



17TH ROAD SAFETY CONFERENCE



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CASCAIS, PORTUGAL

HOSTED BY:



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01

C-ITS BASICS

Many Abbreviations, one System

Car2X

V2X

C-ITS

V2I

V2V

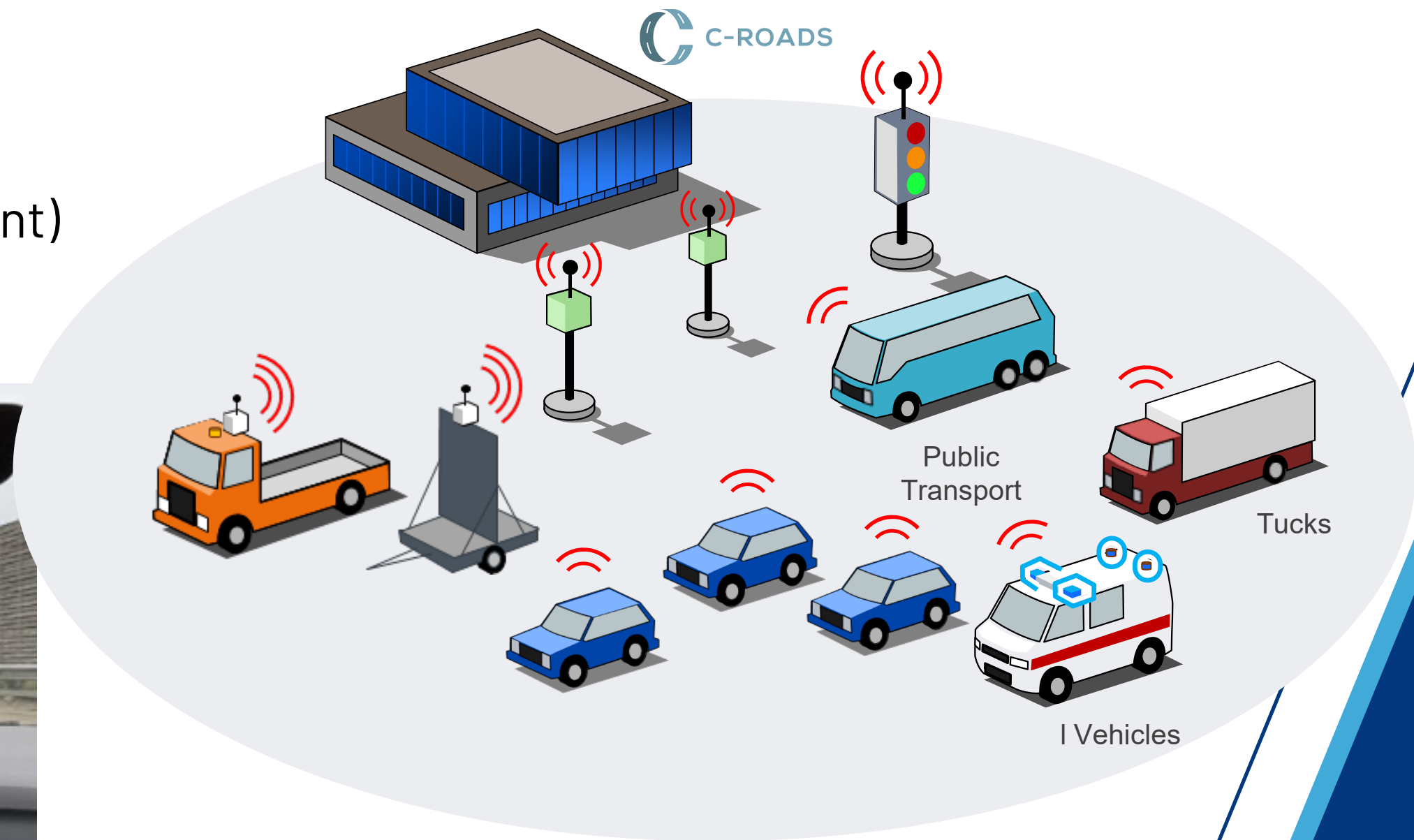
C2X

I2V

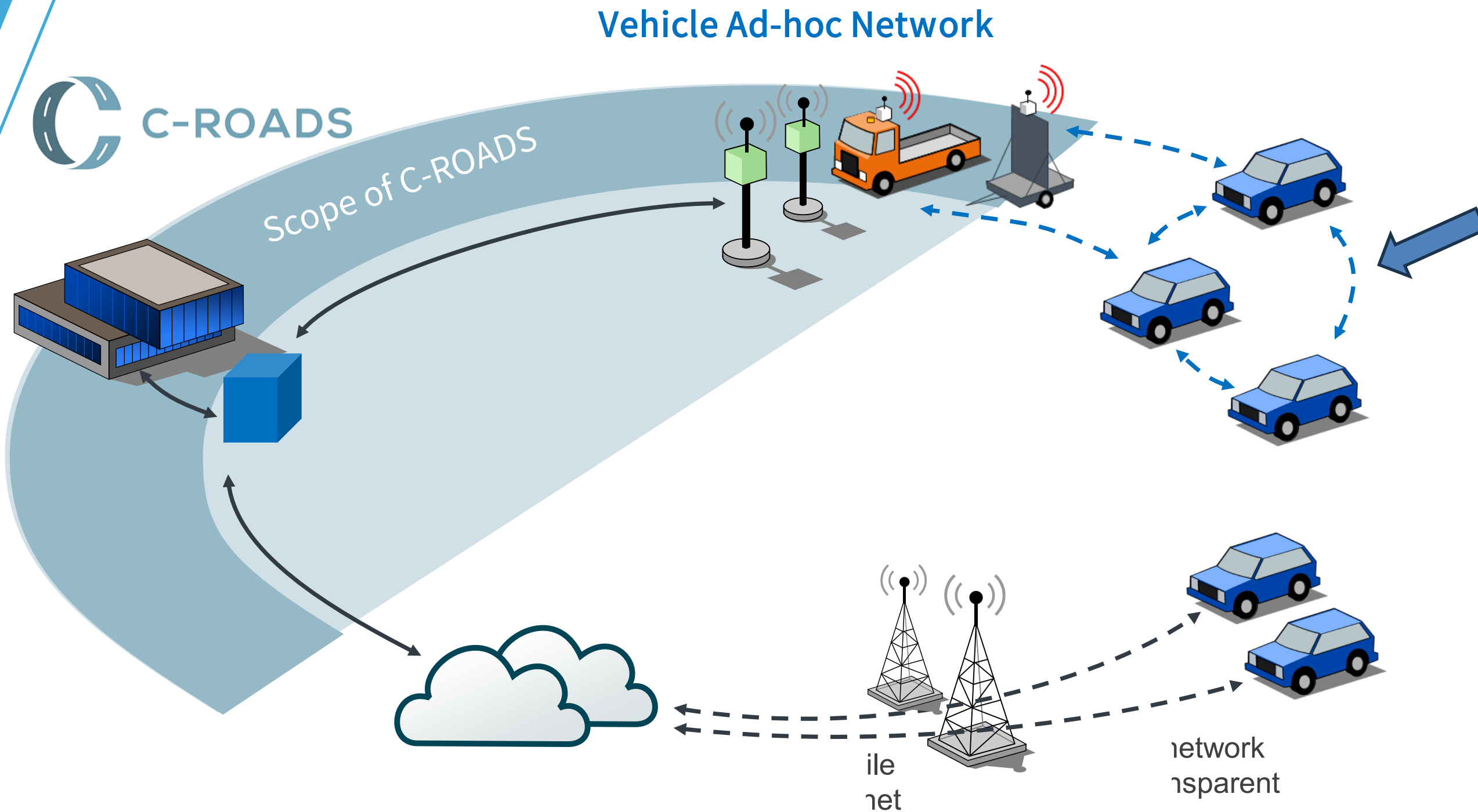
Cooperative Intelligent Transport Systems

The C-ITS Ecosystem

- Independent from suppliers / operators
- EU-wide trust on operators and OEMs
- Integrated safety system (no infotainment)
- No App, No Abonnements, No Contracts



Supporting two modes of Communication



More than **1.000.000** production vehicles (awarded by Euro NCAP) and thousands of road infrastructure systems partly already operational today in Europe

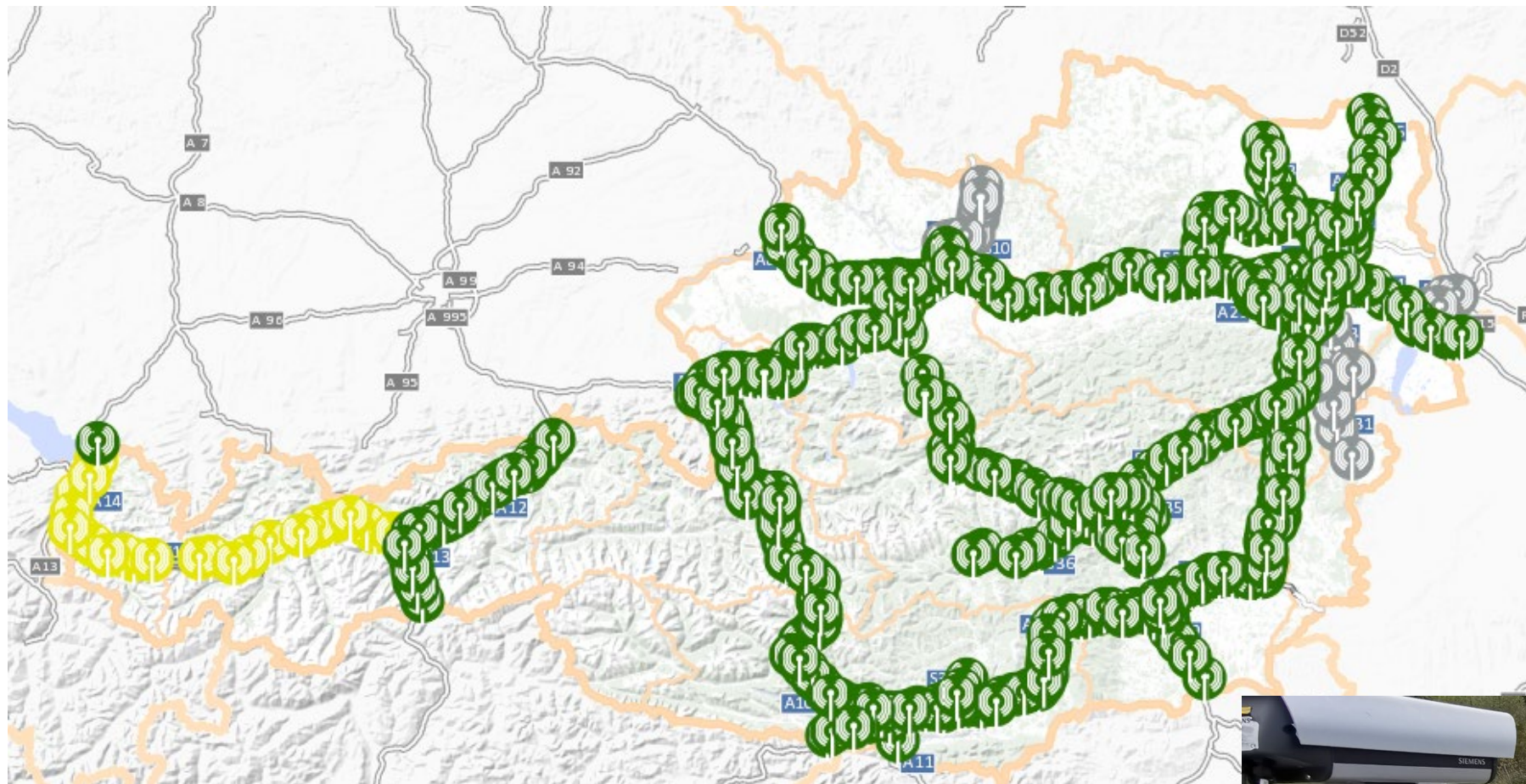
IP-based communication



02

**Deployment
@ASFİNAG**

C-ITS Road Side Deployments



Short Range

- 525 RSUs on 2.250 km
- Approx. every 4km one RSU
- Roll-Out finished by the end 2025
- >90% Roll-Out finished today!



C-ITS Hybrid Broker (Long Range)

- Road Work Warning and Hazardous Location available
- Other brokers connected



C-ITS Vehicle Deployments

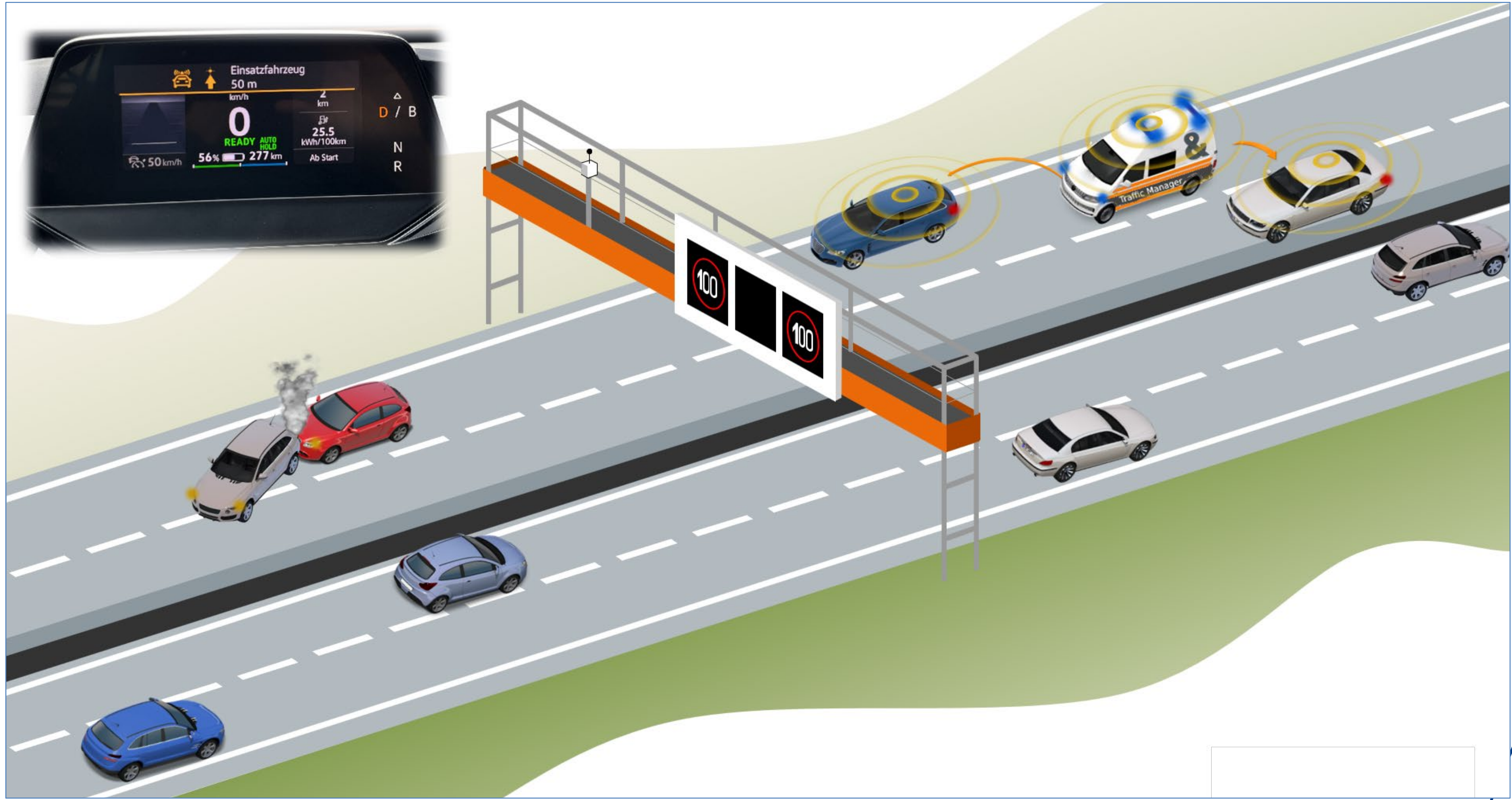


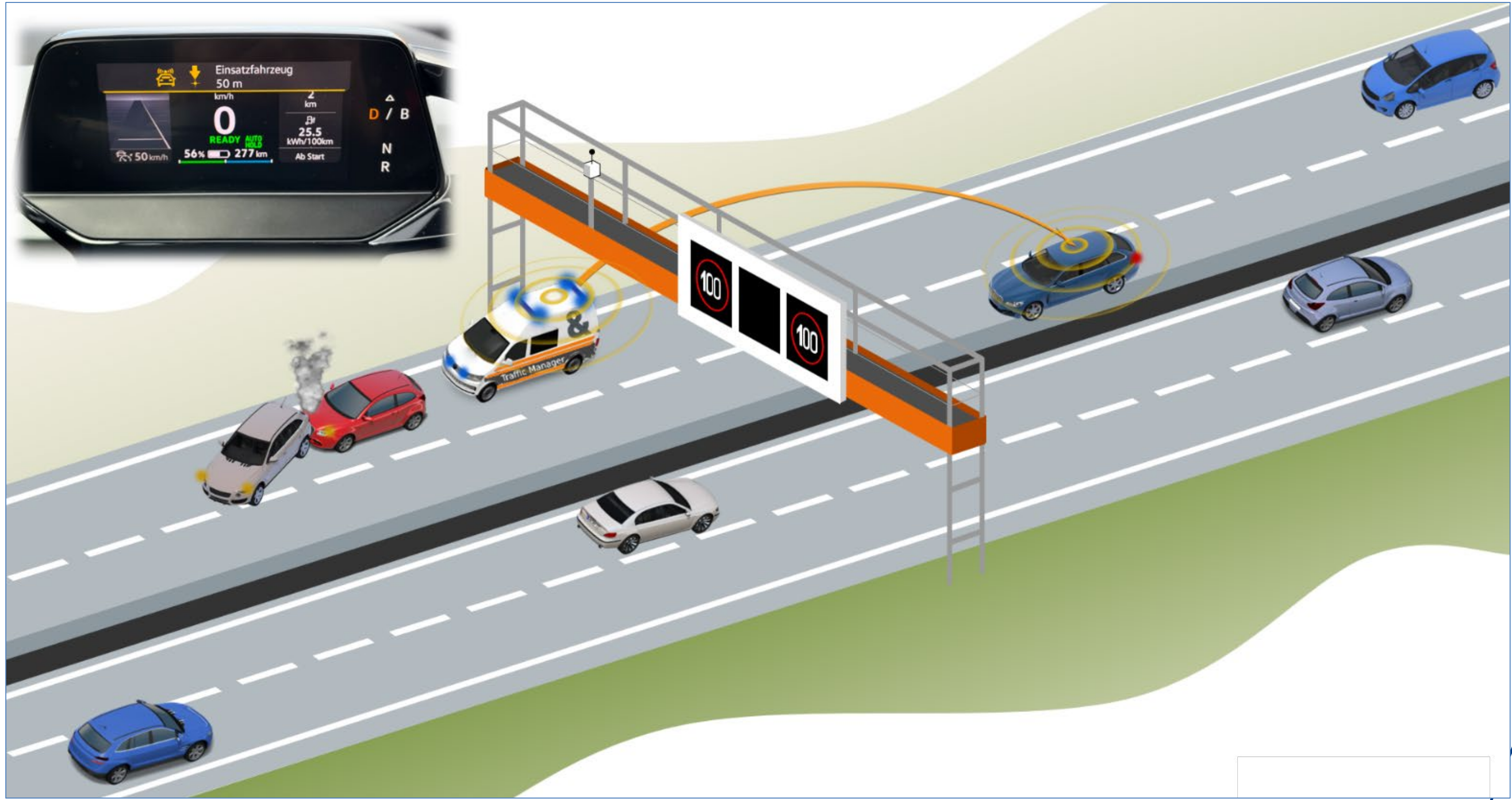
***>90% of these vehicle classes equipped
Full Roll-Out finished 2025***



03

Use-Cases





Use-Cases in Production Vehicles



Roadworks warning
 Temporary Slippery Road
 Person / Animal / Obstacle on the road
 Emergency vehicle approaching
 Emergency vehicle in intervention

Accident
 Alert Wrong Way Driving
 Stationary vehicle
 Weather Condition Warning
 Traffic Jam Ahead

C-ITS messages visualized in a Volkswagen ID.7 and ID.3



04

Digitalization for C-ITS

Why we need exact Data – an Example

Typically, existing services do not have such high requirements on data quality.

Different situations on the road can have an impact on the data quality

The right picture shows the worst case:

*The driver gets the information about roadworks too late.
Imagine, they start a overtaking manoeuvre because they think they have still 400m left – this can lead to additional accidents if this is not the case*



Why we need exact Data – an Example

The solution – **digitizing existing processes!**

In this case, IoT devices are used to automatically receive the correct position for the C-ITS Roadworks warning.

This information can now also be used for all other services.





04

**The (not so
far) Future**

Many situations to think about...



<https://www.youtube.com/watch?v=ezz7ndTT198>

<https://www.youtube.com/watch?v=E531GxfEoB8>

<https://www.youtube.com/watch?v=LfmAG4dk-rU>

<https://www.youtube.com/watch?v=E7x8qWeNQxU&list=PLCoH-Dcw-U45zod86UCtBaxxYaHFm2n9w&index=17>

