6G and Internet of Medical Things (IoMT)

Smart Hospital

10M devices/km²

Network Capabilities
⚡ <1ms latency 📊 Tbps speed

Remote Surgery

<1ms latency

6G Network

IoMT Sensors

Continuous stream

Emergency

Holographic Consultation
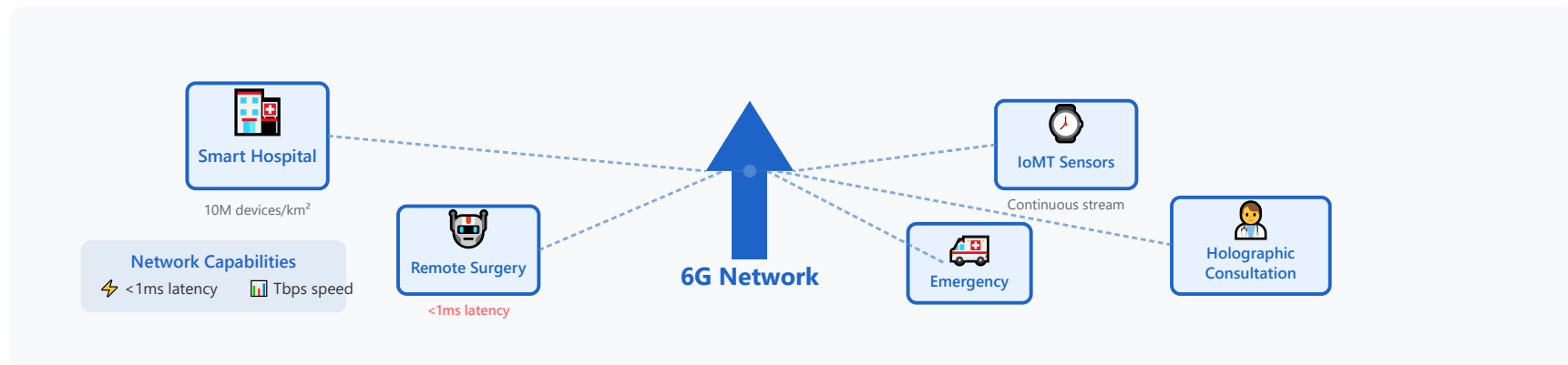
Ultra-Low Latency

- <1 millisecond latency
- Critical for remote surgery
- Real-time patient monitoring
- Haptic feedback systems

Massive Connectivity

- 10 million devices/km²
- Hospital-wide sensor networks
- Smart city health infrastructure

AI-Native Networks

- Built-in AI processing
- Intelligent resource allocation

Holographic Communication

- 3D holographic consultations
- Virtual presence surgery

- Predictive maintenance
- Network-edge collaboration

- Enhanced medical education

Medical Applications: Remote surgery robots, continuous vital sign streaming, emergency response coordination