



IRTEMS

H2020-MSCA-IF-2019,
Grant Agreement 896417

IRTEMS project closure workshop:
Modelling instantaneous road transport emissions
February 13, 2024



Opportunities for future collaboration

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Continuous improvement

- Modal emission models continuous improvement introducing new cycles measured data for emission estimations.
- Consider other sources of air pollution from transport (non-exhaust) relevant for changes in the vehicle fleet (electric vehicle market), and their air quality implications.
- Understand differences between models and identify improvement opportunities.
- Microscale emission estimations using macroscale traffic data in combination with traffic activity models.



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CFD coupling opportunities

- Collaborations to apply hybrid emission information (microscale emissions based on macroscopic available information) into high resolution air quality models.
- Analyze opportunities to couple hybrid emission inputs for high resolution dynamic CFD based air quality simulations.



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Simulation system implementation

- Identify potential parameterizations to obtain microscale resolution emissions results using macroscale traffic information.
- Evaluate policies and measures at city scale with local and regional administrations, and analyze the potential of local abatement measures by the implementation of the hybrid simulation system.
- Understand how to estimate the contribution of road traffic to atmospheric emissions at city level and in great detail.