D5.2

CoEXist Webinars

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Table of contents

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1 CoEXist Webinars

1.1 CIVITAS webinars

Aiming to maximise dissemination and the engagement of CIVITAS members, as well as to promote cooperation, CoEXist has joined efforts with the CIVITAS SATELLITE project to reach out to stakeholders all around Europe and the world. CoEXist, in partnership with CIVITAS SATELLITE, organised three webinars targeted at transport planners from authorities and transport planning consultancies.

CoEXist's knowledge and support partners presented their research and results through the webinars, and moderated interactive discussions. The road authorities reported on their experiences in CoEXist, thus enriching the methodology. Rupprecht also provided and managed the webinar tool (GoToWebinar).

All webinars have been made available on the CoEXist YouTube channel, at:

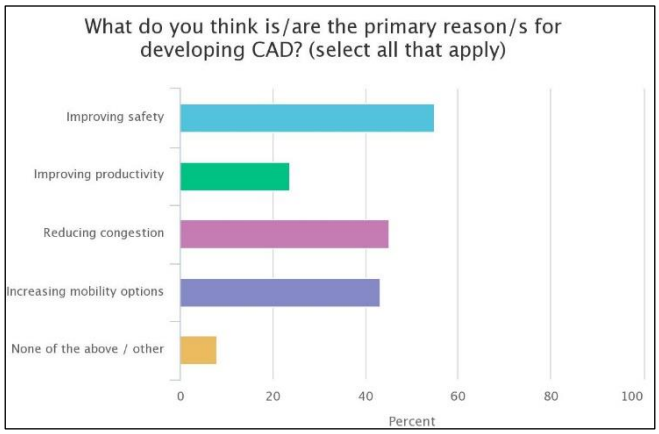
http://tiny.cc/CoEXist-Webinars

1.1.1 Webinar 1: Introduction to Connected and Automated (CAD) in cities

Date	26 February 2018, 12:00 – 13:30 CET.
Attendees (Registrants)	73 (146)
Content	- Introduction - Automation: how far are we? How can we start preparing? - How a mid-size city is preparing for CAD? The case of Milton Keynes, UK - What is the role of automation in public transport? - Open discussion & Wrap-up
Presentations	http://www.rupprecht-consult.eu/uploads/tx_rupprecht/Webinar_presentation_ALL_presentations_FINAL.pdf
Link	https://youtu.be/GkNO0WtFkbY

Summary

Automated? Autonomous? Self-driving? Connected? Cooperative? So many different terms, so many different questions, yet not that many answers. To clarify these and provide a better context to how the topic connected and automated driving (CAD) is shaping around the world, the CIVITAS SATELLITE project in cooperation with the H2020 CoEXist project organised a webinar on automation in cities.



The aim of this webinar was to give an introduction to automation and initiate a dialogue to increase the awareness of local authorities and other urban mobility stakeholders and practitioners. Starting this discussion helped cities and stakeholders prepare for and understand the issues that arise due to the constant technological development. The webinar particularly

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focused on the role of automation in public transport and gave a concrete example on how a mid-size city, Milton Keynes (UK), is preparing for automation.

1.1.2 Webinar 2: Automation-ready transport modelling tools: including CAVs in your traffic flow and transport demand simulations

Date	19 November 2019, 15:00 – 16:30 CET.
Attendees (Registrants)	86 (161)
Content	- Introduction - Microscopic traffic flow simulation - Macroscopic travel demand modelling - Open discussion & wrap-up
Link	https://youtu.be/Gbht_gZZHM8

Summary

Many transport planning decisions affecting urban mobility and road infrastructure are based on the results of traffic flow and transport demand modelling. Within the H2020 CoEXist project, vital progress has been made on the micro- and macroscopic simulation capabilities to model Connected and Automated Vehicles (CAVs) and their interactions with conventional vehicles and other road users, within PTV's Vissim and Visum software. How can these tools be used to enable informed decision-making about Cooperative, Connected and Automated Mobility? To answer these questions, CoEXist, in cooperation with the CIVITAS SATELLITE project, organised a webinar on automation-ready transport modelling tools and its application in urban mobility planning.

1.1.3 Webinar 3: Assessment of automation-ready road infrastructure and safety inspections

Date	24 April 2020, 13:00 – 14:30 CET.
Attendees (Registrants)	94 (156)
Content	- Introduction - Overview of the traffic impact tools developed and how to apply - Safety Assessment based on safety inspections - Open discussion & wrap-up
Link	https://www.youtube.com/watch?v=FGHisyM573 c

Summary

The many uncertainties related to the introduction of automated vehicles imply a need for a structured way of assessing the expected impacts of potential future scenarios, with respect to the penetration rate and mixes of different types of automated vehicles, but also considering different travel demand levels and behavioural changes of road users. Based on automation-ready traffic flow and travel demand simulation results, CoEXist has developed methods and tools to effectively assess the impacts of AVs on traffic performance, space efficiency and safety.

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Road safety improvement is stated to be one of the main objectives of road vehicle automation. Still, a quantitative assessment of safety improvement poses a momentous challenge, due to lack of statistically significant data samples and other limitations. To better understand the effects of automated mobility on safety, CoEXist has extended its research and followed an innovative approach based on Road Safety Audits or Inspections, through which the road characteristics are assessed against consolidated geometries, potential treats and solutions suggested.

How can these tools and methodologies be applied to evaluate the impacts of Cooperative, Connected and Automated Mobility on urban road infrastructure? What are the conclusions and lessons from its implementation in CoEXist's use cases? To answer these questions, CoEXist, in cooperation with the CIVITAS SATELLITE project, organised a webinar on the assessment of automation-ready road infrastructure and safety inspections.

1.2 Automation-ready Modelling Webinars

PTV has conducted several webinars providing guidance on the development and implementation of automation-ready modelling tools:

- CoEXist Vissim Webinar - Autonomous vehicles new features and how to? https://www.youtube.com/watch?v=C_bouqPNSw4&feature=youtu.be (05.10.2018)
- What's new in PTV Vissim 11 https://www.youtube.com/watch?v=yz04_sC9cLo (14.11.2018)
- CoEXist Automation-ready transport modelling tools https://www.youtube.com/watch?v=Gbht_gZZHM8 (19.11.2018)
- PTV Talks: CoEXist, Preparing the Transition to Automated Vehicles with PTV Vissim https://ptvtraffic.us/resources/ptvtalks-coexist/ (12.04.2019)
- Modelling of Autonomous Vehicles (AVs) in PTV Visum https://www.youtube.com/watch?v=PHDeRbvpfkw (CoEXist) https://www.youtube.com/watch?v=Sum-AHhz4pw (PTV) (25.09.2019)
- PTV Talks: Modelling Autonomous Vehicles in PTV Visum 2020 https://ptvtraffic.us/resources/ptv-talks-modeling-autonomous-vehicles-in-ptv-visum-2020/ (14.11.2019)
- Automation-ready transport modelling tools https://www.youtube.com/watch?v=Gbht_gZZHM8 (20.11.209)
- What's new in PTV Visum 2020 https://ptvtraffic.us/resources/webinar-whats-new-in-ptv-visum-2020/ (23.12.2019)
- PTV Talks: CoEXist: Modelling autonomous vehicle mit PTV Vissim https://ptvtraffic.us/resources/coexist-2/ (12.03.2020)
- CoEXist Automation ready Modelling Training https://www.youtube.com/watch?v=HL-NPQNsJV8 (03.04.2020)

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2 Partners

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