TransAID

Transition Areas for

Infrastructure-Assisted Driving



Project Goal

- Traffic management during the transition phase towards full AV penetration to
 increase traffic efficiency and safety
- Ψ The focus is on automated vehicles and preventing them from having to hand over control back to the driver in difficult situations

Dynniq Challenge

- Ψ New C-ITS application to assist safe merging at on-ramp
- Ψ Modeling tools for simulation of motorway on-ramp situations
- Ψ Extended message sets for providing advice for traffic merging situations to cooperative and automated vehicles

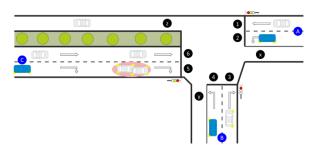


Use cases

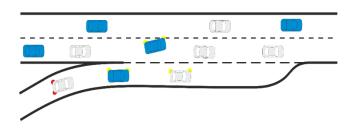
1: Queue spillback at exit ramp



3: Intersection handling due to incident



2: Motorway merging

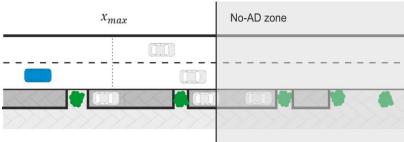


4:

Safe spot in lane of blockage & Lane change Assistant



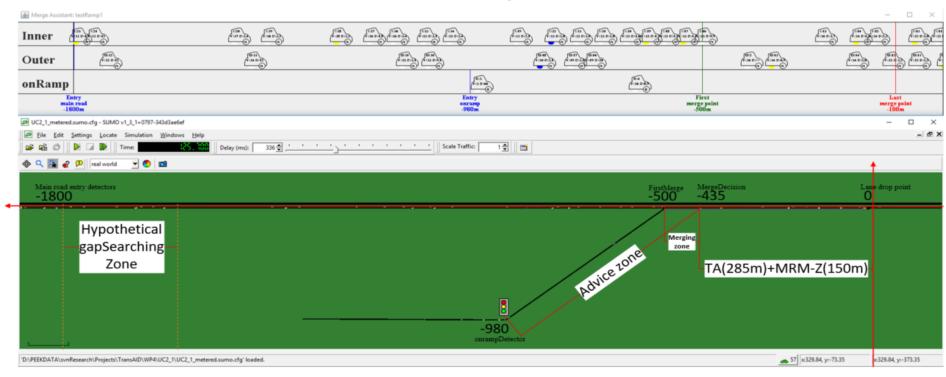
5: Distributed safe spots along an urban corridor







Ramp metering: Scenario



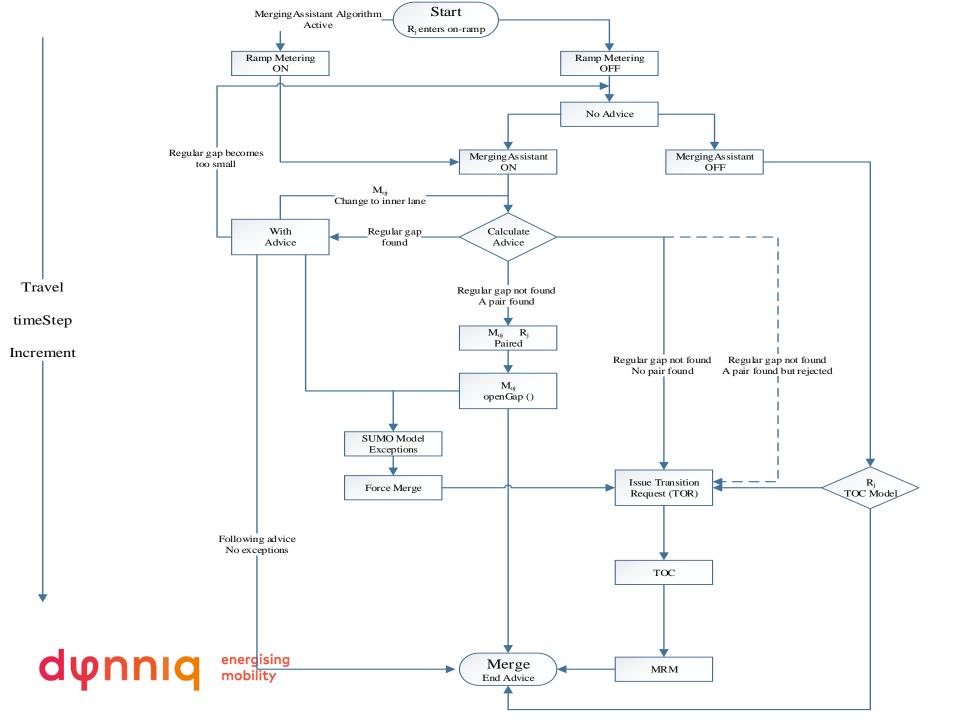


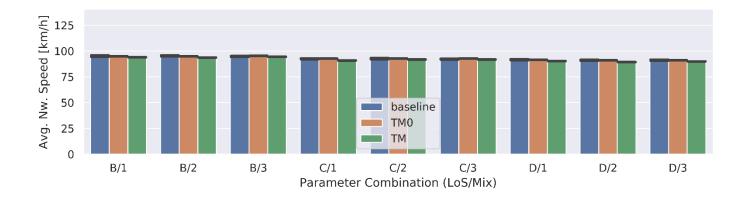


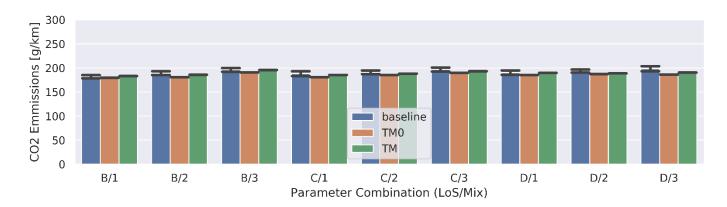
Ramp metering: Algorithm

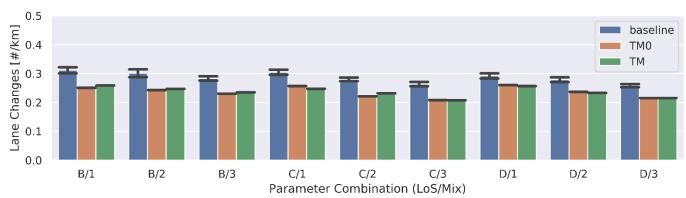






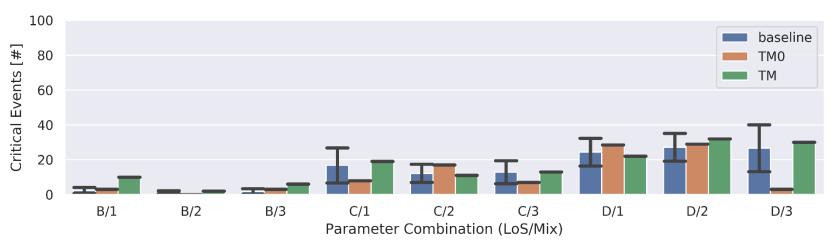


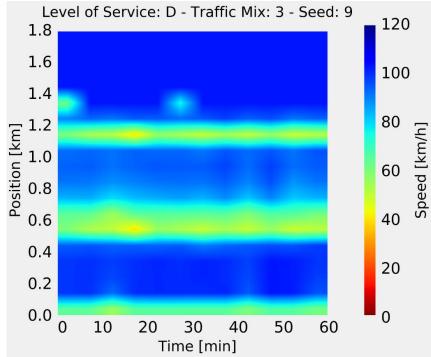








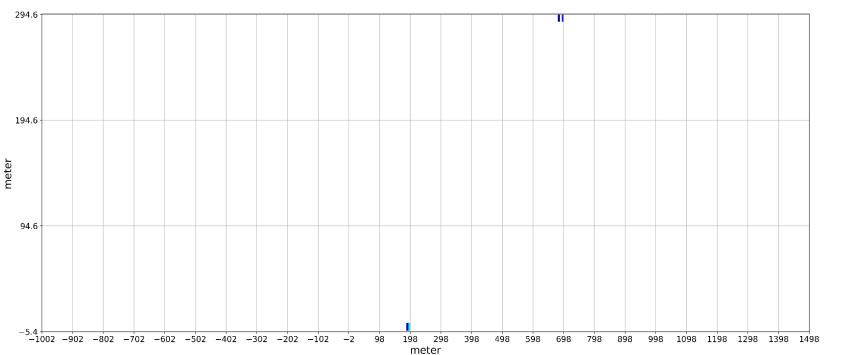


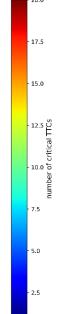






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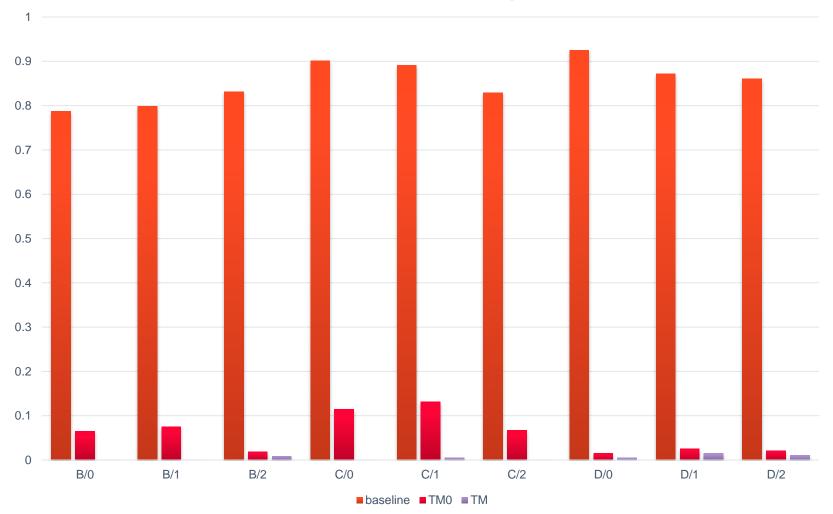








CAVs ToC percentage







Thank you!

Questions?

