

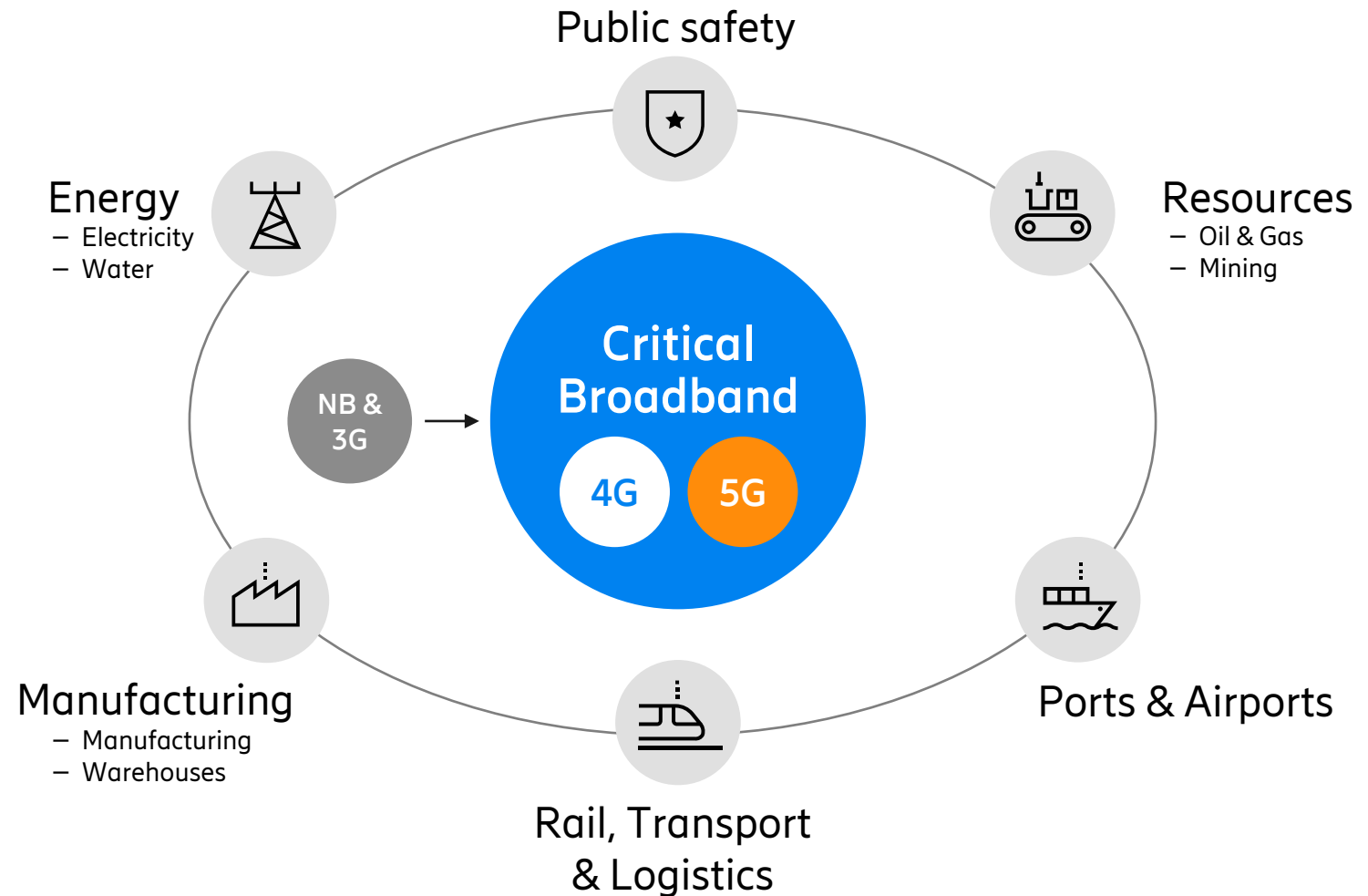
Enabling future-proof Critical Broadband Networks



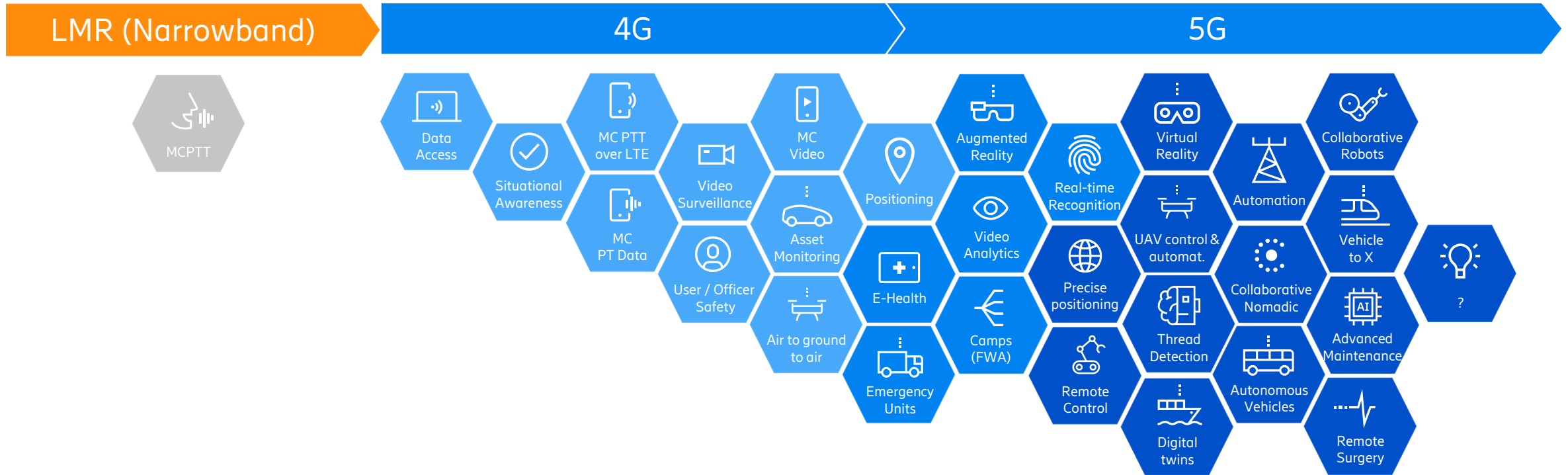
Critical industries require critical broadband



It's no longer a question of 'if' critical broadband services are needed, but rather 'when' and 'how'



Transformation from legacy to mission critical 4G / 5G



Narrow band technologies:
Tetra, P25 ...
 • Mission critical voice
 • Simple messaging

4G

- Broadband
- QoS, Priority, Preemption
- Mission critical services
- Multicast
- Cat-M – NB IoT

On the road to 5G

- Enhanced mobile broadband
- End to end trustworthiness: Security, Reliability, Privacy

5G

- URLLC: Extreme low latency, ultra reliability
- MTC: Ubiquitous machine type communications
- Network Slicing, Edge comp. & distributed cloud

Critical network capabilities securing essential network performance



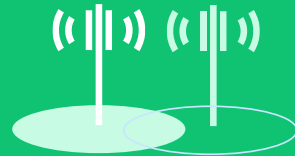
Network availability

High availability required as life or business is dependent on the network performance



Multi network operation

To enable cost efficiency without compromising control



Coverage & capacity

Extending network coverage and capacity for mission critical users beyond what is typically available for commercial users



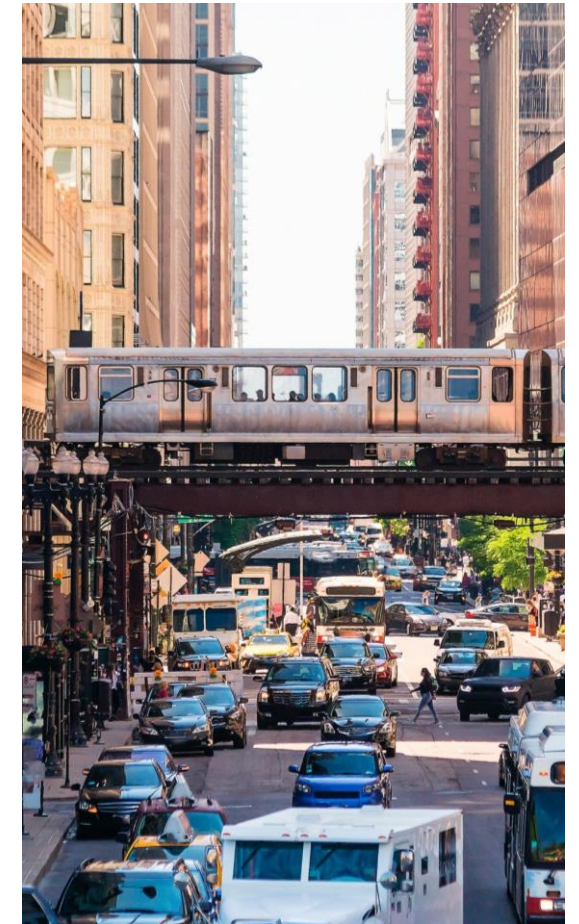
Security & hardening

Providing multi-layer security, and catering for operational and regulatory restrictions



QoS, priority and preemption

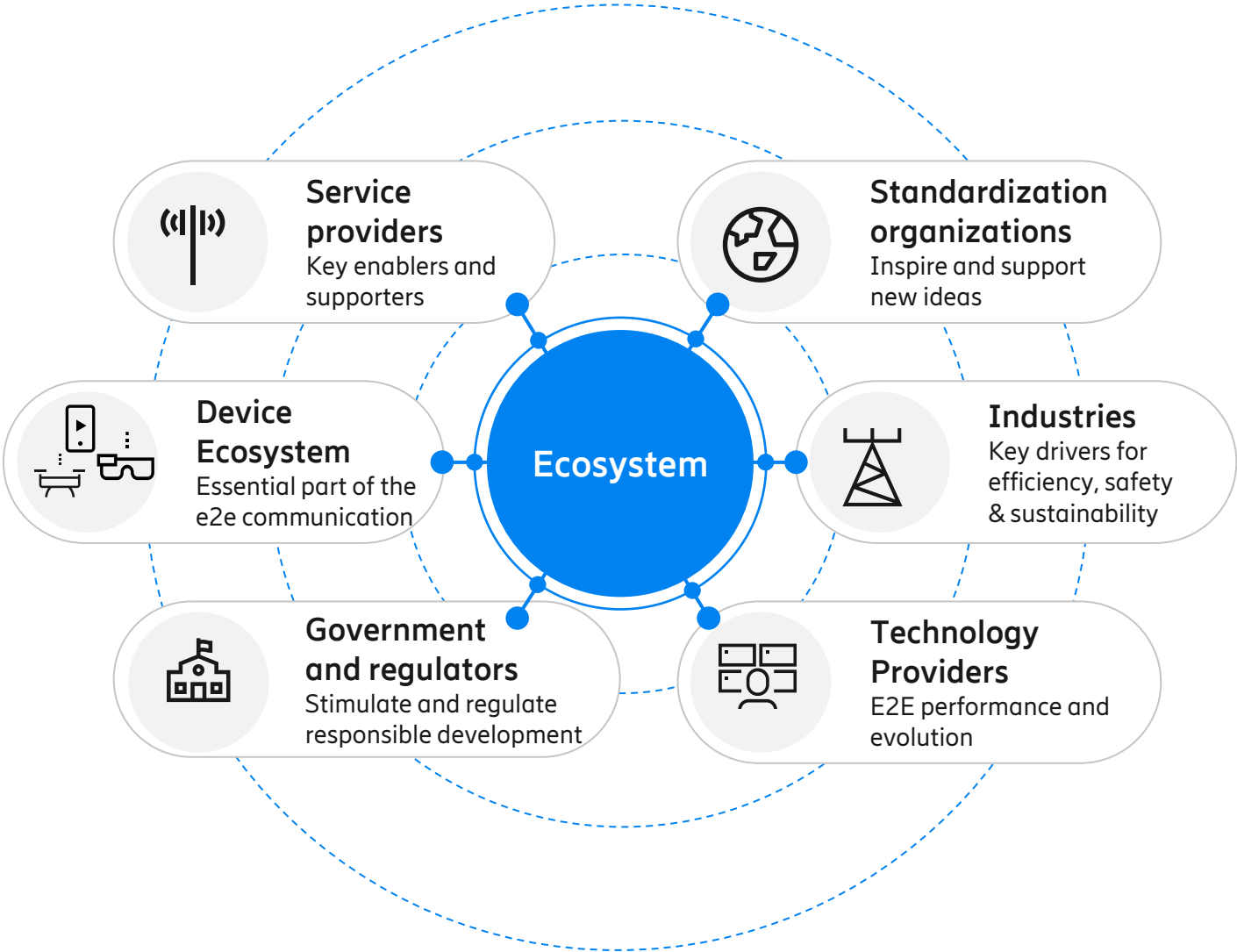
Control of application priority to guarantee latency and capacity requirements



All working together – MCN Ecosystem efforts



Understanding the importance for the future of critical country services, all the industry and decision makers are working together to make MCN transition to 3GPP technologies a reality.



Technology transformation in Mission Critical



Public Safety

Need of critical broadband to improve situational awareness to help save lives and protect society. Obsolescence of existing technology



Utilities

Required a greater control and resilience for energy grids and consolidation of many communication technologies



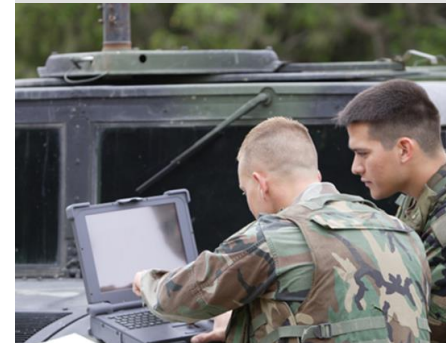
Rail

Improvement of safety, reliability and operational efficiency using 5G and FRMCS



Defense

Increase efficiency and drive digitalization by complement existing technologies with commercially available dual-use solutions.



Digital Airspace

Air-Ground-Air connectivity for critical communication. Support transformation of the Air Traffic Management and the drone UTM ecosystem



Ericsson support with focus on how 3GPP LTE/5G will provide innovative systems, digital capacity, secure, resilience and future proof networks



<https://www.ericsson.com/en/mission-critical-communications>