

Digital Twin Based
Air Quality Analysis and Prediction Tool
due to Road Vehicle

Panel discussion chaired by Dr. Simon Petrovich, LU (P211, 16:00-17:00)

Themes

- ☐ Different sectors are contributing to poor air quality levels in urban areas, which ones are the major contributors? And do legislations exist for all the contributors?
 - ☐ How to ensure a link and a consistency of the legislations related to the different sources?
- ☐ What will be the expected benefits of vehicle related regulations on the air quality in cities? More strict standards, early fleet renewal, or complete ICE ban, which approach is more pragmatic?
- ☐ How important is the Life Cycle Analysis in finding the solutions for AQ? Are we solving the problem or shifting the burden from one sector (and region) to another sector (and regions)?
- ☐ How will the ICE technologies evolve in the context of strengthening pollutant regulations? Are we applying the maximum potential of currently available technologies to reduce pollutant emissions?
- ☐ Is there a generic and common neutrality definition for local/global air quality like the one for carbon neutrality related to GHGs?
 - ☐ We have for example Zero Impact Emissions (ZIE)
- ☐ How does the local pollutant emissions neutrality need to be defined?
- ☐ What is the technology for AQ measurement?
 - ☐ Portable, fixed, regulatory, satellite, ...
 - ☐ What should the accuracy be?

8th September, 2026



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