### Mobile Network Testing 5G PRIVATE NETWORKS

Ensure optimum QoS & QoE performance for human & machine end-users in business critical networks

#### **ROHDE&SCHWARZ**

Make ideas real

## 5G Private Network Testing 5G PRIVATE NETWORK VERTICALS







### **5G PRIVATE NETWORK DEPLOYMENT & TEST PHASES**



Rollout preparation

Acceptance

Performance & service level verification

Troubleshooting

Incl. clean spectrum & eliminate interference Test & tune network performance to meet defined KPIs

Perform regular KPI verification tests

Monitor network performance

Test & identify root cause of network issues



#### 5G Private Network Testing

### SOLUTIONS FOR ALL PHASES OF 5G PRIVATE NETWORKS

Ensure optimum QoS & QoE in private networks for human and machine end-users

#### Research & Engineering

Rollout preparation	Acceptance	Performance & service level verification	Troubleshooting
Spectrum clearance & interference hunting inside the factory, survey of surrounding networks	Passive RF & active tests. Tuning network performance to meet customer KPIs (acceptance report)	Predictive maintenance by either regular per- formance verification or 24/7 autonomous moni- toring with trend analysis	Detailed passive RF & active tests on site to identify root cause of network issues

R&S®FPH, R&S®5G STS

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R&S<sup>®</sup>5G STS, QualiPoc Android QualiPoc Android, SmartMonitor R&S<sup>®</sup>PR200, R&S<sup>®</sup>5G STS, QualiPoc Android, SmartAnalytics

## 5G Private Network Testing AIRPORTS USE CASES & TEST SCENARIOS





#### 5G Private Network Testing AIRPORTS Ensure optimum QoS/QoE performance for human & machine end-users

Unmanned aerial network coverage & performance testing

In-field passive & active QoS/QoE performance testing

### 5G Private Network Testing ENERGY UTILITIES USE CASES & TEST SCENARIOS



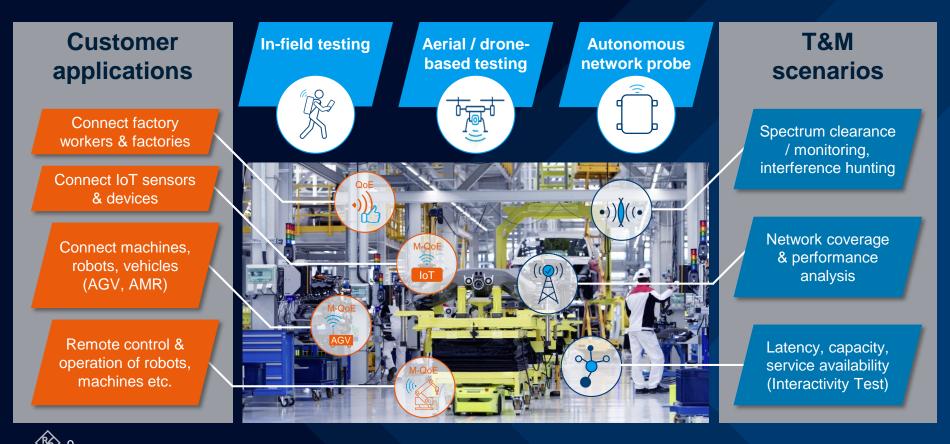
## 5G Private Network Testing ENERGY UTILITIES

Ensure optimum QoS/QoE performance for human & machine end-users

Unmanned aerial network coverage & performance testing

In-field passive & active QoS/QoE performance testing

### 5G Private Network Testing MANUFACTURING USE CASES & TEST SCENARIOS



# 5G Private Network Testing MANUFACTURING

Ensure optimum QoS/QoE performance for human & machine end-users

Unmanned aerial network coverage & performance testing

Autonomous network probe(s) for 24/7/365 QoS/QoE monitoring

> In-field passive & active QoS/QoE performance testing

### 5G Private Network Testing PORTS USE CASES & TEST SCENARIOS





#### 5G Private Network Testing PORTS

Ensure optimum QoS/QoE performance for human & machine end-users



### 5G Private Network Testing REFINERY / CHEMICAL USE CASES & TEST SCENARIOS





#### 5G Private Network Testing REFINERY / CHEMICAL Ensure optimum QoS/QoE performance for human & machine end-users

Unmanned aerial network coverage & performance testing

In-field passive & active QoS/QoE performance testing

### 5G Private Network Testing MINING USE CASES & TEST SCENARIOS



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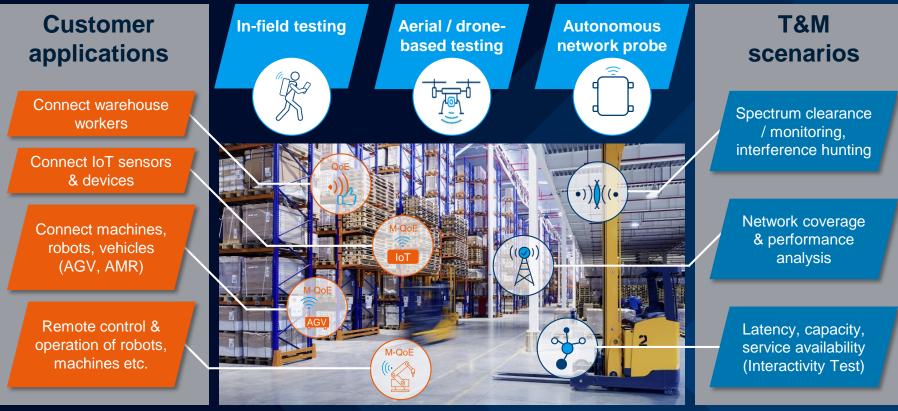
### 5G Private Network MINING Ensure optimum QoS/QoE performance for human & machine end-users

Unmanned aerial network coverage & performance testing

16

In-field active & passive QoS/QoE performance testing

## 5G Private Network Testing WAREHOUSES USE CASES & TEST SCENARIOS





# 5G Private Network Testing WAREHOUSES

Ensure optimum QoS/QoE performance for human & machine end-users

Autonomous network probe(s) for 24/7/365 QoS/QoE monitoring

In-field passive & active QoS/QoE performance testing

Unmanned aerial network coverage & performance testing

### Find more information here www.rohde-schwarz.com/mnt/private-networks

