

# Project introduction and overview of regional activities

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#### **Transition Areas for Infrastructure Assisted Driving**

- European H2020-MG-2014-2015 project
  - ART-05-2016 Automated Road Transport
  - Period: 01-09-2017 ~ 31-08-2020
  - Budget: € 3,836,353
  - 7 partners + 12 associated partners
- Main objective:

To develop and demonstrate

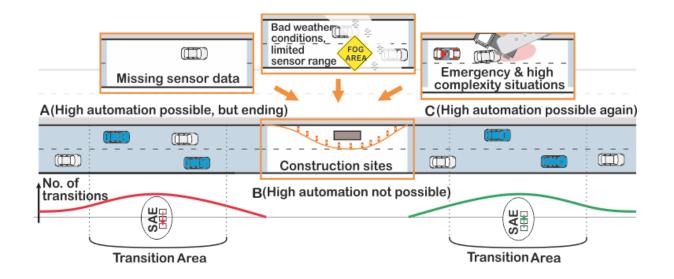
- infrastructure-assisted traffic management procedures,
- protocols and
- guidelines

for smooth coexistence between automated, connected and conventional vehicles especially at *Transition Areas*.





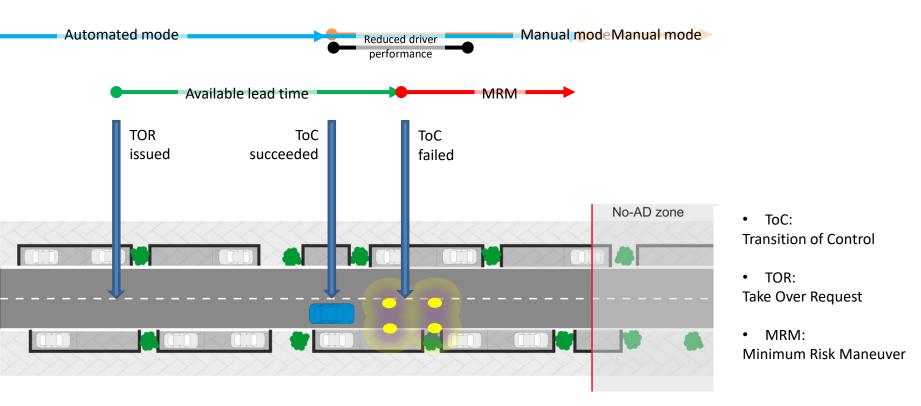
### **Definition: "Transition Areas"**



"Transition Areas" are areas on the road where many highly automated vehicles (blue) are changing their level of automation due to various reasons.



### **Definition: ToC, TOR & MRM**



TransAID + ITS Japan / UtmobI meeting, 2020-04-07

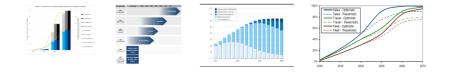
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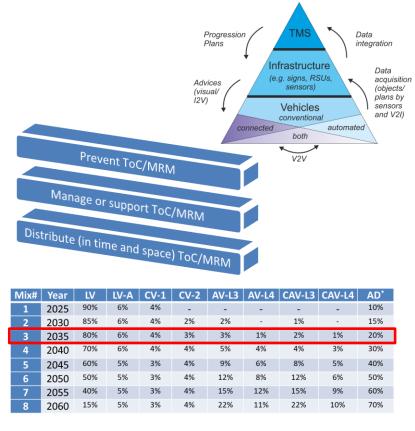
### **Scenario and timeline definition**



Performed literature studies, expert interviews and stakeholder workshops with mentimeter surveys

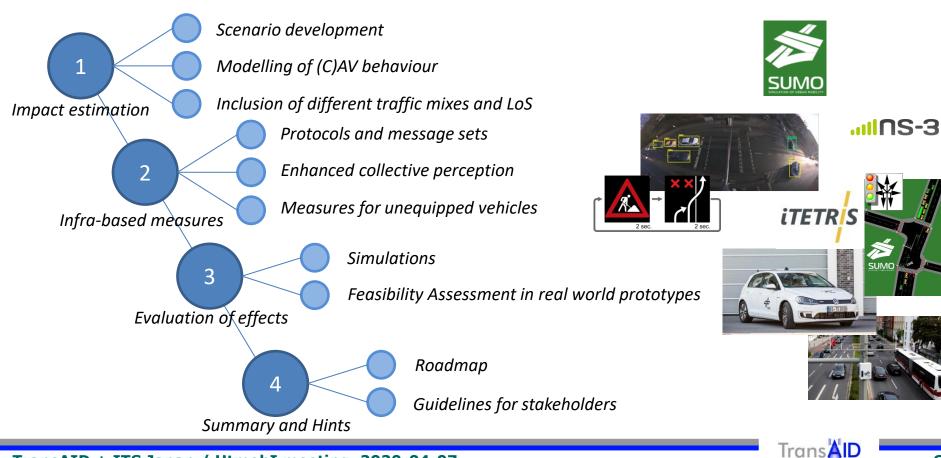
- → Various parameters (environmental causes, vehicle behaviour, HMI, driver reaction, time ...)
- $\rightarrow$  only limited data available







# Methodology



### **Related European activities (excerpt)**



- "Preparing road infrastructure for mixed vehicle traffic flows"
- Scenarios: Dynamic lane assignment, Construction site/Roadworks zone, Bottlenecks (on/off ramps, lane drops, etc.)
- Important output: ISAD levels



- "Working towards a shared road network. Enabling cities to get automation ready"
- Investiagating e.g. capacity of arterial road with signalised junction or mixed road space
- City focus: Gothenburg (SE), Helmond (NL), Milton Keynes (UK) & Stuttgart (DE)



- "Piloting automated driving on European roads"
- large-scale piloting of SAE Level 3 functions, with additional assessment of some Level 4 functions
- 1,000 drivers and 100 cars across 10 European countries, including cross-border



- managing automated vehicles in an urban environment (with signalized intersections and mixed traffic)
- Adaptive GLOSA approaches, collective perception, urban platooning





## **Any questions?**

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