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# **PRE-HACKATHON**



12 October 2021  
Pre-Hackathon Workshop  
at ITS World Congress -  
Hamburg

16.30 - 18.45 CET



The hackathon is part of theSHOW project that has received funding by the European Union's Horizon 2020 research and innovation programme under Grant Agreement number 875530



## PRE-HACKATHON

Are you interested in knowing more about Connected, Cooperative, Automated Mobility (CCAM) and how it can benefit citizens and society? Would you like to help us improve our automated mobility services? We warmly invite you to participate in our SHOW PRE-HACKATHON workshop that will take place at the ITS World Congress in Hamburg on Tuesday 12th October 2021, 16.30 – 18.45 CET.

The workshop will bring together a team of world class international, multidisciplinary experts and offers a unique opportunity to jointly **visualise, conceptualise and develop ideas and visions for the mobility of the future**. The aim of this session is to develop innovative solutions to increase user acceptance and user benefit of automated mobility, focusing on three challenges:

- **Human assistance stand-by in case of problems:** People may feel unsafe using an automated vehicle if there is no safety driver. Cameras on board could automatically detect a problem (using AI) and notify the control center which, if needed, can send someone to help.
- **Adapting capacity to increase in demand in a flexible way:** Surplus demand (e.g. due to peak hour, large events, unforeseen circumstances) can be addressed by quickly deploying additional automated buses, to be summoned from a nearby bus depot.
- **Accessibility and assistance for persons with reduced mobility:** How can we ensure that persons with reduced mobility can travel independently – how can we keep them informed (e.g. through audio-visual messaging) about accessibility, and how can they notify any need for assistance?

How? During the workshop, guided by our SHOW expert team, we will work on first prototype solutions that address these three challenges.

Important to know: your input will inspire our SHOW Hackathon (23-24-25 November), during which the ideas and prototype solutions gathered will be further developed and refined, aiming for mature solutions that are ready for market and perhaps even included in one of the SHOW project's live pilot demonstrations.



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## PRE-HACKATHON

# PROGRAMME

WELCOME AND BEGINNING OF THE PRE-HACKATHON	16.30
INTRODUCTION TO SHOW	16:30 - 16:40
INTRODUCTION TO THE THREE CHALLENGES AND WORK ASSIGNMENT	16:40: - 17:00
COFFEE BREAK	17:00 - 17:15
TEAM WORK	17:15 - 18:15
REPORTING BY THE GROUPS ON THE CHALLENGES	18:15 - 18:30
CONCLUSION AND NEXT STEPS	18:30 - 18:45
END OF THE PRE-HACKATHON	18:45

## Background SHOW

SHOW (SHared automation Operating model for Worldwide adoption) aims to support the deployment of shared, connected and electrified automation in urban transport, to advance sustainable urban mobility. During the project, real-life urban demonstrations taking place in 20 cities across Europe will see the integration of fleets of automated vehicles in public transport, demand-responsive transport (DRT), Mobility as a Service (MaaS) and Logistics as a Service (Laas) schemes.

SHOW aims to be the biggest and most holistic ever initiative piloting automated vehicles in urban environments. It gathers a strong partnership including 69 partners from 13 EU-countries and fosters international cooperation by collaborating with organisations from the US, South Korea, Australia, China, and other countries. The SHOW project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 875530.



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