Korea-EU Horizon Europe Researchers Networking Forum

Soyeon Kim

Oct. 2025

Soyeon Kim
Assistant Professor in Human Factors

WMG THE UNIVERSITY OF WARWICK | Safety Autonomy Research Group

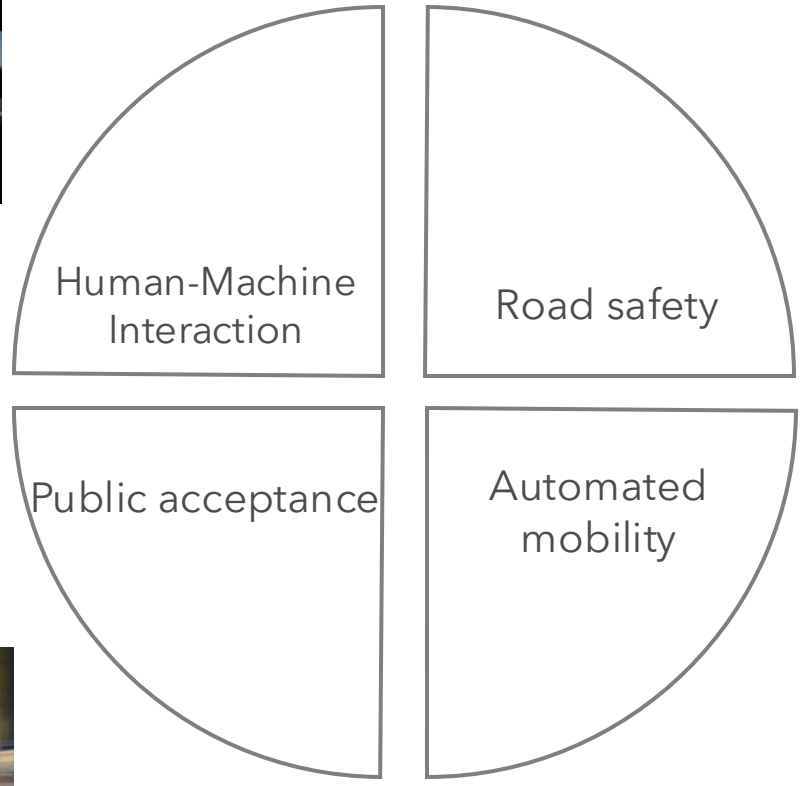
- Research scientist, Civil Engineering and Geosciences | Industrial Design and Engineering, TU Delft
- Research Engineer, UX Strategy and Development, Hyundai Motor

A **human-centred design** professional with experience in both academia and industry, specialising in **automated transportation**. Research interests include **Human-Machine Interaction**, **Human factors**, **Mobility UX**, and **Future mobility adoption**.

Horizon Europe projects:

- Hi-Drive Designing Automation: 2024 - 2025
- HADRIAN (Holistic Driver Role Integration and Automation Allocation for European Mobility Needs): 2020- 2023

Research



Safe Autonomy Research Group

Vision:

Ensure **safe** introduction of **technology** in society by **preventing all potential incidents**.

Mission:

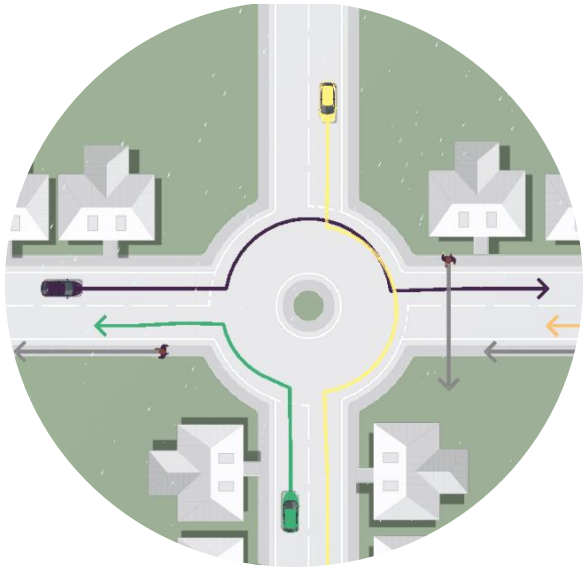
Develop **knowledge** and **methodologies** that enable industry and policymakers to demonstrate a technology's **safety for society**.

Safe Autonomy Research Group

Research Focuses

Develop evidence-based knowledge and methodologies to enhance the safety of automated transportation systems.

- **Safety assurance**
- **Test scenarios**



STPA for eVTOL

Research Focuses

Develop evidence-based knowledge and methodologies to enhance the safety of automated transportation systems.

- Safety assurance
- Test scenarios
- **Human factors**
- **Automated transportation societal impact**

Trust, Situational awareness, Comfort

Automated vehicles

Remote operation

Research Focuses

Develop evidence-based knowledge and methodologies to enhance the safety of automated transportation systems.

- Safety assurance
- Test scenarios
- **Human factors**
- **Automated transportation societal impact**

Automated vehicles as a mobility mode

PAVE UK: Public awareness and education on self-driving technology

Horizon Europe projects

- Recent projects (Last 4 years)

  - SUNRISE: Safety Assurance Framework for Connected and Automated Mobility Systems
  - i4Driving: Integrated 4D Driver Modelling Under Uncertainty
  - EVENTS: Reliable in-Vehicle perception and decision-making in complex environmental conditions
  - Synergies: Implementing the Safety Assurance Framework and certification of automated mobility technologies

- Preparation (Working on)

  - HORIZON-CL5-2025-04-D6-01: Advancing remote operations to enable the sustainable and smart mobility of people and goods based on operational and societal needs
  - HORIZON-CL5-2026-01-D6-04: Integration of human driving behaviour in the validation of CCAM systems
  - HORIZON-CL5-2026-01-D6-14: Predicting and avoiding road crashes based on Artificial Intelligence (AI) and big data

Horizon Europe projects

- Targeted calls

  - HORIZON-CL5-2027-06-D6-08: Enhancing Mobility for All: affordable, reliable, and accessible multimodal transport for inclusive rural and urban connectivity - Societal Readiness pilot
  : Explore automated transportation (i.e., autonomous shuttle) as a rural area mobility and design human-automated vehicle interaction for safety and user experience.

  - HORIZON-CL5-2026-10-D6-09: Road Safety and resilience of rural areas
  : Behaviour-based accident prevention and strategy development

  - HORIZON-CL5-2027-06-D6-04: Holistic solutions for CCAM integration in critical scenarios (CCAM Partnership)
  : Analysis of key scenarios and the roles and interrelations of stakeholders

Thank you.

Soyeon Kim

Soyeon.Kim@warwick.ac.uk

WMG
THE UNIVERSITY OF WARWICK

