5G Private Mobile Networks

Jan Hirš,
T-Mobile CZ, Director for Industry 4.0
Target picture: 5G enables increased bandwidth, more connectivity and even better reliability

- **Massive broadband**: Extreme data rates up to 20 Gbit/s, High capacity 10 Tbit/s each km²
- **Massive machine communication**: Excellent energy efficiency 10 years battery life, High density 1 mn end devices/km²
- **Critical communication**: Very high reliability up to 99.999 %, Low latency < 10 ms
- **Precise positioning**: Precise positioning < 10 cm precision
- **User mobility**: User mobility up to 500 km/h
The connected factory with Campus Networks
Campus Networks as basis for the entire local ecosystem

Campus Network

Plattform Services
- IoT
- Edge
- Security
- Cloud

Factory Automation
- Operation Monitoring
- AGV Steering
- Fault Diagnosis

Process Automation
- Predictive Maintenance
- AR Glasses
- Sensors
- Flexibilization
- Process Control

Smart Building Automation
- Power Monitoring
- Energy Management

- IoT
- Edge
- Security
- Cloud
Ecosystem of INDUSTRY 4.0

Architecture

Services
- Consulting
- Products
- Computing
- Connectivity

Security
- PLACE
- T-Vision
- EDI365
- On Prem
- Edge Cloud
- Public Cloud

5G CN
- 5G
- 4G
- NB-IoT
- WLAN

3rd Party Solutions

3rd Party Connect.
In operation
- 4G/LTE
- 5G NSA
- 5G NSA mmWave 26 GHz
- Edge Cloud

In preparation:
- Industrial IoT
- 5G SA

In operation
- 5G SA – 2nd testbed in Europe
- Edge Cloud
- Industrial IoT

In progress:
- 5G SA
- Industrial IoT

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- 5G SA
- Industrial IoT

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- 5G SA
- Industrial IoT