

The Perfect Match between Infrastructures

The 5G Mobility Lab in Aldenhoven

The 5G Mobility Lab is a cooperation between Vodafone and Aldenhoven Testing Center, which is conveniently located between Düsseldorf and Aachen. This is the place where the most sophisticated open track assortment meets the newest mobile technology. This is where Vodafone is driving technology evolution from LTE-V2X to 5G. This is where Vodafone is empowering the vision of fully automated driving.

Fully Automated Driving

5G

- ✓ Extreme throughput: 20 Gbps (DL) & 10 Gbps (UL)
- ✓ High reliability: service availability of 99.999% & service continuity <1 ms
- ✓ Ultrafast reaction times: 1 ms end-to-end latency
- ✓ High availability via multi-connectivity for failure tolerance and mobility

2020

Highly Automated Driving

LTE-V2X

- ✓ More efficient resource allocation
- ✓ Increased situational awareness using messaging via the network
- ✓ Further enhanced V2V safety by rebroadcasting V2V info via network in high-density use cases

2018

Partly Automated Driving

4G LTE

- ✓ Edgeless connectivity
- ✓ Foundation for further LTE technologies

TODAY

Get Ready to Meet our Experts

**Get in touch with us and find
the best solution for your business.**

We help you explore new technologies such as connected mobility and support you in developing and growing your portfolio.

Simply contact our experts and discover more about the Vodafone Innovation Park.

Become a Ready Business. With Vodafone.

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Vodafone

5G MOBILITY LAB

Take a look into the future and see how Vodafone and its partners develop Gigabitnetworks for connected mobility.



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Vodafone
Power to you

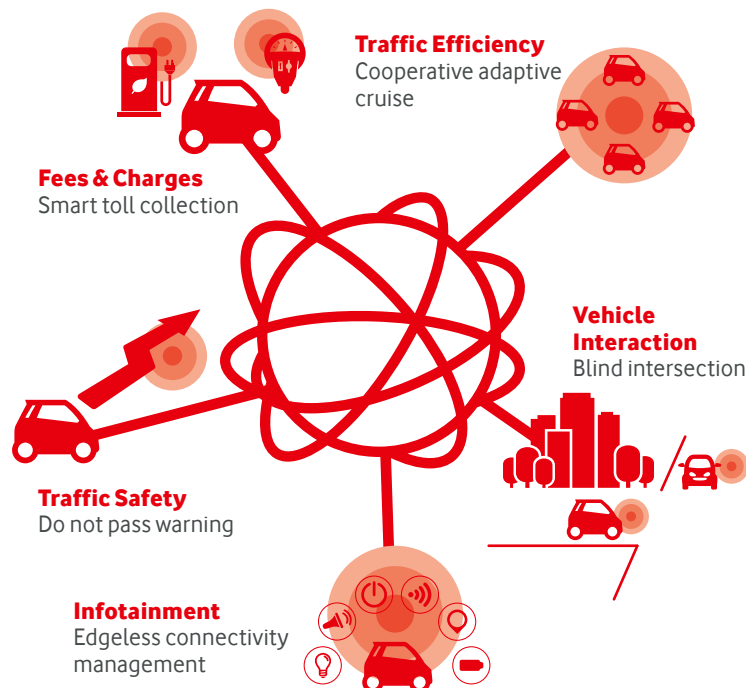
Redefining the Traffic of Tomorrow

What will mobility be like in the future?

In future mobility scenarios, low-latency and reliable communication play a central role: Autonomous vehicles, platooning and smart intersections are only possible if all road users have a comprehensive picture of their immediate surroundings.

5G is crucial for future traffic

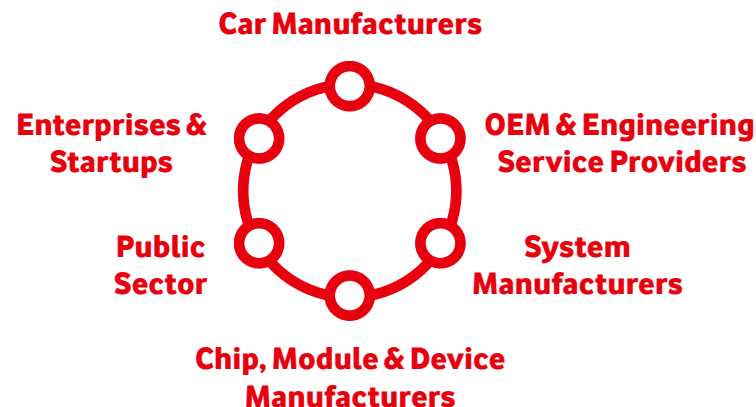
With the evolution of 5G in the upcoming years, the mobile network will deliver the necessary performance to connect the automotive or even the whole mobility ecosystem and finally enable fully automated driving and the associated use cases.



Enjoy Cutting-Edge Technology

Ideal for your testing purposes:

- ✓ **Combination of different track elements and cutting-edge mobile technology allows a variety of test scenarios under real-life conditions**
- ✓ **Infrastructure of the most important network equipment available from vendors on site**
- ✓ **Connectivity to external servers and possibility to host customer services and applications**
- ✓ **Connectivity to the Vodafone Innovation Park Labs with diverse network infrastructure**
- ✓ **Access to the connected mobility eco-system Aldenhoven Testing Center**
- ✓ **Open to all interested parties:**



Vodafone goes Automotive

Vodafone is extending its leading position in IoT to the automotive and mobility sector.

Today, we already power the Internet of Things on a global level through more than 54 million IoT connections worldwide. Our mission is to inject this proven heritage and unparalleled expertise from IoT now to the future of fully automated and connected driving.

The integration of Vodafone Automotive and several test beds in Germany demonstrate our sincerity in further developing this part of our portfolio. The next essential building block in our strategy towards the automotive sector is the 5G Mobility Lab, offering an open and unique environment for the whole ecosystem.

Automotive is definitely one of the most challenging industries with regards to competitiveness and also in terms of network requirements. But combined with the possibilities of IoT, I also see a tremendous growth potential, turning existing business models upside down and creating entirely new business opportunities.



Hannes Ametsreiter
CEO Vodafone Germany