

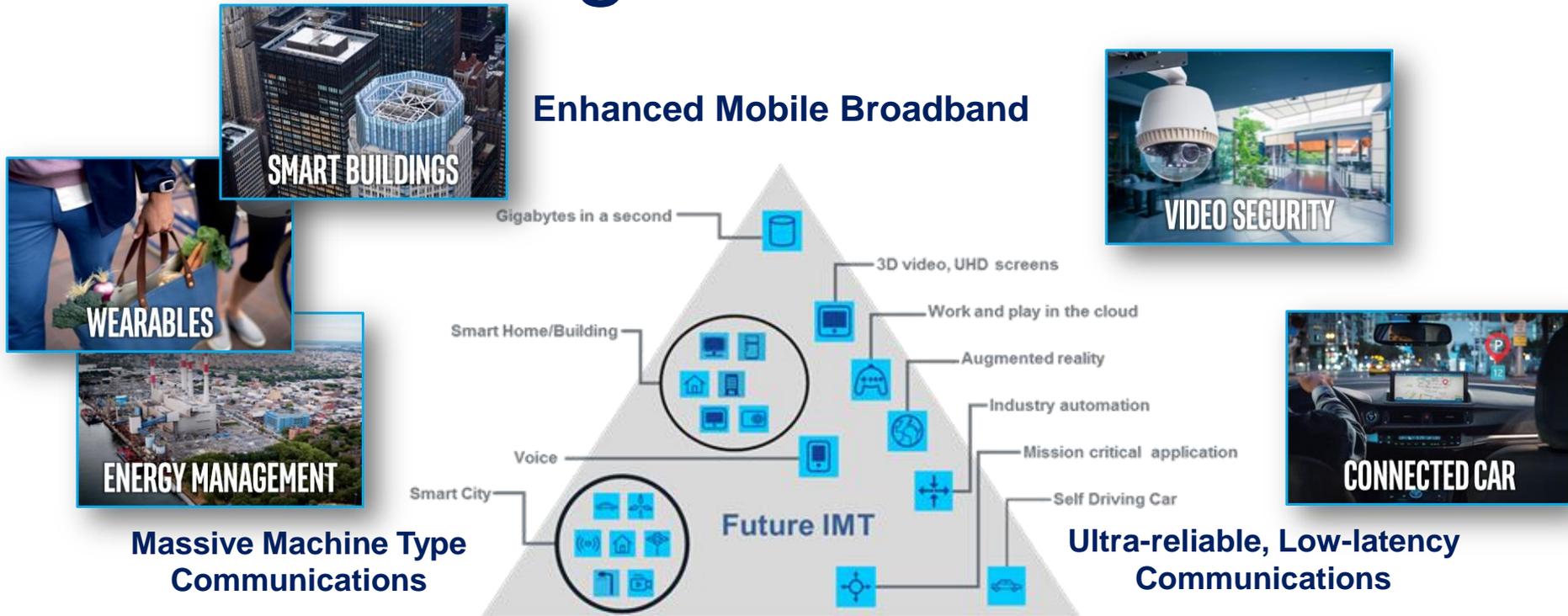
Spectrum Frontiers Workshop

Asha Keddy

Vice President, Platform Engineering Group
General Manager, Next Generation and Standards
Intel Corporation



ITU-R Usage Scenarios for 5G



Source: Recommendation ITU-R M.2083 "IMT Vision - Framework and overall objectives of the future development of IMT for 2020 and beyond"

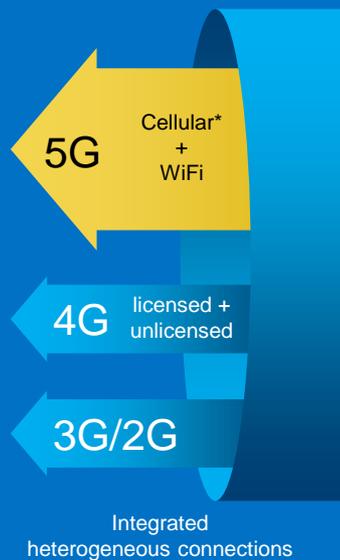
Intel products fuel the 5G engine by enabling new applications in a variety of spectrum bands

5G Connected Society

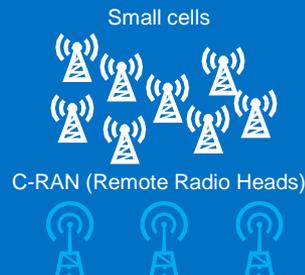
Smart Devices



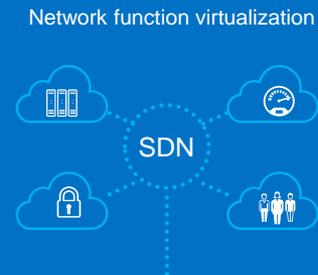
Radio Access Technology



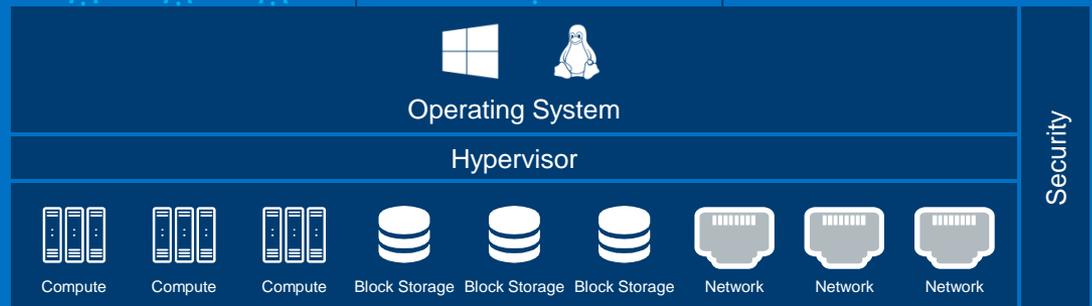
Network Infrastructure



Core Network



Cloud



Intel Powers the end-to-end Network from Device to Cloud: Unleashing Tomorrow's Use Cases

Note: *licensed + unlicensed + cm/mmW; proprietary nodes and fixed appliances to co-exist with SDN/NFV

5G Enablers

STANDARDS

3GPP, IEEE, ...

GLOBAL PARTNERSHIPS

Collaborations among key industry leaders

PROTOTYPING

Early prototyping and trials
Traditional and non-traditional verticals

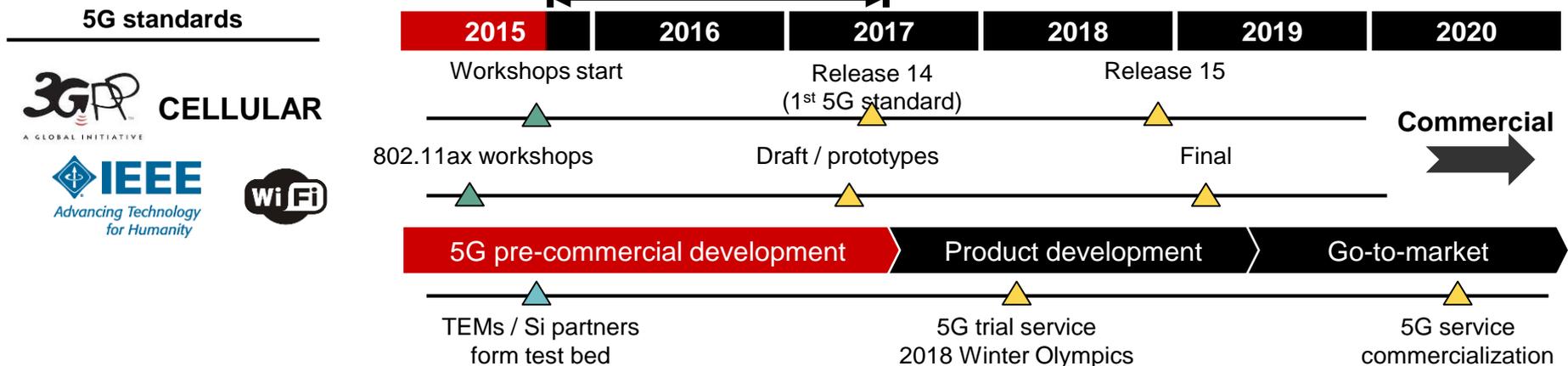
PRODUCTS

Network
Wireless Devices
Cloud
IoT

E2E SOLUTION

Solutions from client to network to cloud
TTM/rapid innovation

5G standards work



Time to Act Is Now!

In 2015...

\$45B

From AWS auction results¹

By 2019...

\$1.3T

worldwide spending on the Internet of Things²

By 2020...

50B

Internet connected devices³



US leadership in 5G is contingent on FCC expedition

¹ This is the source: http://wireless.fcc.gov/auctions/default.htm?job=auction_summary&id=97

² Worldwide Semiannual Internet of Things Spending Guide http://www.idc.com/getdoc.jsp?containerId=IDC_P29475

³ Gartner Group <http://www.gartner.com/newsroom/id/3165317> & Cisco Virtual Networking Index

Thank you

