**BIGGEST OBSTACLES TO 5G SUCCESS**

Global survey of telecommunications professionals who rated the following as the biggest obstacles:

- Spectrum availability: 17%
- Unclear return on investment/lack of business case: 15%
- Costs: 12%
- Increase in the number of base stations: 11%
- Network transformation/slow progress in network virtualisation: 10%
- Standardisation: 10%
- Device/handset availability: 9%
- International spectrum harmonisation: 7%
- Weak market demand: 5%
- Operator hesitation: 4%

**WHERE 5G WILL HAVE THE BIGGEST IMPACT**

Requirements for 5G in five different sectors:

- Healthcare
- Public transport
- Personal transport
- Manufacturing
- Immersive technologies

**COVERING**

Significant increases in coverage and capacity expected:

- 5 = no change required from existing technologies
- 6 = substantial change required from existing technologies

- Vehicle-to-vehicle and vehicle-to-infrastructure communications are key enablers of autonomous cars, which will require low-latency, high-volume transmission of data.

**BANDWIDTH**

Fast improvements in data transfer capabilities:

- 5 = no change required from existing technologies
- 6 = substantial change required from existing technologies

- 5G offers manufacturers the opportunity to truly take advantage of the smart factory: low latencies for AI-driven robots, always-on connectivity for high numbers of components/sensors, and bandwidth/coverage for remote control of factory processes.

**SLICING**

Dedicated a unique part of a 5G network for a service:

- 5 = no change required from existing technologies
- 6 = substantial change required from existing technologies

- The advent of 5G has the potential to transform every sector through reductions in latency and improved bandwidth, reliability and speed. But which sectors stand to benefit the most?