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Artificial Intelligence for Urban Low-Emission Autonomous Traffic (AlforLEssAuto)

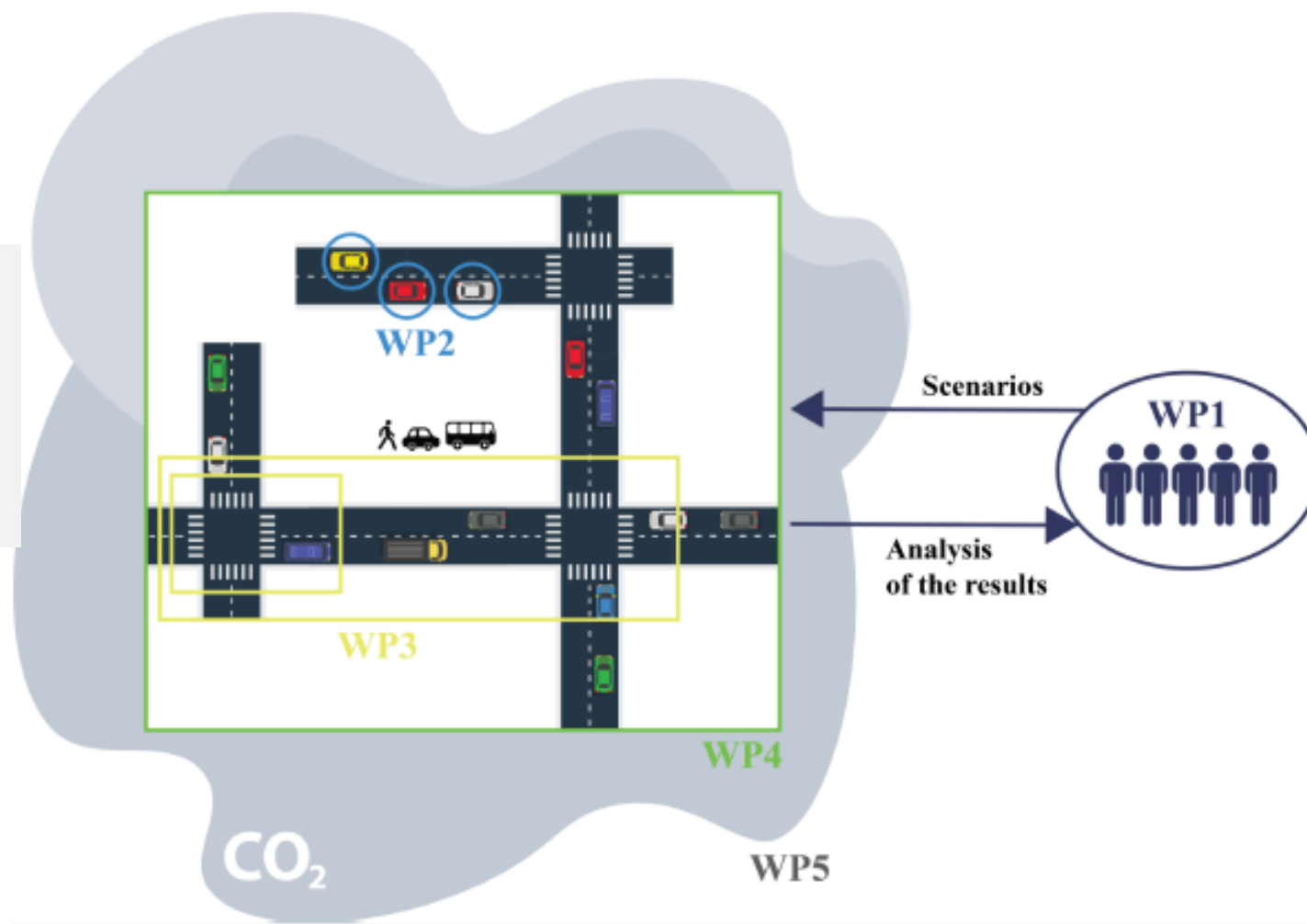
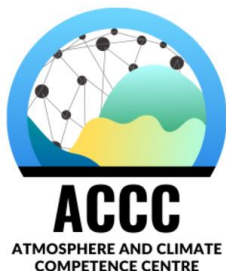
Laura Ruotsalainen, Professor, Computer Science, University of Helsinki

Artificial Intelligence for Urban Low-Emission Autonomous Traffic (AlforLEssAuto)

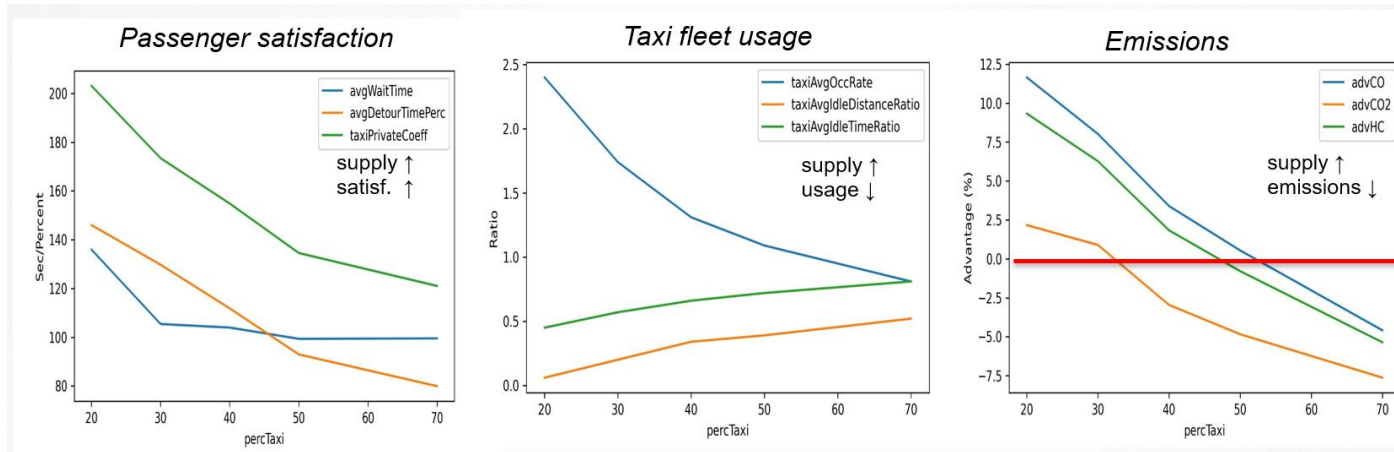
- Autonomous driving
- Electrification of vehicles

- University of Helsinki:
Computer Science (Laura Ruotsalainen) and
Atmospheric Sciences (Leena Järvi)
- Aalto University: Intelligent machines,
Electrical engineering (Ville Kyrki) and
Transportation engineering (Claudio Roncoli)

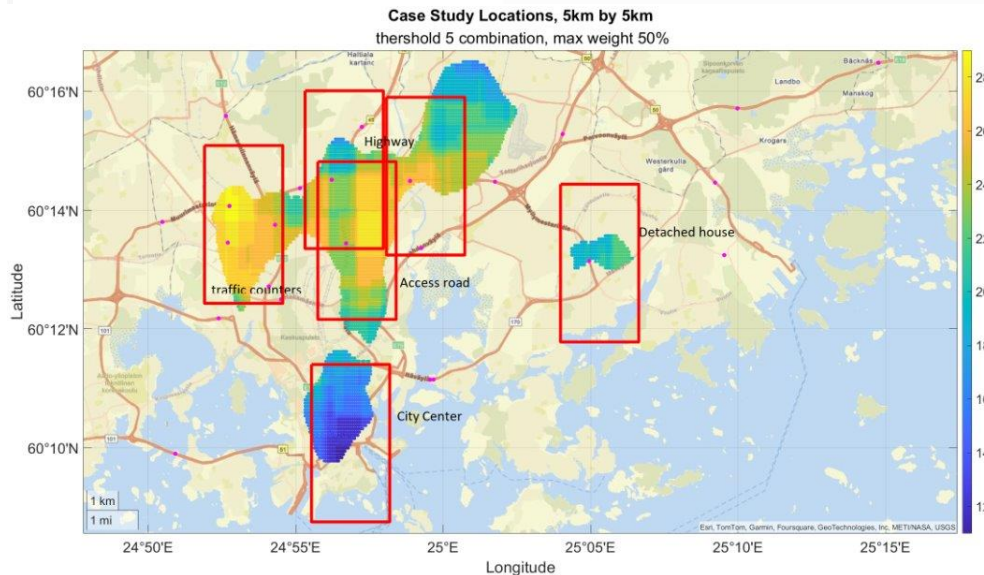
FCAI



A framework of computational modelling tools – Ride sharing as an example



- Scenarios selected with stakeholders: Traficom, Finnish Climate Fund, Sensible 4, HSL, HSY



Novel AI models: multi-objective Reinforcement Learning

Novel CO₂ upscaling simulations



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Kiitos!

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<https://www.helsinki.fi/en/researchgroups/spatiotemporal-data-analysis/research/aiforlessauto>