

VISION

Developing Human-Centred AI-Based Intelligent Assistants for **safe, secure, trustworthy** and **effective Human-AI partnerships** in aviation systems



ProjectCoordinator
Deep Blue



WEBSITE
<https://haikuproject.eu/>



LINKEDIN
HAIKU EU Project



TWITTER
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CONSORTIUM

We are 15 Partners from 10 different countries, bringing together Human Factors expertise, domain's key end-users and technology suppliers of excellence



END-USERS



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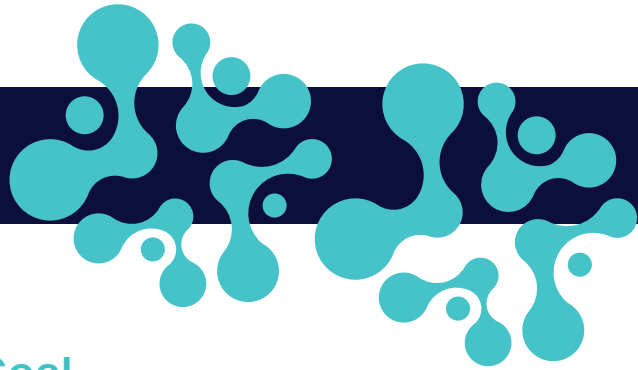
Haiku
Human AI teaming Knowledge and Understanding for aviation safety



HAIKUPROJECT.EU

A 36-month project founded by the Horizon Europe R&I Program

(September 2022 - August 2025)



What will we deliver?

Goal

HAIKU aims to pave the way for **human-centric AI** in the aviation domain.

Our challenge is to deliver truly **human-centric AI**-based Intelligent Assistant prototypes, capable of integrating human values, needs, abilities and limitations. These Intelligent Assistants will dynamically learn from human users and continuously evolve over time.

We adopt a truly human-centred approach

Our work starts from users' needs and evaluates how technology can facilitate human activity and, ultimately, improve safety.

Three key research questions are driving our work

- What is the recommended Human-AI partnership for each AI aviation application?
- What does it mean for AI to be explainable?
- How do we best train Intelligent Assistants?

INDUSTRY

- Smart Human-AI Teaming
- Explainability as a Two-Way Street
- Towards an AI-Friendly Workforce

SOCIETY

- Socially Acceptable AI
- Personalisation of AI

ASSURANCE

- Human Factors, Safety, and Security assessment Framework
- Acceptable Means of Compliance for AI
- Legal and Liability Assessment

Use Case #1 - *Led by ENAC*
Intelligent Assistant in the cockpit to assist in "startle response" adverse events

Use Case #2 - *Led by Thales*
Intelligent Assistant in the cockpit to assist in route

Use Case #3 - *Led by Linköping University and LFV*
Intelligent Assistant for Urban Air Mobility coordinator

Use Case #4 - *Led by SkyWAY*
Intelligent Assistant for tower (and remote tower) controllers to assist in routine and repetitive tasks for aircraft on approach

Use Case #5 - *Led by Engineering*
Intelligent 'Overwatch' to improve airport day-to-day

Use Case #6 - *Led by CERTH/HIT*
Airport Intelligent Assistant to monitor risk factor conditions associated with indoor spread of infectious diseases