



## INTA joins European Project EXAELIA to reduce emissions in the Aeronautical Industry

### Key participation from the Flight Testing Area and the Flight Mechanics Area

31.01.2025. – Last week, on January 22-23, the Kick-off Meeting for the **EXAELIA** project, funded by the European Union, was held at the NLR headquarters in Amsterdam, with the participation of **INTA**. At this meeting, along with leading European aerospace research institutes such as **ONERA**, **CIRA**, **ILOT**, **DLR**, and **NLR**, the roadmap for the next three years was outlined to develop a future European transport platform that meets the emission reduction challenges of the aeronautical industry by 2050.



In the course of the **EXAELIA** project, an extensive investigation using advanced multi-disciplinary digital methods, will be conducted on the potential emissions reduction of long-range air traffic offered by promising blended wing body aircraft configurations and by hydrogen-powered tube-and-wing configurations with associated, disruptive propulsion concepts, and including their constituting radical new technologies. Critical uncertainties are identified, in particular those requiring flight validation for de-risking the future aircraft development, such as unknowns related to low-speed flight dynamics and control.

For those flight test requirements that go beyond the capabilities of existing assets, novel flying test beds are developed towards their preliminary design, efficiently combining flight test needs in potentially costly large-scale modular flying test beds. Roadmaps, but also operational and business plans, are



prepared for the further development of the **EXAELIA** flying test beds and the use of these assets in the development of the future long-range aircraft.

### About EXAELIA

**EXAELIA** is a 42-month research and innovation action funded by the European Commission under the Horizon Europe Program (GA n°101191922) with a total budget of 16 million euros, involving 23 partners. The official project launch meeting was held on January 22, 2025, at the NLR in Amsterdam.

**INTA** participates in the **EXAELIA** project thanks to the activities carried out by the Flight Testing Area, the Aeronautical Instrumentation Laboratory, and the Flight Mechanics Area.

### For more information about EXAELIA and the Kick-off Meeting, visit:

Website: [www.exaelia.eu](http://www.exaelia.eu)

Kick-off Meeting: <https://exaelia.eu/wp-content/uploads/2025/01/EXAELIA-Consortium-Press-Release.pdf>

LinkedIn: <http://www.linkedin.com/company/exaelia>

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