

45TH ASECAP STUDY & INFORMATION DAYS 2017

The Concession model in the decarbonization era: preparing the infrastructure of the future

Pullman Paris Montparnasse Hotel 29-31 May 2017

www.asecapdays.com











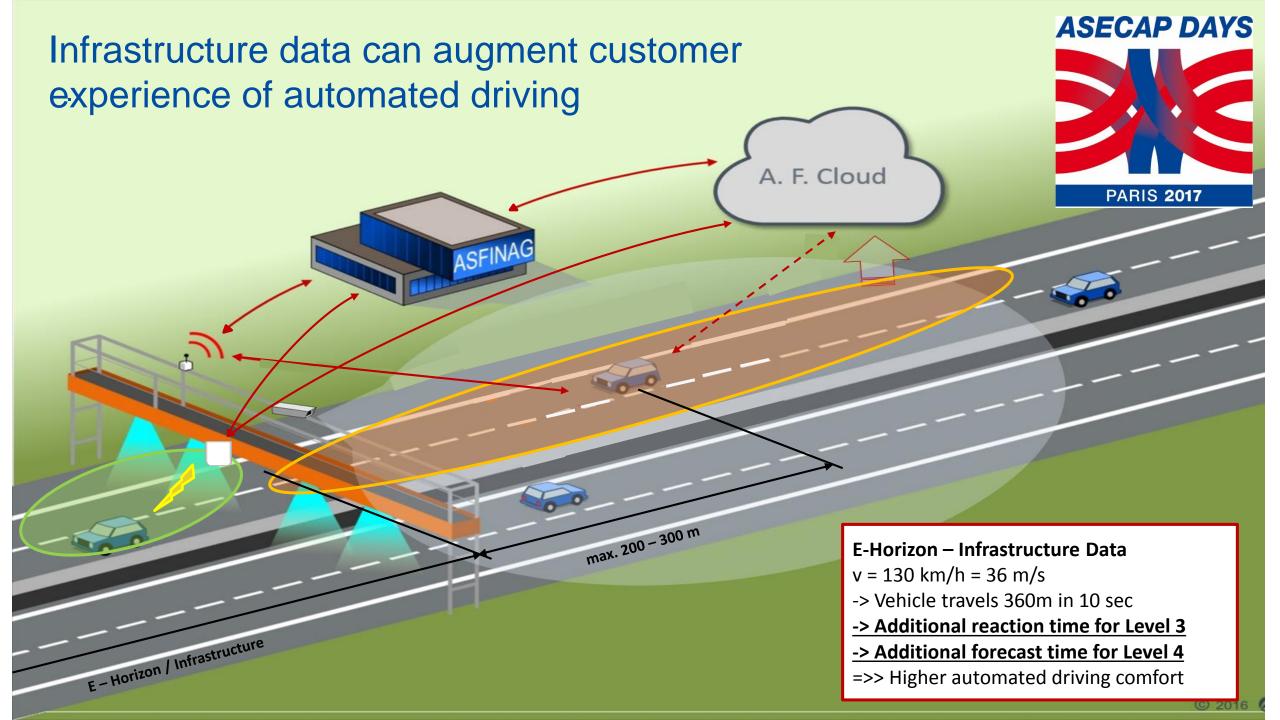


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Automated driving

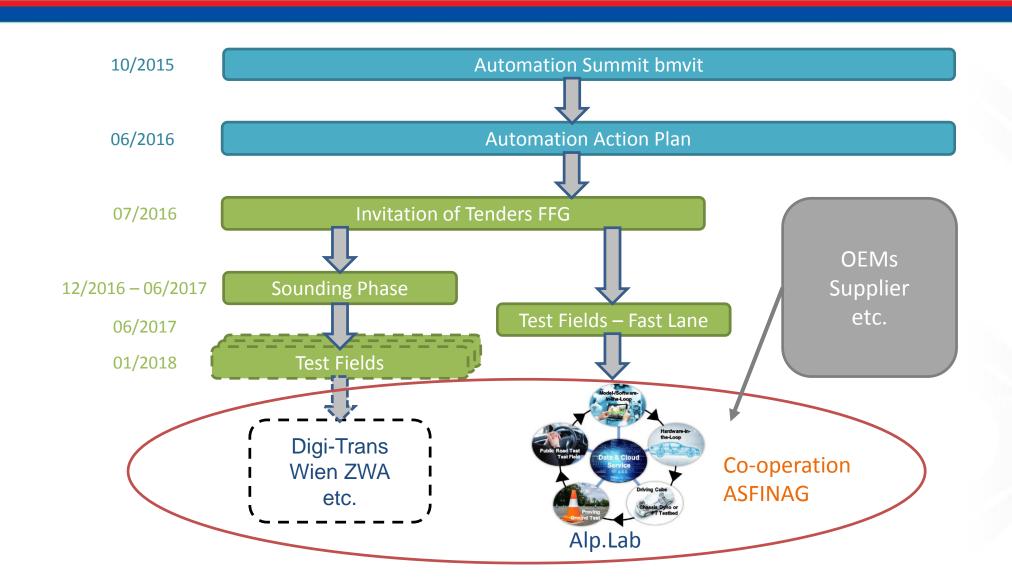
Ing. Mag. Bernd Datler ASFINAG Maut Service GmbH

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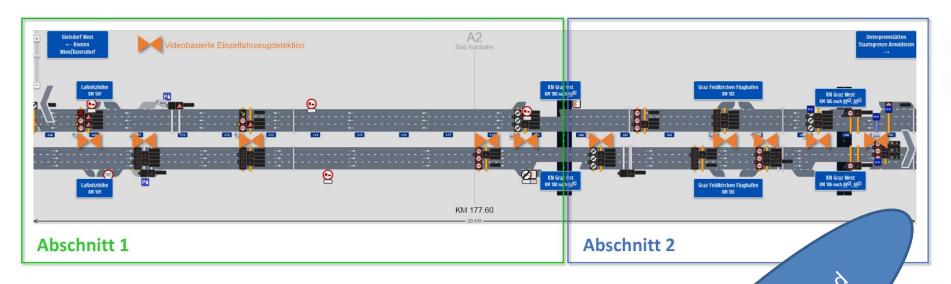
National Automation Action











- IKT infrastructure, Fibre Network
- HD video cameras with detection
- Traffic sensors with single detection (cross section)
- Radar sensor (stretch-related)
- Cloud solutions for infrastructure data
- HD road map and 3D model

JSP: Mixed traffic mated

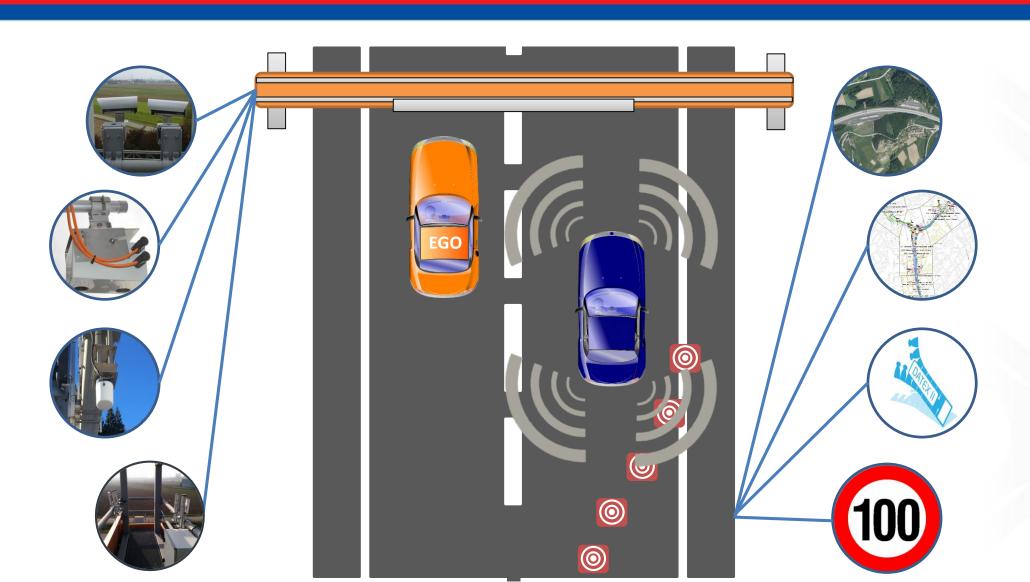
JSP: Mixed traffic mated

automated hor automated!

automated hor automated!

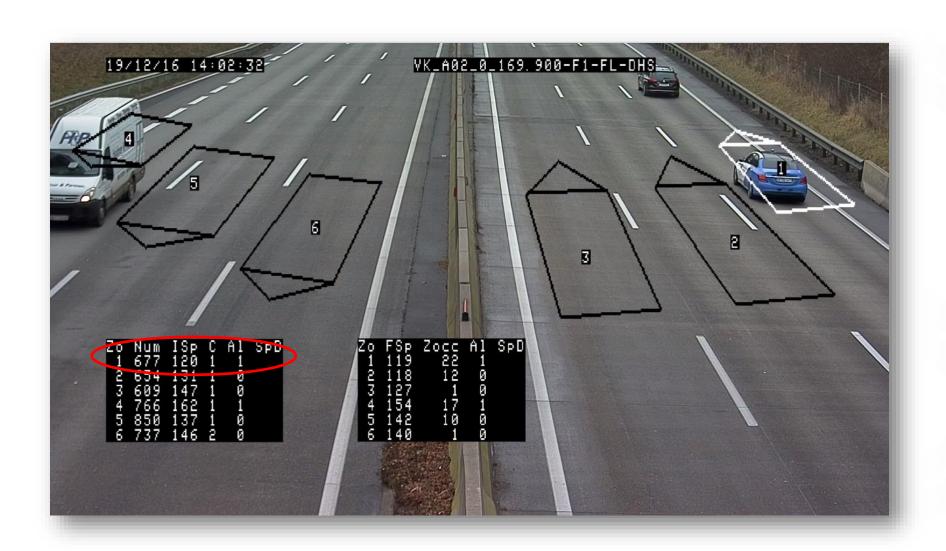
Infrastructure Data





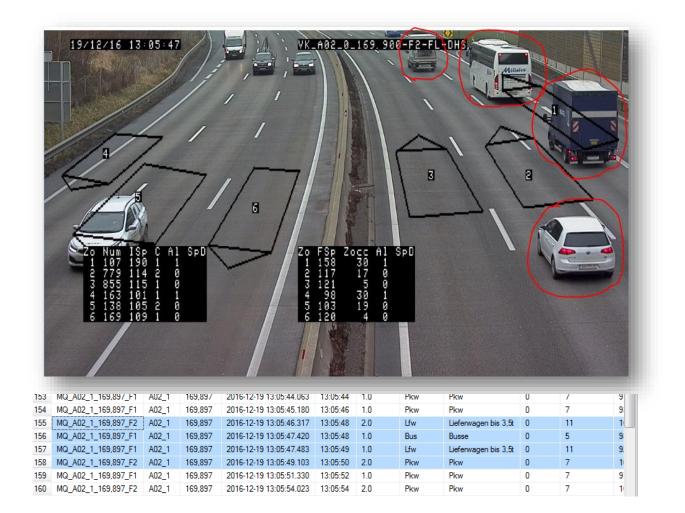
Video Detection





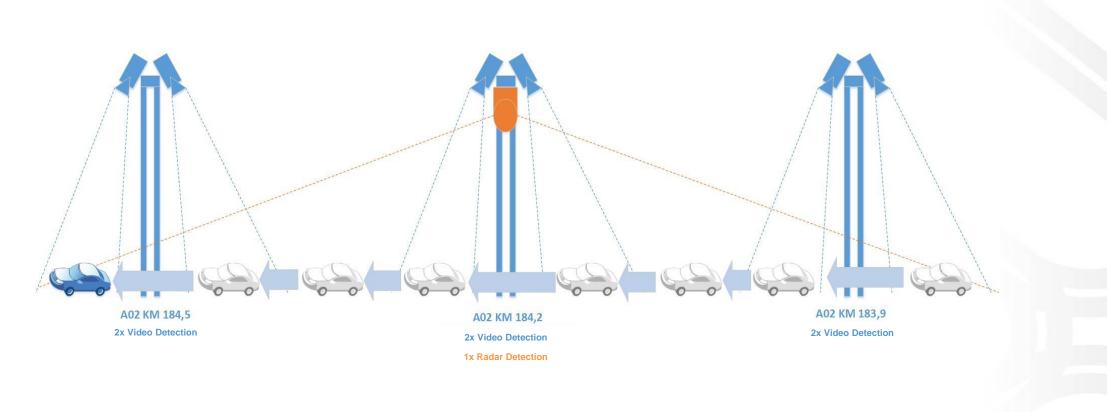
Single Vehicle Traffic Sensor Data





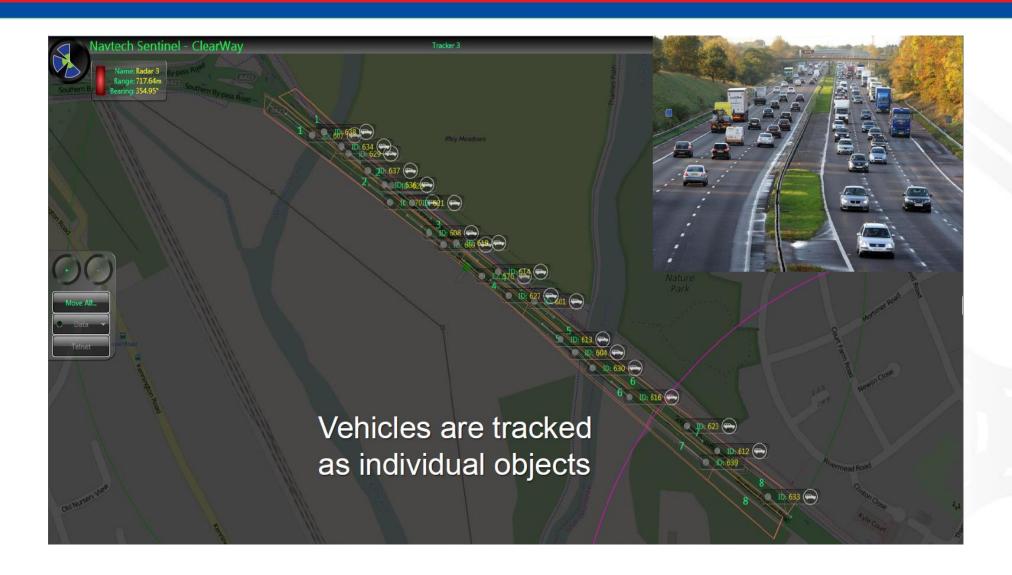
Radar Vehicle Detection





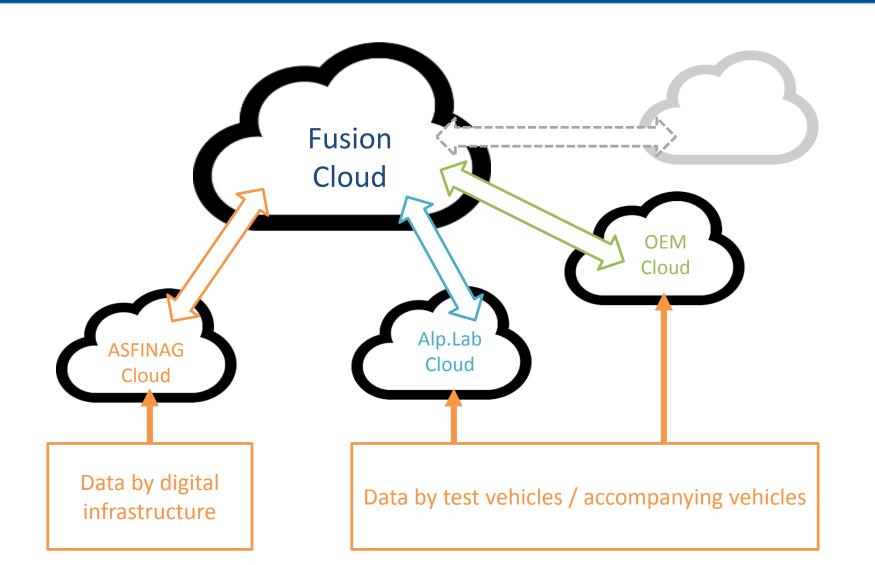
Radar Vehicle Detection Data





Data Distribution and Processing in the Cloud

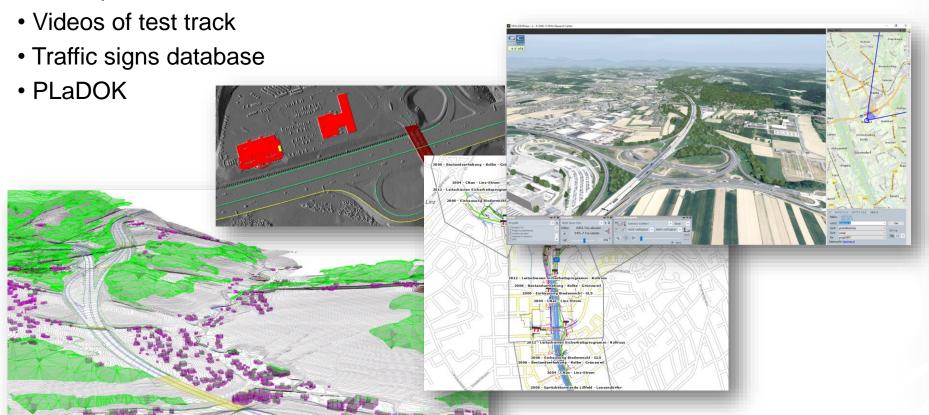




HR Road Map, 3D Model



- UV-Data (Environmental Noise Regulation)
- Ortho-photos



3D Model



Result:

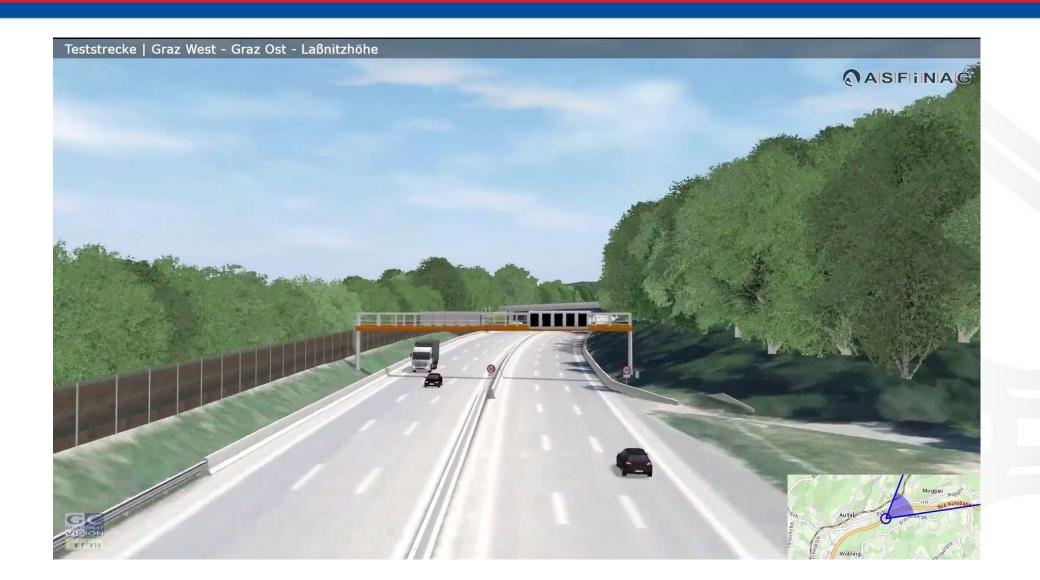
- Virtual 3D model of the section; Modular structure (scenarios and variants possible)
- Any location / view angle selection
- Atmospheric effects (fog, light-shadow-throw)
- Visibility analysis & measurement of distances & heights

Outlook:

- Presentation of actual traffic conditions
- Integration of video streams, exchange traffic signs, etc.
- Position, class and orientation of the vehicles
- Simulation of real traffic

Demo of a Future Road Map







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