



Haiku

Human AI teaming Knowledge and
Understanding for aviation safety

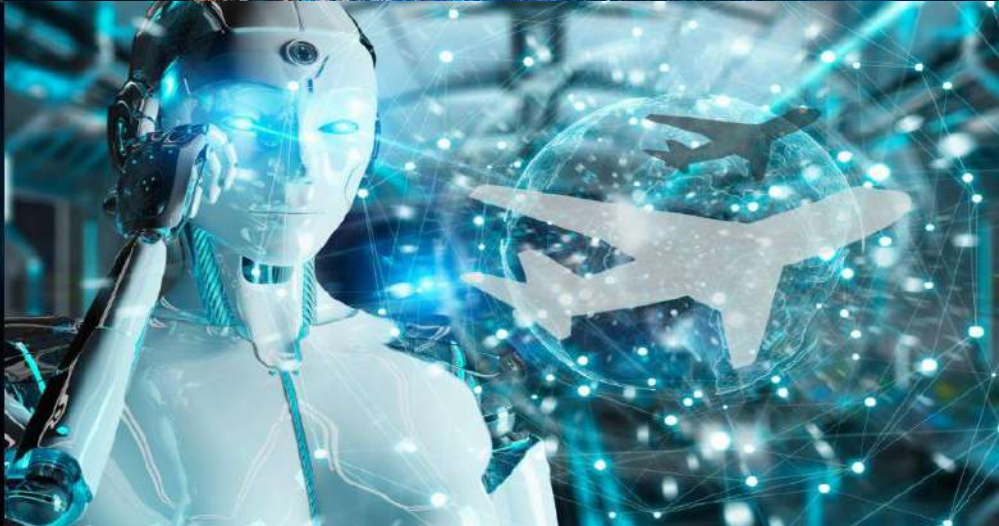
The HAIKU Project Vision & Goals

Simone Pozzi (DBL)



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

Vision of AI in aviation...



...in diverse aviation operations



Our vision

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



Key challenge: **human-centric Intelligent Assistant**, integrating **human values, needs, abilities** and **limitations**.

Our goal

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

Our challenge

is to deliver **truly human-centric Intelligent Assistant** prototypes, capable of integrating **human values, needs, abilities** and **limitations**.



Our approach

- **A truly human-centred approach**
starting from users' needs and pain points
- **Analysis of how technology changes human activity**
doing the same job with a digital assistant is not “doing the same job”
- **The Swiss knife of intelligent assistants**
different assistants for different tasks

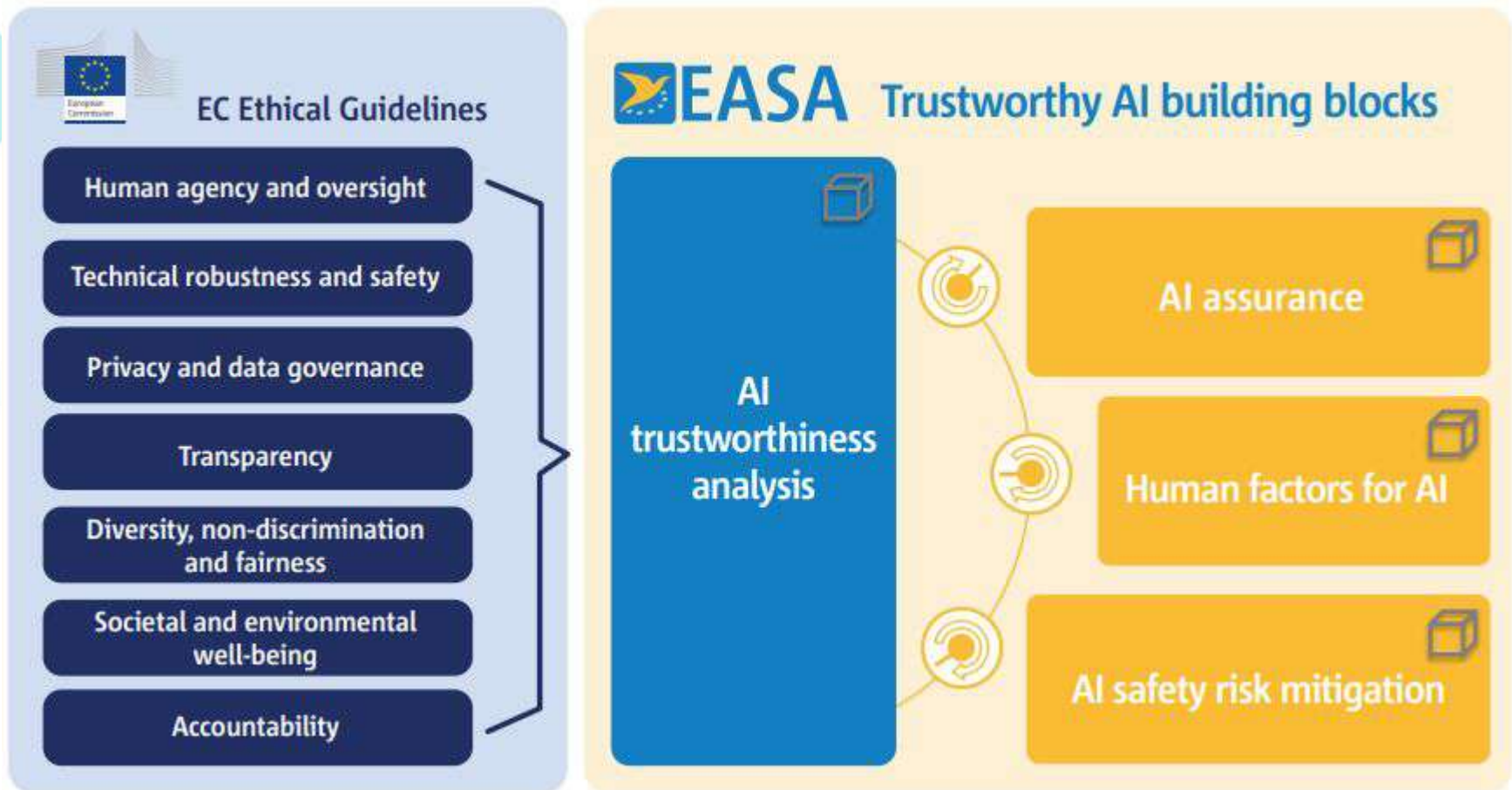


A truly human-centred approach



A truly human-centred approach

EASA “characterisation of the AI application”



Balance of competencies

Horizon Europe R&I Program (September 2022 - August 2025)

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



ADVISOR



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The HAIKU Swiss knife: 6 use cases



USE CASE #1

Intelligent Assistant in the cockpit to assist in “**startle response**” adverse events

Led by ENAC



USE CASE #3

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

Lead by LiU & LFV



USE CASE #5

Intelligent ‘Overwatch’ to improve **airport day-to-day safety** through dynamic **data analysis**

Lead by Engineering



USE CASE #2

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

Lead by Thales



USE CASE #4

Intelligent Assistant for **tower controllers** to assist in **routine and repetitive tasks for aircraft on approach**

Lead by SkyWAY



USE CASE #6

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

Lead by CERTH





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Thank you!



WEBSITE

<https://haikuproject.eu/>



LINKEDIN

HAIKU EU Project



TWITTER

@HAIKUproject_EU

SIMONE POZZI

Deep Blue

CEO

simone.pozzi@dblue.it

www.dblue.it