

Save the Date
1st SafeTRANS Forum, 17th June 2025
in cooperation with

DLR Institute of Systems Engineering for Future Mobility

In an increasingly digitalized and interconnected world, systems are growing in complexity, longevity and level of automation, up to autonomy. Yet, these systems are supposed to assist and support humans and to adhere to their needs. They consequently have to be usable, safe and effective. This requires a fundamentally human-centered perspective not only when designing these systems, but also covering their whole lifecycle from conceptualization and development to deployment, operation and decommissioning.

Lifecycle-spanning human-centered systems engineering addresses critical challenges such as evolving user needs, organizational change, technological advance and obsolescence, and ethical accountability. It fosters resilient, inclusive, and adaptable solutions which function technically and support the real-world contexts in which they are embedded. As systems become more autonomous and integrated into everyday life, considering the human element at every stage is no longer optional—it becomes essential.

With this workshop, SafeTRANS is inviting its community from industry and academia to discuss open issues, current trends in research, and needs for research and envelopment in lifecycle-spanning human-centered systems engineering. Centered around four research topics “Integration of human factors into the Engineering Process”, “Safety Assessment with Humans-in-the-Loop”, “Human-System-Interaction and –Integration” and “AI support for Human Centered Engineering”, we will identify the state-of-the-art, open gaps, needs for further research, and opportunities for collaboration.

The SafeTRANS Forum is collocated with the yearly meeting of the Archimedes Consortium, a cooperation of four internationally renowned research institutes, namely

- the DLR Institute of Systems Engineering for Future Mobility (Germany)
- TNO-ESI (The Netherlands)
- SERC (USA)
- Center for Trustworthy Edge Computing Systems and Applications (TECoSA) at KTH (Sweden)

Researchers from Archimedes will join this workshop.

Save the date and join us, too, in identifying key research and development needs for systems engineering approaches where human-centered considerations are not just an addition, but a fundamental principle from conception to decommissioning.

Below you'll find a preliminary schedule for the workshop. More information will follow soon, but do not miss to save your place now under www.safetrans-de.org

- 9:00 Welcome, Introduction
- 9:15-10:30 **Block 1: Continuous, Lifecycle-spanning, Human centered Systems Engineering**
 - o 9:15-9:45: **Keynote**
 - o 9:45-10:30: **Fishbowl 1**
- 10:30-11:00: Coffee break
- 11:00-12:15 **Block 2 Safety Assessment with Humans in the**
 - o 11:00-11:30: **Keynote 2**
 - o 11:30-12:15: **Fishbowl 2**
- 12:15-13:30 Lunch
- 13:30-14:45 **Block 3 Human-System-Interaction and Human-System-Integration**
 - o 13:30-14:00 **Keynote 3**
 - o 14:00-14:45 **Fishbowl 3**
- 14:45-15:15 Coffee break
- 15:15-16:30 **Block 4: AI support for Human Centered Systems Engineering**
- 16:30-17:00 **Wrap-Up, Way forward**

Date and Venue

Date: 17TH June 2025, 9:00 to 17:00 h

Venue: DLR - Institut Systems Engineering für zukünftige Mobilität,
Grünteweg 27, 26127 Oldenburg

Webseite: www.safetrans-de.org