



CoEXist

Automation-Ready Framework

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C2 - How to make maximum use of technologies?
ECOMM, Uppsalla, Thursday 31 2018, 13:30 – 15:00



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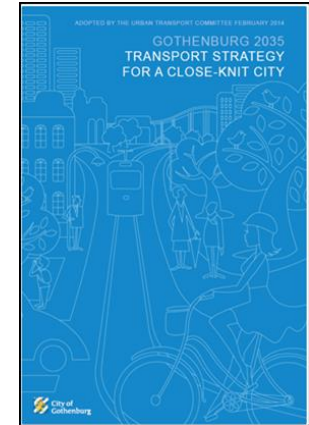


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CoEXist in brief

- **Uncertainties for EU Local Authorities**

- Current hype creates unrealistic expectations of the technology (pro-innovation bias)
- (Connected) Infrastructure requirements are not clearly formulated yet.
- Long transition phase where conventional vehicles coexist with partially and fully automated vehicles.
- Result: Automation not mentioned in strategic transport plans



- **Objective:**

- The mission of the H2020 CoEXist project is to systematically increase the capacity of local authorities and other urban mobility stakeholders to get ready for the transition towards a shared road network with increasing levels of connected and automated vehicles (CAVs)

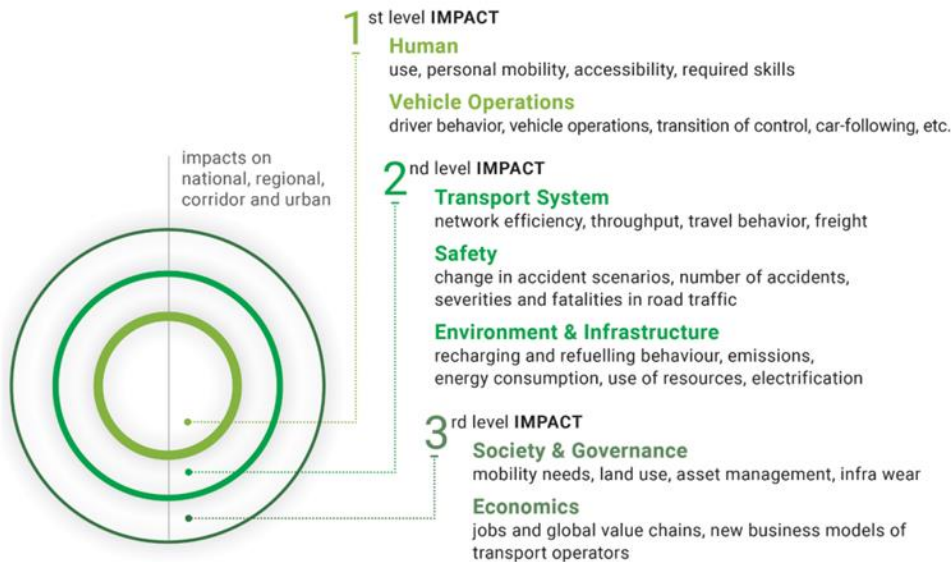
- **Automation-Ready:**

- Micro- and Macroscopic Transport Modelling
 - VISSIM and VISUM
- Hybrid Road Infrastructure
 - Automation-ready design recommendations
- Local Transport Policies
 - Automation-ready action plans



What is certain and what is not?

Uncertainties



Certainties

- Overall **mobility will increase**
- Benefits only gained from a future where:
 - Electric
 - Shared
 - Connected
 - Cooperative
 - Proactive planning

Mobility Aspect

Key measures to be taken in the next 15 years



	Automation Awareness	Planning for Automation-readiness	Automation-ready measures implementation
Policy	Policy screening: Liveability as top priority – how can CAVs contribute to it?	Reassessment of strategic mobility plans; incorporating new mobility forms	Mobility pricing for “SPAM” roaming cars
Infrastructure	Is there a conflict between people friendly vs. automation friendly?	Preparation of physical and digital infrastructure	Modifications to infrastructure and accompanying traffic code
Planning	Engagement with citizens & support testing activities and research	Update travel demand models and evaluate road capacity needs	Assessment of required land use changes based on integrated land use and transport modelling tools
Capacity Building	Try out level 1 & 2 functionalities	Identify new skill requirements – ‘less concrete more bytes’	Organisational restructuring for traffic management and public transport operations
Traffic Management	Road authorities need to engage with OEMs	Back office for data exchange in traffic management	Defining data management responsibility with new management schemes

0-5 years 5-10 years 10-15 years

Time Period



Challenge Questions

- What aspects about the deployment of CAVs are most uncertain and certain to you? How can these uncertainties be reduced?
- In which phase is your city located? Have you taken any measures?
- How does mobility management has to change with the introduction of CAVs?
- What automation-ready measures can you think of? Now, 5 years, 10 years?





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Thank you for listening

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