A COMPREHENSIVE ROADMAP FOR LEVEL 4/5 CONNECTED AND AUTOMATED DRIVING IN EUROPE
Carolin Zachäus, Jörg Dubbert, Benjamin Wilsch, and Gereon Meyer*

ABSTRACT
The EU-funded Coordination and Support Action Safe and Connected Automation in Road Transport (SCOUT) has established a comprehensive and structured roadmap for accelerated innovation in high degree automated driving, i.e. SAE levels 4 and 5. Based on stakeholder consultations, the state of the art was determined, and a future vision for connected and automated driving was formulated for a number of use cases. To close the gap between state of the art and vision, action plans were developed, and opportunities to leapfrog hurdles were highlighted.

ROADMAPS
• Story map showing gaps between SoA and vision
• Gaps in technical, social, economic, human factors, and legal aspects covered by action plan
• Links between actions highlighted, and actions aligned on the time scale
• Problem: Outcomes lacking coherence and interlinks creating a “Gordian knot”
• Solution: Roadmaps need to be distinct for use cases, and focused on goals and milestones
• Impact: Innovation can be accelerated by agile shortcuts anticipating hurdles and roadblocks

PROJECT
Coordination and Support Action “Safe and Connected Automation in Road Transport” (SCOUT)
Partners: VDI/VDE-IT, Renault, FCA, BMW, Bosch, NXP, Telecom Italia, NEC, RWTH, Fraunhofer, CLEPA, Sernauto
Duration: July 2016 – June 2018
Funding Agency: European Commission, DG CNECT
Grant No. 713843

PUBLICATIONS