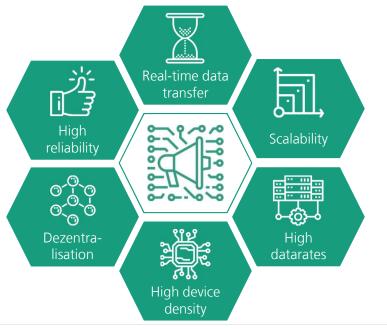


5G Audit | 5 Steps to 5G

5G technology offers great potential for the production

Communication systems as the basis for the factory of the future

To realize the vision of a highly flexible and networked manufacturing system, communication systems require the following characteristics:



5G as future communication standard for production







Enhanced mobile broadband

20 Gb/s Downlink max.

10 Gb/s Uplink max.

10 Tbps pro km² Capacity Ultra-reliable and low latency communication

<1ms Latency

99,999% Reliability

500 km/h Mobility Massive machine type communication

100x Connected devices

~ 15 Jahre Battery run-time

1.000.000/km² Device density

5G technology offers enormous potential for the production

5G is the first mobile standard that meets the requirements of future industry





5G-Audit Modules

Module 1



EXPERIENCE DAY IN AACHEN



1 day

Module 2



PROCESS IDENTIFIKATION

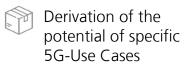


2-5 days

Module 3



POTENTIAL ANALYSIS



1-3 days

Module 4



ROADMAPPING & IMPLEMENTATION STRATEGY



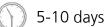
3-5 days

Module 5



IMPLEMENTATION SUPPORT









Module 1 – Experience Day in Aachen



Objectives



- Gain deep insights into industrial 5G applications
- Knowledge about industrial 5G applications
- Well-founded derivation of potentials for the production





- Presentation of 5G technology and possible applications
- Guided tour on the *5G-Industry Campus Europe* in Aachen
- Presentation of currently implemented 5G-Use Cases

Output



- Getting to know the currently implemented 5G-Use Cases of 5G-Industry Campus Europe
- Insights into the current state of technology & generation of practical knowledge using concrete implementation examples



Duration

1 day





Module 2 – Process Identification



Objective



Identification of possible use cases & processes in your production that can be optimized by using 5G technology

Approach



- Joint classification of the company's processes regarding possible
 5G-Use Cases
- Technical analysis of the identified processes with regard to the need for 5G

Output



Identification of potential 5G-Use Cases for your company



Duration

2-5 day

Module 3 – Potenzial Analysis





Objective

Analysis & derivation of the added value that can be realized in your company using 5G technology

Approach



 Economic analysis of the identified 5G use cases specifically tailored to your production

Output



- Derivation of the economic potential of specific 5G-Use Cases
- Business Case Analysis of the specific Use Cases



Duration

1-3 days





Module 4 - Roadmapping



Objectives



- Customized implementation plan of the economically promising
 5G-Use Cases for your company
- Roadmap for the successful roll-out of 5G & ensuring of the integration into your current production

Approach



- Consideration of essential aspects for the integration of 5G into an existing production
- Discussion of different aspects of 5G network architectures & derivation of possible implementation strategies

Output



 Concrete implementation strategy for the realization of the identified & economically evaluated 5G-Use Cases for your production



Duration

3-5 days

Module 5 – Implementation Support



Objectives



- Testing of 5G applications through the realization of 5G demonstrators or 5G-Use Cases
- Roll-out of an own private 5G network for your production

Approach



- Active support in the implementation of 5G applications and the roll-out of your private 5G network
- Realization of tailor-made demonstrators or 5G-Use Cases

Output



Realized 5G-Use Cases in your company



Duration

5-10 days



Are you interested? – Your contact persons





