Federal Ministry
of Transport and
Digital Infrastructure

# Making 5G a success in Germany

National policies to promote the development of Germany to become a lead market for 5G networks and applications

Federal Ministry
of Transport and
Digital Infrastructure

# 5G as key lever for the gigabit society

- Economy and society soon shaped by information and communications technologies

- 5G is key lever for gigabit society

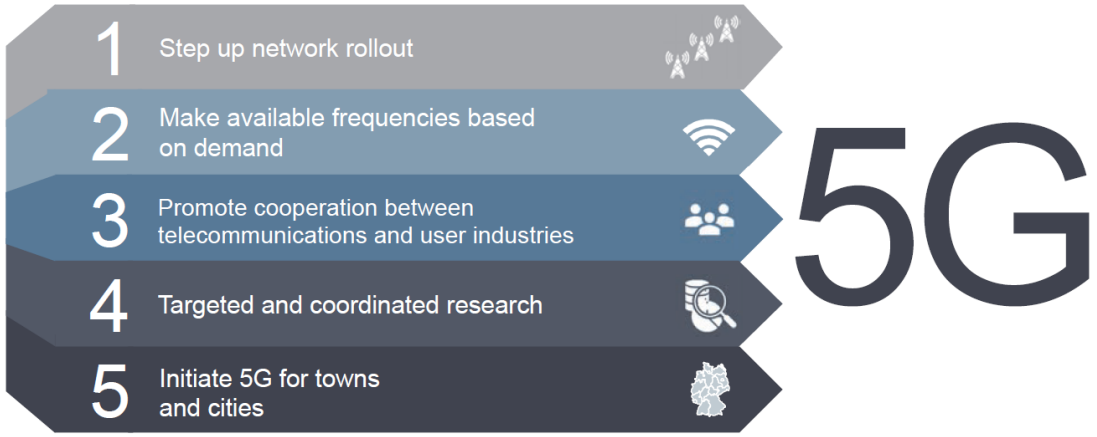
- Keep up global race for leading markets in tech industries.

- Our goal: 5G fully implemented in Germany by 2025

Federal Ministry
of Transport and
Digital Infrastructure

# 5G-Srategy for Germany

- Launched by the German Federal Government in July 2017
- Describes political goals and fields of action
- The five fields of action are:



Federal Ministry
of Transport and
Digital Infrastructure

# Five Fields of Action (1)

**Step up network rollout (especially fibre optic cable)**

- Facilitate connection of base stations via fibre optic cables
- Enhance co-usability of passive carrier infrastructures for 5G cells
- Create lean approval and decision-making processes

Federal Ministry
of Transport and
Digital Infrastructure

# Five Fields of Action (2)

**Make available 5G frequencies**

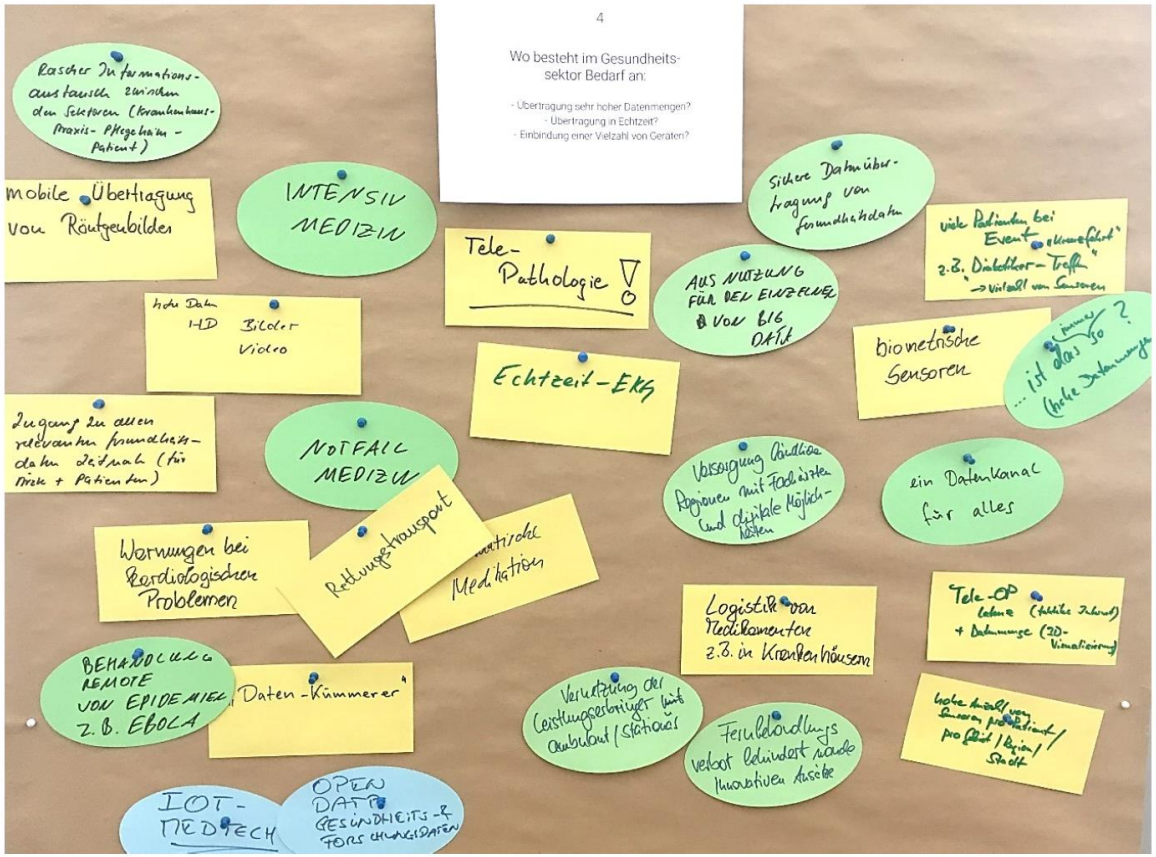
- Step up harmonization of 5G spectrum at a global and European level
- Make available spectrum below 6 GHz
- Create planning certainty for the 26 GHz band early on
- Promote use of 700 MHz
- Make available test frequencies

# Five Fields of Action (3)

**Promote cooperation between telecommunications and user industries**

- Hosted „5G Dialogue Forum“
- Actively support the standardization process

# Mind mapping



Federal Ministry
of Transport and
Digital Infrastructure

# Five Fields of Action (4)

**Support 5G research**

- Support and fund research and development activities within the scope of 5G applications
- Connect and coordinate research activities in Germany
- Eg. „A9 Digital Motorway Test Bed“ programme

Federal Ministry
of Transport and
Digital Infrastructure

# Map showing 5G research activities in Germany

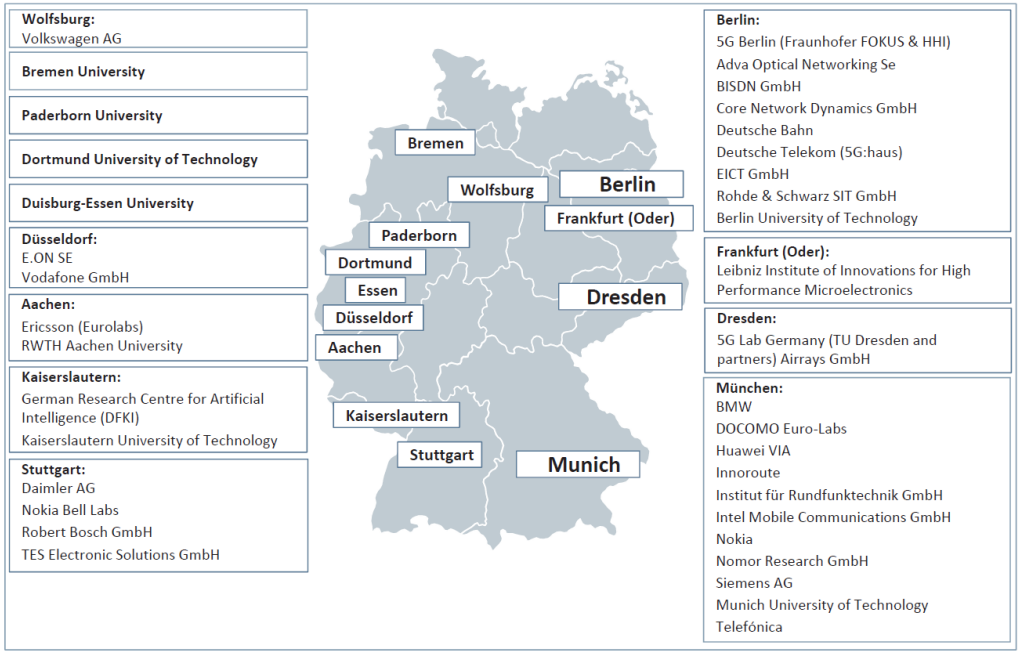



Figure 9 – 5G research centres in Germany (selection)
Source: Federal Government

Federal Ministry
of Transport and
Digital Infrastructure

# Five Fields of Action (5)

**Initiate 5G for cities and municipalities**

- 5G offers solutions to societal challenges
- Cities, municipalities and counties should have necessary awareness, expertise and financial means to build 5G-hubs
- Organize a 5G competition → „5x5G Competition“

# 5G for smart regions


Figure 10 – 5G application examples for municipalities
Source: Federal Government

Thank you for your attention!

5G Strategy on the Internet:
http://www.bmvi.de/goto?id=258024

Federal Ministry of Transport
and Digital Infrastructure

Invalidenstraße 44
D-10115 Berlin

**www.bmvi.de**