VISION

HAIKU envisions developing Human-Centred AI-Based Intelligent Assistants for safe, secure, trustworthy, and effective Human-AI partnerships in aviation systems.

GOAL

Anchored in a truly human-centric approach, our goal is to pave the way for AI integration in aviation, crafting Intelligent Assistant prototypes that embody human values and dynamically evolve based on user interactions.

APPROACH

Starting from users' needs, we prioritize integrating technology to enhance human activities, ultimately improving safety within aviation operations.

WORK AREAS

- Human AI partnership
- Explainability
- Future aviation workforce & skills
- Safety culture
- Societal acceptance of AI
- Acceptable Means of Compliance for AI
- SHS-L assessment framework: Safety, HP, Security and Liability

FOLLOW US

WEBSITE
https://haikuproject.eu/

LINKEDIN
HAIKU EU Project

X
@HAIKUproject_EU

Scan for our website

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

London Luton Airport

TUI GROUP

Funded by the European Union

This project has received funding by the European Union's Horizon Europeresearch and innovation programme HORIZON-CL5-2021-D6-01-13 under Grand Agreement no 101075332

Haiku

Human AI teaming Knowledge and Understanding for aviation safety

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

(September 2022 - August 2025)

USE CASES

COCKPIT

Led by ENAC

Intelligent Assistant in the cockpit to assist in 'startle response' adverse events

"How can we use AI to support pilots in effectively handling startling and surprising events in the cockpit?"

FOCUS assistant: Flight Operational Companion for Unexpected Situations

Scan for explanatory video

Scan for demo video

UATM

Led by Linköping University and LFV

Digital Intelligent Assistant for Urban Air Mobility coordinator to assist in traffic management

"How can a digital assistant (DUC) support human UAM Coordinators in routine tasks and contingencies, opening city skies for a multitude of co-existing and sometimes conflicting drone services?"

DUC assistant: Digital assistant for UAM Coordinator

Scan for explanatory video

Scan for demo video

AIRPORT

Led by Engineering

Intelligent Assistant to improve airport safety through data analysis

"How can we leverage historical data to generate actionable and predictive safety intelligence for improving the day-to-day operations and safety performance in Luton London Airport?"

ASW assistant: Airport Safety Watch

Scan for explanatory video

Scan for demo video

COCKPIT

Led by Thales and Embraer

Intelligent Assistant in the cockpit to assist in route planning/replanning

"How can we enhance Pilot-Intelligent Assistant collaboration by using higher level interaction language based on operational intentions?"

COMBI assistant: Enhanced BIdirectional COMmunication for cockpit operations

Scan for explanatory video

ATM

Led by SkyWAY

Intelligent Assistant for tower (and remote tower) controllers to assist in routine and repetitive tasks for aircraft on approach

"How can AI enhance Air Traffic Controllers' decision-making process and optimise runway utilisation in single-runway airports?"

ISA assistant: Intelligent Sequence Assistant

Scan for explanatory video

AIRPORT

Led by CERTH/HIT

Airport Intelligent Assistant to monitor risk factor conditions associated with indoor spread of infectious diseases

"How can we empower passengers to make informed decisions about their visits to airport areas while ensuring their safety and minimising the risk of COVID infection?"

COVAID assistant: Covid Aid

Scan for explanatory video