



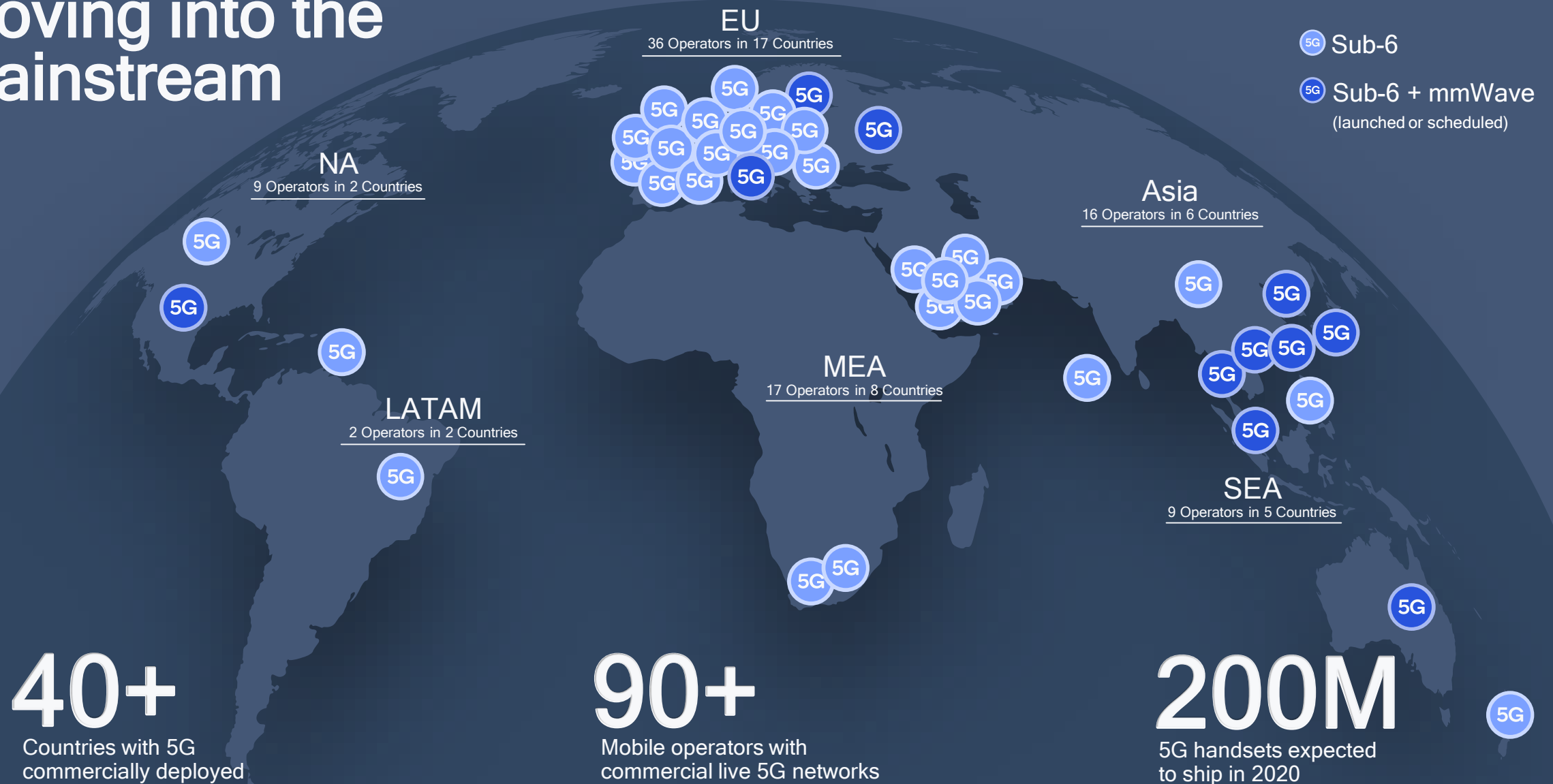
5G

Virtualized and interoperable radio access networks

Gerardo Giaretta

Senior Director, Product Management
Qualcomm Technologies, Inc.

5G commercialization moving into the mainstream

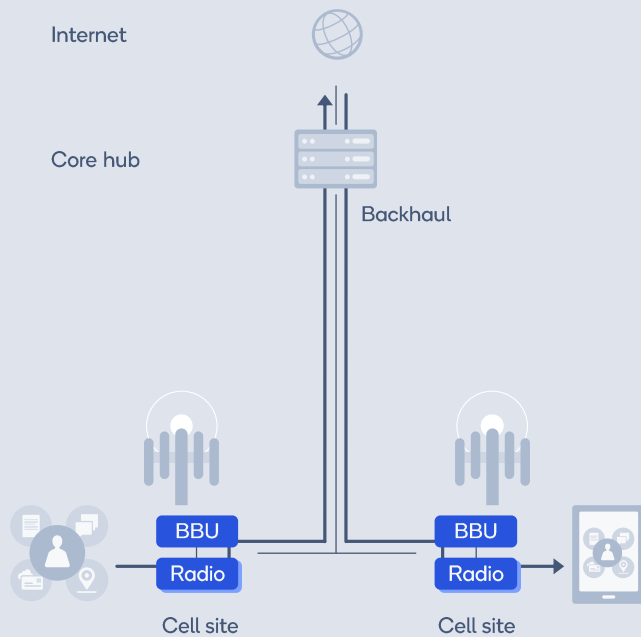


[illegible]

Evolving the 5G network

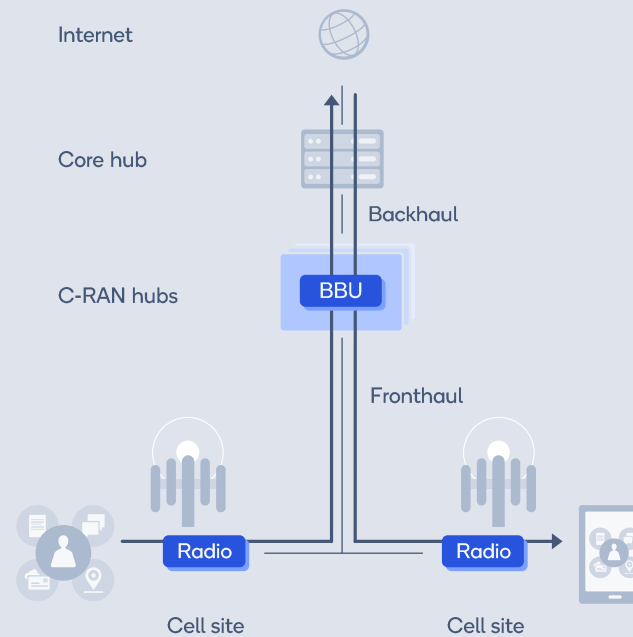
Traditional RAN

Combined baseband processing unit + Radio unit



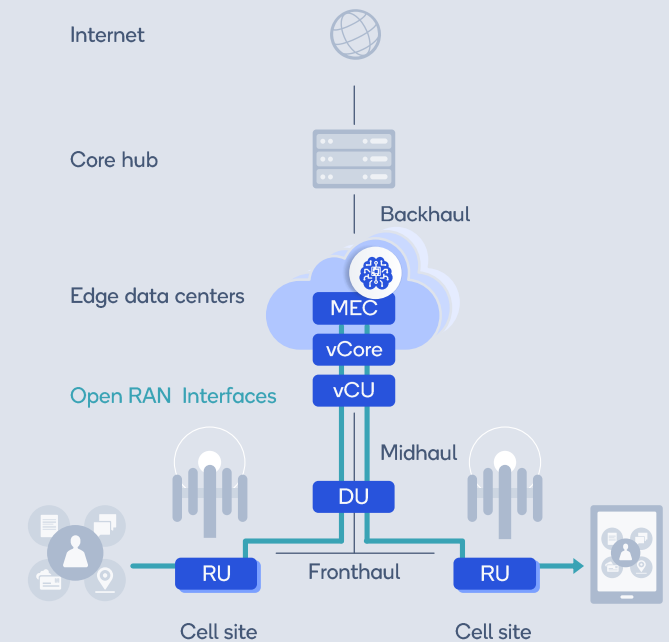
Centralized RAN (C-RAN)

Centralized baseband processing unit



Virtual RAN (vRAN) + MEC

Virtualized baseband processing unit with disaggregation



For better coordination, scalable capacity, faster deployments, lower latency, and new use cases

Qualcomm

5G RAN
Platforms

Qualcomm® 5G RAN Platform for small cells

Cutting edge technology for flexible, virtualized, scalable,
and interoperable cellular network infrastructure

Qualcomm 5G RAN Platforms is a product of Qualcomm Technologies, Inc. and/or its subsidiaries.

Selected by global infrastructure innovators

Airspan

ALTIOSTAR

Bicells

CORNING

FOXCONN

NOKIA

Radisys

Rakuten Mobile

SAMSUNG

SERCOM

T&W

verizon✓

Announcing expansion of

Qualcomm® 5G RAN Platforms

Building open and innovative
cellular infrastructure with high
performance Modem-RF System.

Qualcomm
radio unit
platform

Qualcomm
distributed unit
platform

Qualcomm
distributed
radio unit
platform

Qualcomm

5G RAN
Platforms

Powering the future of the 5G networks



High
Performance
Modem-RF
System



Flexible,
scalable, O-RAN
compatible



Designed for
Macro and Small
cells



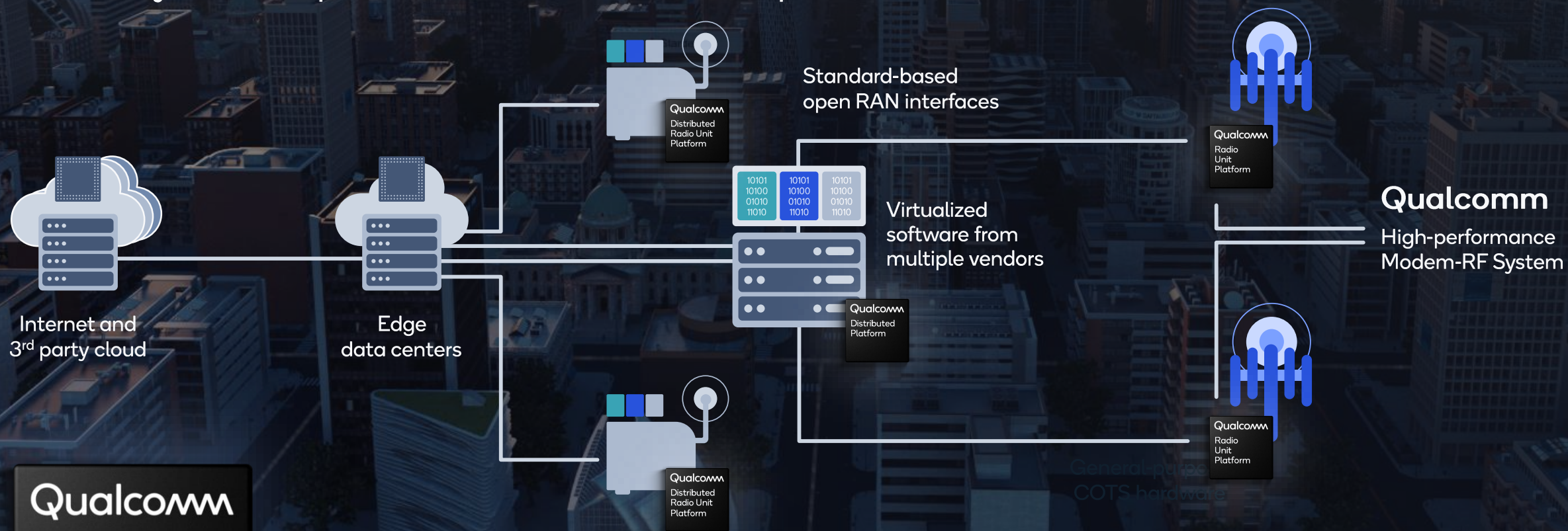
vRAN with
hardware
acceleration



Integrated
mmWave & Sub-6
GHz solution with
Global band
Support

Driving transition to Infrastructure 2.0

Powered by extended portfolio of Qualcomm® 5G RAN platforms



Qualcomm

5G RAN
Platforms

High performance
Modem-RF

Virtualization
with hardware
acceleration





Flexible, scalable,
O-RAN
compatible

From Macro
to Small Cells

Integrated Sub-6
and mmWave
solution



Thank you

Follow us on:    

For more information, visit us at:

www.qualcomm.com & www.qualcomm.com/blog

Nothing in these materials is an offer to sell any of the components or devices referenced herein.

©2018-2020 Qualcomm Technologies, Inc. and/or its affiliated companies. All Rights Reserved.

Qualcomm is a trademark of Qualcomm Incorporated, registered in the United States and other countries. Other products and brand names may be trademarks or registered trademarks of their respective owners.

References in this presentation to “Qualcomm” may mean Qualcomm Incorporated, Qualcomm Technologies, Inc., and/or other subsidiaries or business units within the Qualcomm corporate structure, as applicable. Qualcomm Incorporated includes Qualcomm’s licensing business, QTL, and the vast majority of its patent portfolio. Qualcomm Technologies, Inc., a wholly-owned subsidiary of Qualcomm Incorporated, operates, along with its subsidiaries, substantially all of Qualcomm’s engineering, research and development functions, and substantially all of its product and services businesses, including its semiconductor business, QCT.