



October 2022 – September 2026

What is our main goal?

The overarching ambition of ALBATROS is to maintain a high level of safety and resilience in aviation, considering extreme weather conditions and expected changes brought about by the evolution of aviation systems.

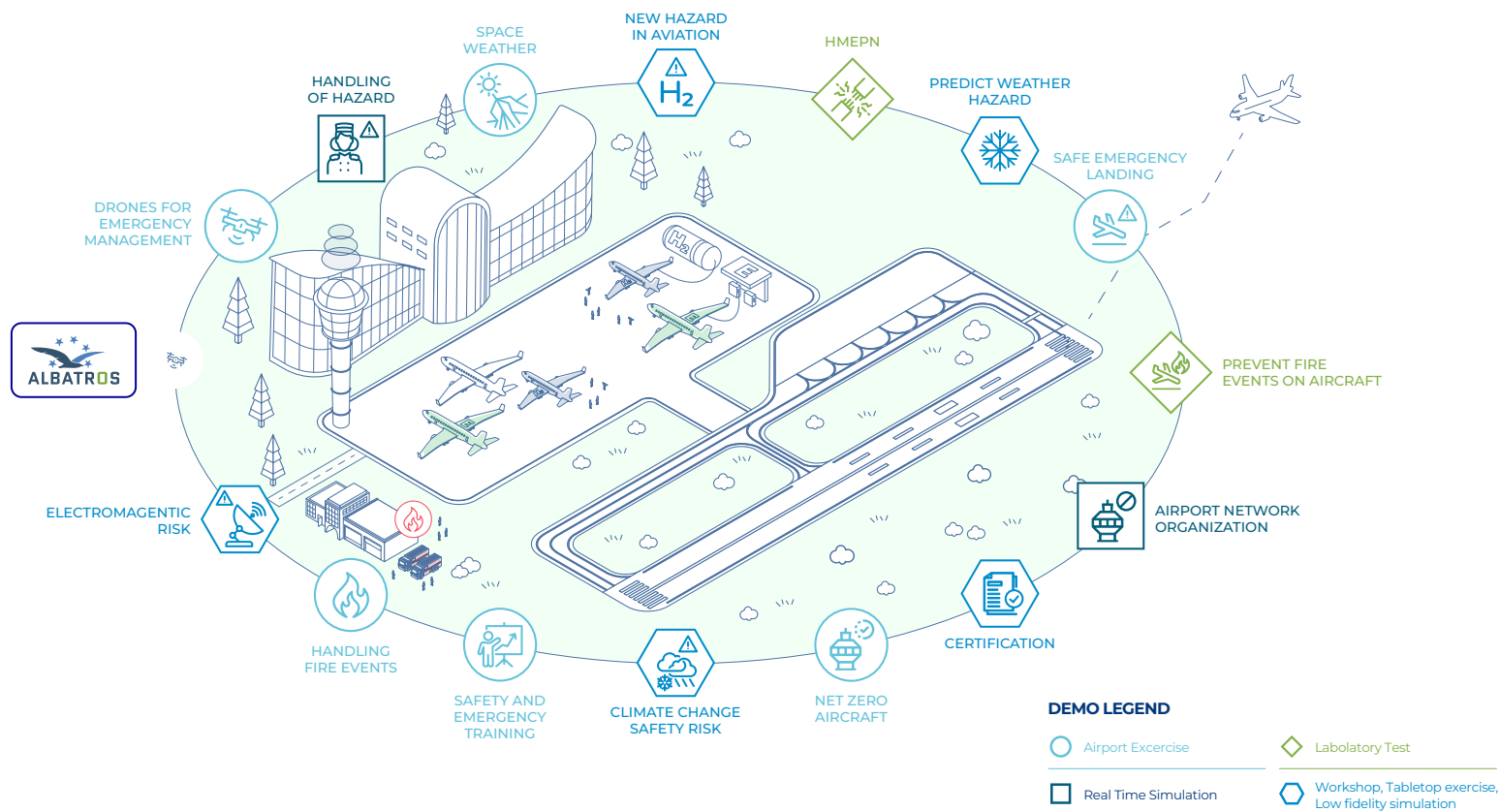
**Take a closer look at how
ALBATROS turns challenges
into innovation.**

General Objective

ALBATROS seeks to validate and demonstrate its project outcomes in relevant environments through a series of 15 exercises. Four distinct validation methodologies will be employed: workshop materials and tabletop exercises, laboratory tests, real-time simulations and airport exercises.

Validation spans European airports and climate regions, supporting ALBATROS's goal of resilient, safe aviation.

The image illustrates this validation process. To learn more, scan the QR code or visit our website.



TABLETOP EXERCISES

Demo 12

This activity explored how changing weather patterns affect airport operations and flight safety. Through data analysis, simulation techniques, and new risk assessment models, the team evaluated how meteorological variables—such as temperature extremes and heavy precipitation—can impact safety performance, supporting more resilient airport planning and risk management.

REAL-TIME SIMULATION

Demo 3

This simulation evaluated flight crew performance during emergencies involving electric and hydrogen-powered engines. Pilots tested a new cockpit display integrating key data on electric and fuel-cell systems, improving situational awareness and response in case of failures. The concept proved effective, with valuable insights for refining system information and usability.

AIRPORT EXERCISES

Demo 10

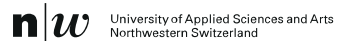
This demonstration validated training methods, tools, and procedures for managing hydrogen and electric fires at airports. Firefighters engaged in live-fire drills, drone-supported operations, and tabletop exercises, strengthening coordination, tactical awareness, and readiness for incidents involving new aviation energy sources.

LABORATORY TESTING

Demo 5

This exercise assessed a newly developed health monitoring system designed to continuously supervise the aircraft's electric power network. By identifying anomalies and tracking energy flow, the system demonstrated its potential to support predictive maintenance and enhance operational safety in electric propulsion architectures.

Consortium



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Contacts

Project Coordinator

Wouter Van Engelen

Royal NLR

wouter.van.engelen@nlr.nl

Communication Lead

Jean Baptiste Shamuana

Deep Blue s.r.l.

jeanbaptiste.shamuana@dblue.it

Media

