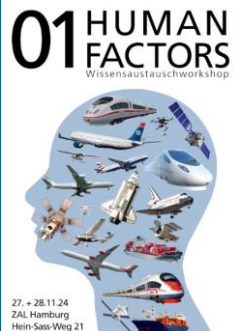


LOKI – USER-CENTRED DEVELOPEMENT OF HUMAN-AI TEAMING IN AIR TRAFFIC CONTROL

Carmen Bruder, Dirk Schulze Kissing, Sabine Theis, Thomas Stefani,
Robert Hunger und Mohsan Jameel



DLR project LOKI



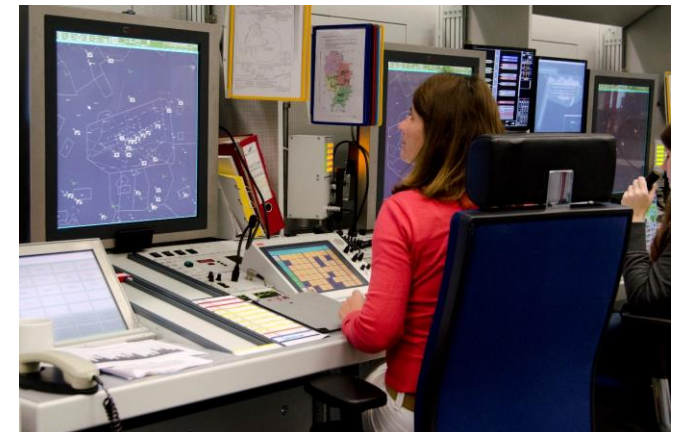
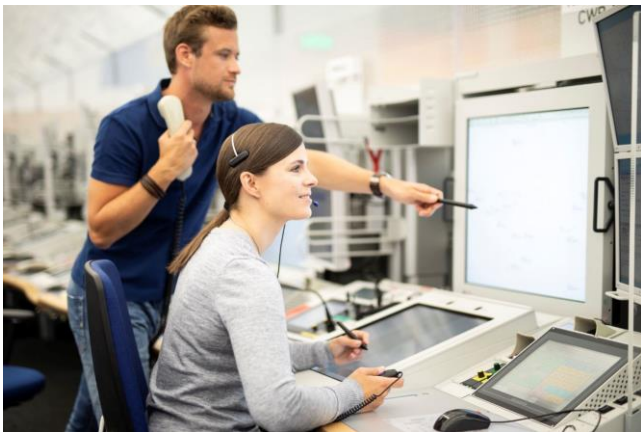
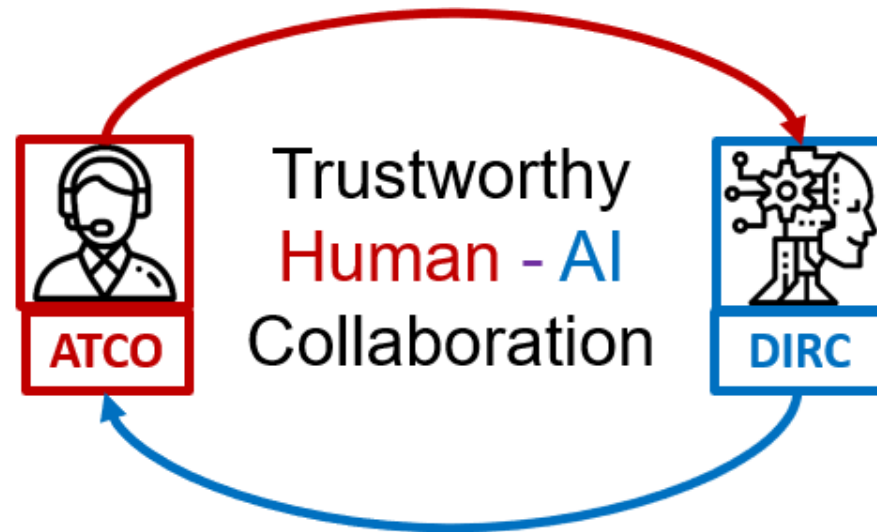
In the DLR project LOKI we develop

- guidelines, prototypes and findings for the
- collaboration between aviation operators and AI systems
- together with users and
- thus lay the foundations for future developments
- trustworthy AI systems
- at DLR and for the aviation industry.

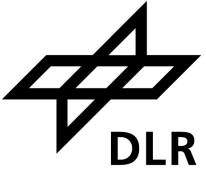
-> LOKI from April 2022 to March 2026



LOKI – Human-AI teaming in air traffic control



LOKI – bringing perspectives together



Pooling competencies@DLR

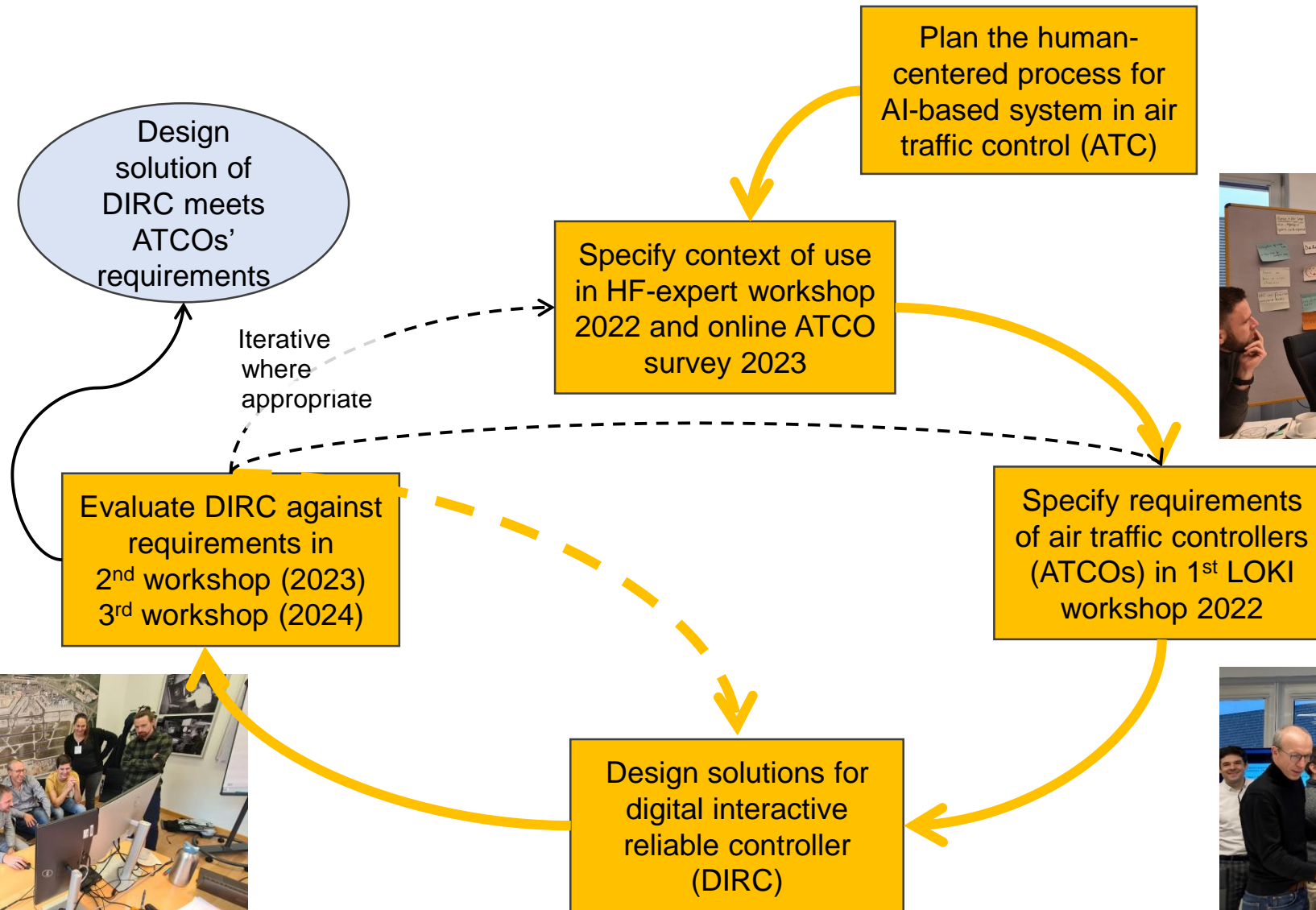
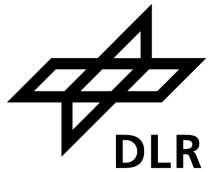
- Luft- und Raumfahrtpsychologie (ME)
- Flugführung (FL)
- KI-Sicherheit (KI)
- Softwaresysteme (SC)
- Datenwissenschaften (DW)
- Luftverkehrsökonomie (LV)



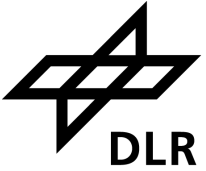
Cooperation with partners:

- DFS Research & Invention
- Austro Control GmbH
- EASA AI Group
- Bund Deutscher Luftverkehrswirtschaft
- IFATCA AI Group
- Uni Lübeck (Ingenieurpsychologie)

LOKI user-centred development (ISO 9241-210)



Further steps in LOKI

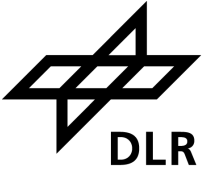


- online ATCO survey on user requirements for AI in ATC
- validation study with ATCOs in autumn 2025
- final workshop in winter 2025

- LOKI symposium in spring 2026



Impressum



Title: LOKI – User-centred development of human-AI teaming in air traffic control
Date: 27. September 2024
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Institute: ME – Aviation and Space Psychology
Bildcredits: DLR

