



Putting the mobile network to work

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Every decade, a new G and a new role for the mobile network

1980 1990 2000 2010 2020 2030

1G

- **New interfaces:** NMT, TACS, C-450, Radiocom 2000, TMA, RTMI...
- **Key improvement:** Mobility
- **Key service innovation:** Phone calls on the move

2G

- **New interfaces:** GSM, CDMA
- **Key improvements:** Scale & standardisation
- **Key service innovation:** Mobile phones for the masses

3G

- **New interfaces:** UMTS, cdma2000
- **Key improvement:** Dedicated data channel
- **Key service innovation:** Mobile internet

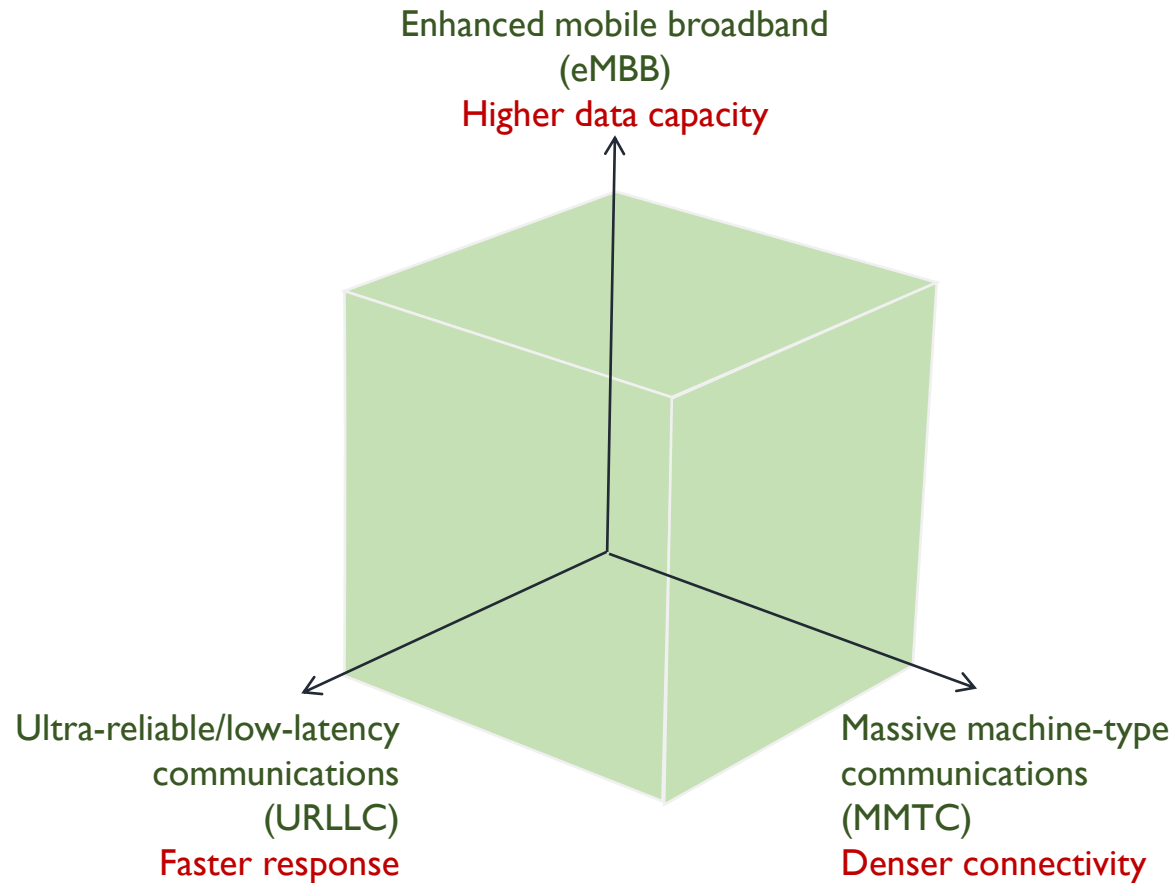
4G

- **New interface:** LTE
- **Key improvement:** Higher speed, lower latency
- **Key service innovation:** Mobile multimedia

5G

- **New interface:** NR
- **Key improvements:** Higher speed, lower latency, denser connectivity, QoS guarantees
- **Key service innovations:** Whole-site connectivity
Remote command & control
Massive IoT
Many more...

New capabilities enable new applications for 5G



eMBB enables:

- High-volume data transfer
- High-definition streaming
- Less capacity contention between devices

URLLC enables:

- Remote command & control
- Instant-response applications
- AI-driven automation

mMTC enables:

- More connections per object
- Co-located IoT applications
- Massive-scale IoT

Network slicing enables service-level guarantees

