



# Overview, key findings, and summary

Julian Schindler

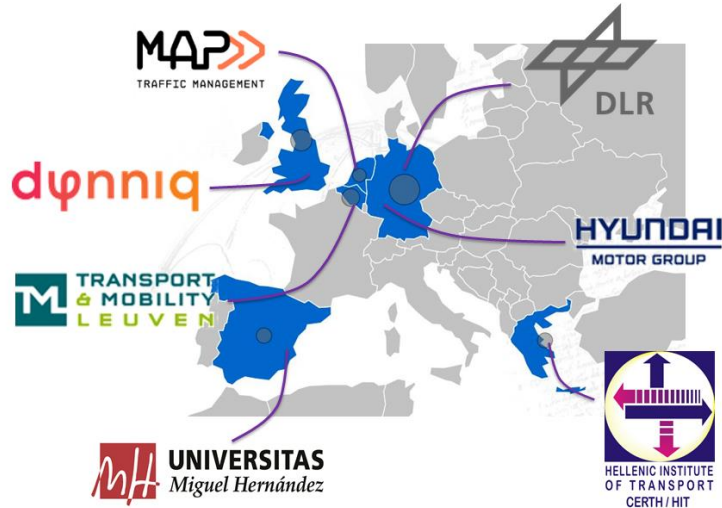


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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 723390



# The project



## Transition Areas for Infrastructure-Assisted Driving

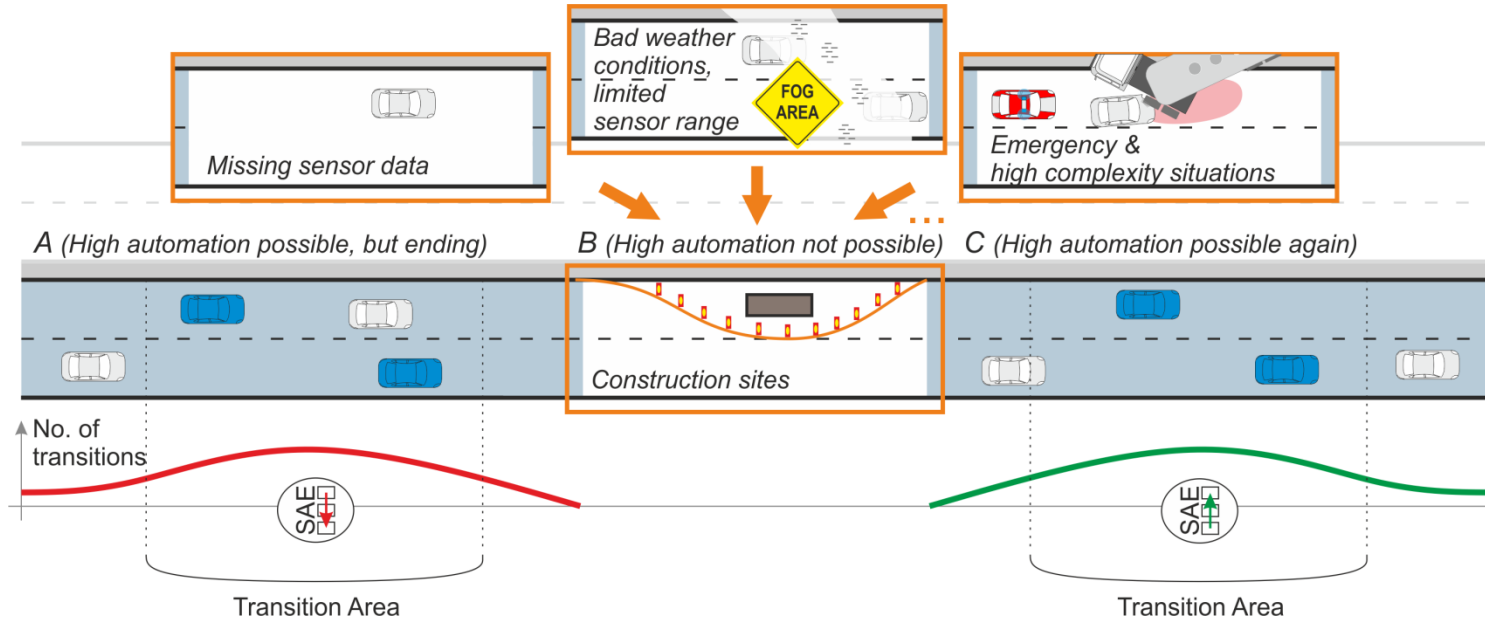
### European H2020 project

- ART-05-2016 - Automated Road Transport
- Period: 01-09-2017 ~ 31-08-2020
- Budget: € 3,836,353
- 7 partners + 12 associated partners

# The main objective

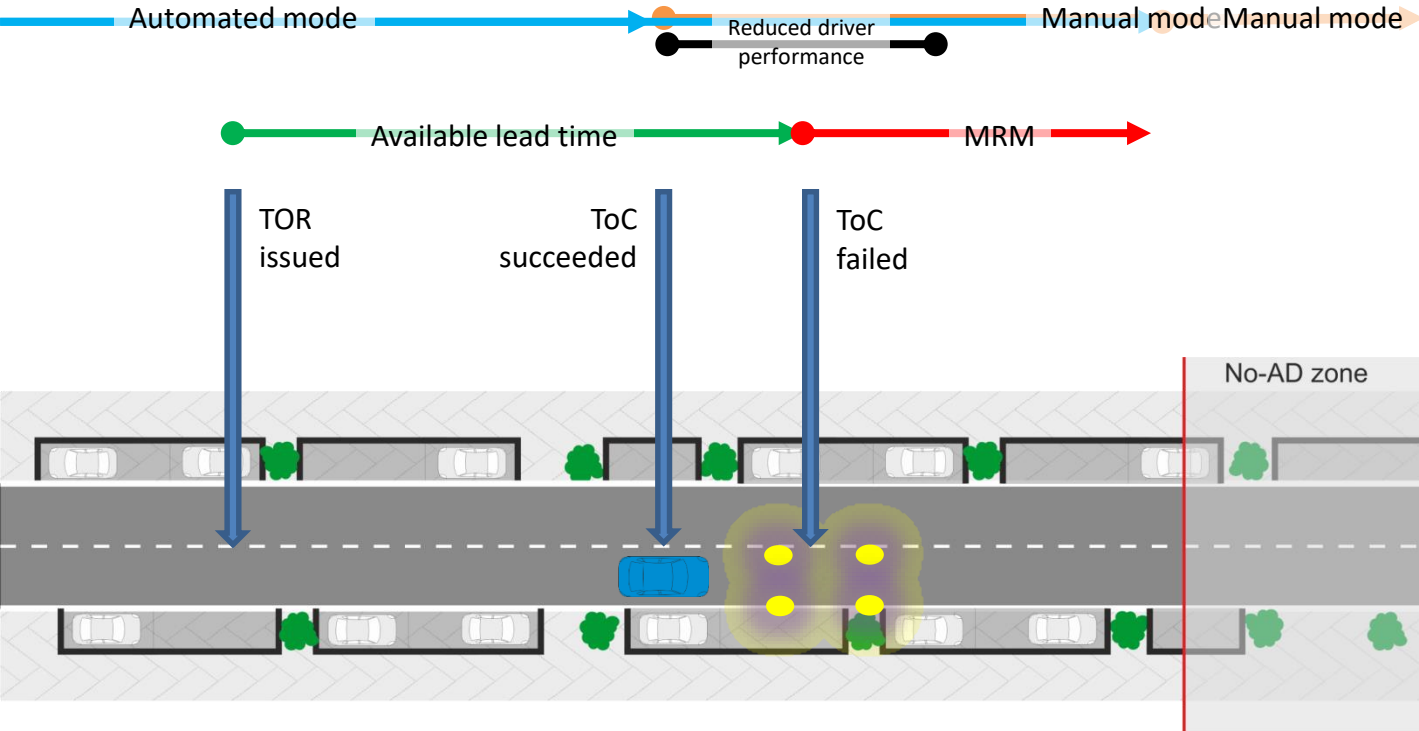
To develop and demonstrate  
infrastructure-assisted traffic management procedures,  
protocols and  
guidelines  
for smooth coexistence  
between automated, connected and conventional vehicles  
especially at *Transition Areas*.

# Definition: “Transition Areas”



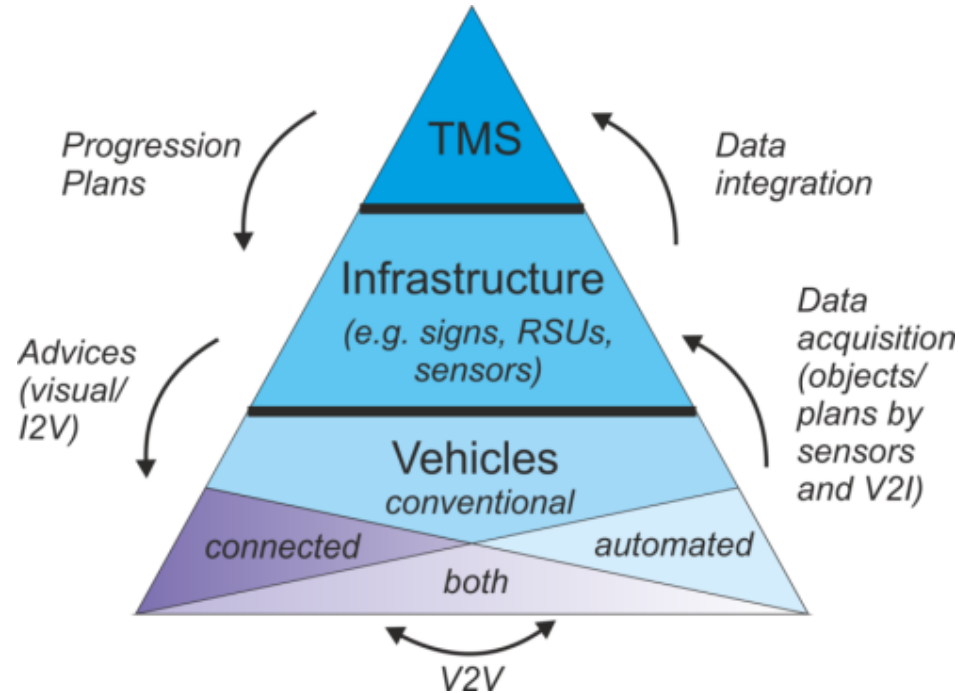
*“Transition Areas” are areas on the road where many highly automated vehicles (blue) are changing their level of automation due to various reasons.*

# Definition: ToC, TOR & MRM

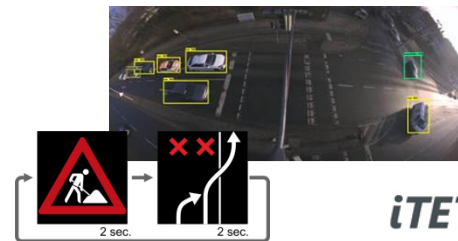
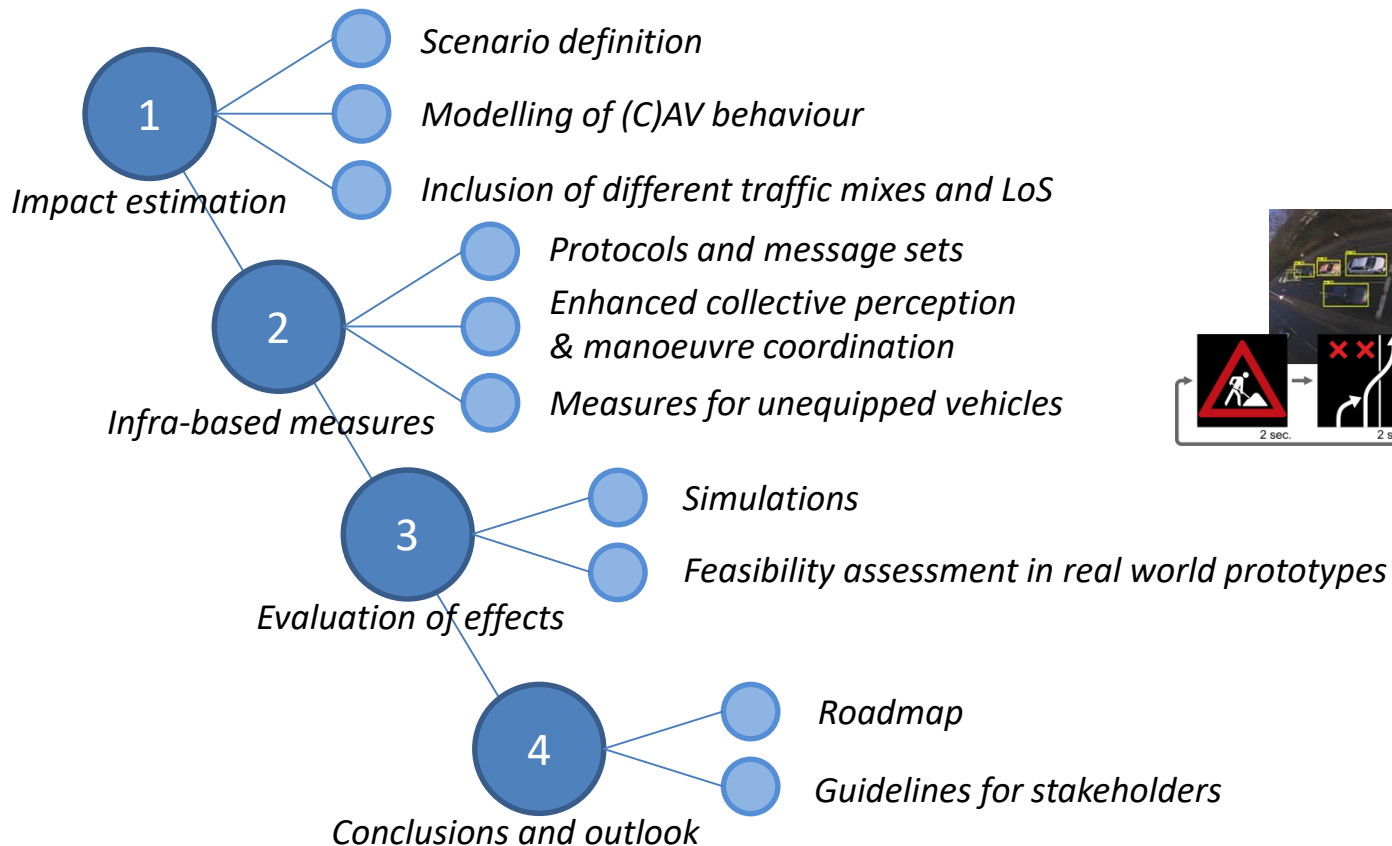


- ToC:  
Transition of Control
- TOR:  
Take Over Request
- MRM:  
Minimum Risk Maneuver

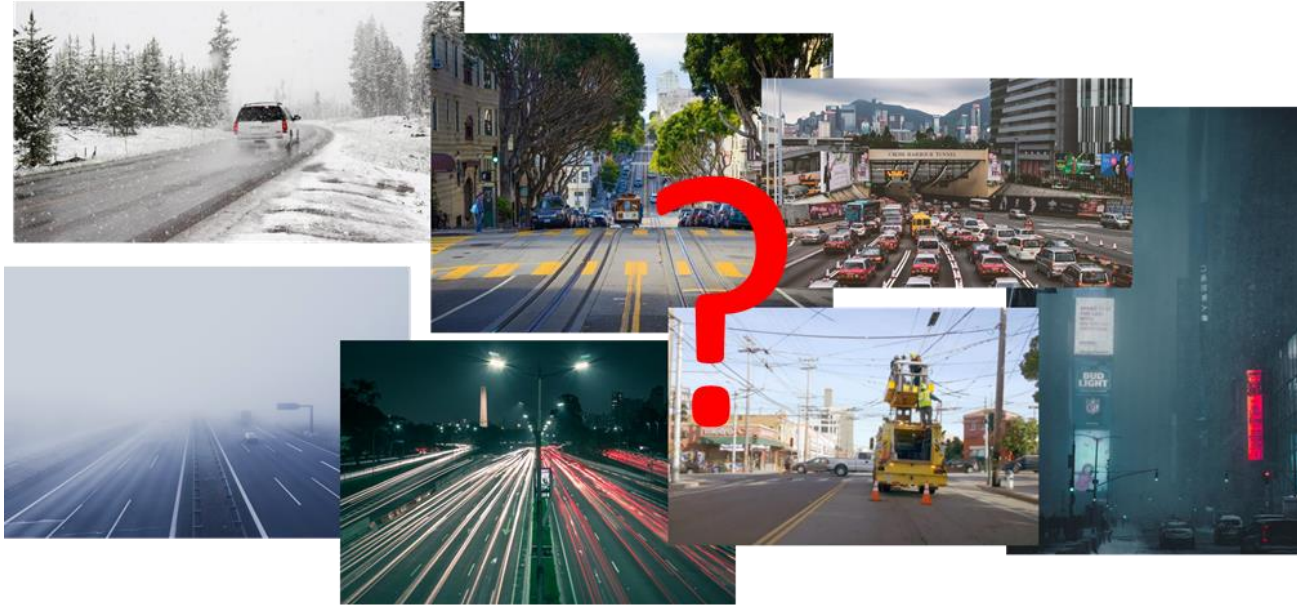
# Hierarchical traffic management



# Methodology



# Scenario definition



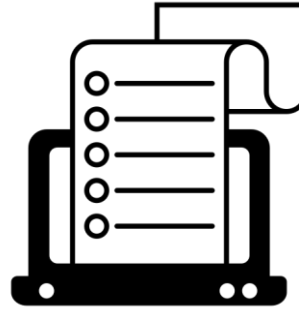
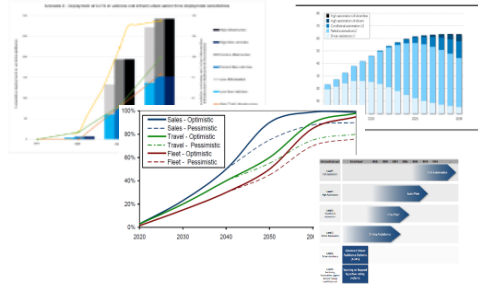
Locally fixed

Depending on number of  
AVs on the road

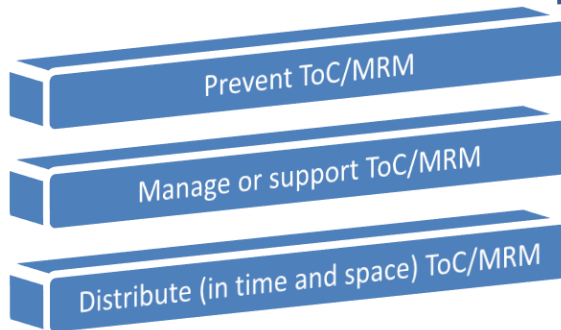
Independent of specific AV  
behaviour



# Scenario definition



LV: Legacy Vehicle  
CV: Connected Vehicle  
AV: Automated Vehicle  
CAV: Connected Automated Vehicle



Mix#	Year	LV	LV-A	CV-1	CV-2	AV-L3	AV-L4	CAV-L3	CAV-L4	AD*
1	2025	90%	6%	4%	-	-	-	-	-	10%
2	2030	85%	6%	4%	2%	2%	-	1%	-	15%
3	2035	80%	6%	4%	3%	3%	1%	2%	1%	20%
4	2040	70%	6%	4%	4%	5%	4%	4%	3%	30%
5	2045	60%	5%	3%	4%	9%	6%	8%	5%	40%
6	2050	50%	5%	3%	4%	12%	8%	12%	6%	50%
7	2055	40%	5%	3%	4%	15%	12%	15%	9%	60%
8	2060	15%	5%	3%	4%	22%	11%	22%	10%	70%



## Questions? Let's stay in touch!

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