

PROJECT

## COBOMEGA

### Automation of hand lay up manufacturing process for composites stiffeners

**Funding:** European (Horizon 2020)

**Duration:** Jan 2017 - Dec 2017

**Status:** Complete

**Total project cost:** €122,058

**EU contribution:** €122,058



**Call for proposal:** H2020-CS2-CFP03-2016-01

[CORDIS RCN : 207702](#)

#### Objectives:

The objective of this project is to design and test a highly efficient automated and/or assisted process for the lay-up operation of the manufacturing of composite stiffeners, with a competitive cost advantage comparing to the current hand lay-up process.

Different process/cell architecture will be studied during the preliminary design review (as DFP, AFP, Pick and place, NCF) and consolidated by preliminary trials if necessary to select a process with the topic manager which will be developed in critical design review and tested during trials and the parts manufacturing step.

Four full scale composites parts will be manufactured and tested thanks to laboratory cell to demonstrate the maturity level of the process proposed.

A mass projection study will be realised to consolidate the prospective of the process tested and approved in serial production (production capabilities, RC/NRC)

#### Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

**Institute type:** Public institution

**Institute name:** European Commission

**Funding type:** Public (EU)

#### Lead Organisation:

**Chambre De Commerce Et D'industrie De Bayonne Pays Basque**

**Address:**

TECHNOPOLE IZARBEL  
64210 BIDART  
France

**EU Contribution:** €122,058

#### Technologies:

Composite materials  
Composite materials for structural purposes in the aircraft

**Development phase:** Research/Invention

Aircraft operations and safety  
Automated systems

**Development phase:** Research/Invention

**STRIA Roadmaps:** Vehicle design and manufacturing

**Transport mode:** Air transport

**Transport sectors:** Passenger transport, Freight transport

**Transport policies:** Other specified

**Geo-spatial type:** Other