mt long



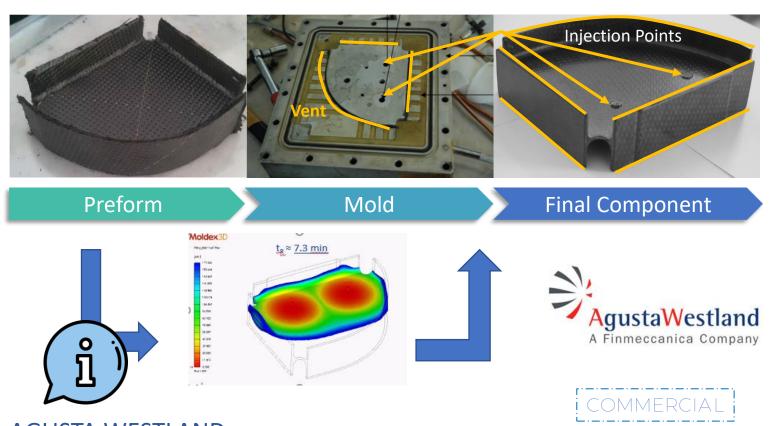
AGUSTA WESTLAND

Virtual Testing and failure analyses of helicopter cabin after impact on a rigid floor



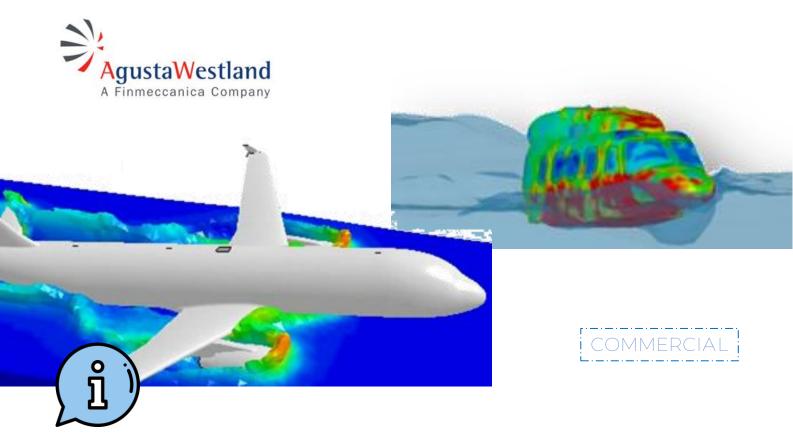
AGUSTA WESTLAND

Development of a simulation Tool for the drapability analysis of Prepregs



AGUSTA WESTLAND

RTM process for Aeronautical Composite Materials: Numerical and Experimental Approach

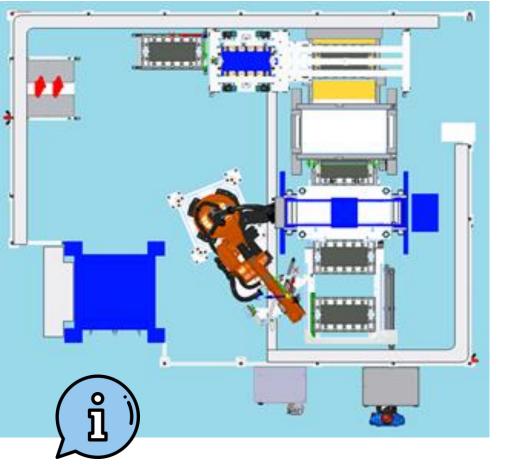


AGUSTA WESTLAND

Virtual Testing and failure analyses of aeronautical components during water landing or ditching



Development of numerical models of the cooling and solidification steps in Directional Solidified ("DS") and Equiax ("EXQ") investment casting processes





COMMERCIAL

LEONARDO AEROSTRUCTURES

Development of fully automated compression molding line

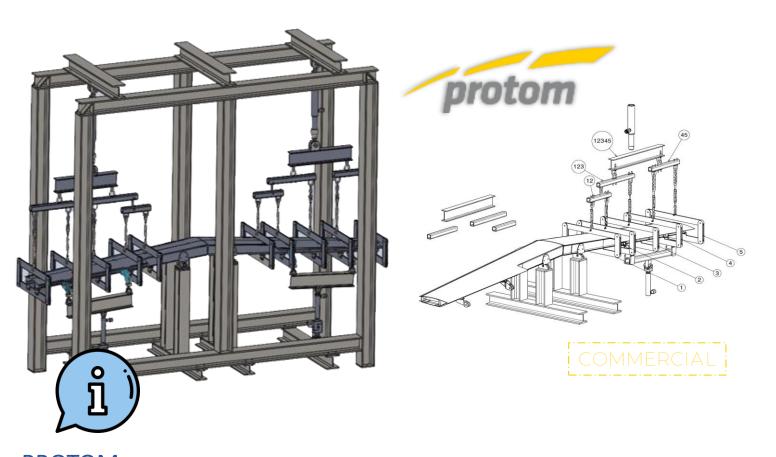




COMMERCIAL

LEONARDO AEROSTRUCTURES

Development of SQRTM process for the manufacturing of a windows frame, to be installed on a regional aircraft



PROTOM
Static load bearing test on full scale composite wings



FERMILAB - INFN
Production of CFRP parts with cyanate-ester out of autoclave resin for INFN















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