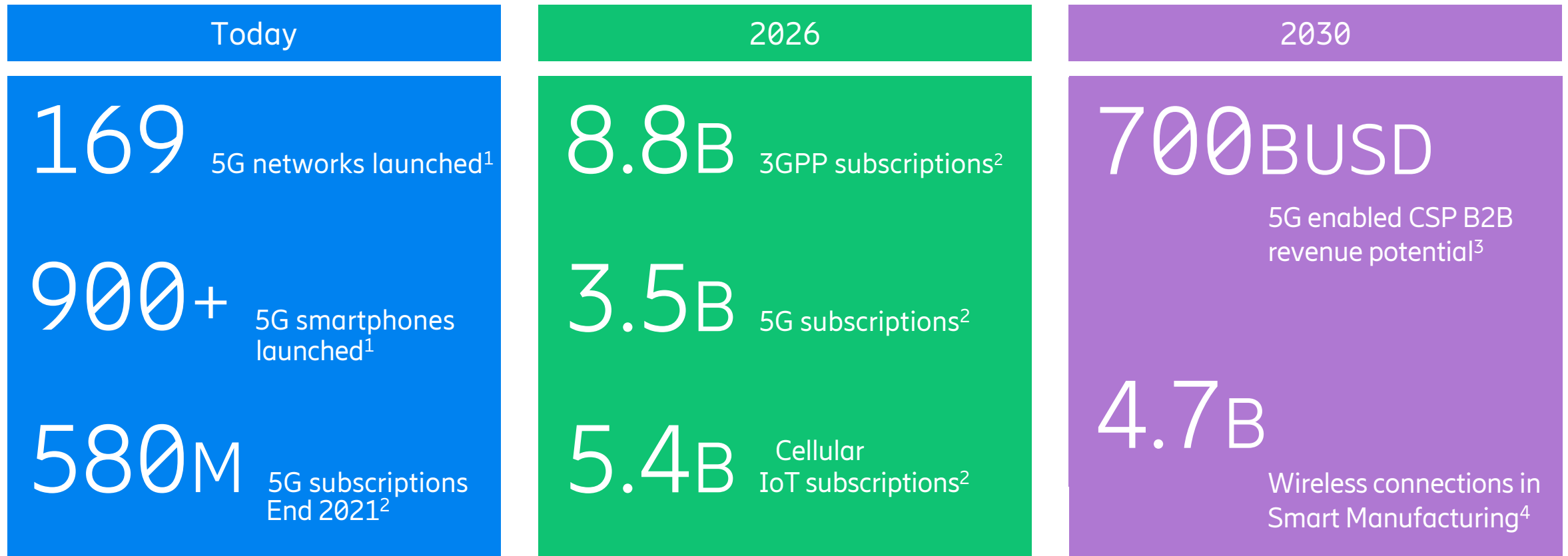


From 5G/IMT-2020 towards 6G/"IMT-2030"

Håkan Ohlsén, Ph.D.
Standards & Industry - APAC
Ericsson Group Function Technology
(Vice-Chair ITU-R WP5D)

Leveraging 5G—global scale, global momentum



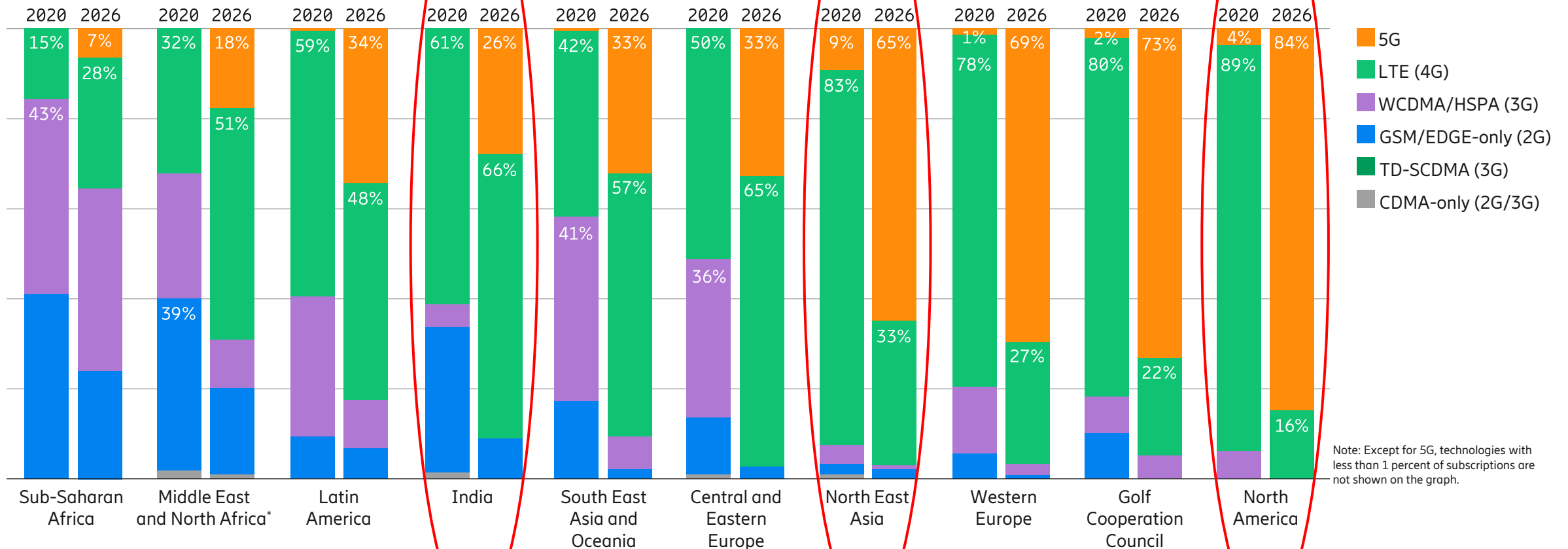
3GPP 5G drives scale and innovation for consumers and enterprises

¹ GSA Aug 21; ² Ericsson; ³ Ericsson & Arthur D Little; ⁴ ABI Research

Large percentage 5G subscriptions by 2026



Mobile subscriptions by region and technology (percent)



Note: Except for 5G, technologies with less than 1 percent of subscriptions are not shown on the graph.

ITU RECOMMENDATIONS ON IMT



Basis for Licensing to IMT – WP5D is Focal Point

“International Mobile Telecommunications”



3G /
IMT-2000

WCDMA/HSPA/LTE
Cdma-2000
TD-SCDMA
EDGE/UWC-136
DECT
WiMAX

4G /
IMT-Advanced

LTE-Advanced
WiMAX

5G /
IMT-2020

3GPP 5G-SRIT
3GPP 5G-RIT
5Gi (TSDSI)

?

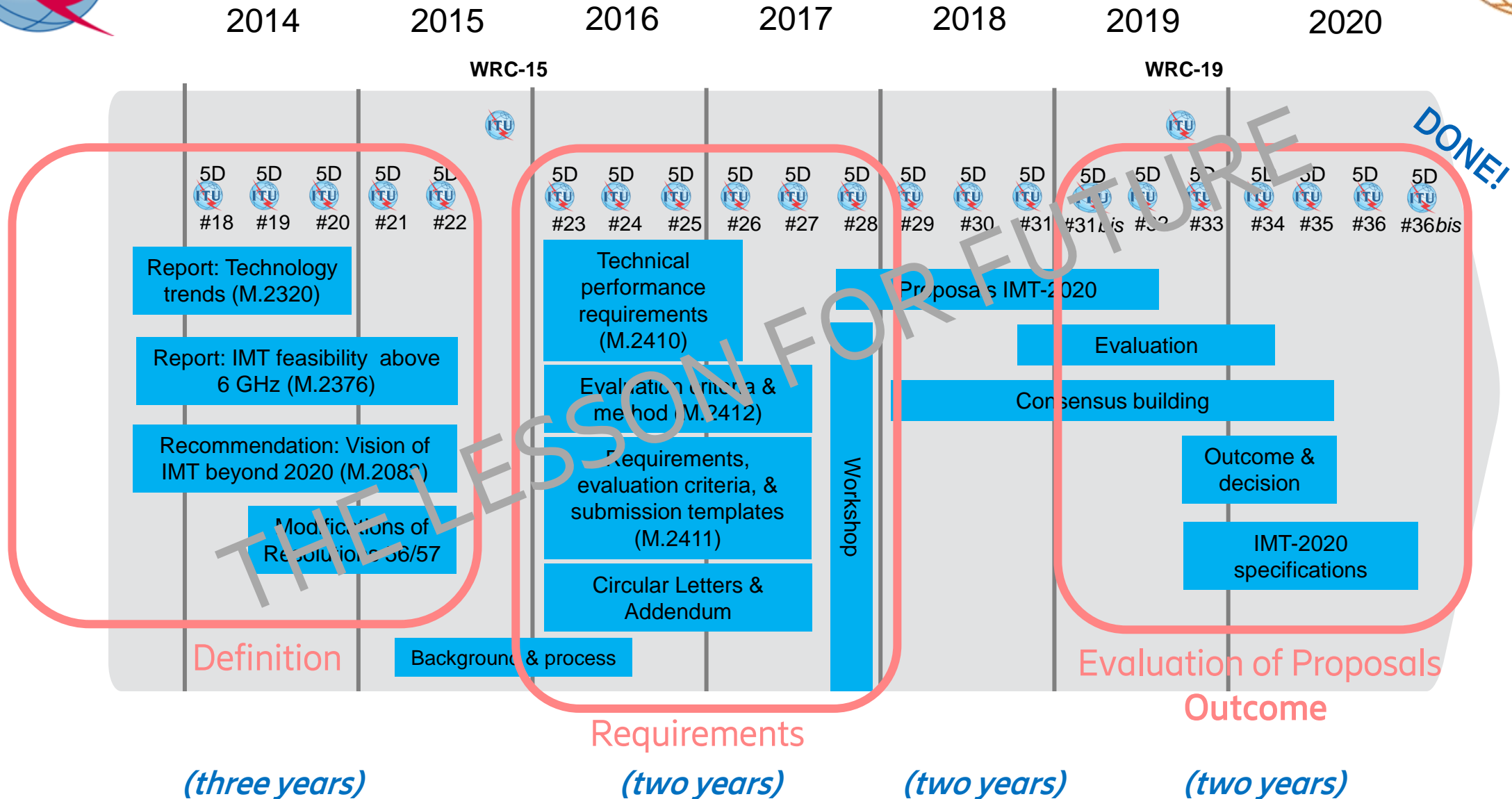
6G /
“IMT-2030”

?



WP 5D timeline for IMT-2020

Detailed specifications for the terrestrial radio interfaces



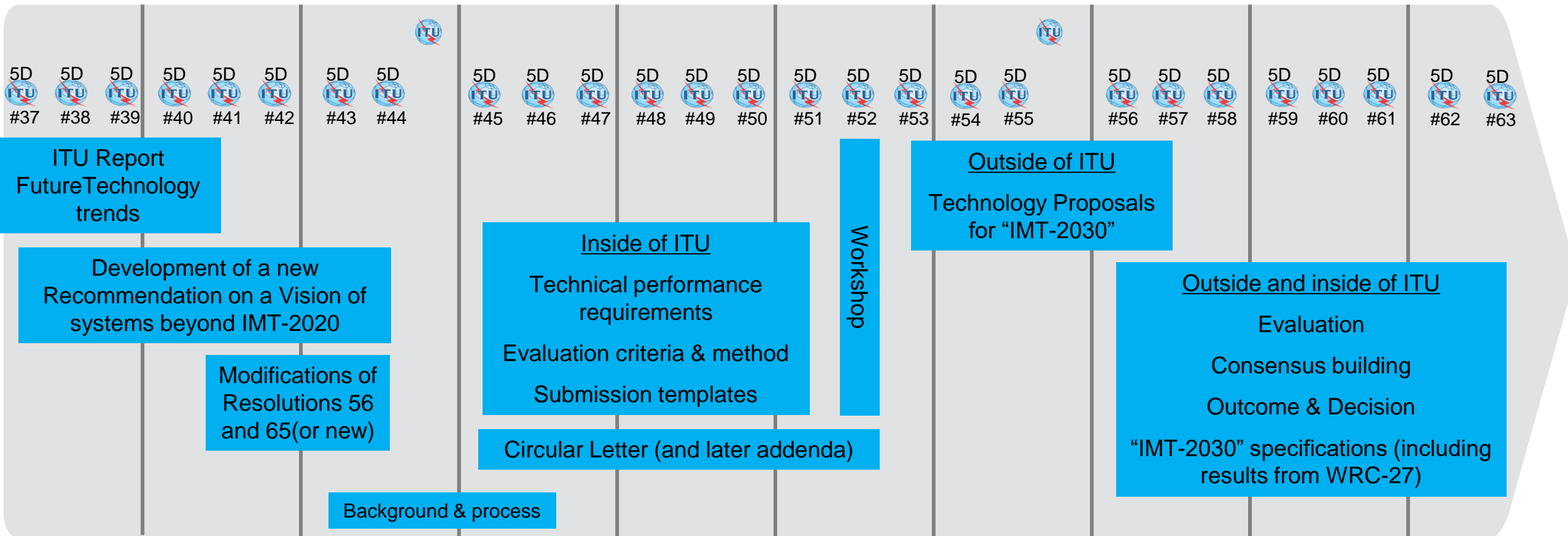
Suggested overview timeline on "IMT towards 2030 and beyond"

February WP5D#37

2021 2022 2023 2024 2025 2026 2027 2028 2029 2030

WRC-23

WRC-27































Overview timeline on "IMT towards 2030 and beyond"

2021 2022 2023 2024 2025 2026 2027 2028 2029 2030

WRC-23

WRC-27

 #37
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Report on Future Technology trends

New Vision Recommendation towards 2030 and beyond

Report on feasibility of IMT in spectrum > 100 GHz

Resolutions ITU-R 56 & 65

Background & process

IMT traffic towards 2040
M.1822 Services revision

Inside of ITU

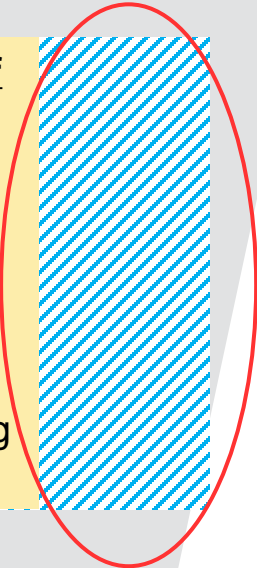
- Technical performance requirements
- Evaluation criteria & method
- Submission templates

Workshop

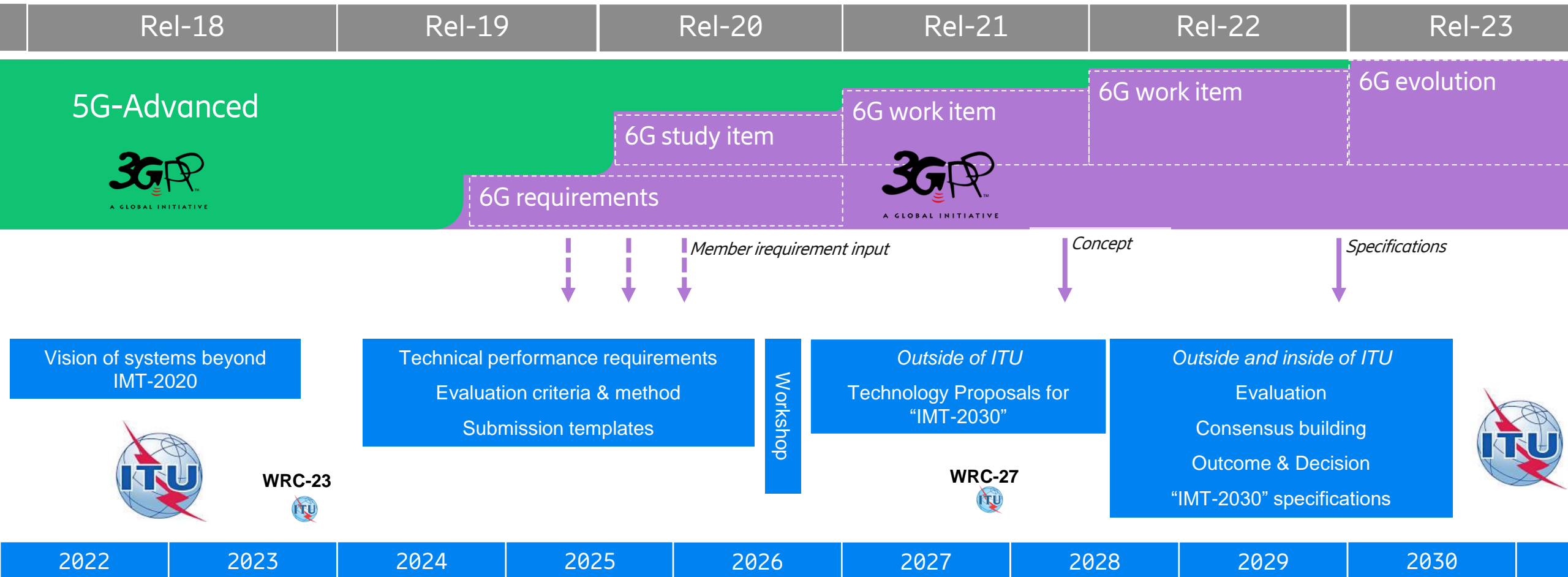
Outside of ITU
Technology Proposals for "IMT-2030"

Outside and inside of ITU

- Evaluation
- Consensus building
- Outcome & Decision
- "IMT-2030" specifications (including results from WRC-27)

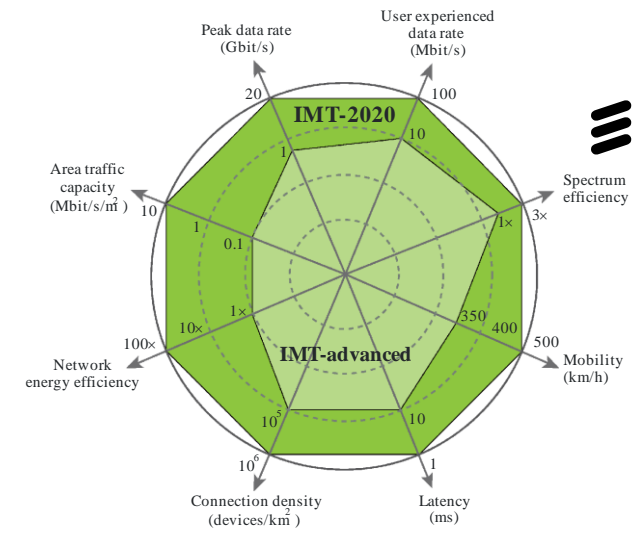


ITU-R and 3GPP timelines – Ericsson proposal



SUMMARY - from 5G/IMT-2020 towards 6G/"IMT-2030"

- ITU-R [Recommendation M.2150](#) of IMT-2020 specifications approved!
- Successful completion of **8 years of work** with cooperation between ITU, Administrations, Research affiliations, and Industry & Standard Organizations
- The BASIS for all was the **"IMT Vision Recommendation"** ITU-R M.2083
- **IMPORTANT** evolution of 5G/IMT-2020 is ongoing in both ITU and 3GPP (continued enhancement of IMT-2020 and IMT-Advanced)
- Work started on a **NEW "IMT Vision Recommendation"** for IMT towards year 2030 and beyond, **scheduled to be completed by mid-2023!**
- New IMT technology family member **6G/"IMT-2030"** by the year 2030!
- What will be the India **harmonized** contribution?



M.2083-03

