

PANEL ON TELECOM IN LATIN AMERICA

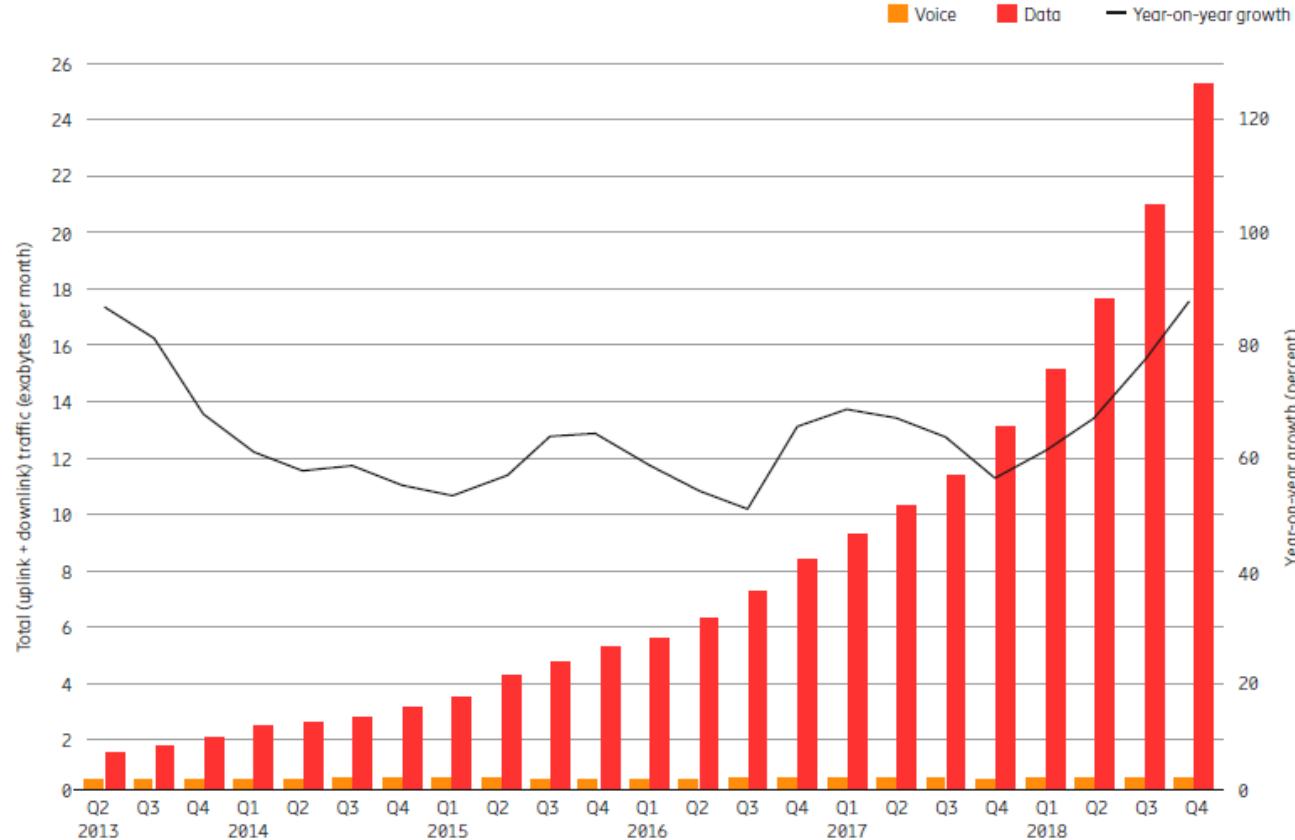
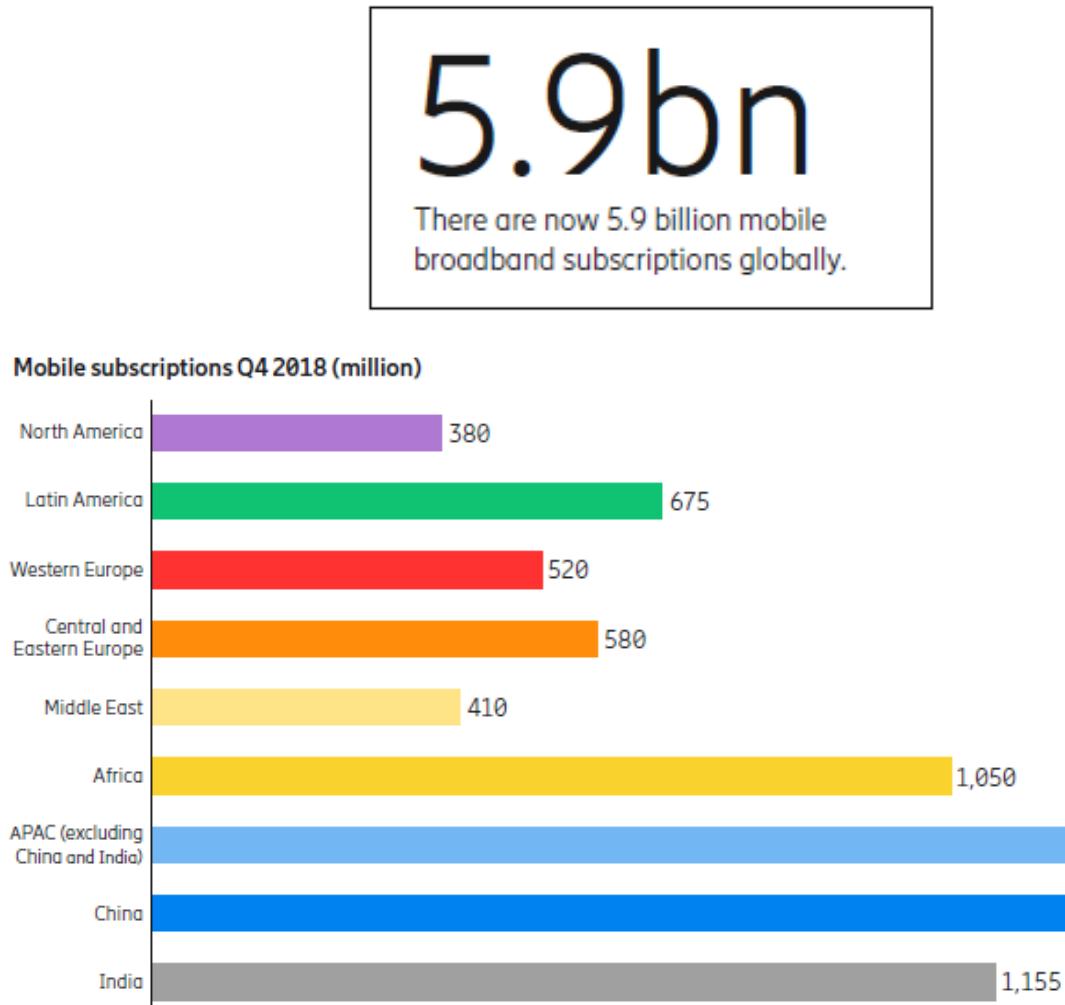
SYNC OPPORTUNITIES IN THE 5G ERA; VENDORS PERSPECTIVE

WSTS 2019
SAN JOSE, MARCH 2019

Moderator: Stefano Ruffini, Ericsson

Panelists: Barry Dropping, Director Product Line Management, Microchip
Luis Gonzalez, Business Development Manager, Oscilloquartz

MOVING TOWARDS 5G

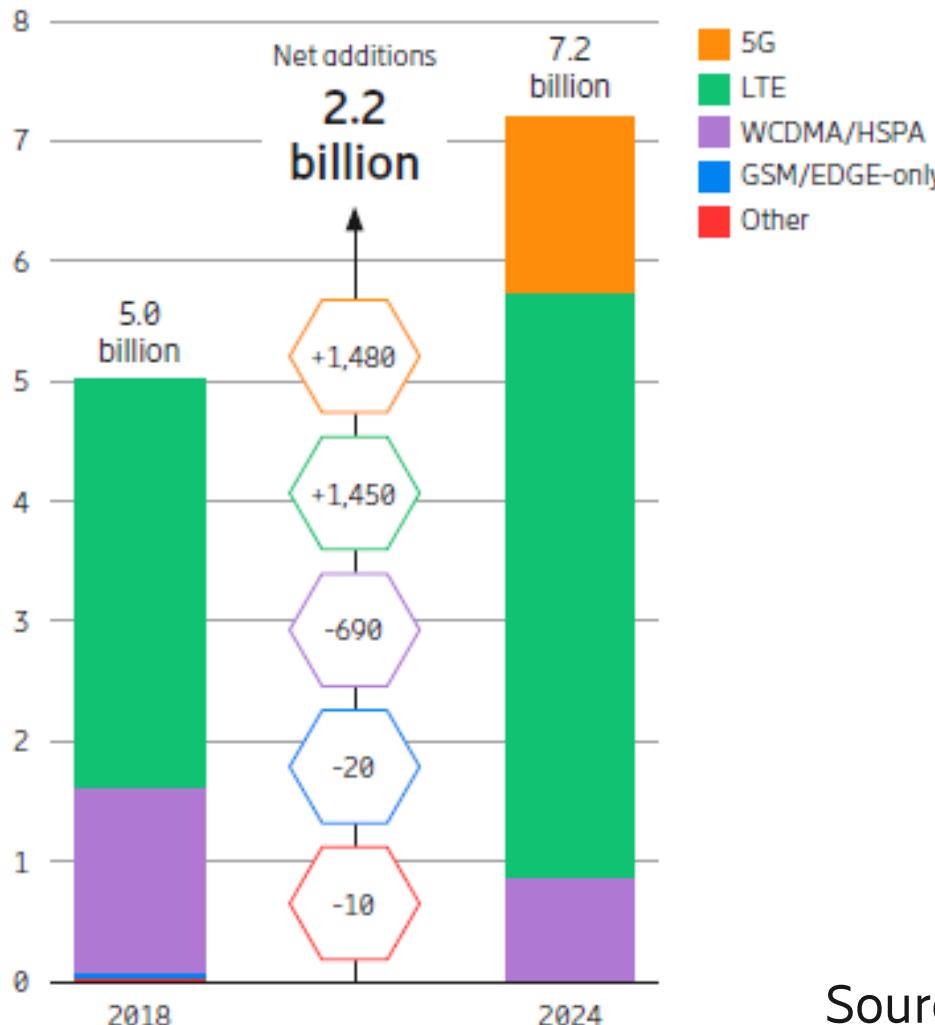


Source: Ericsson traffic measurements (Q4 2018)

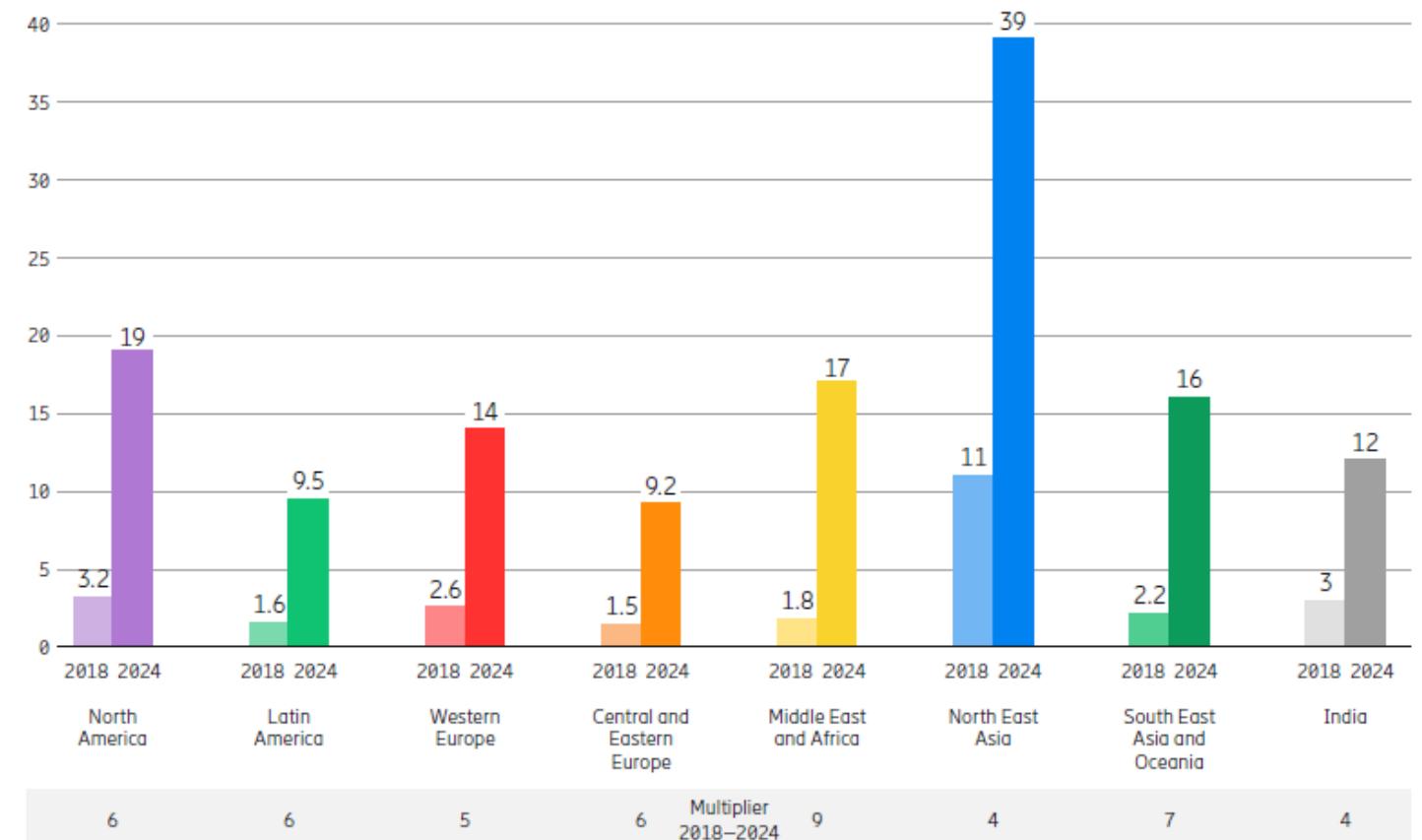
Source: Ericsson Mobility Report

MOVING TOWARDS 5G, CONT.

Smartphone subscriptions
by technology (billion)



Regional mobile data traffic (EB per month)



Source: Ericsson Mobility Report

SYNC ASPECTS

Sync in 5G: Several perspectives

Radio interface ▲

TDD

Carrier Aggregation

Dual Connectivity

CoMP

Frequency Error

Regulatory aspects

...

Applications ▲

Positioning

Industrial

Automation

Smartgrid

...

Infrastructure ▲

5G Transport

IAB

Fronthaul

...

Solutions ▲

GNSS

IEEE 1588

SyncE

RIBS

...

Sync continues to be an important enabler also for future mobile networks

WHAT IS 5G

What is 5G?

5G wireless access is not only an evolution of mobile broadband; it will be a key IoT enabler, empowering people and industries to achieve new heights in terms of efficiency and innovation

LTE and 5G

Evolution of today's 4G (LTE) networks and addition of a new, globally standardized radio access technology known as **New Radio (NR)**



Massive MTC



Critical MTC

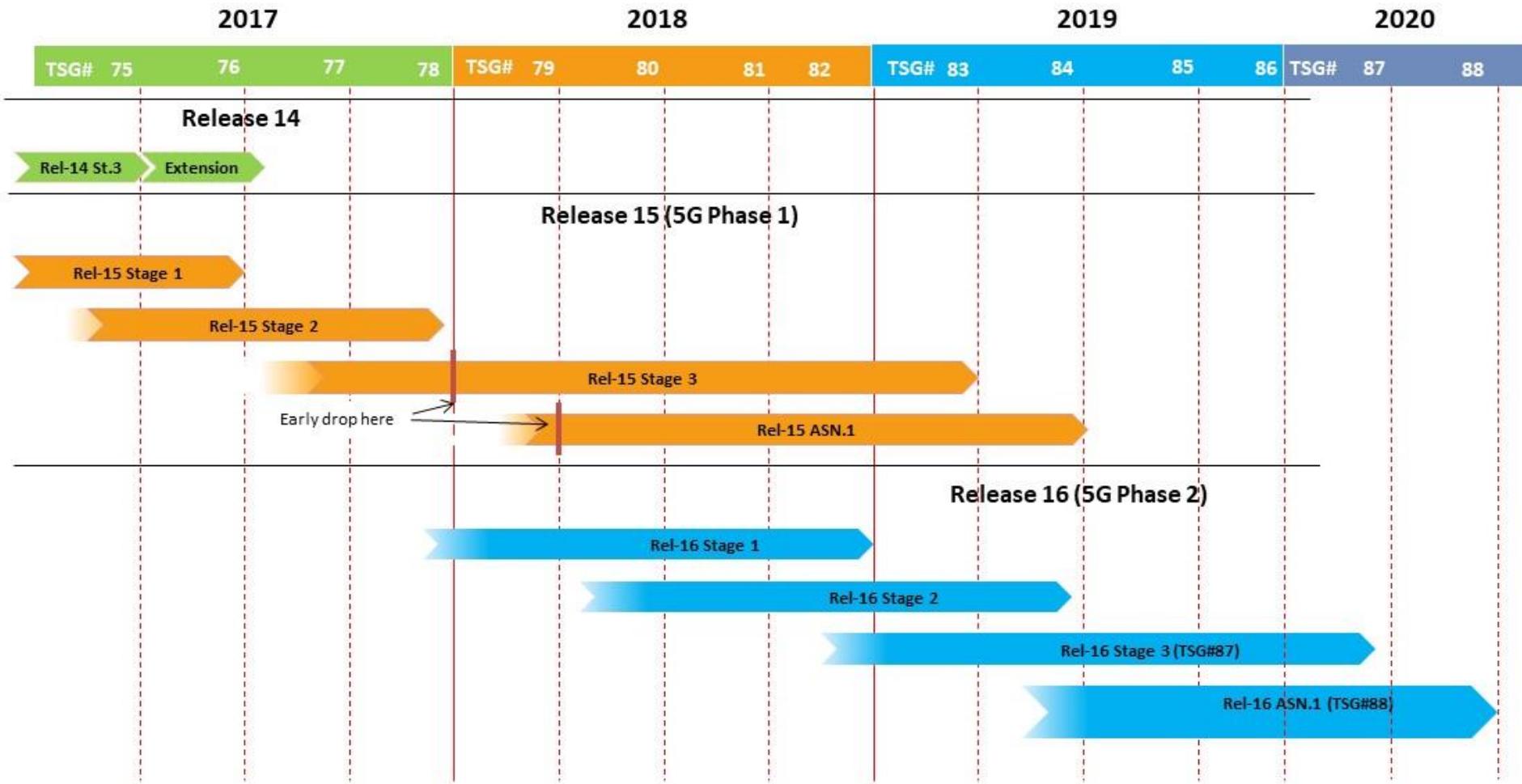


Enhanced MBB



Fixed Wireless Access

- 1000X Data Volumes
- 5X Nw Energy Efficiency
- 3X Spectral Efficiency
- 10-100X End user data rates
- 5X Lower Latency



Time Plan

Early drop to support emerging market needs

Release 15 (Phase 1) to enable first phase (Deployments in 2020)