



Technische Hochschule
Ingolstadt

Fakultät Informatik

5G und 6G – Gamechanger für eine vernetzte Mobilität der Zukunft

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10 GBps Spitzendatenraten

100 MBps jederzeit

LTE/4G: 1,5 GBps

Enhanced Mobile Broadband (eMBB)

1000000 Geräte pro km²

LTE/4G: 10000

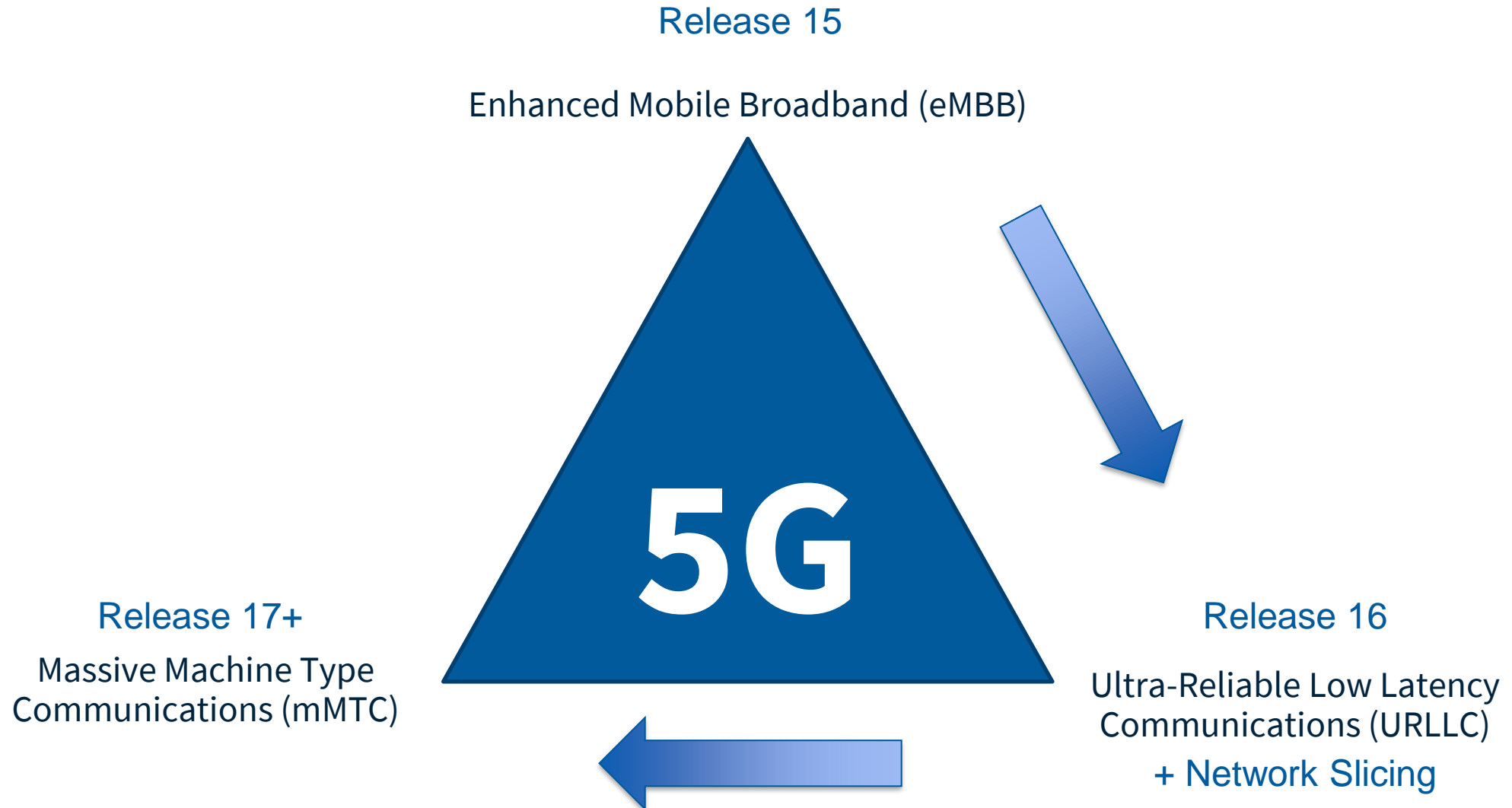
Massive Machine Type
Communications (mMTC)

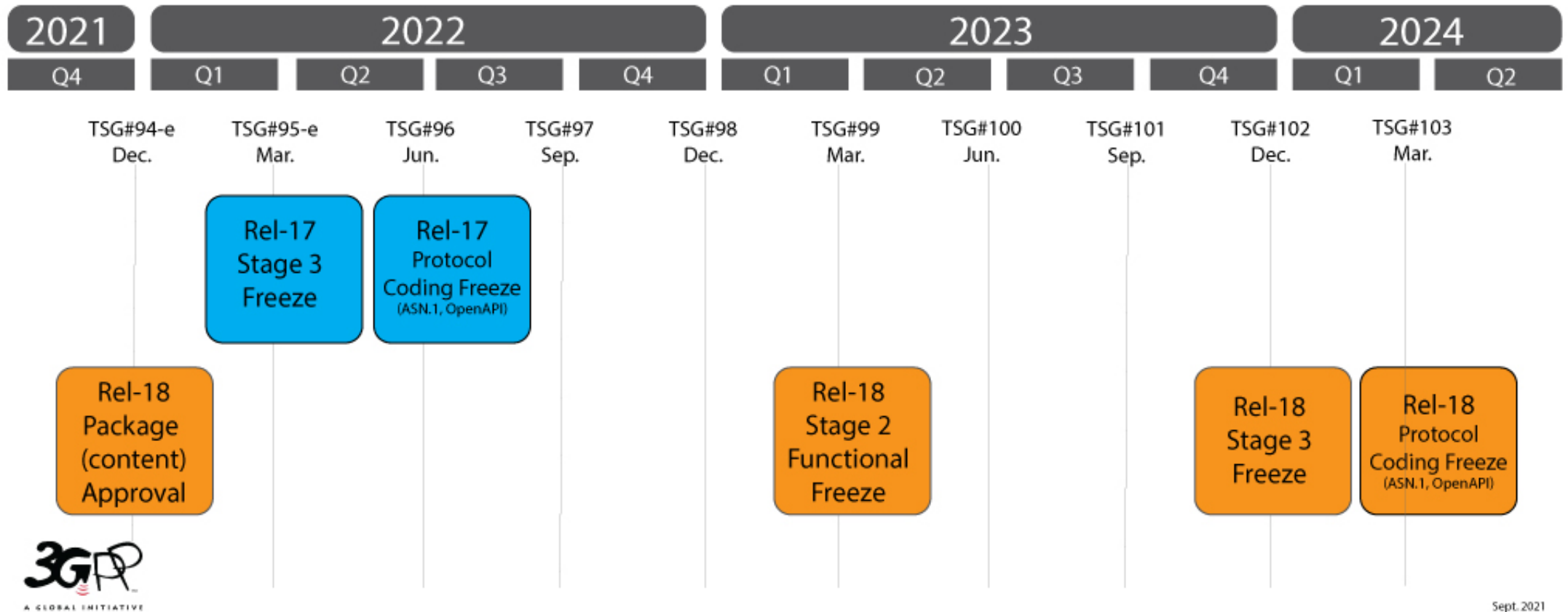
5G

< 1ms Latenz auf
der Luftschnittstelle

LTE/4G: < 10ms

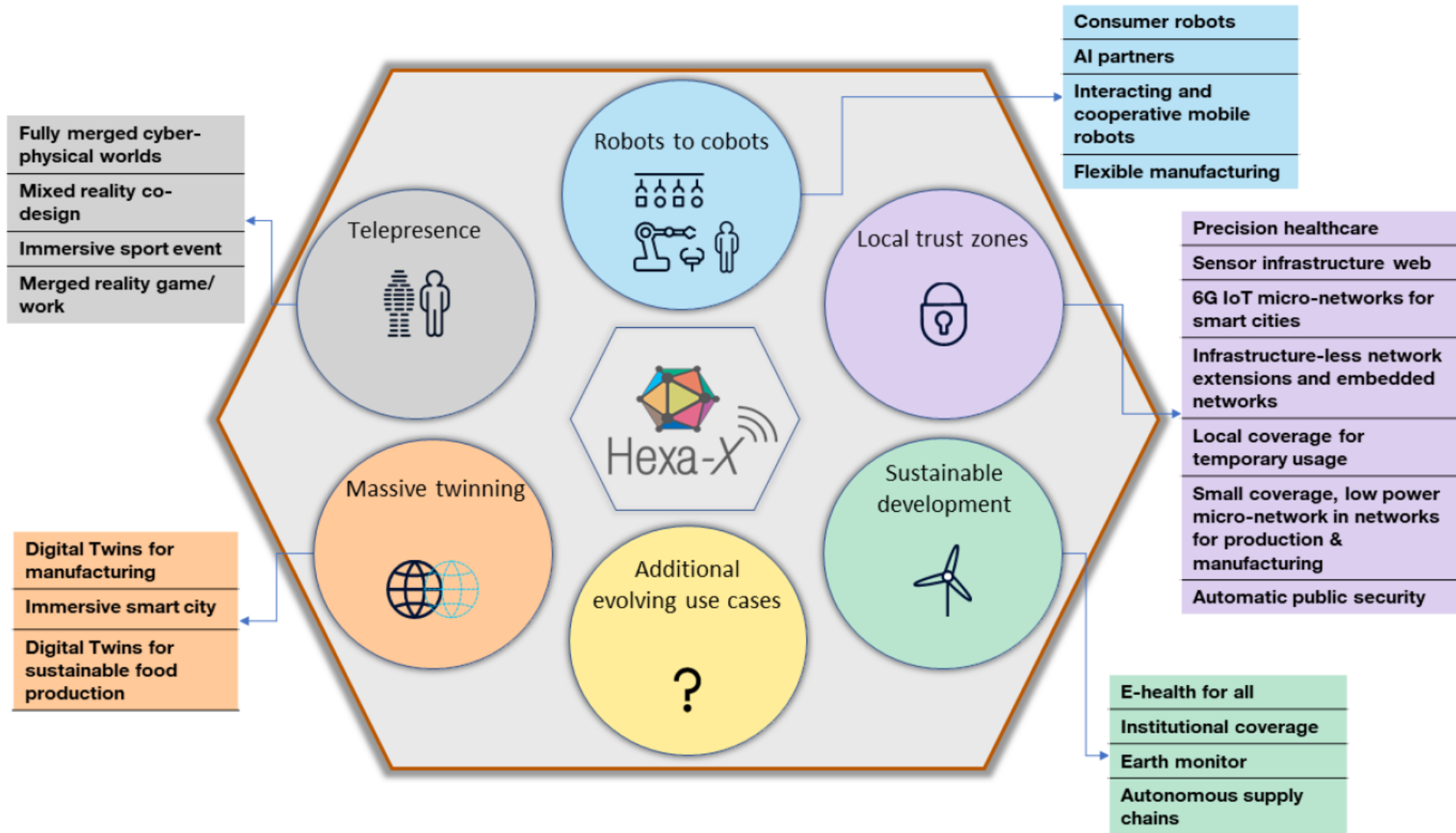
Ultra-Reliable Low Latency
Communications (URLLC)





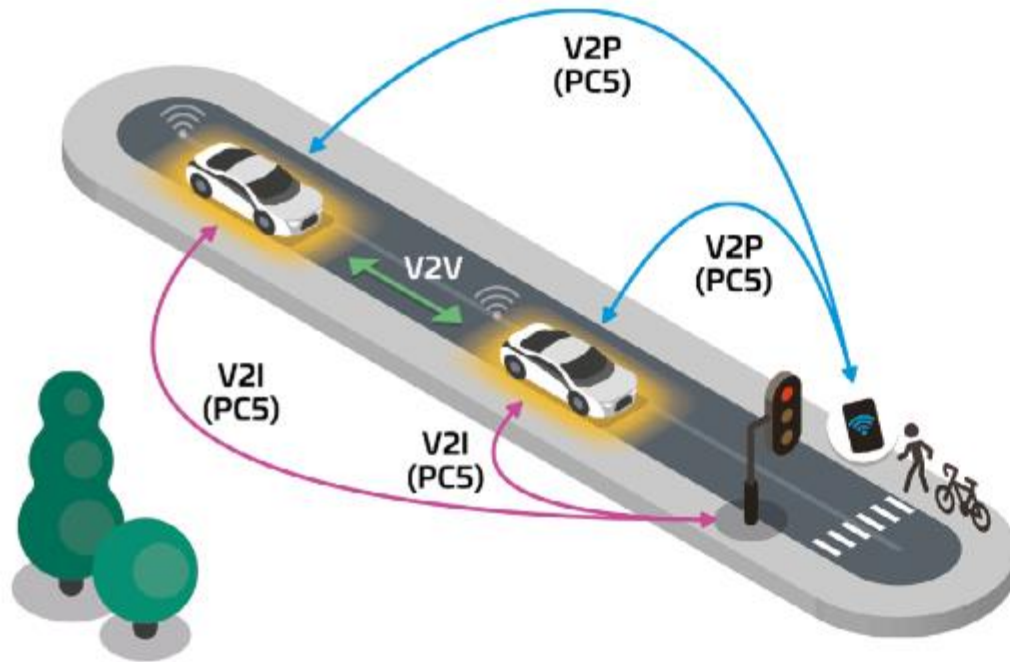
Sept. 2021

Quelle: <https://www.3gpp.org/specifications/67-releases>

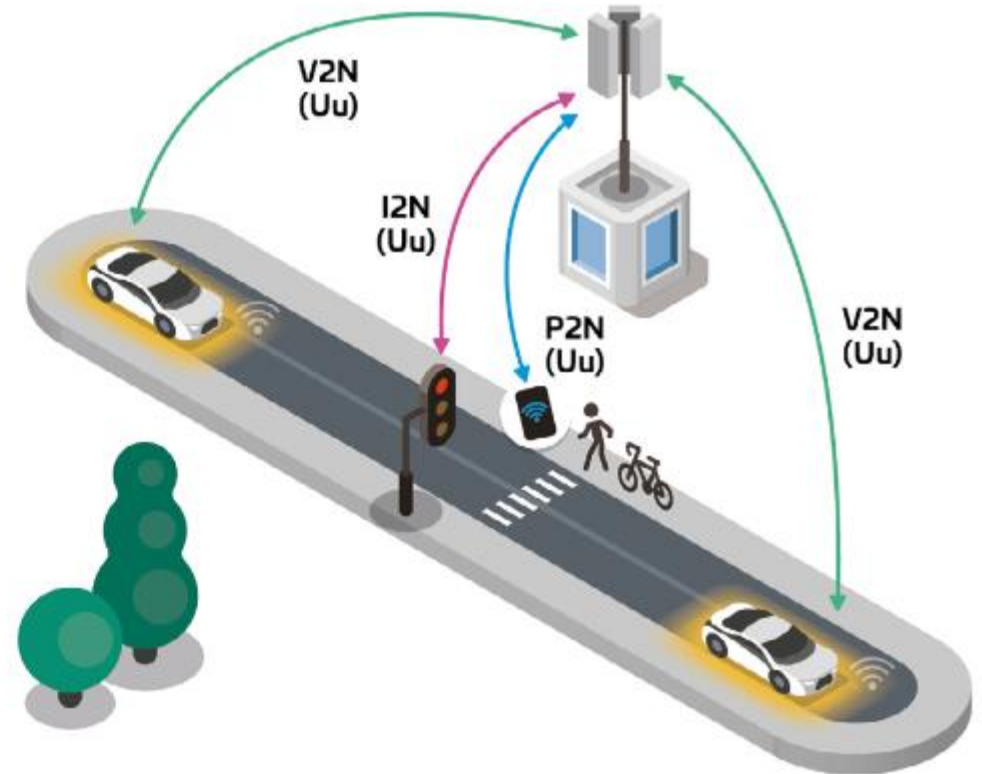


Quelle: Hexa-X Deliverable D5.1 Initial 6G Architectural Components and Enablers

Direkt
V2V/V2I/V2P
unabhängig vom Mobilfunknetz



Infrastruktur-basiert
V2N/I2N/P2N
über Mobilfunknetz



Quelle: A visionary roadmap for advanced driving use cases, connectivity technologies, and radio spectrum needs, 5G Automotive Association