Energy & 5G meeting

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Pôle Télécom, Enedis

- [x] Libre
- [ ] Interne
- [ ] Restreinte
- [ ] Confidentielle

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Radio Systems' challenges to be taken up by DSO

Nation wide radio coverage

Augmented Reality

New ways of working in mobility

Connectivity on every sites
with improved service level

Existing PMR solutions will become **outdated**

More and more devices

Proprietary networks are **expensive** and run into **legal constraints**

DSO may rely on Telecom Operators' Managed Services

Overview of a few services enabled by 5G

Site availability improvement

Provide WAN Backup to **primary distribution substation and other critical sites**

- **Automatic handover**
- **Equal service level** (Bandwidth, Latency, QoS)

WAN Connectivity to every sites

Connect ~750.000 **secondary distribution substations** at affordable OPEX and high availability

- **National roaming** with real-time handover
- **Traffic prioritization** in case of congestion
- **Always-on network** even when terrorist incident

IoT Network

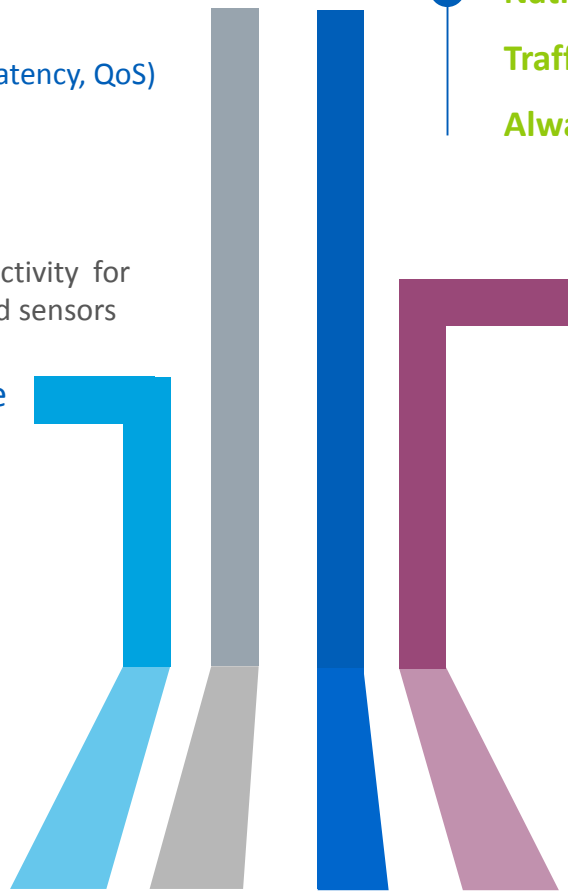
Provide low power, low cost, secured connectivity for line fault detection system and other connected sensors

- **Nationwide Deep indoor** coverage
- Higher **security** level
- Devices **interoperability**

Crisis communications enhancement

Provide a reliable data + voice network (PMR)

- 5G **autonomous cell** capabilities
- **Nationwide** coverage



Key points to make Telco's 5G a success for DSO

Nation wide coverage, not only in urban areas

DSO grade 5G network slice to serve specific services

Legal agreement to enable Real-time Roaming and trafic priority

In the future, people & things will be always more connected

There is no doubt: Telcos are going to provide the accurate service level

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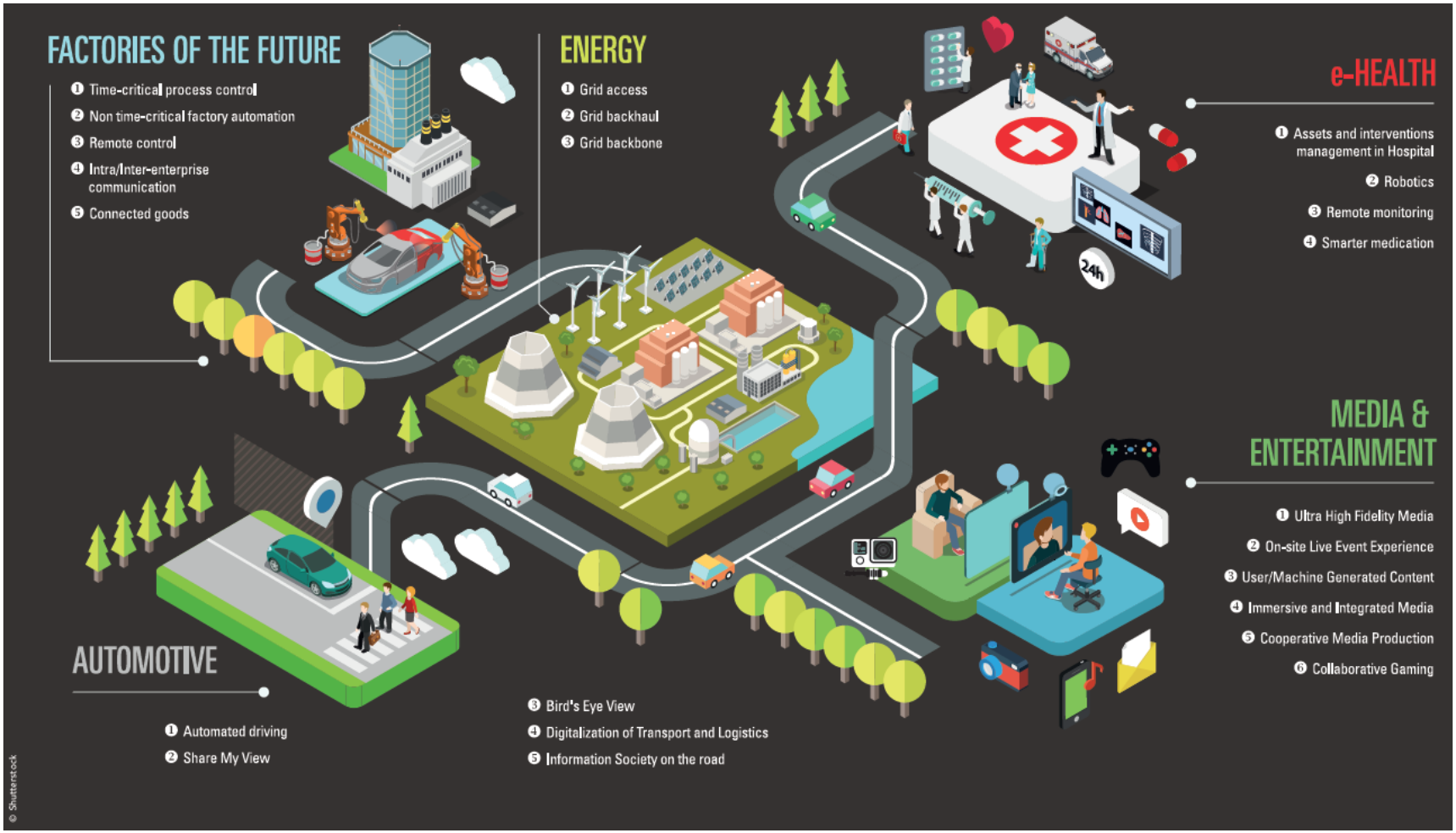
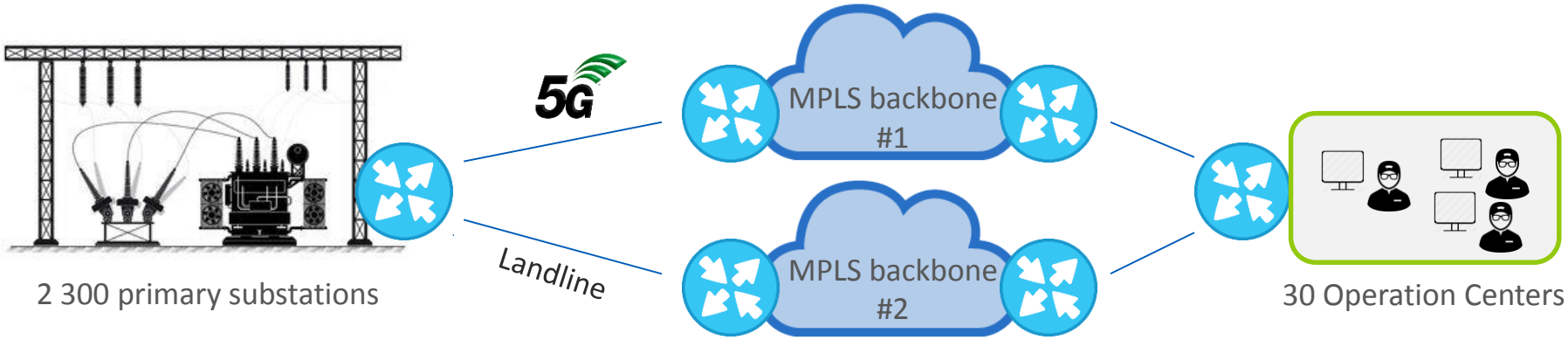
5G: A Driver for industrial & societal changes



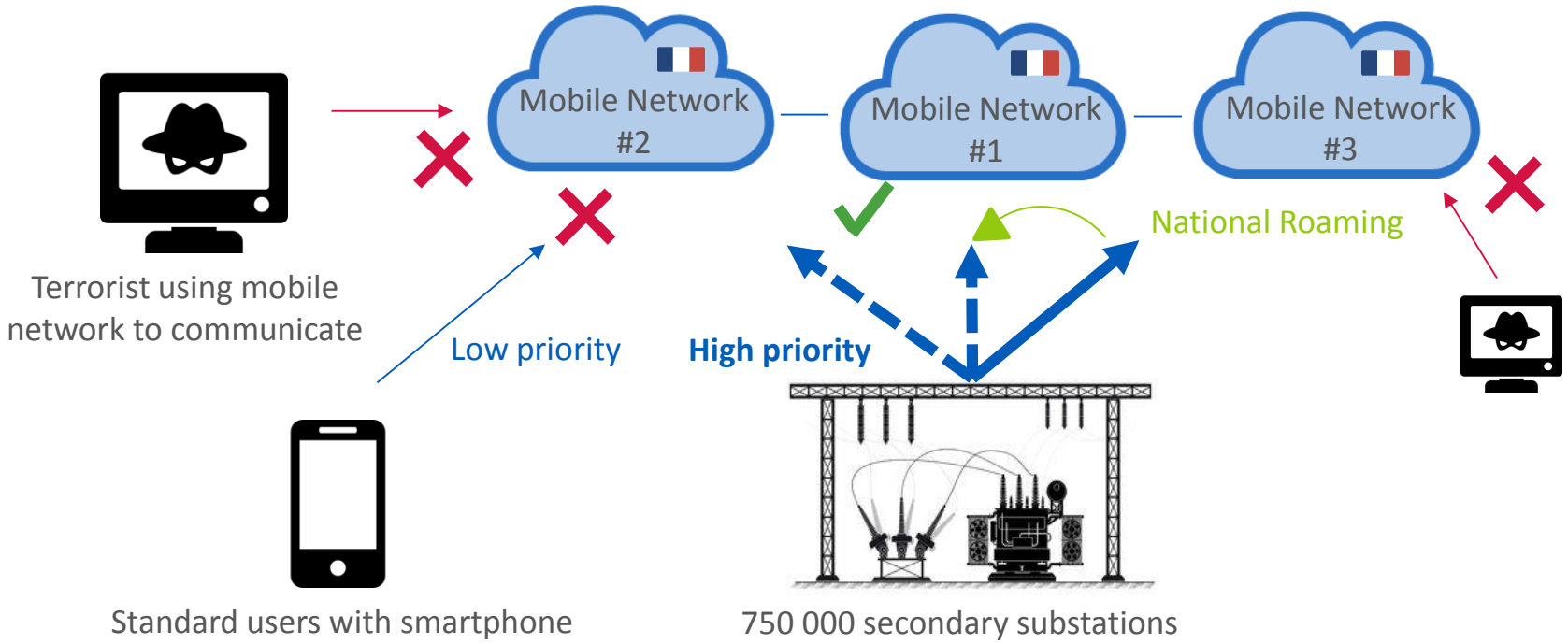
Source: 5G PPP white paper « 5G empowering vertical industries »

Primary substation availability improvement



- **Automatic handover** from landline to 5G
- **Equal service level** (Bandwidth, Latency, CoS)
- No Single Point of Failure
- Multi-VPN ready
- IPv6 ready
- Low OPEX

Connect up to 750 000 2ndary distribution substations

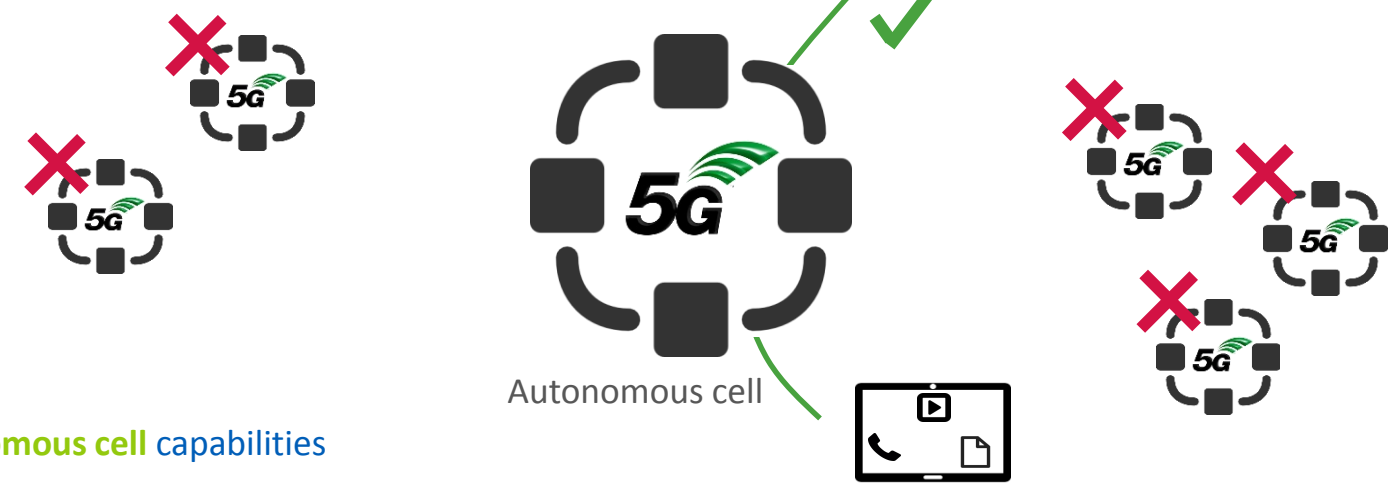


- **National roaming** with real-time handover
- **Traffic prioritization** in case of congestion
- **Always-on network** even when terrorist incident
- **Low OPEX**

Crisis communications enhancement

From Voice (PMR)

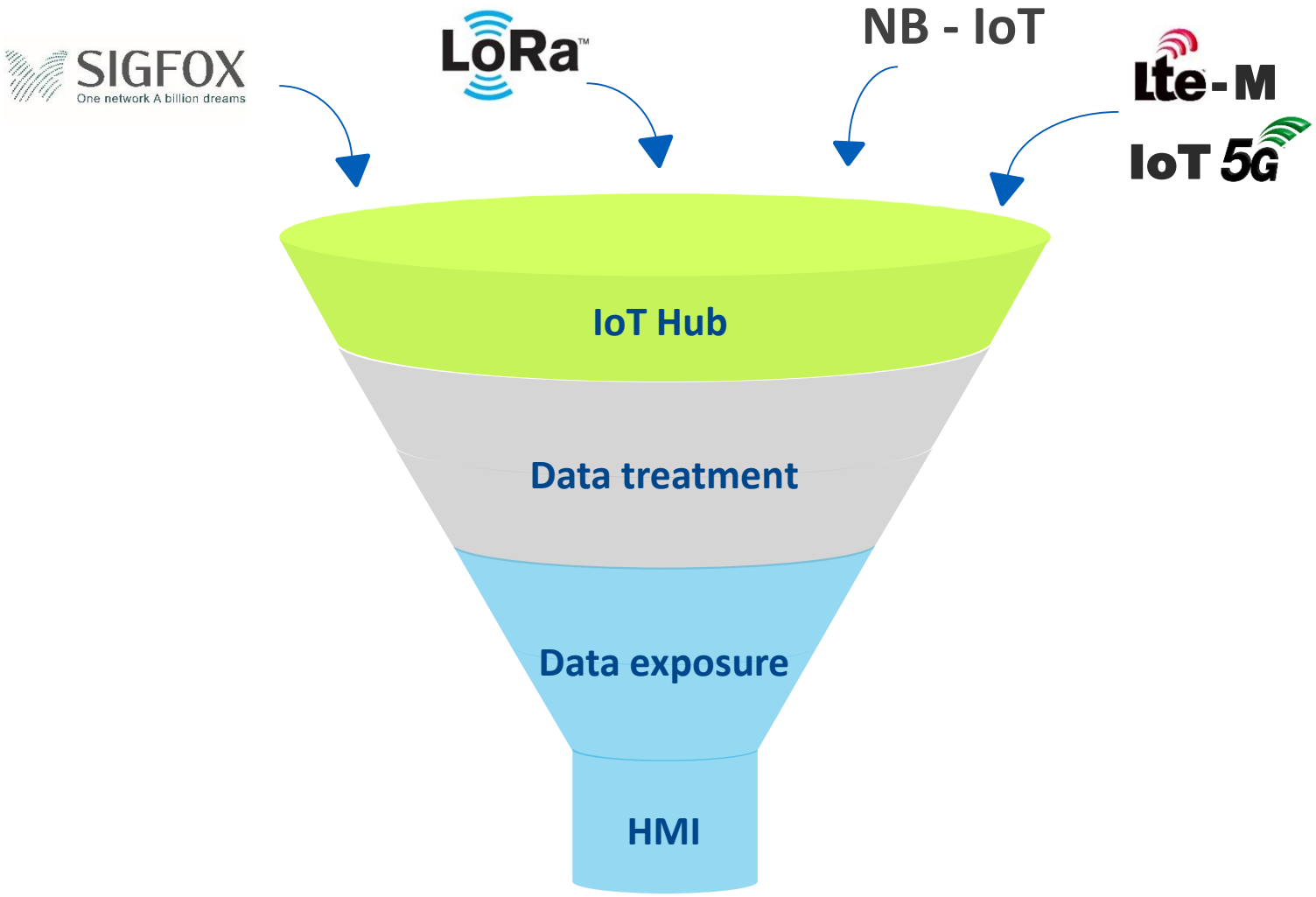
To Data + Voice & Video



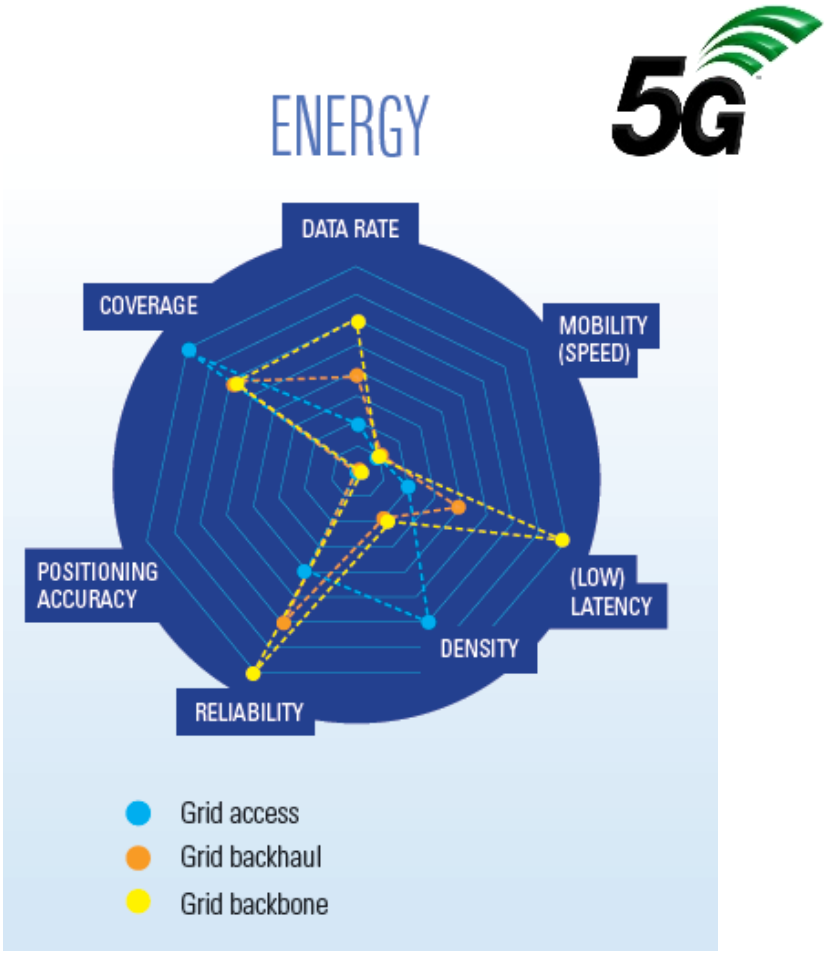
5G **autonomous cell** capabilities

Nationwide coverage

Smart Connect IoT Platform



5G PPP vision regarding DSO needs



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