Di-Pegasus

Next Generation Aviation Technologies

Aviation technologies
for sustainable business models, products and services

Shaping up the future of European aviation

This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101096000

Funded by the European Union

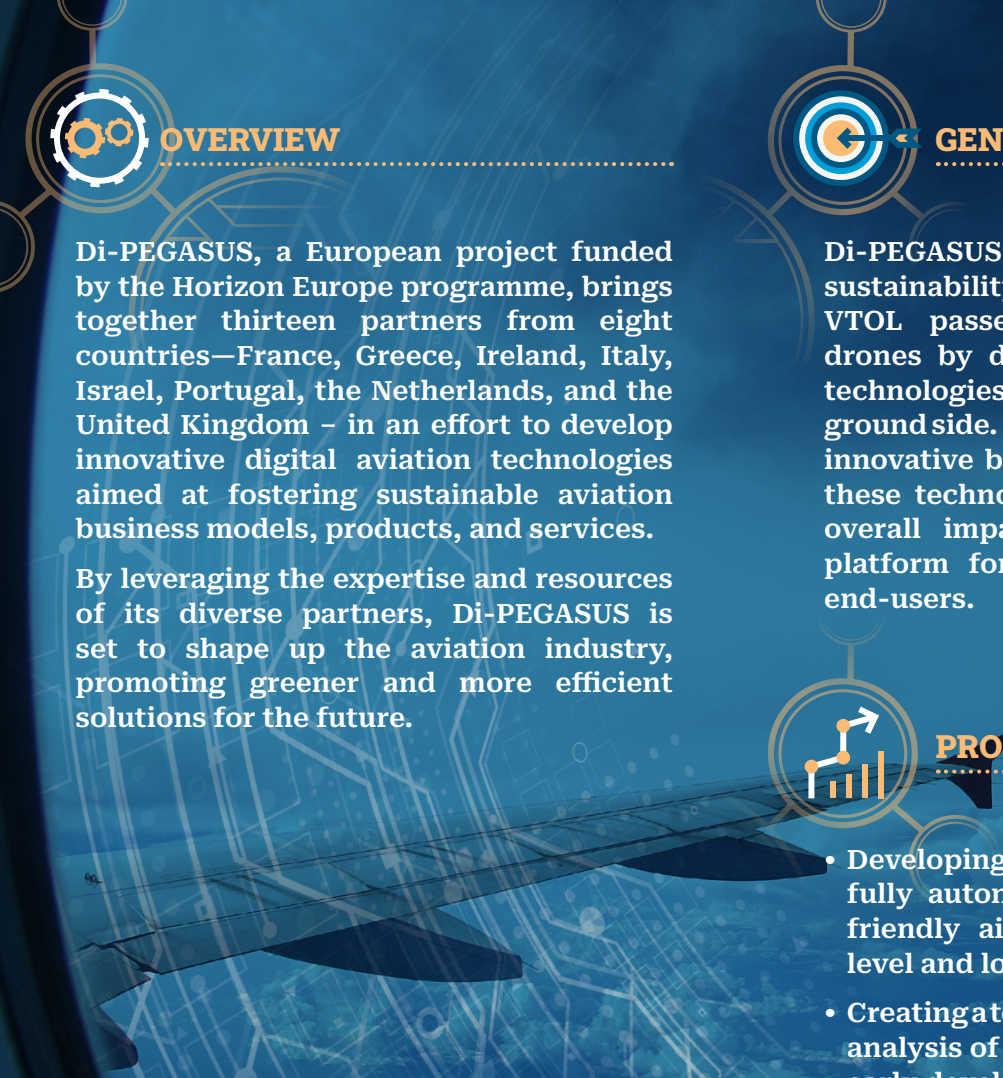
CONTACTS

EUROUSC ITALIA · UNIVERSITY OF THE AEGEAN · Collins Aerospace An RTX Business · CERTH/HIT Hellenic Institute of Transport · CERTH Centre for Research & Technology Hellas · Capgemini · deepblue · MEDITERRA HOLDINGS · SAFRAN · ITL Istituto dei Trasporti e della Logistica · RINA · Cranfield University

OVERVIEW

Di-PEGASUS, a European project funded by the Horizon Europe programme, brings together thirteen partners from eight countries—France, Greece, Ireland, Italy, Israel, Portugal, the Netherlands, and the United Kingdom – in an effort to develop innovative digital aviation technologies aimed at fostering sustainable aviation business models, products, and services.

By leveraging the expertise and resources of its diverse partners, Di-PEGASUS is set to shape up the aviation industry, promoting greener and more efficient solutions for the future.



Di-Pegasus

Next Generation Aviation Technologies

GENERAL OBJECTIVE

Di-PEGASUS aims to improve the sustainability and autonomy of seaplanes, VTOL passenger aircraft, and freight drones by developing a set of enabling technologies targeting both the air and the ground side. The project also aims to create innovative business models that leverage these technologies and to evaluate their overall impact through an assessment platform for relevant stakeholders and end-users.

PROJECT OBJECTIVES

- Developing digital technologies for fully autonomous and environmentally friendly aircraft operations at ground level and low altitude
- Creating a tool for impact and cost-benefit analysis of innovative technologies from early development stages
- Developing business models for on-demand multi-modal urban transport and flexible options like seaplanes for inter-city and inter-island connections

USE CASES

GREECE – Environmentally sustainable transport solutions at water airports in Ionian Islands

Seaplanes offer sustainable air travel with minimal infrastructure needs, but Greek networks face challenges such as complex environments, extreme weather, and high costs. The Greek Use Case aims to optimize routes, scheduling, and operations to overcome these issues and meet local demands.

ITALY - Delivery of goods through drones and swarms

The Italian case in Emilia-Romagna enhances e-commerce logistics with autonomous drone fleets, boosting efficiency and speed of urban goods delivery, especially for urgent items like medical supplies.

FRANCE - Paris Region AAM (Advanced Air Mobility) Alliance

The French pilot, part of the “Paris Region AAM” initiative, will contribute to the creation of an ecosystem around the eVTOL sector to support the development and implementation of advanced air mobility solutions.