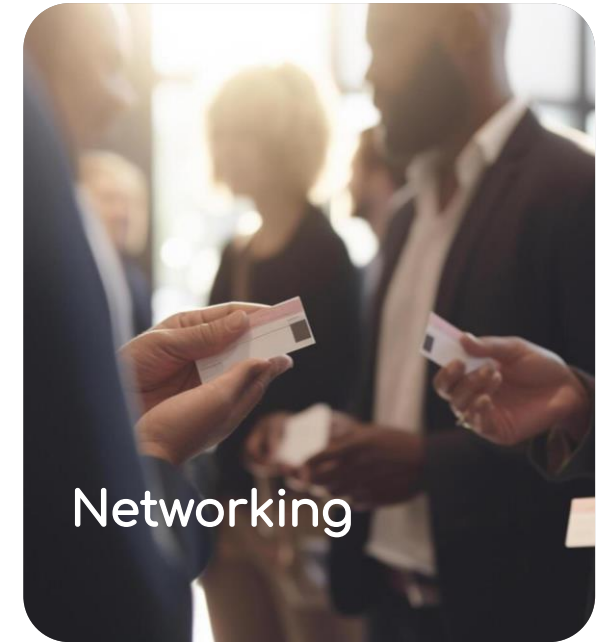


Christian Geller

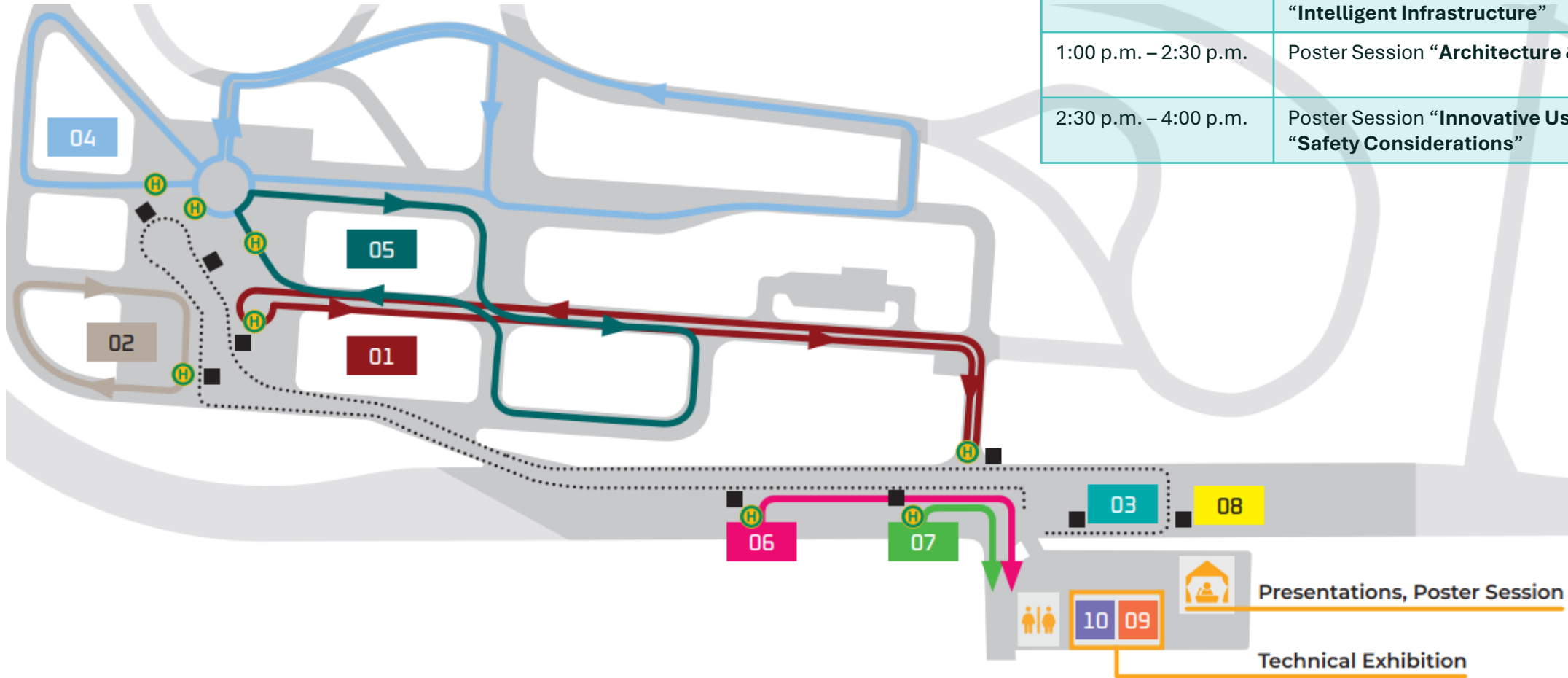
Deputy Project Manager

Research Associate at the
Institute for Automotive Engineering
at RWTH Aachen University

Program Today



Map Overview



Schedule

from 11:30 a.m.	Start of Live Demonstrations & Opening Technical Exhibition
11:30 a.m. – 1:00 p.m.	Poster Session “ Robust Vehicle Automation ” & “ Intelligent Infrastructure ”
1:00 p.m. – 2:30 p.m.	Poster Session “ Architecture & Tools ”
2:30 p.m. – 4:00 p.m.	Poster Session “ Innovative Use Cases ” & “ Safety Considerations ”

Live Demonstrations

Live Demonstrations

00
Live Digital Twin
Real-time Traffic
Representation

01
autoSHUTTLE
Barrier-Free and Inclusive
Mobility



Live Demonstrations

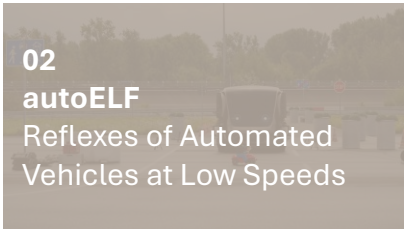
00
Live Digital Twin
Real-time Traffic
Representation



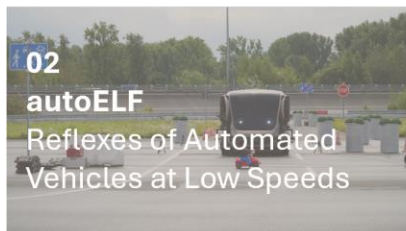
01
autoSHUTTLE
Barrier-Free and Inclusive
Mobility



02
autoELF
Reflexes of Automated
Vehicles at Low Speeds



Live Demonstrations

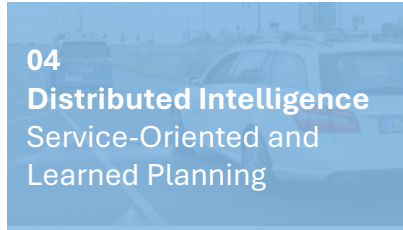


Live Demonstrations

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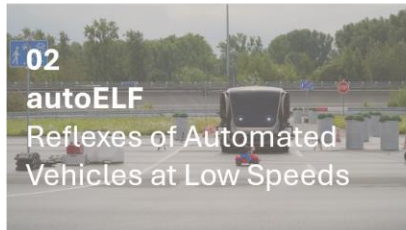
04
Distributed Intelligence
Service-Oriented and
Learned Planning



01
autoSHUTTLE
Barrier-Free and Inclusive
Mobility



02
autoELF
Reflexes of Automated
Vehicles at Low Speeds



03
autoCARGO
Efficient and Automated
Parcel Delivery



With funding from the
Federal Ministry
of Research, Technology
and Space

autotech.
agil

Live Demonstrations

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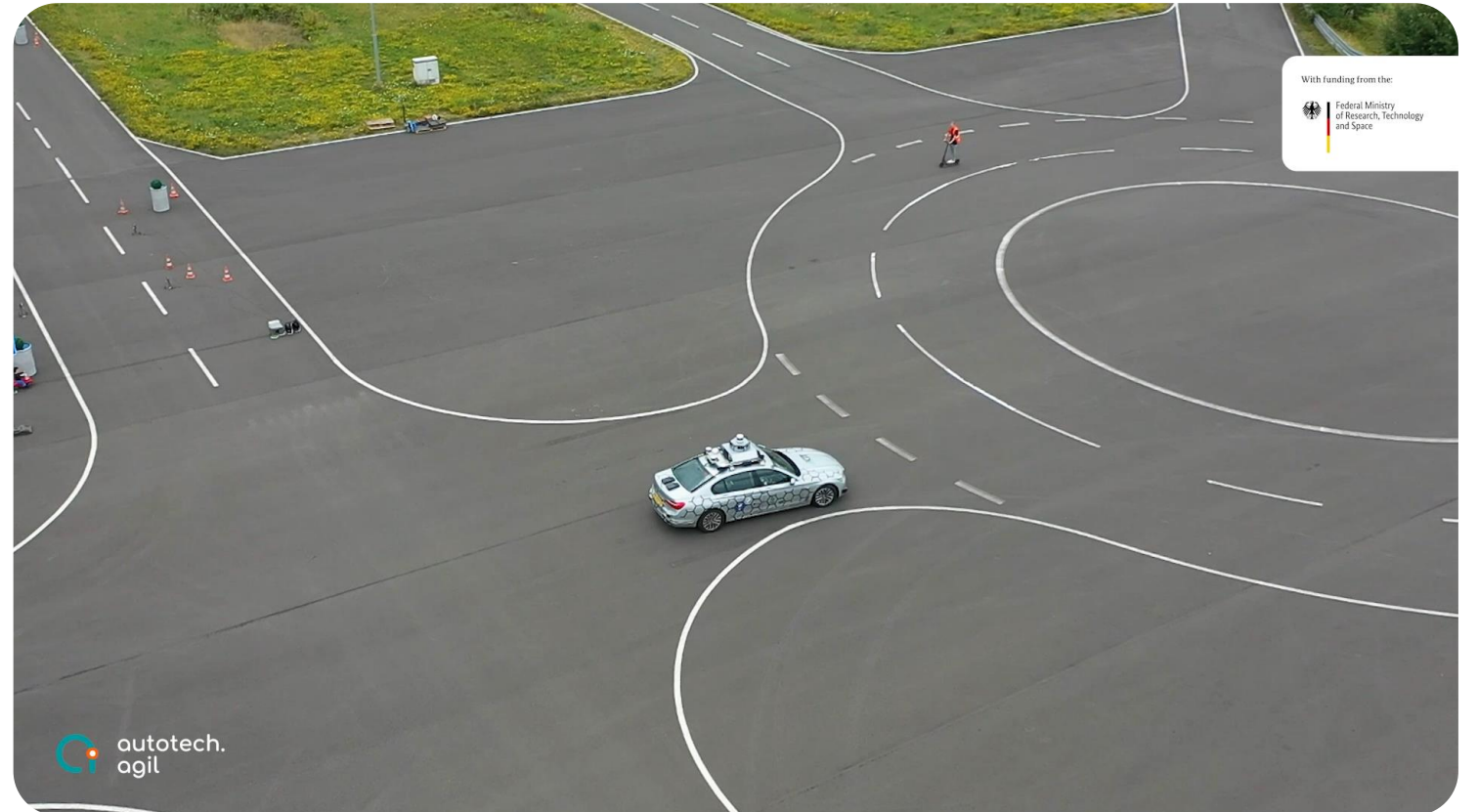
04
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Service-Oriented and
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autoSHUTTLE
Barrier-Free and Inclusive
Mobility

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Teleoperation
Remote Assistance Using
Collaborative

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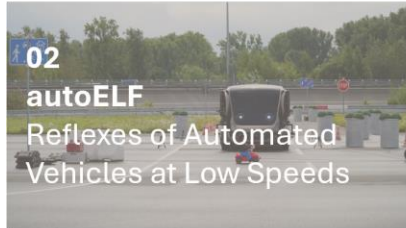
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Mobility



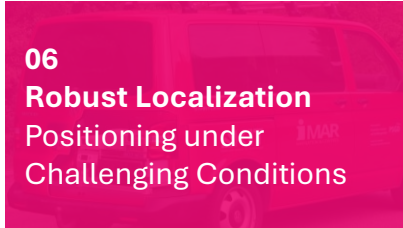
05
Teleoperation
Remote Assistance Using
Collaborative



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06
Robust Localization
Positioning under
Challenging Conditions



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autoCARGO
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07
Ecological Behavior
Sustainable Route
Planning and Control



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08
Digital Guardian Angel
Active Safety for
Pedestrians and Vehicles

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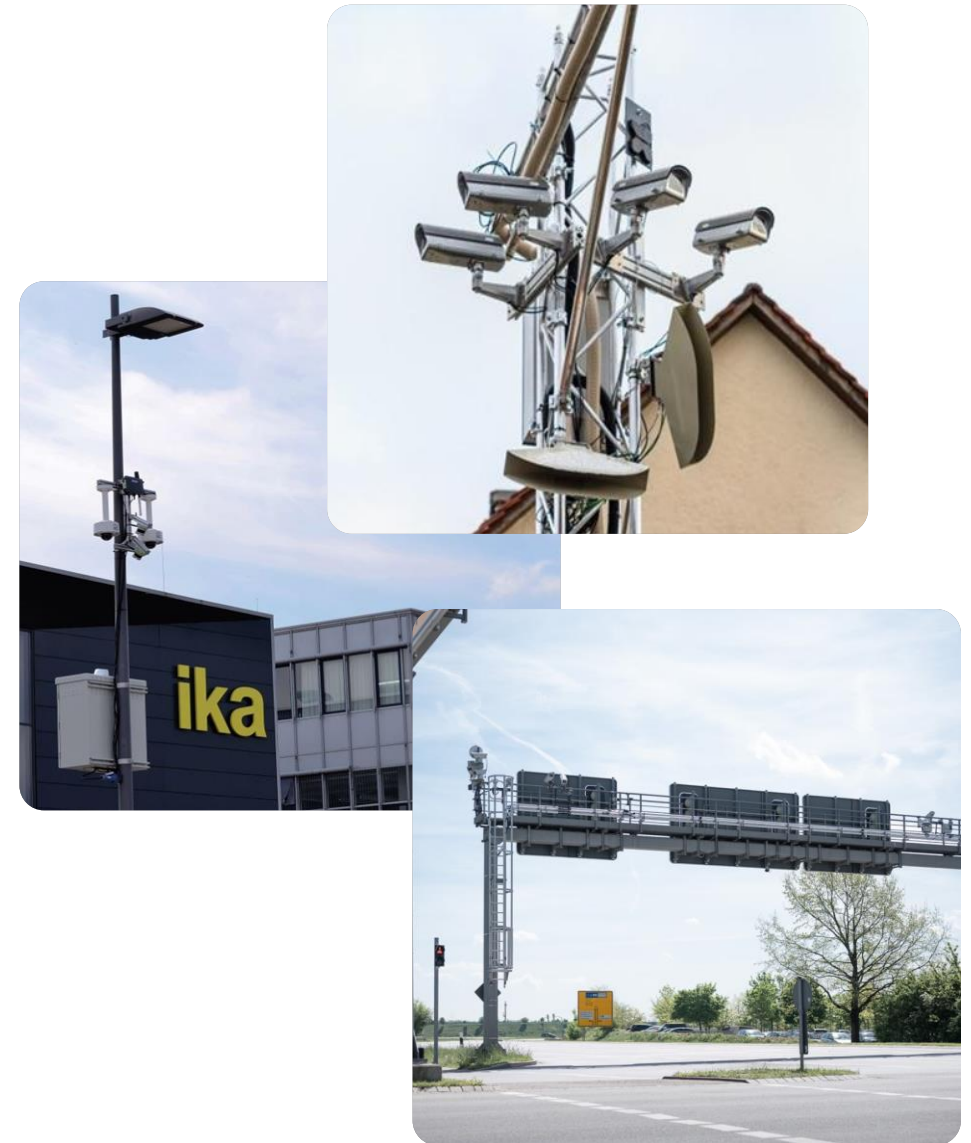
09
Intelligent Infrastructure
Digital Test Fields in
Aachen, Munich and Ulm

02
autoELF
Reflexes of Automated
Vehicles at Low Speeds

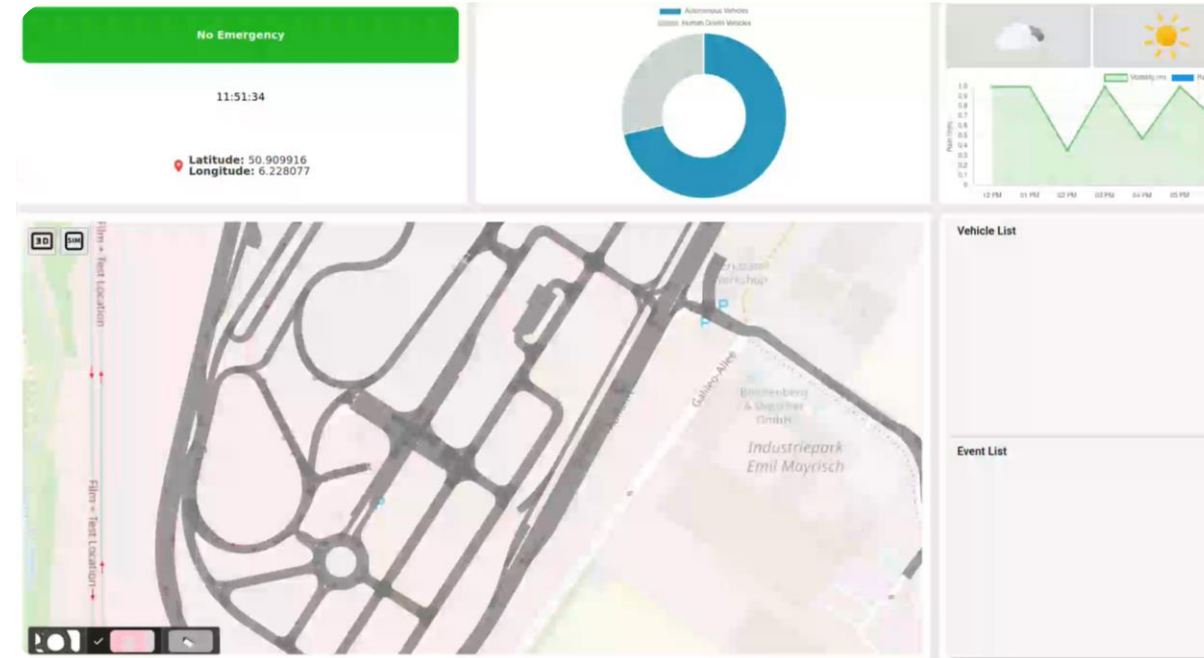
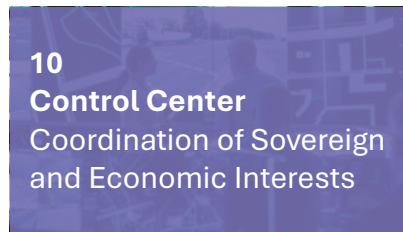
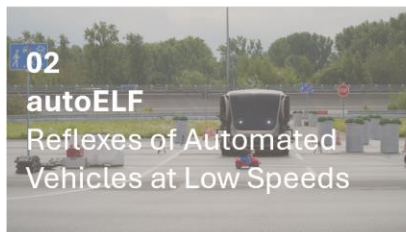
06
Robust Localization
Positioning under
Challenging Conditions

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autoCARGO
Efficient and Automated
Parcel Delivery

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Ecological Behavior
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Live Demonstrations



Live Demonstrations



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Service-Oriented and
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Digital Guardian Angel
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Pedestrians and Vehicles



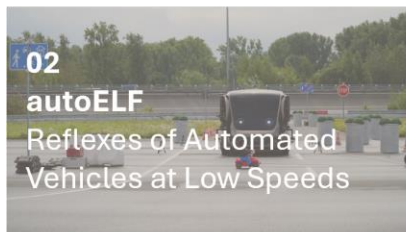
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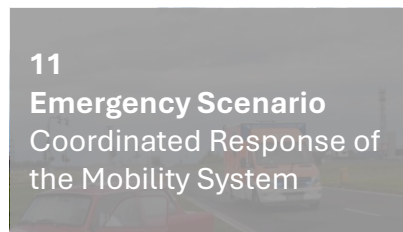
10
Control Center
Coordination of Sovereign
and Economic Interests



03
autoCARGO
Efficient and Automated
Parcel Delivery




07
Ecological Behavior
Sustainable Route
Planning and Control



11
Emergency Scenario
Coordinated Response of
the Mobility System



 autotech.
agil

Technical Exhibition

Info Bee
Mobile Sensor



Simulation-Based vECU and V2X Testing
Efficient and Scalable



Automotive Software Architectures
Degradation and Fault Diagnosis



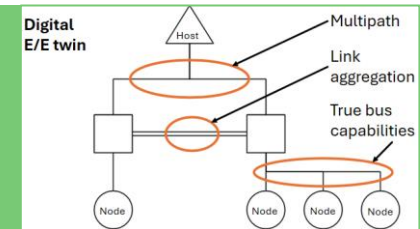
Automotive Software with ASOA
Declarative Orchestration



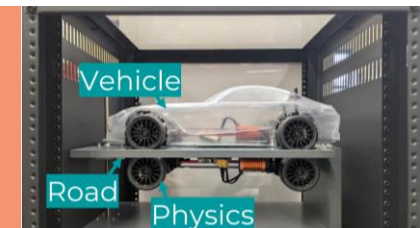
Service-Oriented Architectures
Integration and Safety Assurance Methodologies



Universal Automotive Bus
Real-time Plug & Play for E/E



Deterministic Communication
Recuperation Balancing

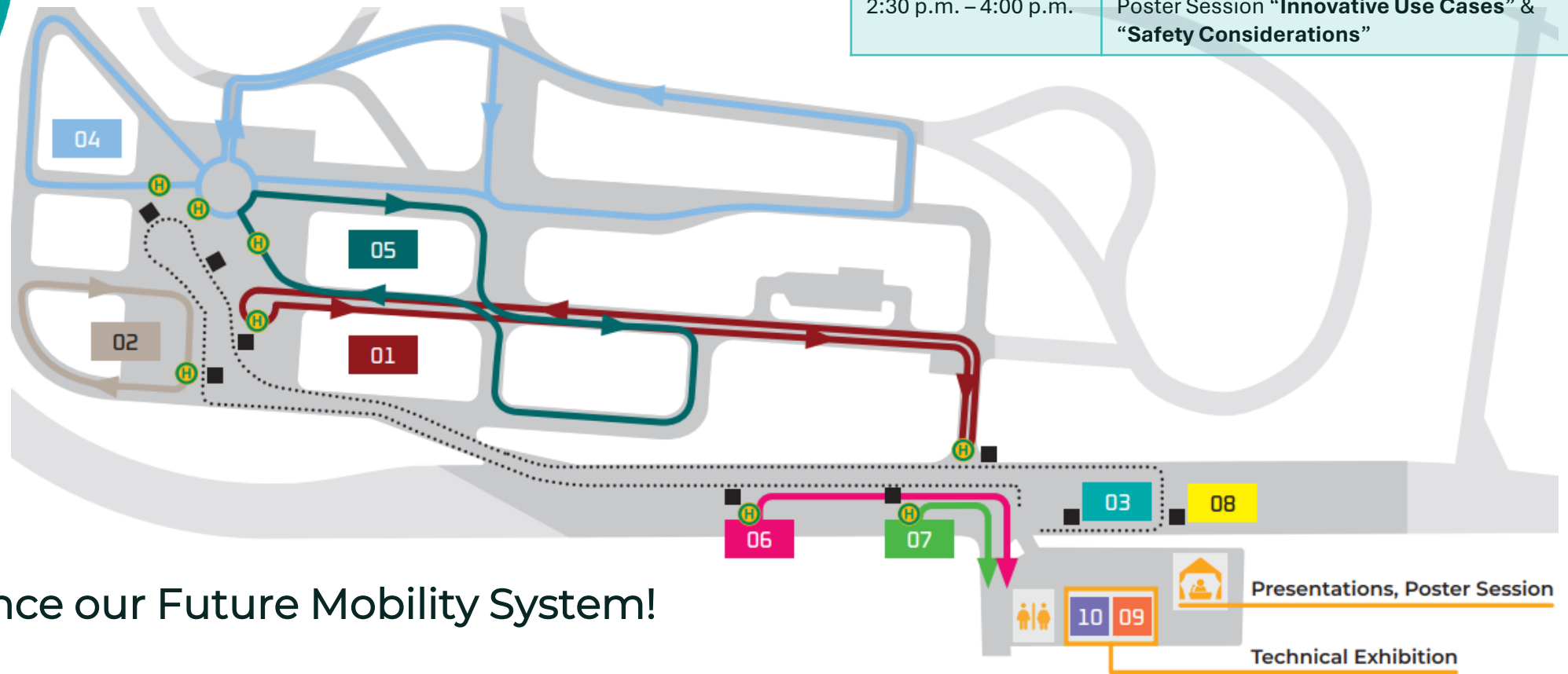


Secure Vehicle Architecture
Open, Modular and Certifiable



Let's get Started

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Experience our Future Mobility System!