

PROJECT

DECOROUS

Design, test, and manufacturing of robust fluidic actuators

Funding: European (Horizon 2020)

Duration: Jun 2016 - May 2019

Status: Complete

Total project cost: €388,750

EU contribution: €388,750



Call for proposal: H2020-CS2-CFP02-2015-01

[CORDIS RCN : 204211](#)

Objectives:

This project addresses the development of two-stage no-moving-parts fluidic actuator systems for use in active flow control applications. The work is based on the actuator technology created in the EC-funded Clean Sky projects DT-FA-AFC, FloCoSys, and robustAFC, but goes vastly beyond the scope of those projects, by broadening the view to include real-aircraft constraints and considerations from other-than-aerodynamics disciplines. The project will enable higher TRL experiments to thoroughly validate the concept of local active flow control by pulsed air blowing and will provide a flow control system, which fulfils real-aircraft integration requirements. Through detailed research, it will further the understanding of this flow control actuator concept. Finally, the proposed research, innovation, and development work on the two-stage fluidic actuators of this project will beneficially impact the industrialization of local active flow control by contributing substantially to making such a flow control actuators available on aircraft system level.

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:

Navasto Gmbh

Address:

REUHLINSTRASSE 10/11 AUFANG H
10553 BERLIN
Germany

EU Contribution: €388,750

Technologies:

Aircraft design and manufacturing
Electro-Mechanical Actuators (EMAs)

Development phase: Validation

STRIA Roadmaps: Vehicle design and manufacturing

Transport mode: Air transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Other specified

Geo-spatial type: Other