



5G Alliance for Connected Industries and Automation

Industrial 5G Use Cases & Key Enablers

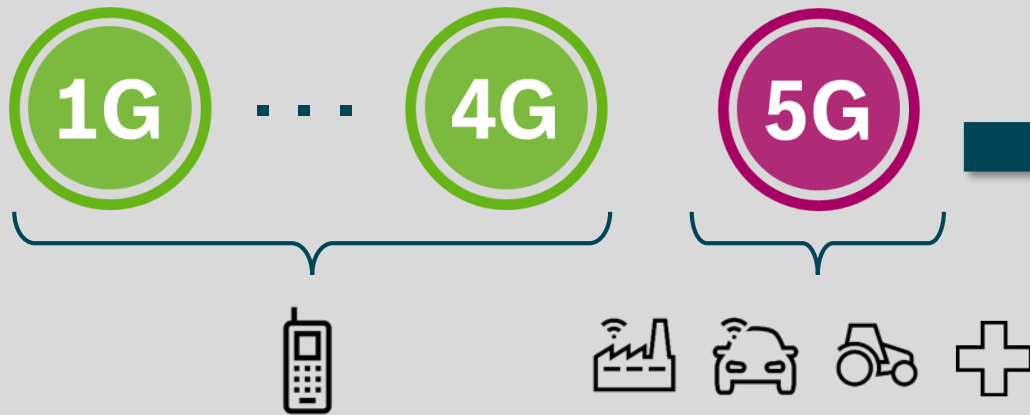
Dr. Andreas Mueller (Bosch) | General Chair of 5G-ACIA

23 October 2020

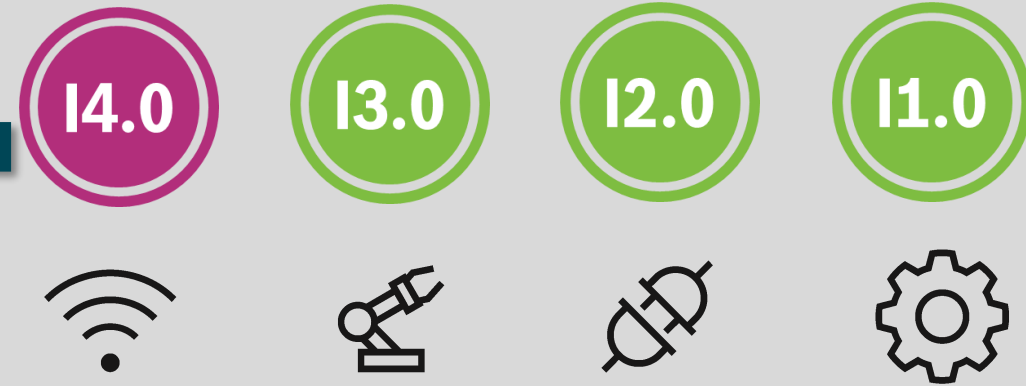
5G Alliance for Connected Industries and Automation

The Role of 5G for Industry 4.0

The Evolution of Mobile Communications



The Four Industrial Revolutions



5G Factory

Higher Flexibility

Higher Efficiency

Higher Productivity

Higher Ease-of-Use

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Potential Application Areas of Industrial 5G



**Mobile & Portable
Assets**



**Moving &
Rotating Parts**



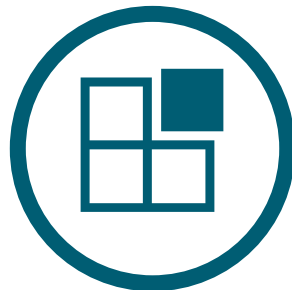
**Wireless
Sensors**



**Human-Machine
Interaction**



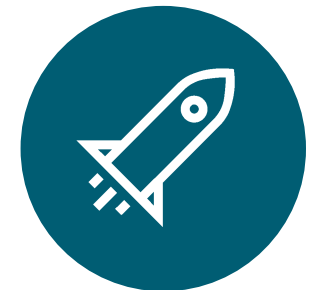
**Positioning
& Tracking**



**Modular
Production**



**Retrofit
Solutions**



**One Size
Fits All**

5G Alliance for Connected Industries and Automation Important Enablers for Industrial 5G

RETRIEVING DATA ...



**Industrial-Grade
QoS¹**



**Solid QoS¹
Differentiation**



TSN²-over-5G



**Non-Public
Networks**



**Integrated
Positioning**

¹Quality-of-Service ²Time-Sensitive Networking



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