



ON THE ROAD TO 5G

- 31ST SWEDEN-TAIWAN JBC MEETING

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SUBSCRIPTION OUTLOOK TO 2020 – GROWTH IN HSPA AND LTE

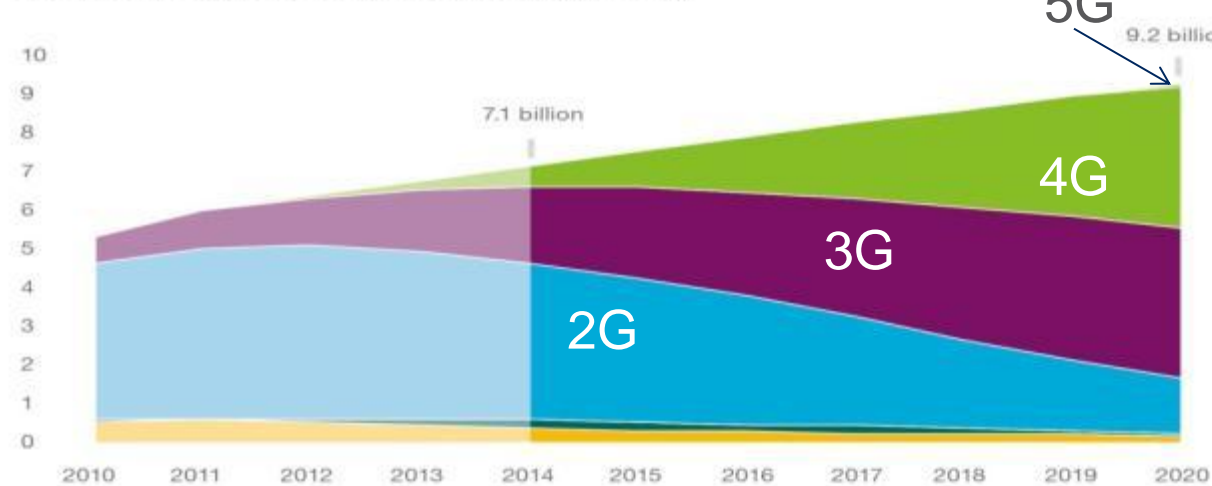


3.7 billion LTE subscriptions by the end of 2020

In 2020:

- › 9.2 billion mobile subscriptions
- › 3.7 billion LTE subscriptions
- › 3.8 billion WCDMA/GSM subscriptions
- › 5G will be commercially deployed

Mobile subscriptions by technology (billion)



- 5G
- LTE/WCDMA/GSM and LTE/CDMA
- WCDMA/GSM
- GSM/EDGE-only
- TD-SCDMA/GSM
- CDMA-only
- Other

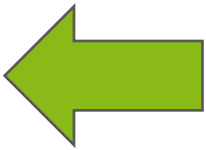
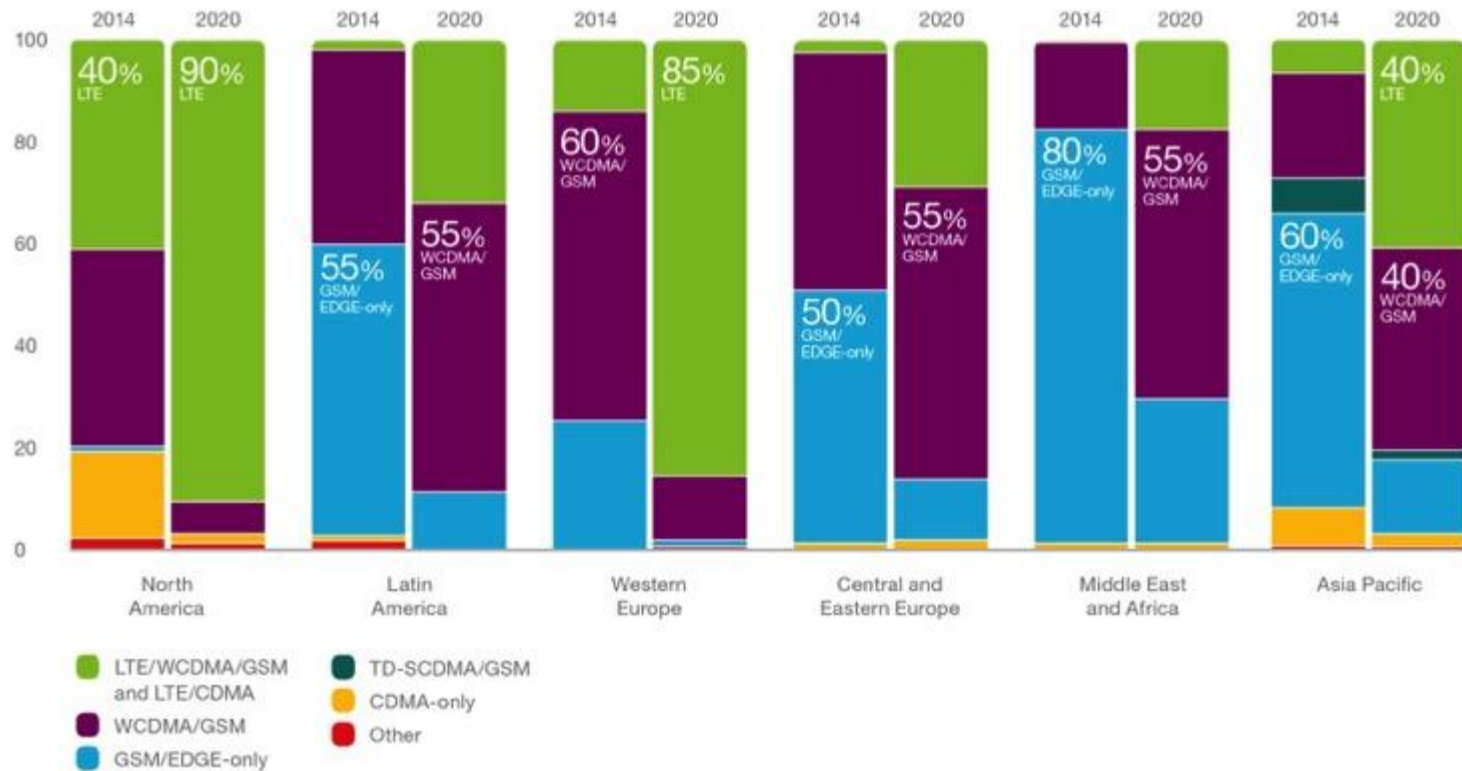
TECHNOLOGY BY REGION



North America has the highest share of LTE subscriptions in the world due to rapid migration from CDMA-based networks and HSPA

Western Europe is at the forefront of mobile broadband due to early LTE roll-out, and well-developed 3G networks

Asia Pacific, Latin America and Middle East and Africa will move from mainly GSM/EDGE-only markets to WCDMA/GSM and LTE



REGIONAL MOBILE TRAFFIC



Mobile data traffic increase between 2014 and 2020:

Asia Pacific: X11

Central Europe and Middle East
and Africa : X11

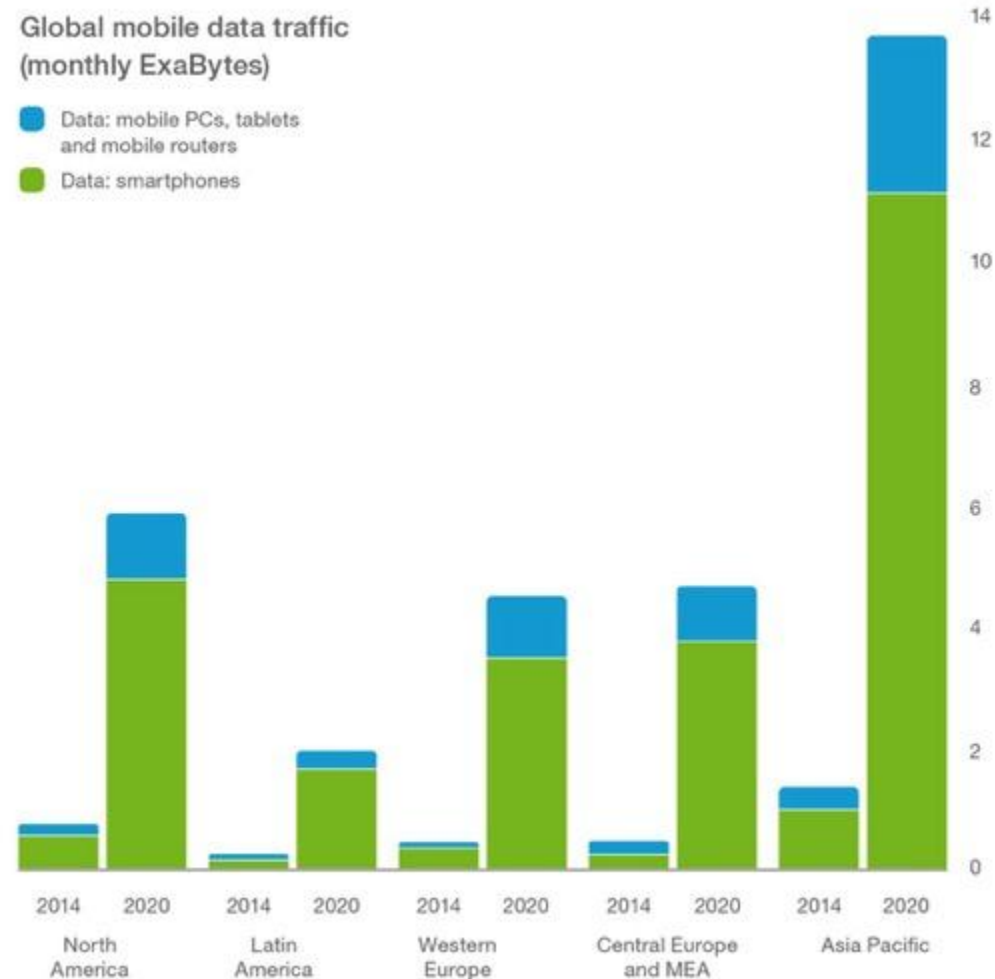
Western Europe: X9

North America: X8

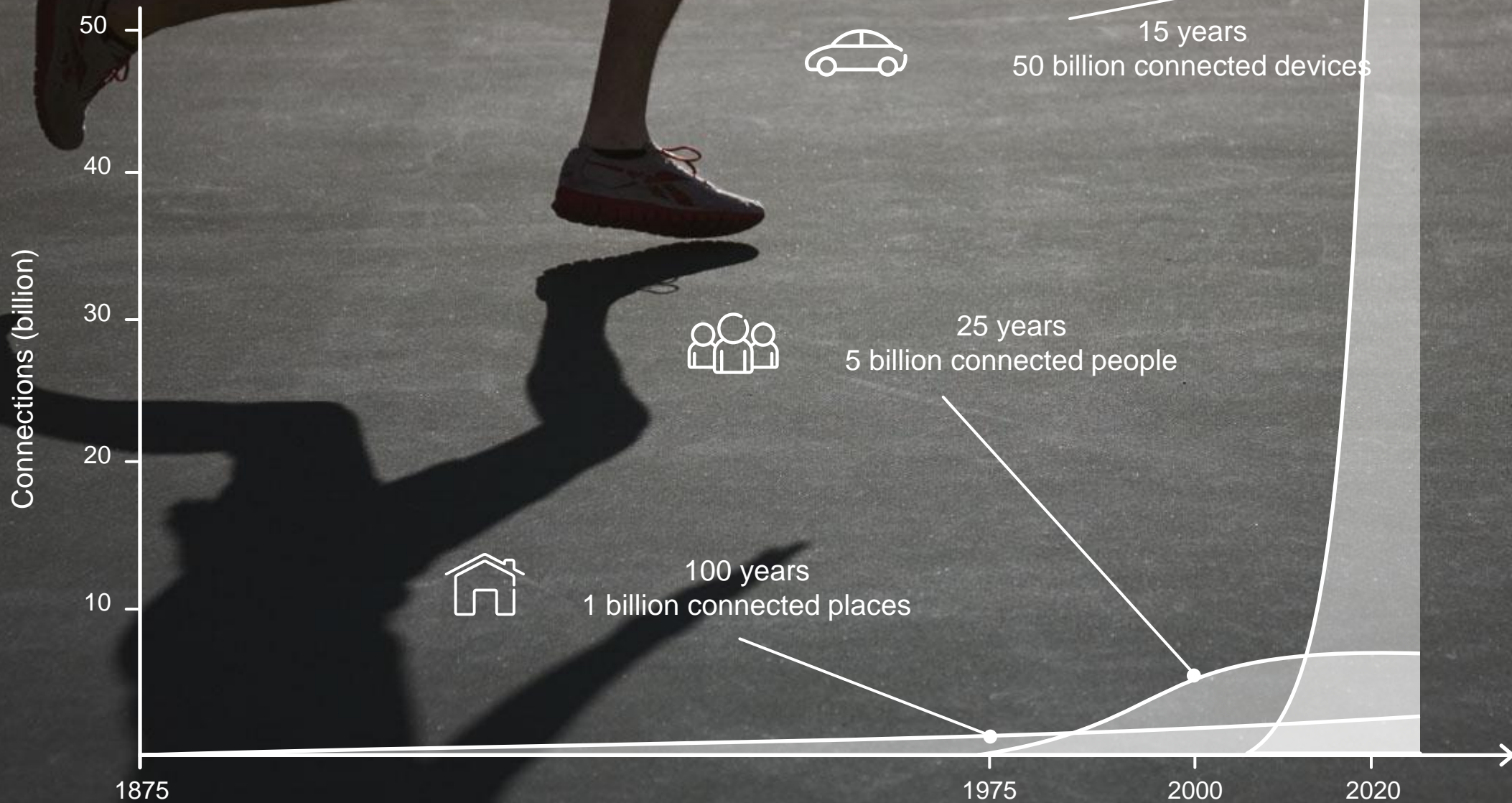
Latin America: X7

Global mobile data traffic
(monthly ExaBytes)

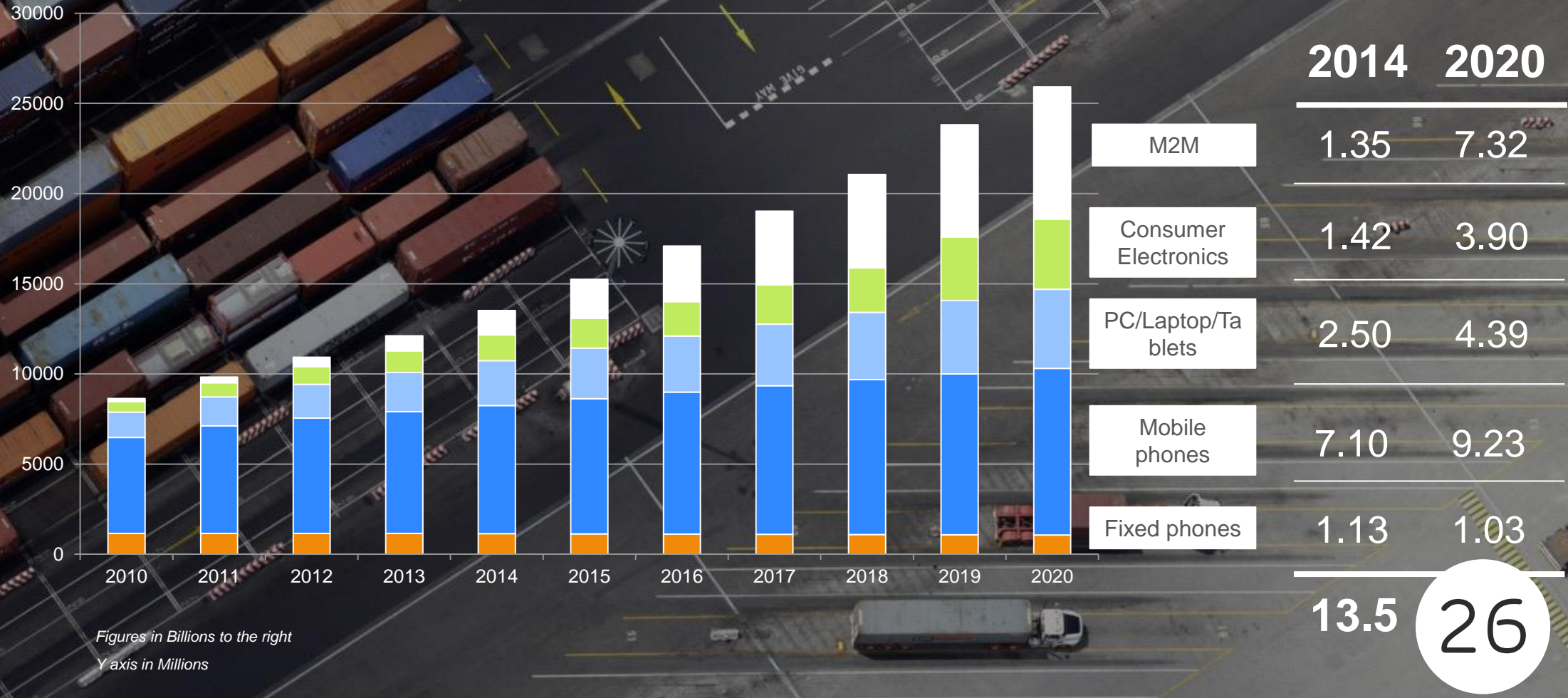
- Data: mobile PCs, tablets
and mobile routers
- Data: smartphones



PROGRESS



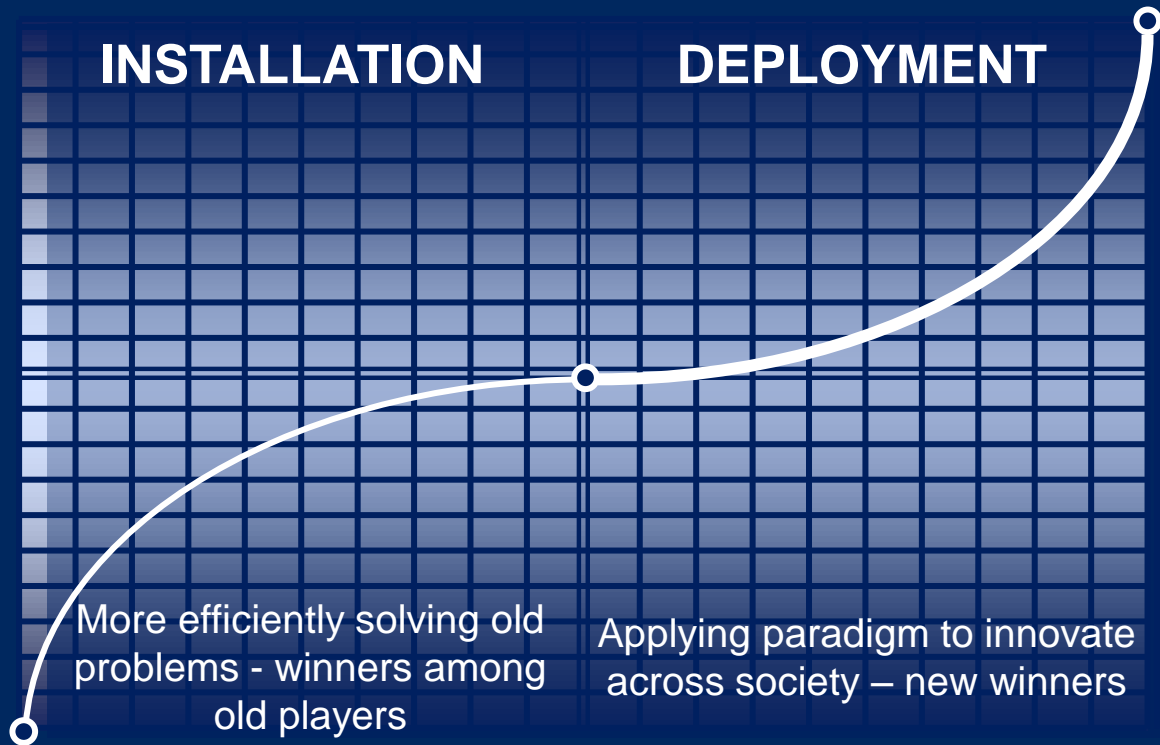
26B CONNECTED DEVICES IN 2020



Figures in Billions to the right
Y axis in Millions

THE NETWORKED SOCIETY

WE ARE AT THE ICT INFLECTION POINT

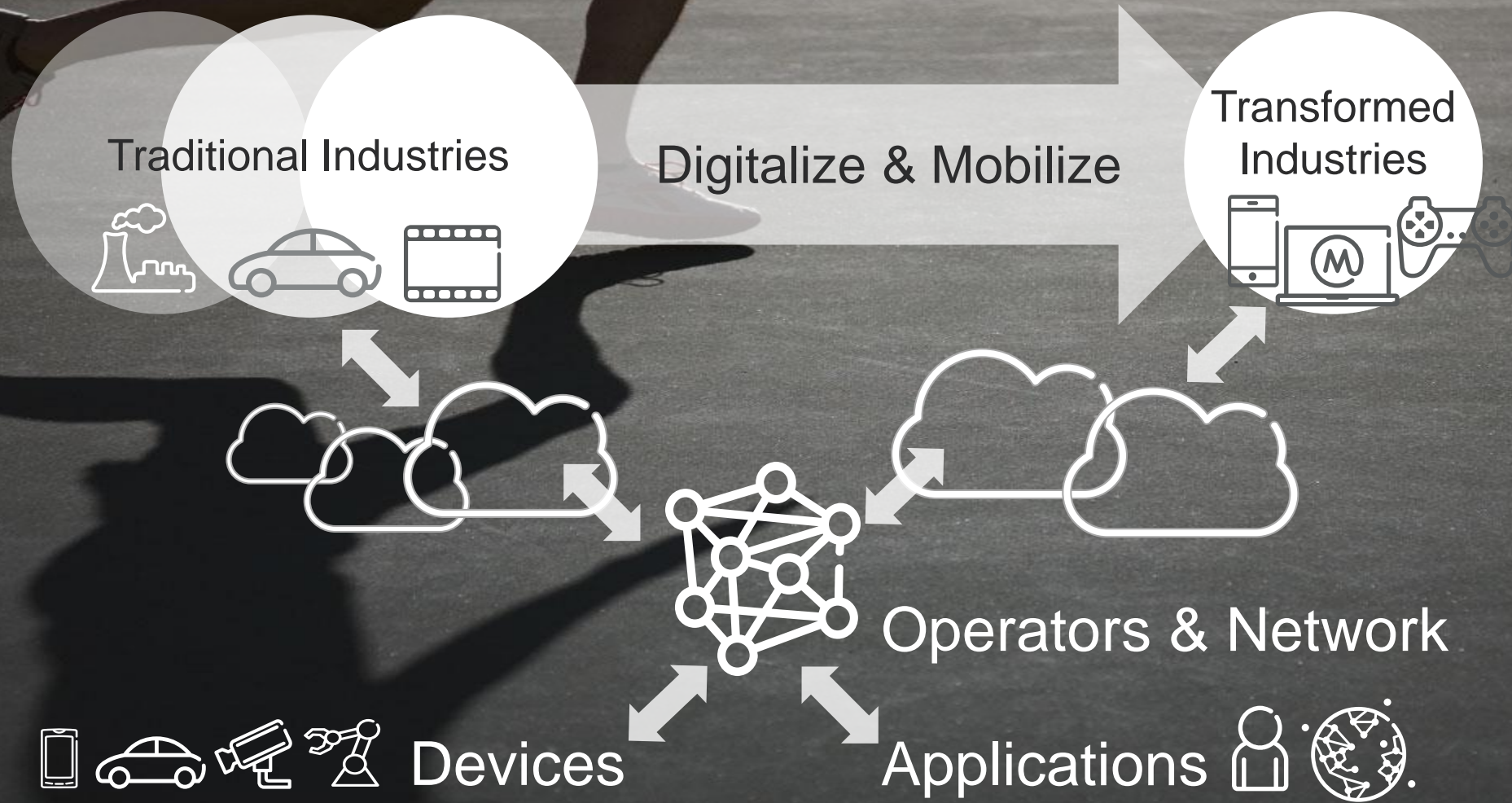


- › Foundation for innovation
- › Broad application
- › Transforming society



MOBILITY - BROADBAND - CLOUD

INDUSTRY TRANSFORMATION



NEW OPPORTUNITIES – NEW CHALLENGES



Increased
network capacity

Open and capable
devices

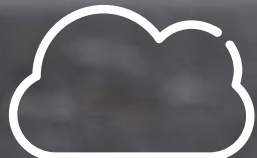


New things
get connected

An IP based unified
global network



More services
get networked



More cloud
storage & services



More commerce &
financial transactions



More decisions
based on real-time data



NEW LOGICS



MUSIC



CULTURE

RETAIL



EXCHANGE



HEALTHCARE



WELLNESS



EDUCATION



LEARNING



TRANSPORT



MOBILITY

UTILITY



FUNCTION

BANKING



TRANSACTION



5G REQUIREMENTS AND USE CASES



5G Requirements
Extreme & Diverse

Sustainable



5X
Lower Latency

1000X

Mobile Data Volumes

10X

Battery Life

Secure



10-100X

End-user Data Rates



10-100X

Connected Devices

Common Network
Dynamic & Secure Network
Slices



Critical Communications

<5ms E2E delay

99.999% transmission reliability

500 Km/h relative velocity



Massive Communications

>10 years battery lifetime

>80% cost reduction

20dB better coverage



5G USE CASE EXAMPLES



Broadband experience
everywhere anytime



Massive Machine
Type Communication

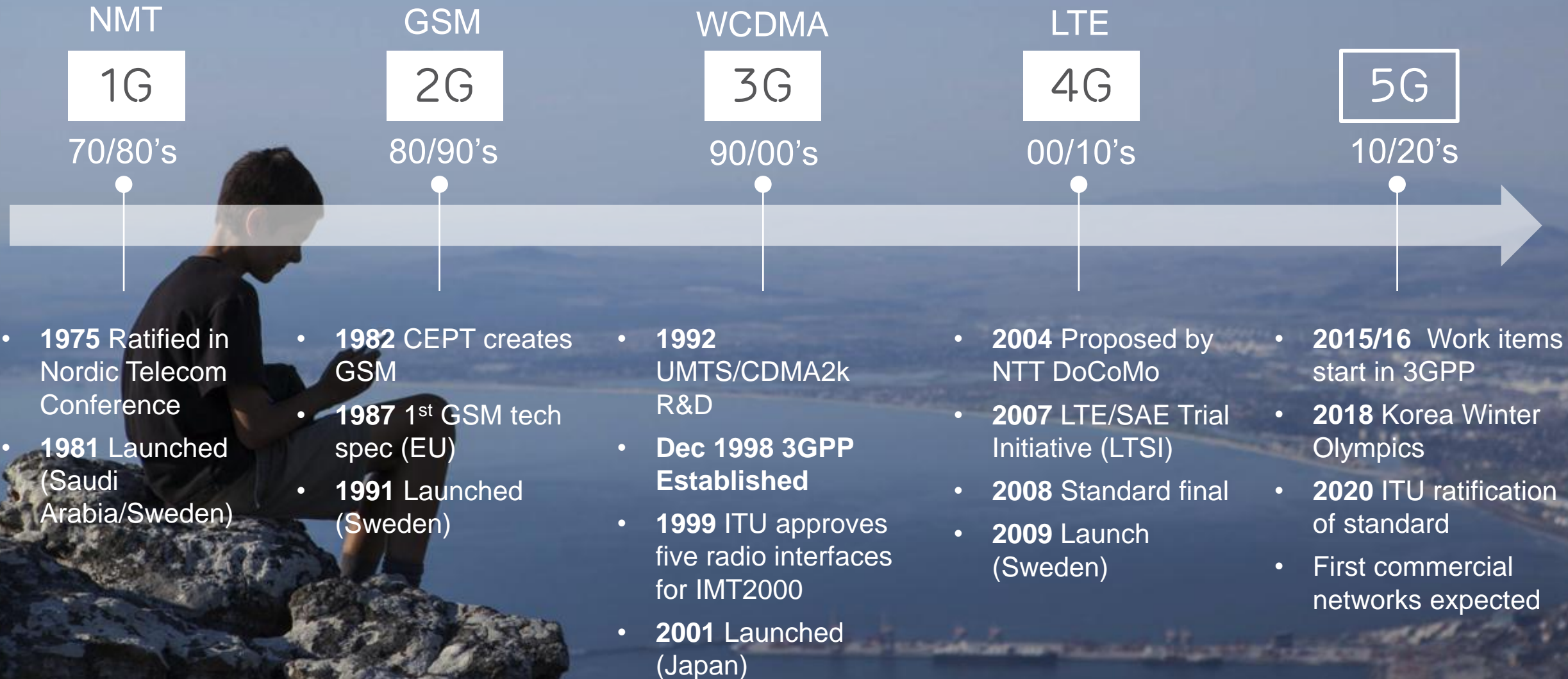


Mass market
personalized TV



Critical Machine
Type Communication

A NEW GENERATION OF CELLULAR STANDARD APPROX EVERY ~10 YRS





ERICSSON