

- Twinning with CAMP -Prototypical Implementation and Testing

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TransAID @ Twinning with CAMP | Detroit Meeting | July 2019

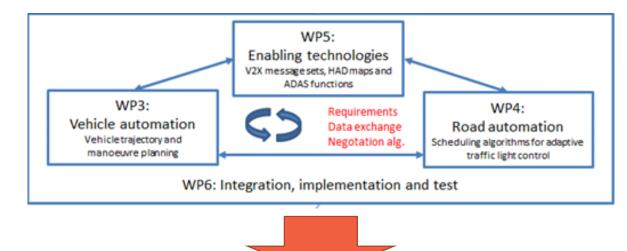


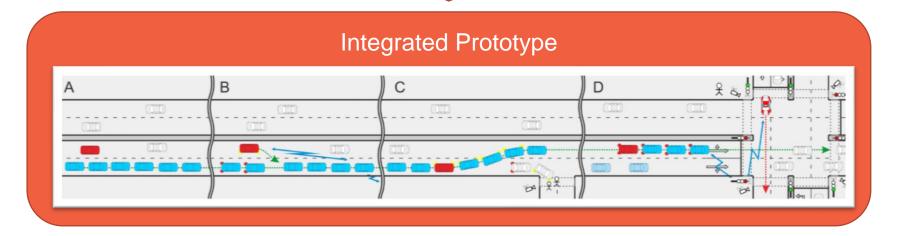
Managing Automated Vehicles Enhances Network





Introduction







Helmond

Braunschweig



Integration plan

Sprint 1: Simulation Testing + Preparatory activities

Sprint 3: + Lat. automation on test track Sprint 2: + Real test vehicle on test track, long. Automation, speed advice

Sprint 4: + lane advice, cooperative sensing on test track

Sprint 5: + Platooning on test tracks, HYU-DLR- interoperability on test track

Sprint 6: + Platooning, GLOSA, lane advices on public roads





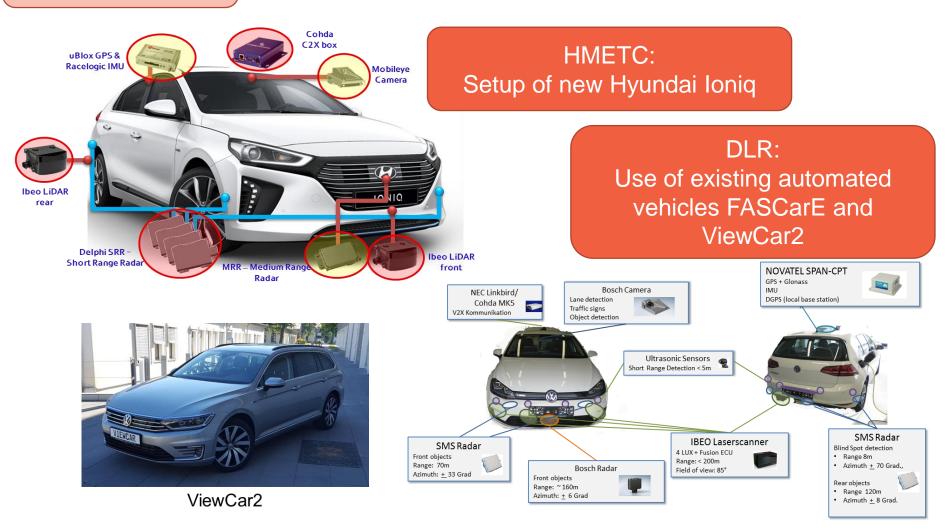
Simulation Testing of GLOSA







Vehicle setup





Infrastructure setup

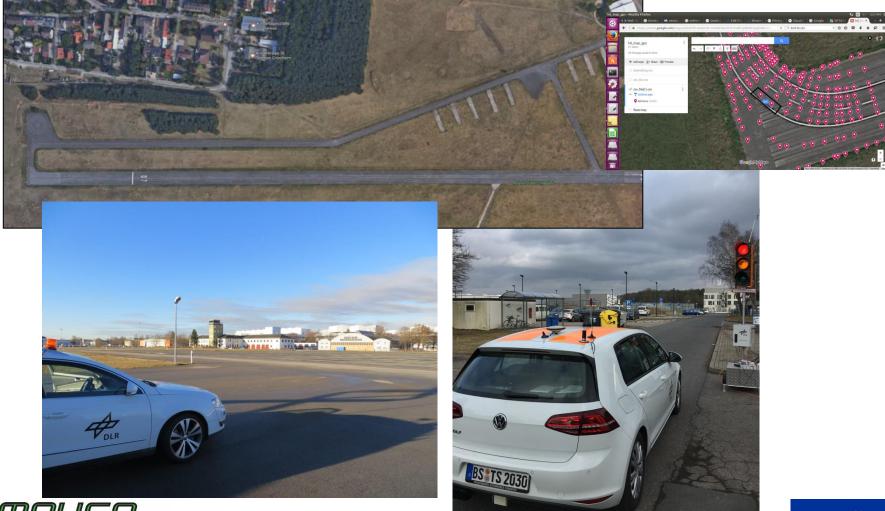
Helmond







Test track preparation







Sprint 2: + Real test vehicle on test track, long. Automation, speed advice

Emulation

Real signal phase (received by SPAT)

of nto

Simulated vehicle: Provided to Sensor Data Fusion & Sends out real CAMs

D-GPS Position of real vehicle fed into simulation environment

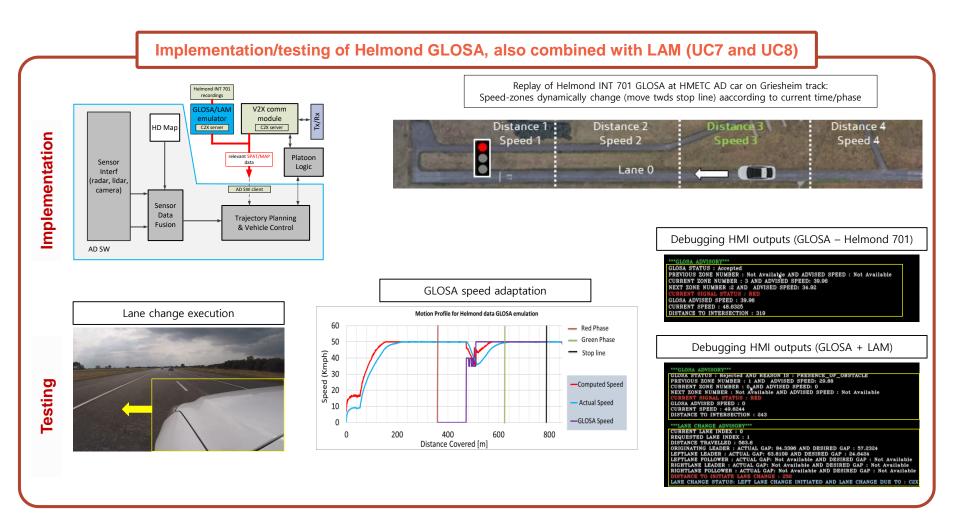
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Sprint 4: + lane advice, cooperative sensing on test track

Combined Speed and Lane Advices

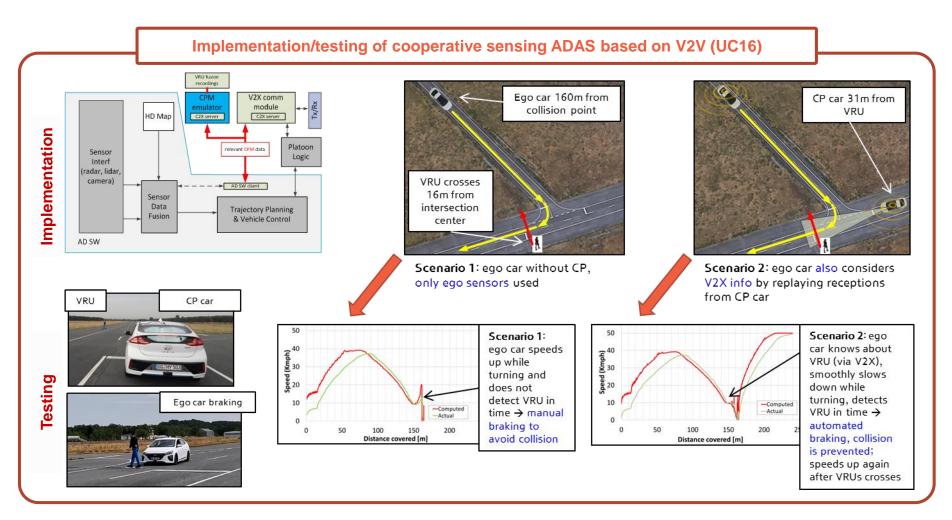






Sprint 4: + lane advice, cooperative sensing on test track

Cooperative Sensing: CPM Testing

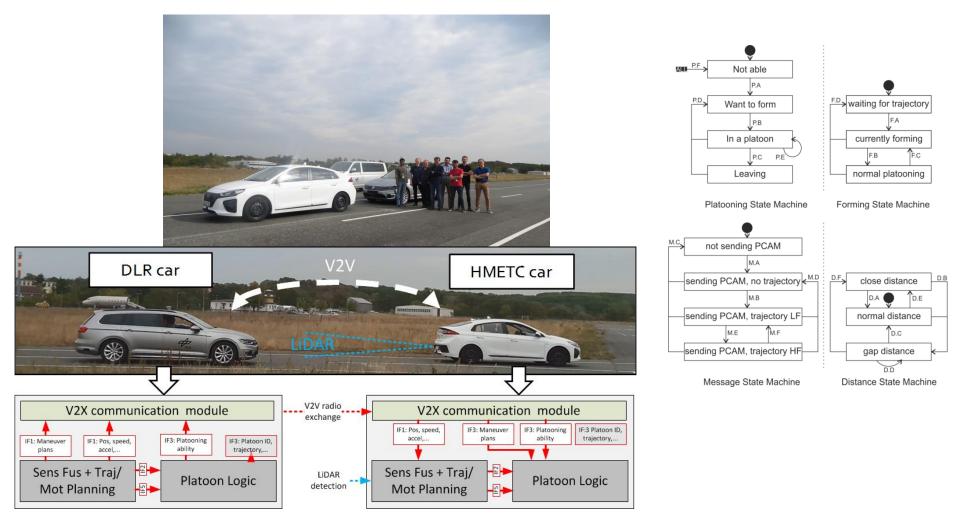




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Sprint 5: + Platooning on test tracks, HYU-DLR- interoperability on test track

Platoon Interoperability Testing







Sprint 6: + Platooning, GLOSA and lane advices on public roads

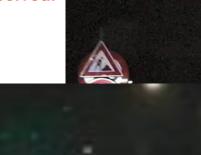
GLOSA and Speed Advices in Helmond

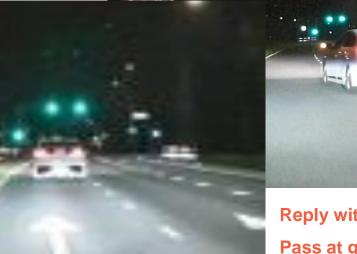
Automation started, indicated direction (go straight) to upcoming traffic light

GLOSA and LAM received. Adapting to advices

6

MF







Reply with compliance to the advices.

Pass at green on desired lane







Real world integration







Real world integration: First iteration testing (07/2019)



















Real world integration Planned public road tests (07/2020)





Any questions? Contact us!



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