

concerto

Construction **O**f **N**ovel
CERTification meth**O**ds and
means of compliance for
disruptive technologies



Co-funded by
the European Union



CLEAN AVIATION

"Towards a digital framework for the certification of aircrafts, through collaborative tools and simulation processes"

About CONCERTO

CONCERTO is an EU-funded project, under the Clean Aviation Programme.

Its aim is twofold:

- to support with extensive and timely technical analysis and experimentations the elaboration of a comprehensive set of regulations, together with a preliminary description of methods of compliance applicable to the three "thrusts" of Clean Aviation,
- to assess the feasibility of a digital certification framework to support collaboration and model based certification.

Certification is expected to improve safety, while shortening time to bring new safe products to market and into service and maintaining European leadership and competitiveness.

The outputs will be easily transposable and scalable to different product lines and aircraft segments such as general aviation, rotorcraft, business jets and commercial medium-long range, affecting the complete fleet.

Within CONCERTO, there is a collaboration between the major European OEMs (Dassault Aviation being the Coordinator of the project), Research Centers, SMEs, Academia and EASA.

Project **OBJECTIVES**



Safety objectives for applicable regulations



Risk analysis of existing regulations



Inputs for future international regulations



Proof of concepts for disruptive technologies



Digital tools for the certification process



Technical specifications addressing regulatory gaps



Transversal approach for certification of disruptive technologies



30% Time to Market reduction and cost reduction of certification



Synergies with activities funded under research and innovation programmes

Project METHODOLOGY

Interfaces with
- relevant projects or partnerships
- the 3 main thrusts of Clean Aviation



Active Wing

High Voltage
Distribution

Hydrogen
Propulsion

1

2

3



Proofs of Concept

Virtual tools
to improve efficiency
of the certification process

Regulatory material

Digital
certification
framework





Expected **IMPACT**



Reduction of emissions and climate neutrality by 2050



Reduction of the development time and cost to introduce new products to the market



Creation of an ecosystem and development of synergies



Reinforcement of Europe's role as leader of worldwide certification frameworks

Our TEAM

COORDINATOR



THIRD PARTY



BENEFICIARIES



AFFILIATED ENTITY



ASSOCIATED PARTNERS



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