

Johannes Springer, Chief Technology Officer, Connected Cars, T-Systems/Deutsche Telekom



Road Traffic: Digital environment











Connected Car Platform Operations millions of connected vehicles under global operations since > 10 years



Multi-Cloud provider



Partner of Microsoft Azure and aWS



under management

worldwide, 24/7

with > 30 MNOs and content providers. Expected growth to > 30 mio vehicles

Cloud-agnostic platform

approach based on Building Blocks

200 supported countries worldwide

- > 300 Microservices
- > 14.000 requests per second

> 10 years

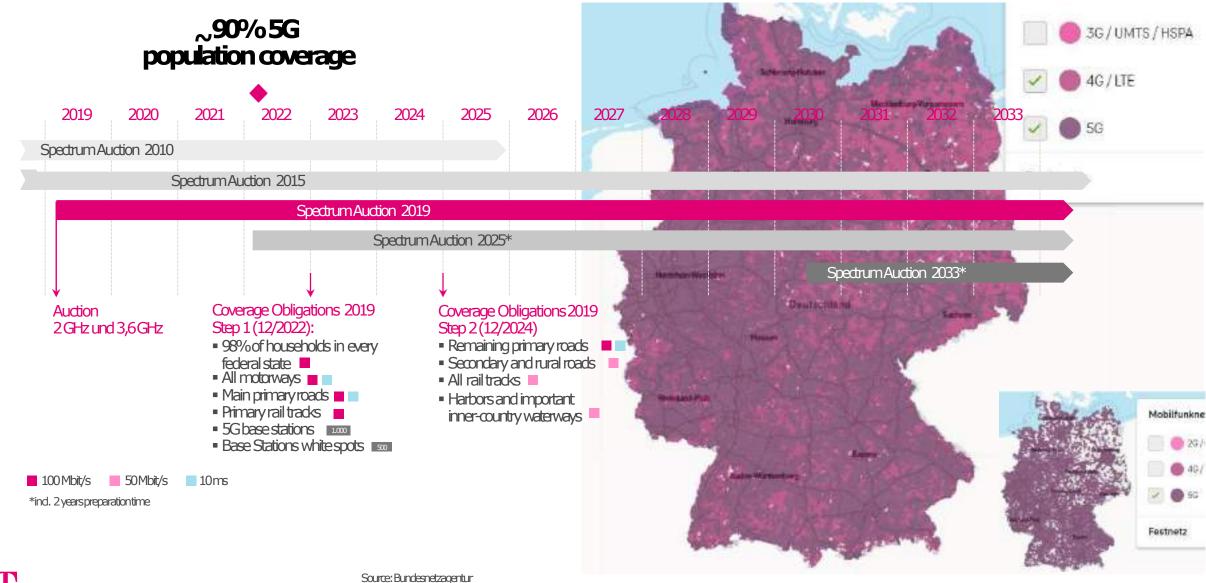
Expertise in Connected Mobility

DevOps & Cloudmigration experience for ConnectedBackends:

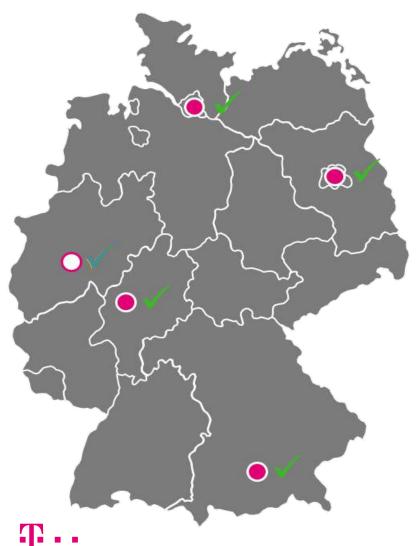
seamless cloud migration

< 5 months

Spectrum Auctions: → coverage (Example Germany)

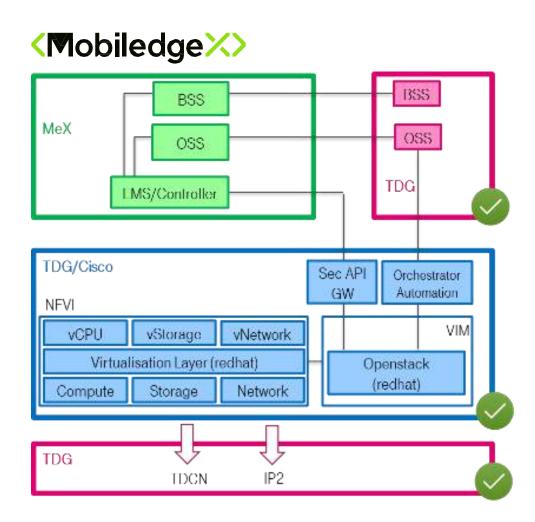


Multi-Access Edge (MEC) Data Centers in Germany



5 Edge data centers (cloudlets) deployed at coresites:

- Berlin
- □ Frankfurt
- Hamburg
- Munich
- Düsseldorf

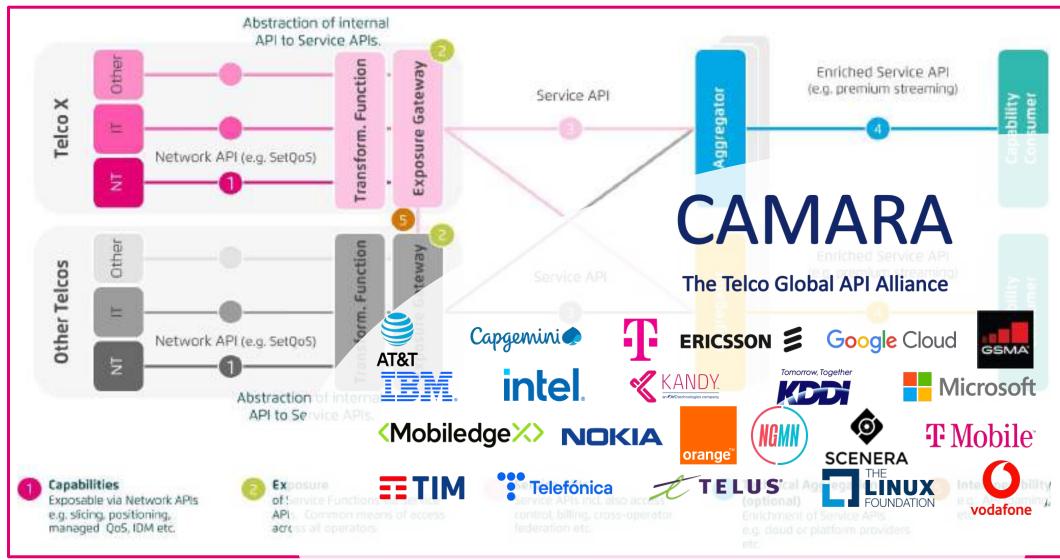


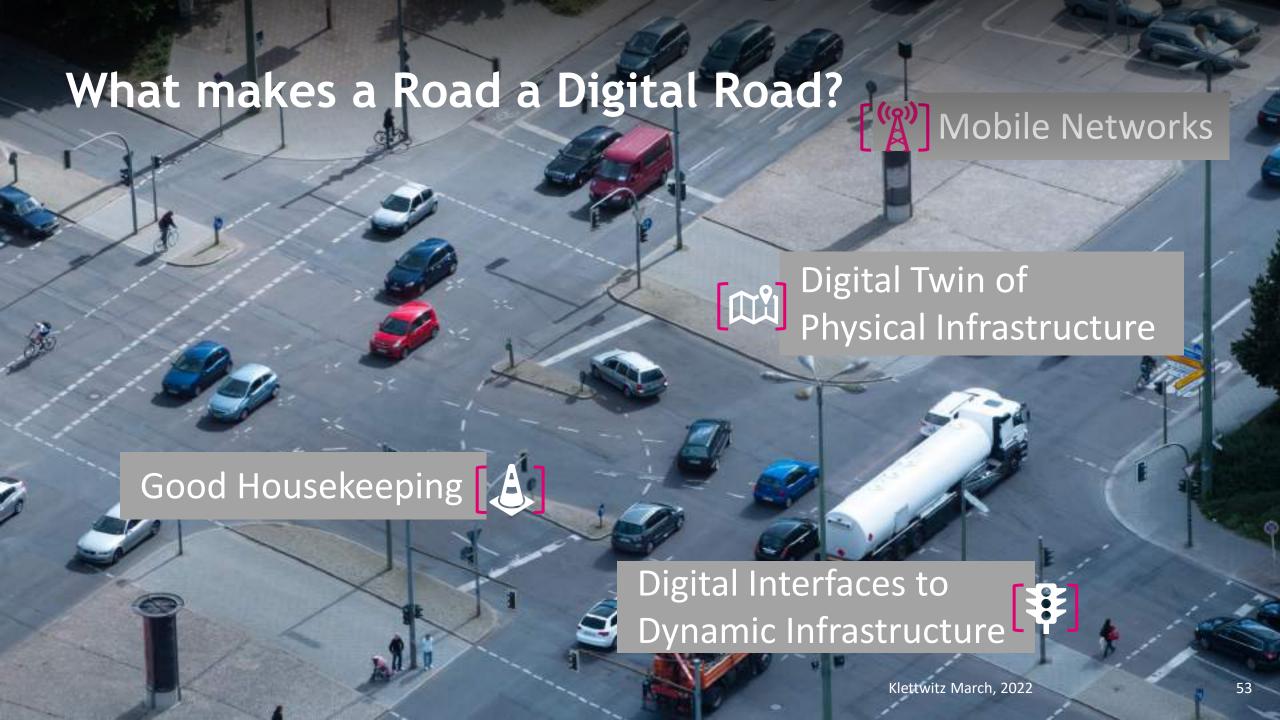
Klettwitz March, 2022

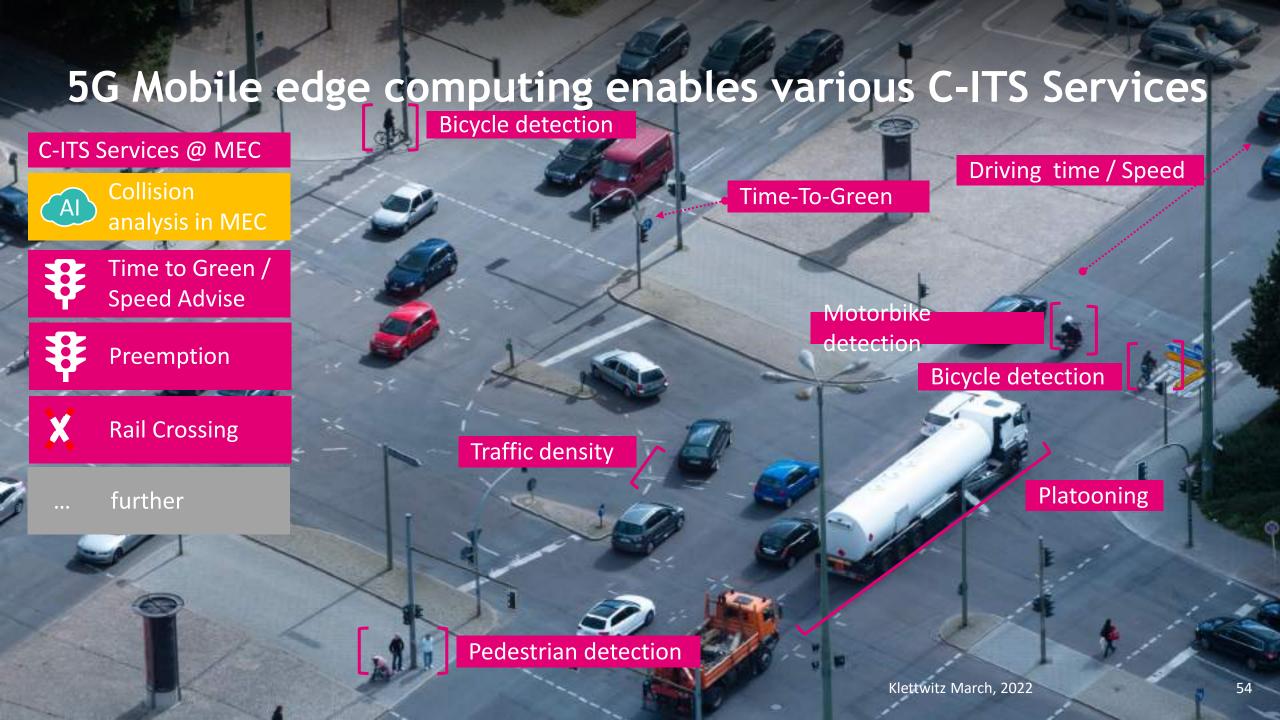




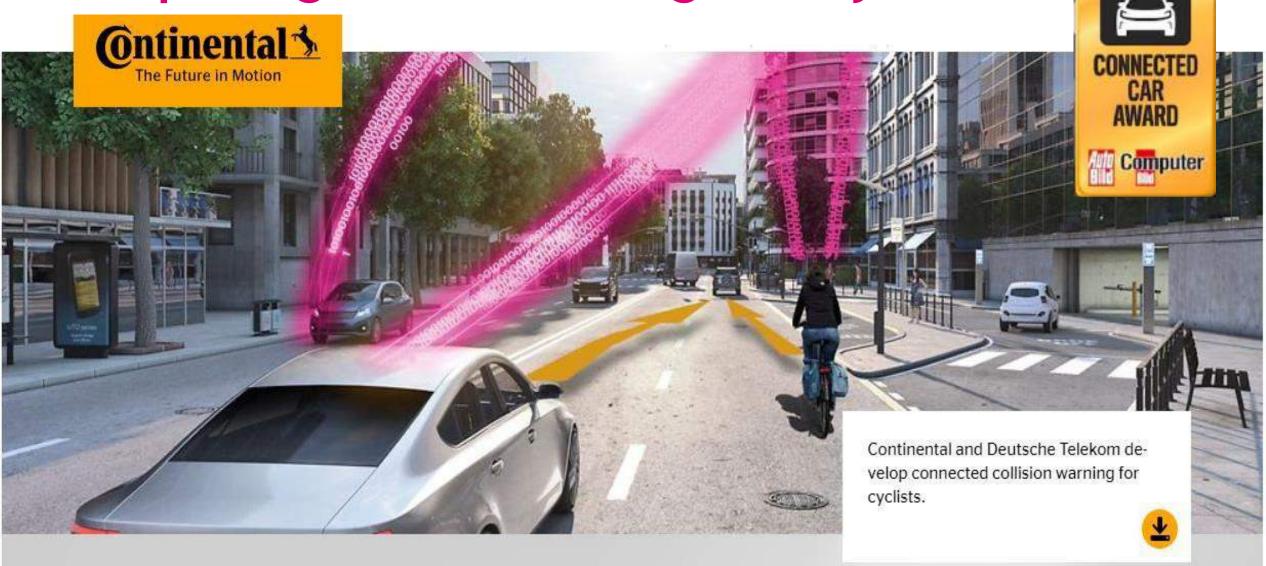
Network API's: exposure in a global world







Example: Digital Guardian Angel for Cyclists



Collaborative traffic services solution

ITS Services

TTG (Time to Green), incl Prioritization









Collision Warning

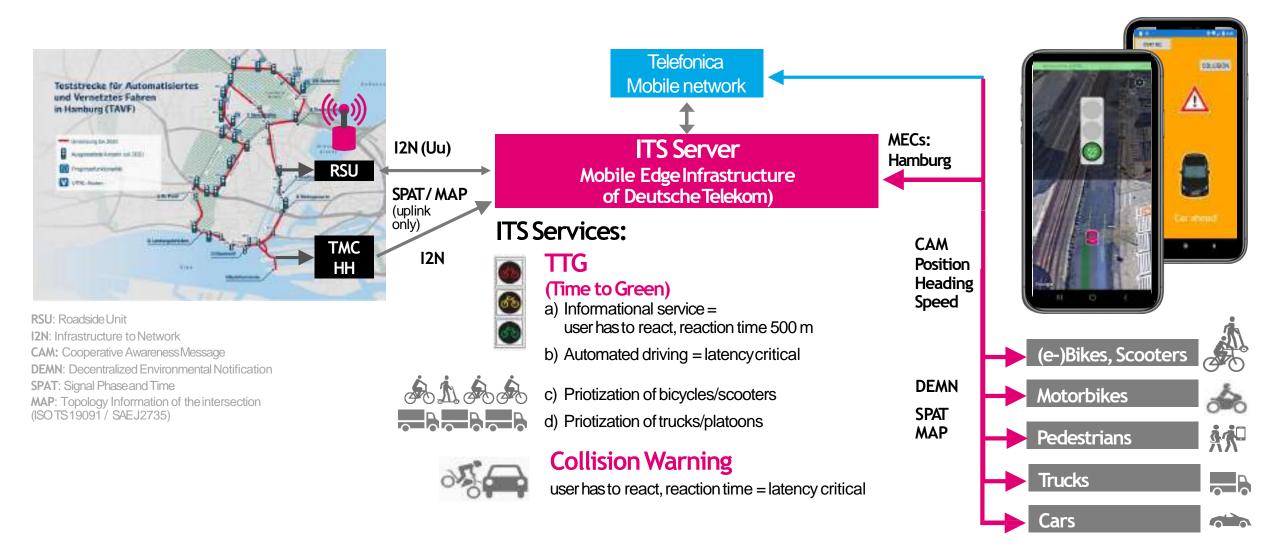
- Informational service = user has to react, reaction time 500 ms
- Automated driving = latency critical

- Prioritization of bicycles and scooters
- Prioritization of trucks and platoons

User has to react, reaction time = latency critical

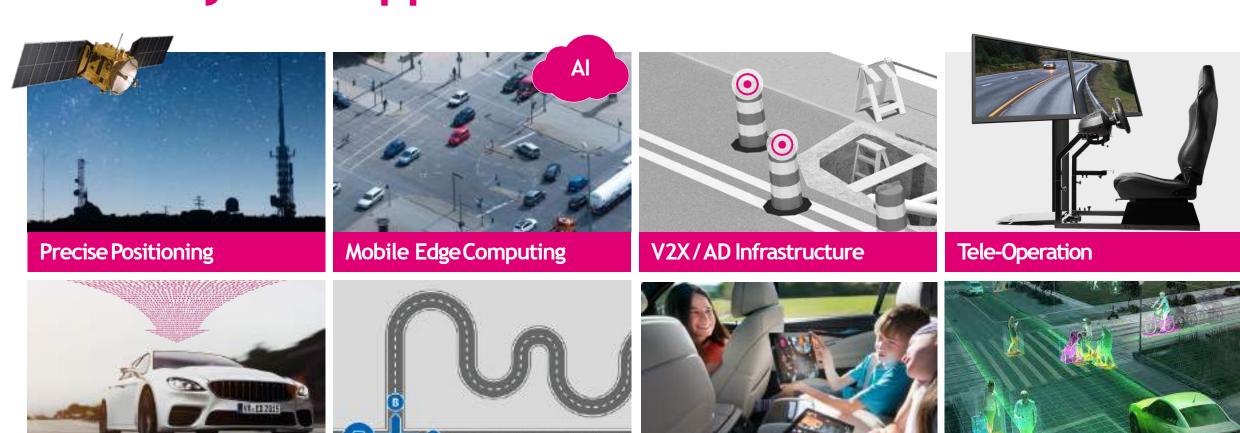
Collaborative traffic services solution

How does it work?





5G technology is an important driver of future mobility and supports the "C-A-S-E" vehicle



In-Car Broadband



OTADistribution

(Predictive) QoS

Virtual/Digital TestDrives

