A part of the validation tool chain for evaluating highly automated driving functions

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transport logistic

Past

Test report generation

ENCAP driven

Automation limited to

Test itself

Future

- Test integration across the entire
 - safety testing chain
 - Transferability of KPI's
 - Swarm test methods & PG test bench
 - Multi vendor test environment
 - Campus network with RTC quality
 - Digital Twin
 - Automated PG endurance tests



transport logistic

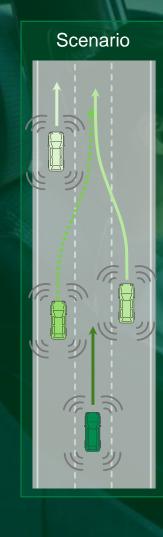


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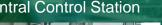
transport logistic











Mesh W-LAN or 5G Campus Network





Robotic



Targetmover







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transport logistic

Proving Ground Automation and Digitization

- Real-time simulation with online
- transmission of the dynamic trajectories
- to the swarm participants on PG
- (CarMaker as part of the control center)
- Integration of virtual objects possible (mixed reality)
- Same scenarios in simulation and on PG
- Same scenario flow control / simulation

environment





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20

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8

Vs. Mesh

5G

Campus

Network





Ø Latency of 20 ms

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transport



- 80,000m² asphalt surfaces
 - (1.6 km x 0.2 km)
- Max. 4 lanes (4-lane intersection)
- Mobile building facades
- Autonomous Driving Level 3-5
- All city scenarios
- V2X
- Crossing assistant
- Turning assistant
- Stop and go traffic

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Let's face the challenge together