

# Real-Time Systems WG

Compsys - Winter Plenary, Feb 9, 2026

# Who are we?

## Focus

Design, configuration, analysis,  
management of **systems with  
timing requirements**



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But also other non-functional requirements such as

- Safety
- Reliability
- Dependability
- Performance
- Sustainability

## Means

- Task **scheduling**
- Resource **orchestration**
- Time-sensitive **networking**
- **Operating systems**
- **Middlewares** (e.g., ROS2, ApolloRt, Kubernetes)
- ...

## Application areas

- **Automotive**
- **Robotic**
- **Manufacturing**
- **Aerospace**
- **Edge computing**
- Real-time **cloud**
- Real-time **machine-learning**
- ....

# Goals of our workgroup and our progress

- **Exchange/disseminate** (knowledge, tools, contributions, ...)

- **2026:** ASCI course on real-time systems (June 8-12): TU/e, UT, and TNO-ESI
- **2026:** Plenary workshop at TU/e to align contributions and exchange information



## **Workshop**

(Dutch real-time systems community)

- **Foster collaborations between people and communities** (e.g., between CS, EE, automation, ...)

- **2026:** Working towards a joint national or EU project proposal
- **2026:** Planning national networking workshop(s) for the members of the workgroup and other interested people

- **Identify needs and opportunities**

- **2025-2026:** Active presence in the “Special Interest Group of TNO-ESI on System Performance” and contributing to the roadmap of the group
- **2025-2026:** Outreaching to the high-tech systems industry
  - Multiple visits and scientific talks at ASML, Canon, and Philips

- **Advertise events** (conferences, special issues, workshops, ...)

- **2026:** plan to actively use the mailing list to disseminate call-for-papers, PhD defenses, and other relevant events



## **Mailing list**