What is next for Cities and CAVs?

Interactive Workshop
CoEXist Final Conference
When do you expect automated vehicles to have a tangible transport impact in your city?

- 2025: 3
- 2030: 9
- 2035: 16
- 2040: 15
- 2050 or later: 9
- Never: 2

54 respondents
How do you assess the following statement?

CCAM will improve urban mobility

[Diagram showing a scale with 'Disagree' on the left and 'Agree' on the right, with a value of 0.2 in the middle]
<table>
<thead>
<tr>
<th>Aspect</th>
<th>Awareness</th>
<th>Readiness</th>
<th>Ready Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Policy</td>
<td>Policy screening: Liveability as top priority - how can CAVs contribute to it?</td>
<td>Reassessment of strategic mobility plans; incorporating new mobility forms</td>
<td>Mobility pricing for “SPAM” roaming cars</td>
</tr>
<tr>
<td>Infrastructure</td>
<td>Is there a conflict between people friendly vs. automation friendly?</td>
<td>Preparation of physical and digital infrastructure</td>
<td>Modifications to infrastructure and accompanying traffic code</td>
</tr>
<tr>
<td>Planning</td>
<td>Engagement with citizens &amp; support testing activities and research</td>
<td>Update travel demand models and evaluate road capacity needs</td>
<td>Assessment of required land use changes based on integrated land use and transport modelling tools</td>
</tr>
<tr>
<td>Capacity Building</td>
<td>Try out level 1 &amp; 2 functionalities</td>
<td>Identify new skill requirements - ‘less concrete more bytes’</td>
<td>Organisational restructuring for traffic management and public transport operations</td>
</tr>
<tr>
<td>Traffic Management</td>
<td>Road authorities need to engage with OEMs</td>
<td>Back office for data exchange in traffic management</td>
<td>Defining data management responsibility with new technologies</td>
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</tbody>
</table>
How should your city or organisation improve its automation-readiness (i.e. its capacity to make informed decisions on CCAM)?

- Critical analysis of potential and risks
- Active testing in dedicated areas
- Get involved. Dare to try new solution.
- First learn from projects like CoEXist
- Raise awareness
- By getting rid of the 4 years political cycles
- Participation in European projects
- Think about more detailed goals
- It should guide it by planning transport systems and deploying supporting policies
How should your city or organisation improve its automation-readiness (i.e. its capacity to make informed decisions on CCAM)?

- Having competent persons in key positions!
- Open test tracks
- To increase awareness of impacts.
- Speed up work on regulations
- Coordination with all stakeholders
- Learn from the Dutch
- Learn from each other
- Think first (and not just follow blindly media reports)
- Focus first on digital-readiness.
How should your city or organisation improve its automation-readiness (i.e. its capacity to make informed decisions on CCAM)?

- Stop subsidising low speed shuttles
- Scenario based analysis of potential future developments
- Embed innovation and future mobility within each department’s strategy and ensure this is high on the local government’s agenda
- Very easily access to comprehensive database of knowledge and contacts to experts
- By testing many scenarios and testing experiments in simulations taking several cities as tests
- By starting some trials in specific locations and solutions
- Having access to solid evidence
- To wake up to the issue
- Participation in projects
<table>
<thead>
<tr>
<th>Suggestion</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set up a pilot with an autonomous shuttle</td>
<td>Look not only at Level 4 and 5 but see risks and potential of Level 2 +3 and ADAS</td>
</tr>
<tr>
<td>Test and learn from previous experiments</td>
<td>Testing and open data</td>
</tr>
<tr>
<td>Increasing the understanding and knowledge for decision makers in municipality</td>
<td>Media and tech companies like to show a nice world that will not come in such way. Don't get blind!</td>
</tr>
<tr>
<td></td>
<td>I think a matter like this should be picked up at least regional or on national level. There are simply to many road authorities on a small piece of land. Knowledge would be a first step.</td>
</tr>
</tbody>
</table>
How should your city or organisation improve its automation-readiness (i.e. its capacity to make informed decisions on CCAM)?

- Take Moré scenarios todo test
- Convince promoters
- Don’t trust male enineers
- stop waiting until it is too late
- Easy conditions to invest
- Assess responses to new modes with real-life experiments (especially shared AVs and Ridepooling)
- training municipal staff on technologies, applications and impacts
- make realistic test trials - and not these artificial minibus test of 12km/h etc.
- technical speed limitation would help - very soon to realise more road safety
How should your city or organisation improve its automation-readiness (i.e. its capacity to make informed decisions on CCAM)?

- Contribute in creating a solid knowledgebase on impacts to make well-reasoned decisions
- Make automation city-ready
- Money, money money
- At first, the public transport in my city should be improved with a sustainable approach. Then, it is needed to make investments to carry out studies to determine the impact of AV on the transport system.
- Time and people
- Involve more female engineers
- We as a city do not have a lot of money
- Data standards to share information and capability
14 - How and where should automation FIRST be deployed to rip the most benefits?

Umfrage-Ergebnisse (eine Antwort erforderlich):

<table>
<thead>
<tr>
<th>Option</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>In privately owned vehicles</td>
<td>6%</td>
</tr>
<tr>
<td>Ridesharing (e.g. Uber) and vehicle sharing (e.g. car2go)</td>
<td>20%</td>
</tr>
<tr>
<td>Road-based public transport (e.g. buses, shuttles)</td>
<td>70%</td>
</tr>
<tr>
<td>None of the above / other forms (specify in question box)</td>
<td>4%</td>
</tr>
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</table>
What would help cities to make better use of potential automation benefits in meeting city objectives?

- capacity building for urban planners
- knowledge
- specify better these "potential benefits"
- Appropriate legal frameworks
- Cross sectoral working
- New spatial development policy in-line with automation
- first define detailed city objectives
- Better knowledge about benefits
- Understanding real capabilities
What would help cities to make better use of potential automation benefits in meeting city objectives?

- Evidence based information
  - Increase awareness of the potential benefits create an infrastructural environment that can provide necessary platform for use

- More knowledge on it can fit mobility goals

- Uniform framework or guidance from state/fed/national authority

- Capacity building and clear policies
  - Educating municipal staff on the basic technologies of road vehicle automation and their implications/requirements on infra

- Thin more of users’ needs

- Develop a good understanding of what the technology can be and what it cannot do.
What would help cities to make better use of potential automation benefits in meeting city objectives?

- Better understanding of the needs of both mobility providers and mobility users
- Convincing decision makers & politicians by showing quick wins
- Better understanding of impact mechanisms
- Better knowledge about CAVs
- Bold political moves
- The right policy framework and regulatory powers to steer the introduction in the right direction
- Invest on public transport technology
- Better knowledge about chances and risks of automation
- Guidance on positive and potential negative impacts of automation
What would help cities to make better use of potential automation benefits in meeting city objectives?

- Data standards to share information and services.
- Time and people
What would help cities to make better use of potential automation benefits in meeting city objectives?

1st
EU/ national legislative framework (incl. rules for CAVs in cities)

2nd
Common practices for deploying CAVs in cities (e.g. access)

3rd
Support for research and demonstration projects in cities

4th
Support for experience exchange among urban policy stakeholders

5th
other
How are you planning to involve citizens and other stakeholders in the deployment of CAV?