

### **CHALLENGES**

- Increased air traffic demand and upcoming pilot shortage.
- Keeping the cockpit workload low enough for one person to handle even the most demanding situations.
- Replacing the second pair of eyes to cross-check actions of the pilot in command.
- Detecting and mitigating a pilot incapacitation.

## **PROJECT IN NUMBERS**

4

Countries

(Czech Republic, Belgium, Germany, Slovenia)

Experienced Technology and R&D Partners

(Honeywell, DLR)

Air Traffic Management Actors

(EUROCONTROL, Slovenia Control)

1

Certification & Regulatory Agency (EASA)

**Pioneering**Electric GA OEM (Pipistrel)

# FOCUS AREAS AND THE TECHNOLOGIES WE DELIVER



Safety-critical & trustworthy Al system based on existing technology.



Extended Minimum Crew Operations and Single Pilot Operations.



Viable path towards Human-Al collaboration technology interfaces.



Early involvement of standardization and regulatory bodies.

## **OBJECTIVE**

DARWIN's ambition is to develop Al-powered digital assistants and a Human-Al collaboration framework to support both eMCO (extended Minimum Crew Operations) and SPO (Single Pilot Operations), ensuring the same or higher level of safety and the same or lower workload as today's full-crew operations.



#### CONTACT INFORMATION



www.darwinai.eu



darwin-ai-project

## **Honeywell**











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