

# Vodafone Innovation Park

## Home for 5G Technologies

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Vodafone Innovation Park



# The Multilayer GigaNetwork is our backbone to build an exciting future

**5G**

Future Layer

**IoT**

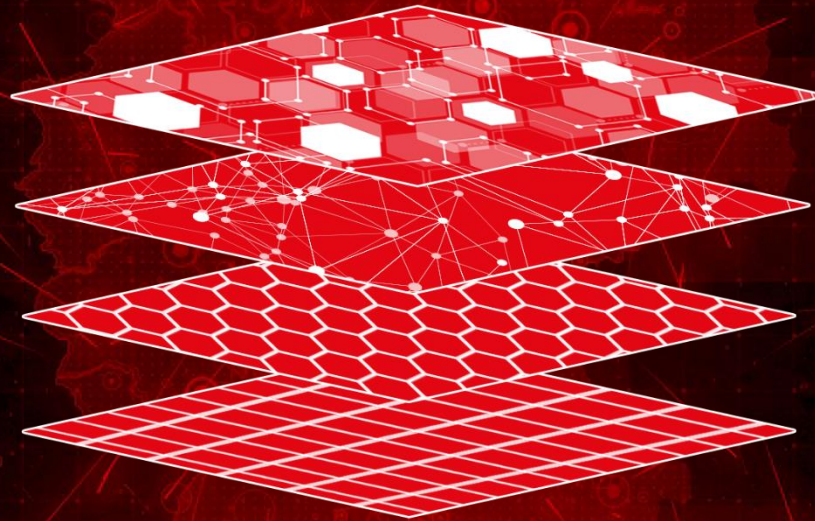
Machine Layer

**LTE**

Mobile Layer

**CABLE**

Home Layer





**By constantly improving each layer of our GigaNetwork we create an innovative converged experience**

## 5G

We will offer 5G for 20 million people by 2021.

## 4G | LTE

Every three hours we install a new LTE tower to reach 98% network coverage.

## IOT

Our IoT network already connects over 94 million things.

## CABLE – FIBER

We connect 25 million households with Gigabit speed by 2022.



# 5G. On Air



**ON AIR**

**140  
Antennas**



**ON AIR**

**40 Cities**



# Vodafone leading 5G projects in various fields



- 1 Skiing Speed Stunt
- 2 TUM Lab of Robotics
- 3 e.GO – Factory of the future
- 4 1<sup>st</sup> 5G Call
- 5 Teleoperated Train
- 6 AR-Case DFL Wolfsburg

**V**  
**5G**





# To make the TechCompany become reality new ways of working are required

## **Innovation**

Use technology to  
create new business  
opportunities

## **Learn by doing**

Co-developing with customers  
and business partners

## **Focus on outcomes**

Impact to customer first

## **Collaboration**

Cross-functional, self-organized,  
empowered teams

## **Iteration**

Short development  
cycles, incremental  
improvements



# Technology Innovation

## What it means to us

Direct

Growth

Indirect

**Pioneer**

make us a better company

**Business Enabler**

foster new business

3

2

1

**Promotor**

purpose-LED PR

**Translator**

explore new technology

Internal

Impact

External



# Our Innovation Platform

## The Vodafone Innovation Park

**Mobile Lab**  
Düsseldorf

**5G Lab**  
Düsseldorf

- Innovation Garage
- Innovation Showroom

**IoT Future Lab**  
Düsseldorf

**5G Mobility Lab**  
Aldenhoven

**Fixed Access Labs**  
Berlin  
Cologne  
Stuttgart

**Enterprise Lab**  
Frankfurt

**Video Lab**  
Munich





# 5G Lab | Showcasing, Prototyping, Co-Labs Promotor



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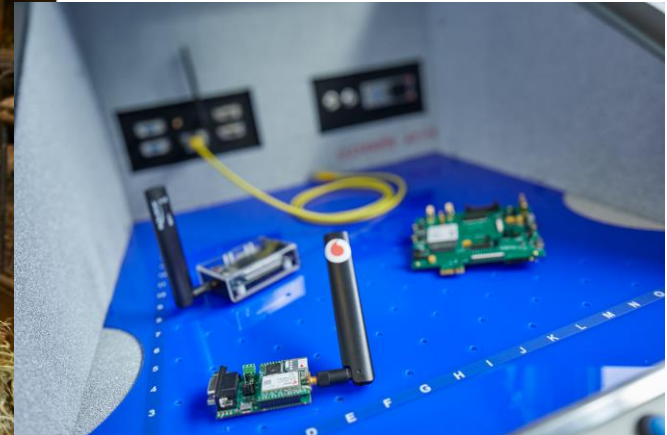


# IoT Future Lab | The machine network Translator



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10



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# Mobility Lab Aldenhoven | Automotive & Drones

## Pioneer





# Product development squads

## Business enabler



### Cross functional teams

Different departments working together as one team on the solution



### 3 Squads

Private Networks, Network Slicing and MEC



### Product Development

Based on the **Business insights** and guided by the customer requests



### Agile

Working in an **agile framework** to reach results in a faster and more flexible way



### Building Blocks

Generic **off the shelf solutions** to match different customer demands



# Results so far ...

> 25 Showcases

> 60 Certifications

5 Prototypes

3 MVPs 5G

> 20 Events

> 600 Million

Media Reach

> 3,000 visitors in the lab

since May 2018



A group of people are standing on a rooftop terrace with a wooden deck, looking out at a vast landscape under a sunset sky. A large, stylized red 'C' is drawn over the scene, framing the central text. The terrace has a dark railing and is partially covered by a dark overhang.

Thank you