

Qualcomm Technologies, Inc.

Developing Digital Government on Mobile Platform

QUALCOMM®



Emerging region growth

~4.7B

3G/4G connections by 2019



LTE is Growing Fast in Vietnam!

- Operators have deployed 3G in 900MHz and 2100MHz with DC-HSDPA being enabled.
- Operators are aggressive on LTE deployment. Initial launch will be in 1800MHz spectrum.
- Expected to have new 2600MHz (FDD) spectrum being released soon. Operators are keen to deploy LTE in 2600MHz.
- Operators are in strong interest on LTE Carrier Aggregation in 1800MHz and 2600MHz (Band 3+7) and/or in 1800MHz and 2100MHz (Band 1+3), under UE Downlink Category 6 (300Mbps).



>8.5B

cumulative smartphone
unit shipments forecast
between 2015–2019

53%

Increase in smartphone
installed base forecast
between 2015–2019



EXPECTED SMARTPHONE SHIPMENTS

~7X THOSE OF PCs IN 2019



Smartphone: our most personal device

~106

Avg. number of daily app launches by US Android users

~94%

Use their device to look for local information

~75%

18-24 year olds reach for it immediately after waking up

~79%

Watch video on their device



5B+

Automotive | Internet of things | Mobile computing | Networking

Source: Based on a combination of 3rd party and internal estimates





Transforming everything



IMPROVING EDUCATION

1.4B STUDENTS

globally* can further their education
with mobile education



Transforming health care

Creating a world with access to health care anytime, anywhere



~\$2.5 Trillion

Economic impact of IoT
in health care by 2025



Transforming Healthcare



\$36B+

Worldwide remote patient monitoring savings over the next five years

\$500B+

Annual revenue loss due to medication non-adherence

~500

Member companies in Qualcomm Life connected health ecosystem

Making our cities smarter

Smart building management



Building as a platform



Distributed renewables integration



Demand response



Wireless vehicle charging



Smart parking meters and garages



4G LTE provides a solid foundation for Cellular IoT growth

Scaling up in performance and mobility

Scaling down in complexity and power

LTE Advanced

>10 Mbps

n x 20 MHz

LTE Cat-1

Up to 10 Mbps

20 MHz

LTE-M (Cat-M1)

Up to 1 Mbps

1.4 MHz narrowband

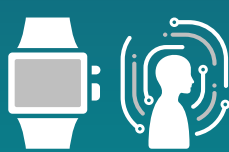
NB-IOT

10s of kbps to 100s of kbps

180 kHz narrowband

LTE Advanced (Today+)

LTE IoT (Release 13+)



Connected car

Energy Management

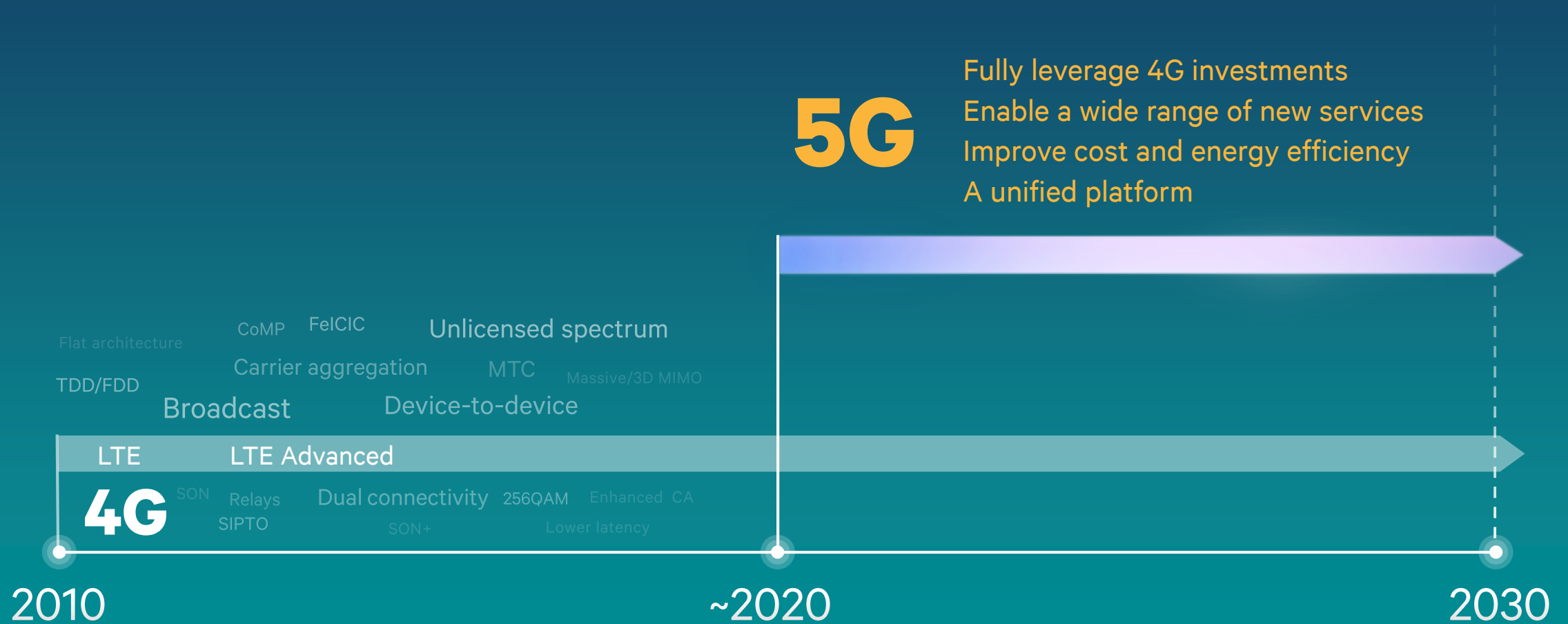
Connected healthcare

City infrastructure

Smart buildings

Significantly widening the range of enterprise and consumer use cases

In parallel: driving 4G and 5G to their fullest potential



Driving LTE into the Internet of Things

LTE



Reliability over a long lifecycle

Scalability of mature infrastructure

Optimized for power efficiency

Cost-effective for many applications

Less prone to interference

Thank you

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