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# Industrial 5G



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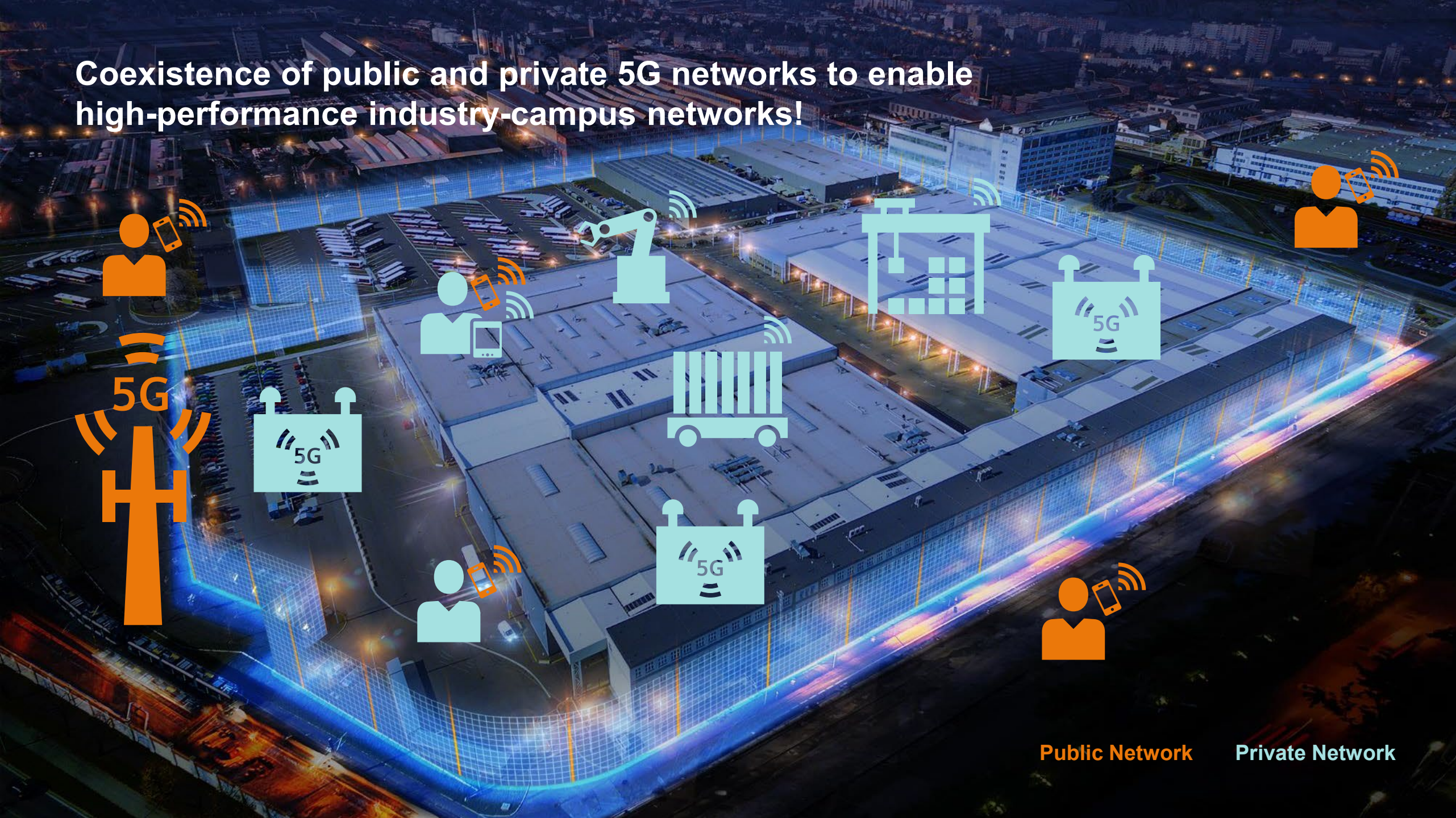
Coexistence of public and private 5G networks to enable high-performance industry-campus networks!
5G
5G
5G
5G
Public Network
Private Network

# Industrial 5G can use different infrastructures. Which one is right for your application?

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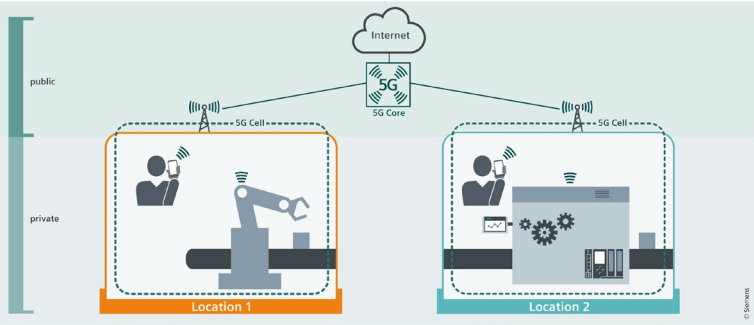
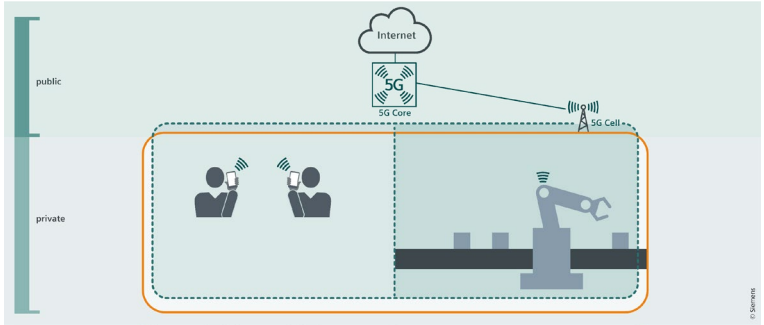


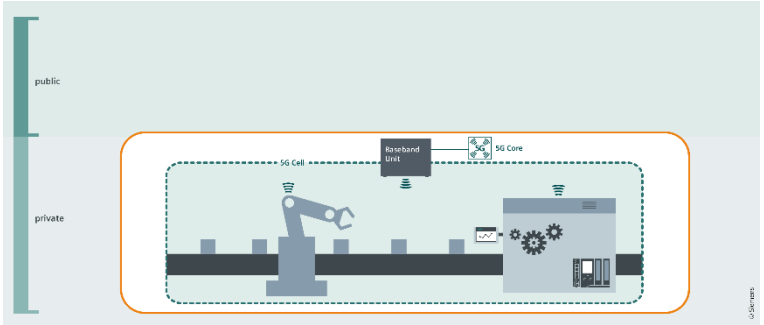

## Public network

- Managed by Mobile Network Operator
- Production data leaves the premises
- Large coverage area
- Suitable for remote maintenance and monitoring




## Semi-public network

- Managed by Mobile Network Operator
- Production data partially leaves the premises
- Large coverage area
- High bandwidth
- Suitable for remote maintenance and monitoring




## Private network

- Managed by the end-user (Production facility)
- Optimal data privacy, data stays on premises
- Highest reliability
- Highest real-time behavior
- No interference from other devices/networks

# For Industrial 5G networks a private frequency band is recommended

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- Ownership and responsibility of the wireless network in the production facility:
  - Added flexibility by self management, important for the flexible factory of the future
  - Qualified staff with OT-knowledge on-site allowing for 24/7 support and maintenance of the network
- Maximum data-privacy:
  - Data stays on-premises
  - Protection of trade secrets, production data and patents
- Only possibility to support ultra-reliable and low-latency communication
- Dedicated network for industrial use
- Interference free wireless network

# Industry-specific spectrum is necessary. Is Germany an example for other countries?

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**3,40 – 3,70 GHz**
**Licensed**
- 5G public
- 5G local

**5,125 – 5,875 GHz**
**Non-licensed**
- WLAN
- LTE-U

**24,25 – 27,50 GHz**
**Licensed**
- 5G public
- 5G local


**2,40 – 2,48 GHz**
**Non-licensed**
- WLAN
- Bluetooth
- ZigBee

**3,70 – 3,80 GHz**
**Licensed**
Private 5G band in Germany

Possible private 5G band in Germany (discussion started)