

# The Road to 6G and “IMT-2030”

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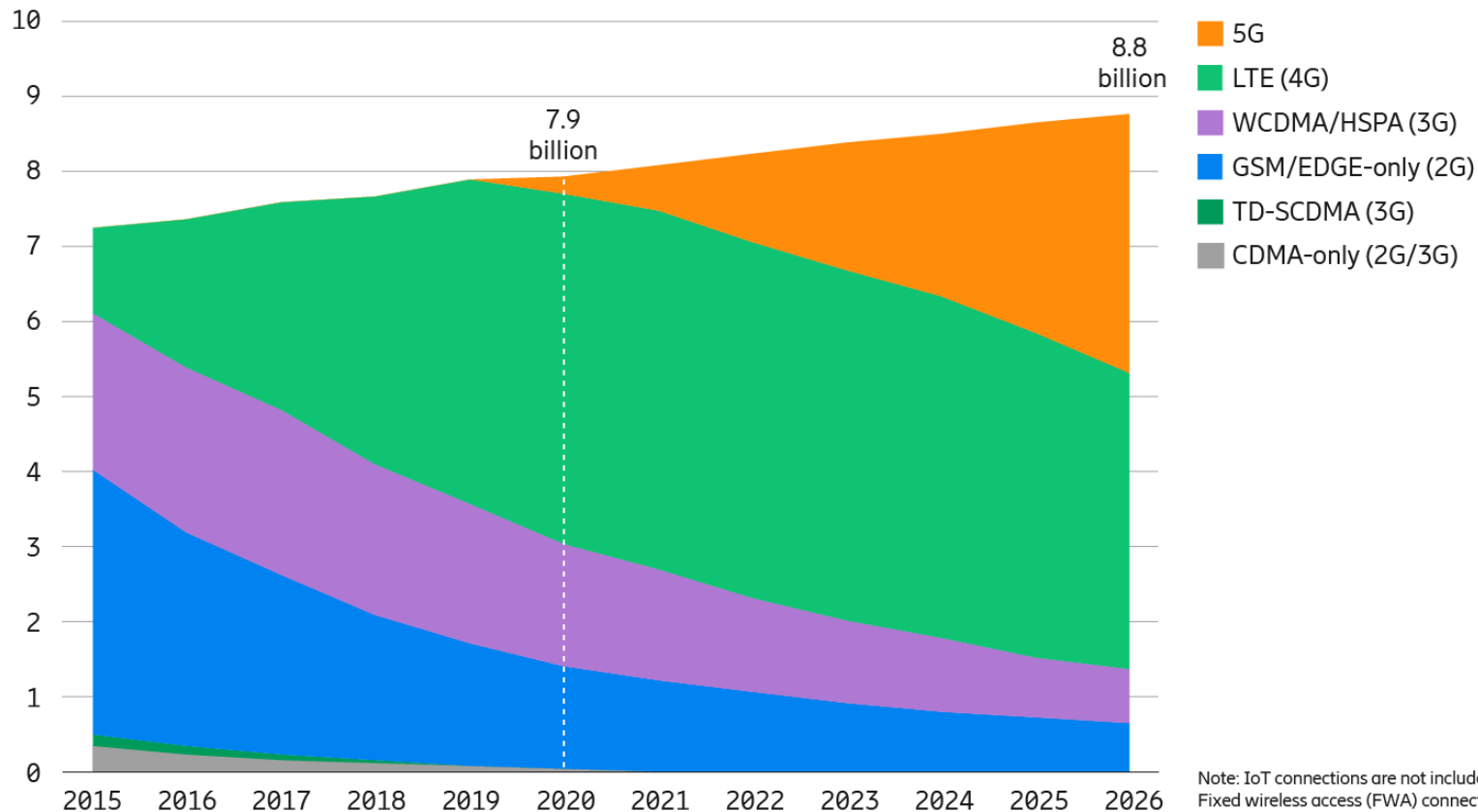
Ericsson Group Function Technology



# In 2026 there will be 3.5 billion 5G subscriptions



Mobile subscriptions by technology (billion)



Note: IoT connections are not included in this graph. Fixed wireless access (FWA) connections are included.

220m

220 million 5G subscriptions expected end of 2020.

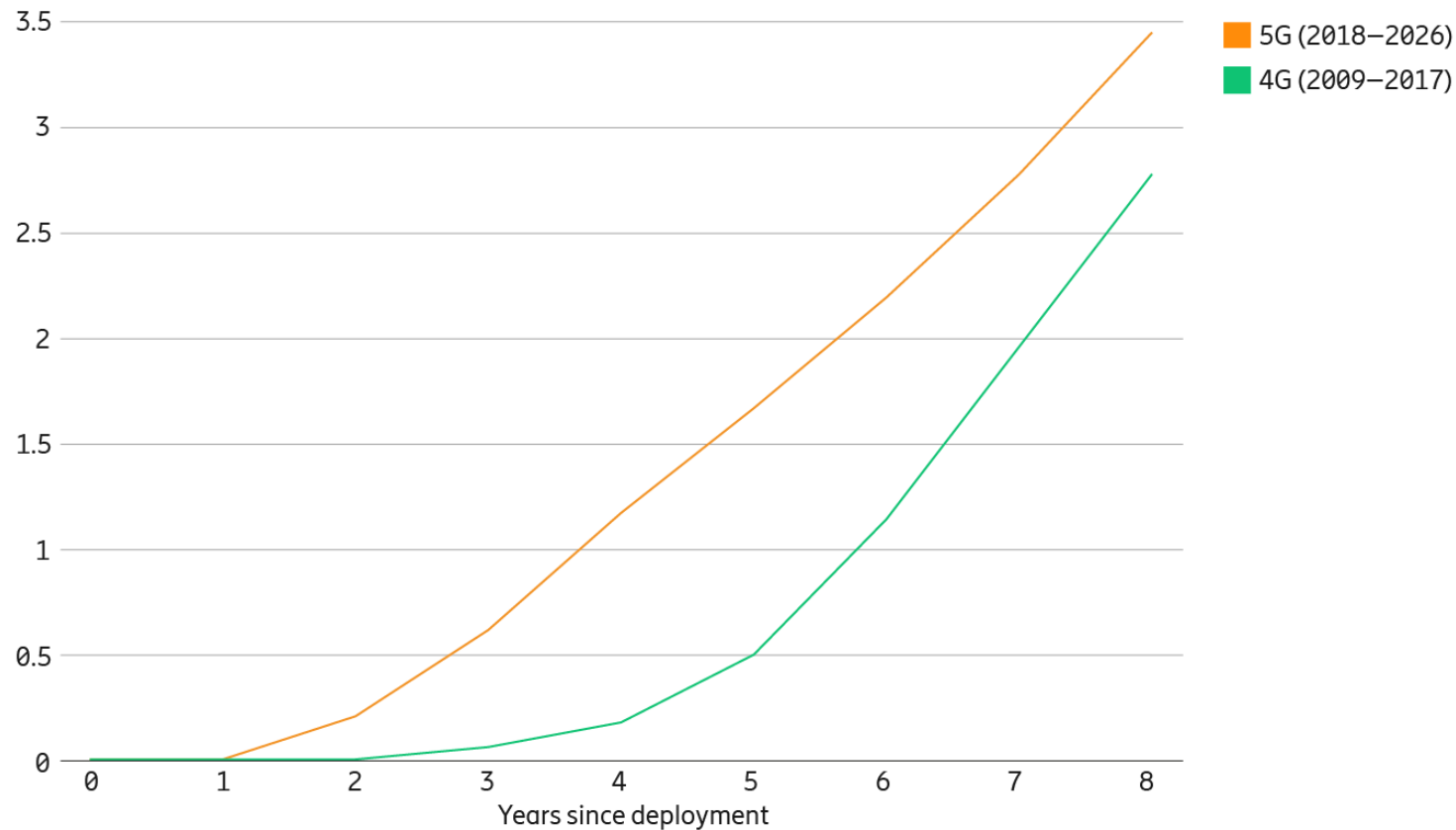
>100

More than 100 service providers around the world have launched 5G.

# 5G subscription uptake expected to be significantly faster than for LTE



Comparison of 5G and 4G subscriptions uptake in the first years of deployment (billion)



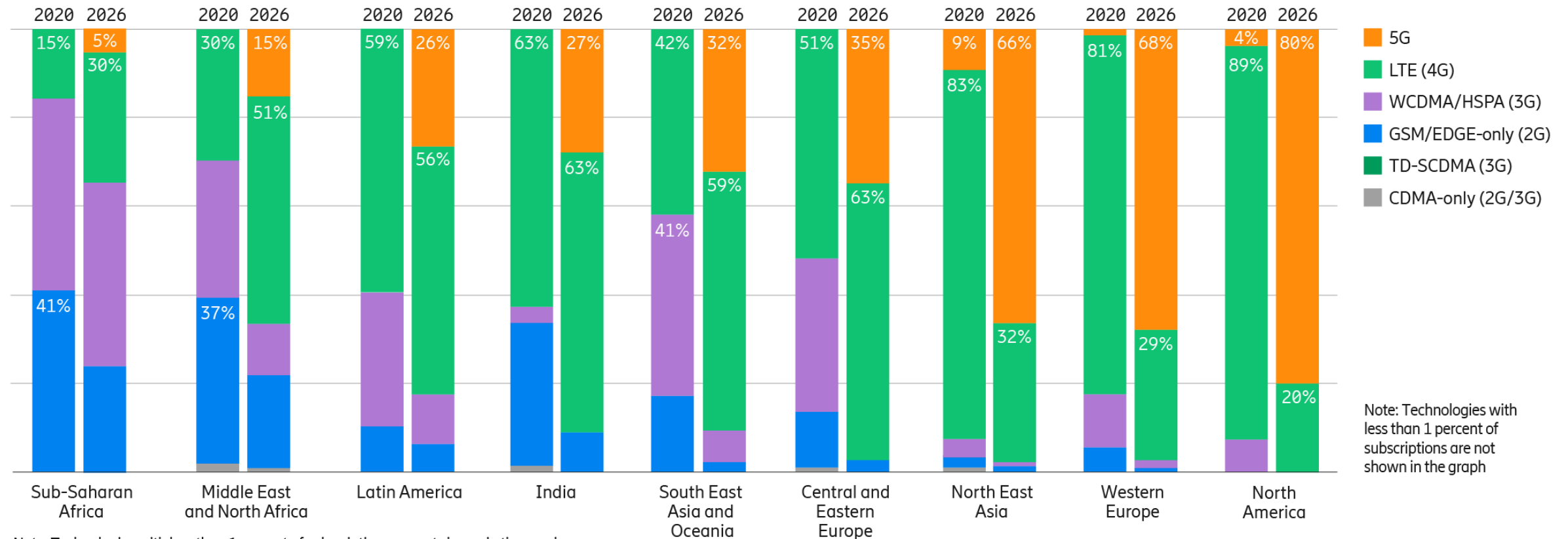
# 40%

In 2026, 5G subscriptions will account for around 40 percent of all mobile subscriptions.

# 80 percent of mobile subscriptions for 5G in North America in 2026



Mobile subscriptions by region and technology (percent)

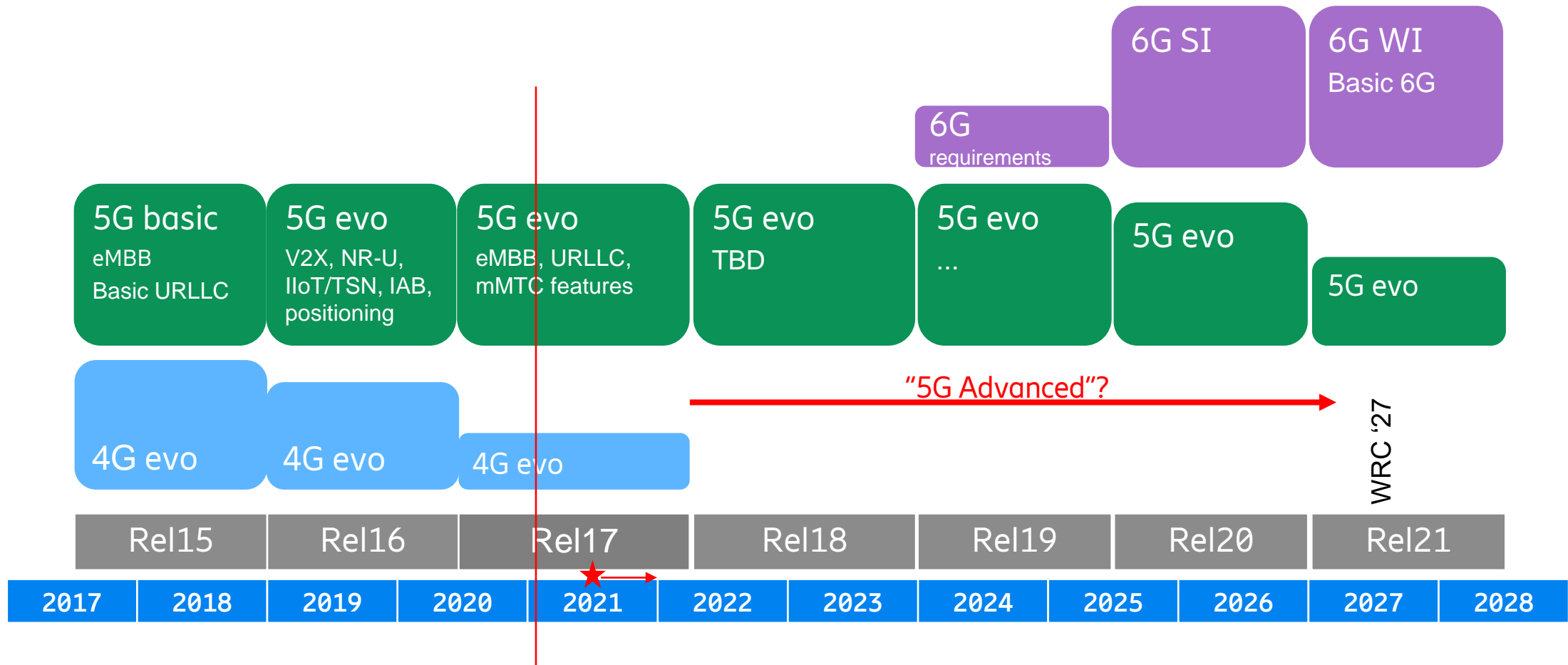


Note: Technologies with less than 1 percent of subscriptions are not shown in the graph

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# Standardization timelines in 3GPP\*

*From 5G to the foreseen 6G activities*



\* dates beyond 2022 are current best guesses not confirmed by 3GPP

# Driving forces for future technology



## Trustworthiness

Trusted communication and computing for industry and society relying on critical information

## A sustainable world

Communication and networking as an enabler for a sustainable society

## Application demands

XR/VR, gaming, smart sensors, internet-of-sense, digital twins, ...

"Limitless connectivity"

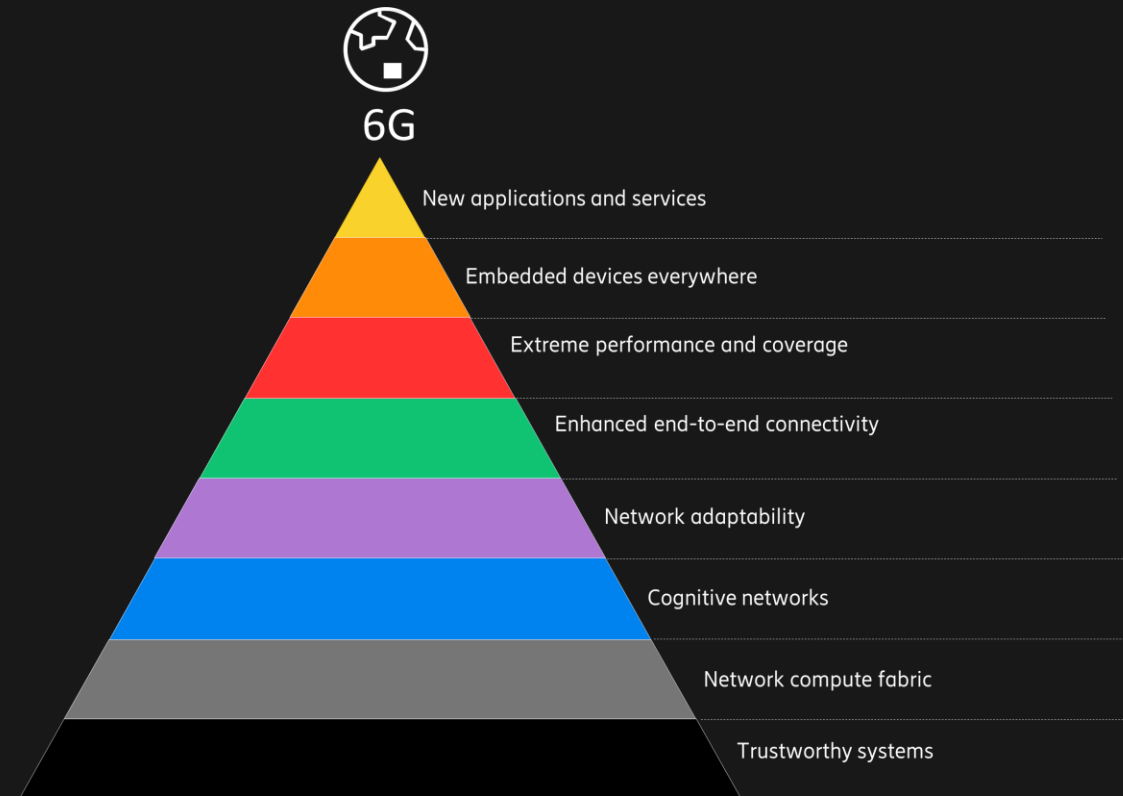
## Simplified life

Massive use of data & AI across systems  
Communicating intelligent machines further stretching the demands

... at an affordable cost

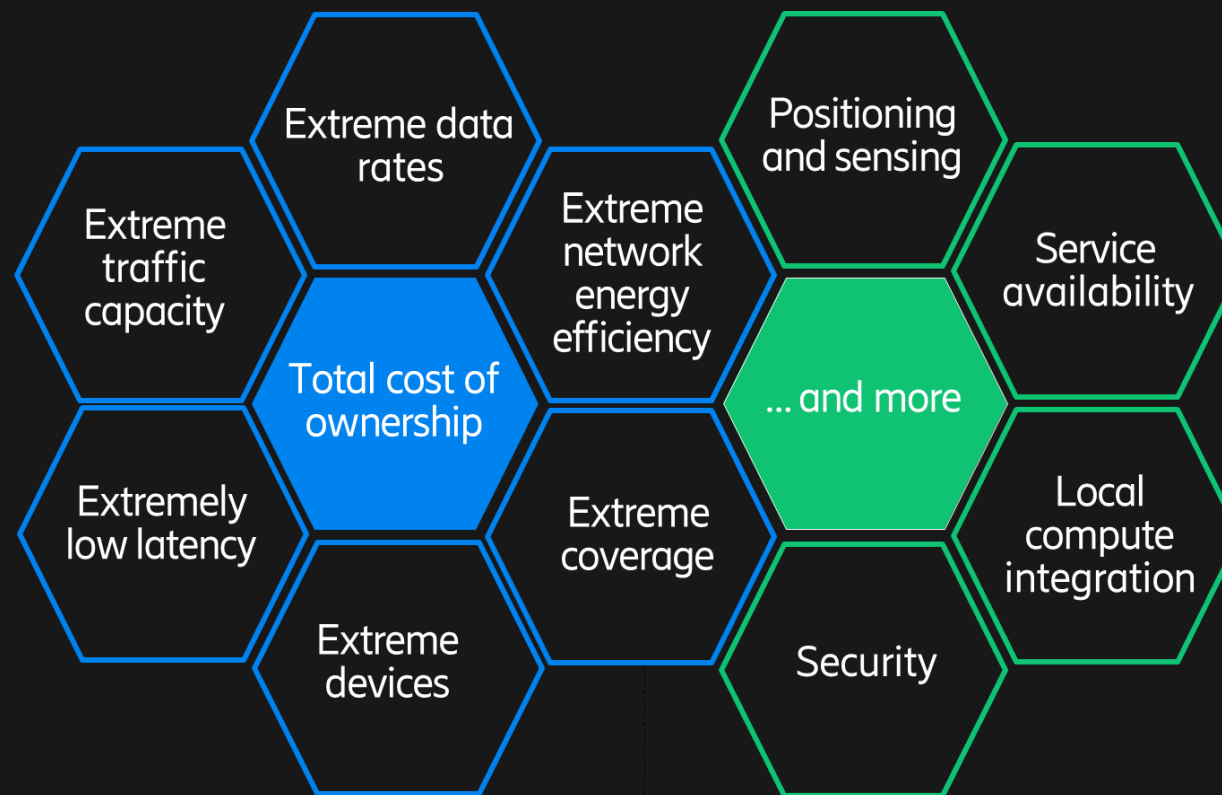


# Foundations of 6G





# Needed capabilities







# Technology journeys

Trustworthy Systems



Network compute fabric



Cognitive network



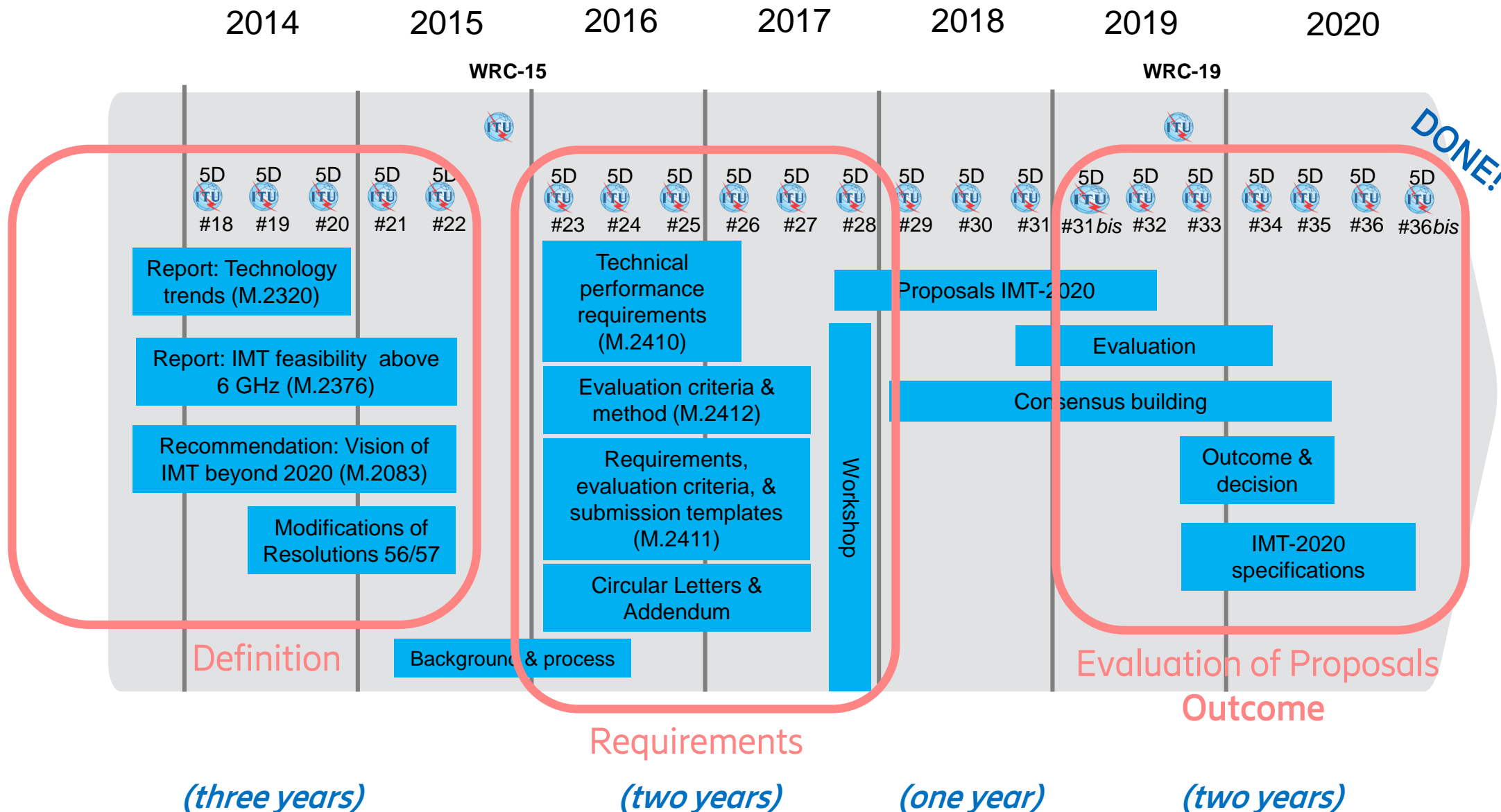
Limitless connectivity



Technology scenarios evolving the network platform

# THE TIME JOURNEY for 5G/IMT-2020

## Detailed specifications for the terrestrial radio interfaces



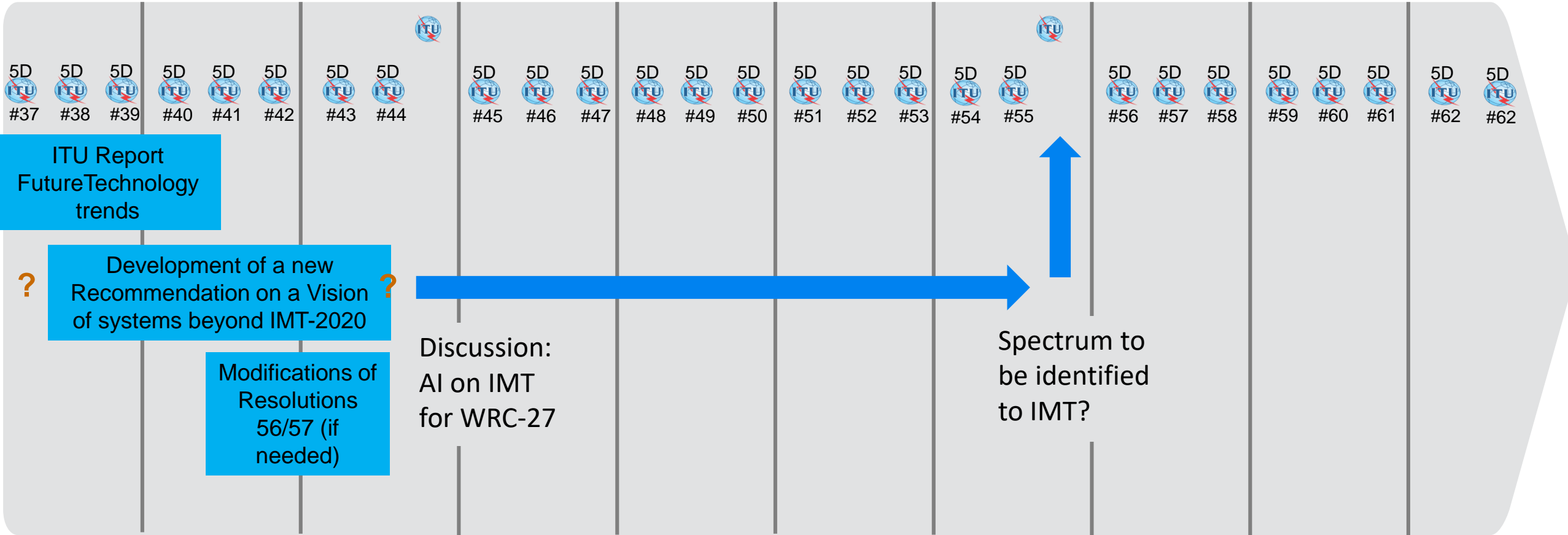
# Initial work started in ITU-R WP5D towards "beyond IMT-2020"



2021      2022      2023      2024      2025      2026      2027      2028      2029      2030

WRC-23

WRC-27



# Foreseen timeline on work towards "IMT-2030"



2021      2022      2023      2024      2025      2026      2027      2028      2029      2030

WRC-23

WRC-27

