

3GPP TSG RAN Meeting #103
Maastricht, Netherlands, March 18-21, 2024

RP-240391



Agenda Item: 15
Source: CATT
Title: Views on 6G Timeline
Document for: Discussion

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- ITU-R has published new Recommendation M.2160 on “Framework and overall objectives of the future development of IMT for 2030 and beyond” referring to LS RP-231518
- High-level considerations for 6G timeline were provided and endorsed in TSG#102 referring to RP-233985
- The remaining details of 6G timeline are to be decided during RAN#103
- In this contribution, CATT proposes 3GPP RAN timeline for 6G preparation

- The potential time relations between 3GPP and ITU
 - ITU studies on technology performance requirements(KPI) and corresponding evaluation criteria from Feb. 2024 to Oct. 2026
 - KPIs are expected stable at Dec. 2025 – Jan. 2026
 - ITU is going to receive the submission of IMT-2030 technology proposal(s) from Jan/Feb. 2027 and IMT-2030 specification is planned to be complete at June 2030
 - It would be good that 3GPP proposes the intention of submission on 6G technology at Feb. 2027 when 3GPP RAN-WG SI on technology going for a while
 - It also indicates the specification(s) from 3GPP are expected ready before Feb. 2030 and there will be at least 16 weeks left for transposing from SDO(s) and ITU logistics.

- Relations among 6G SI(s), workshop and WI

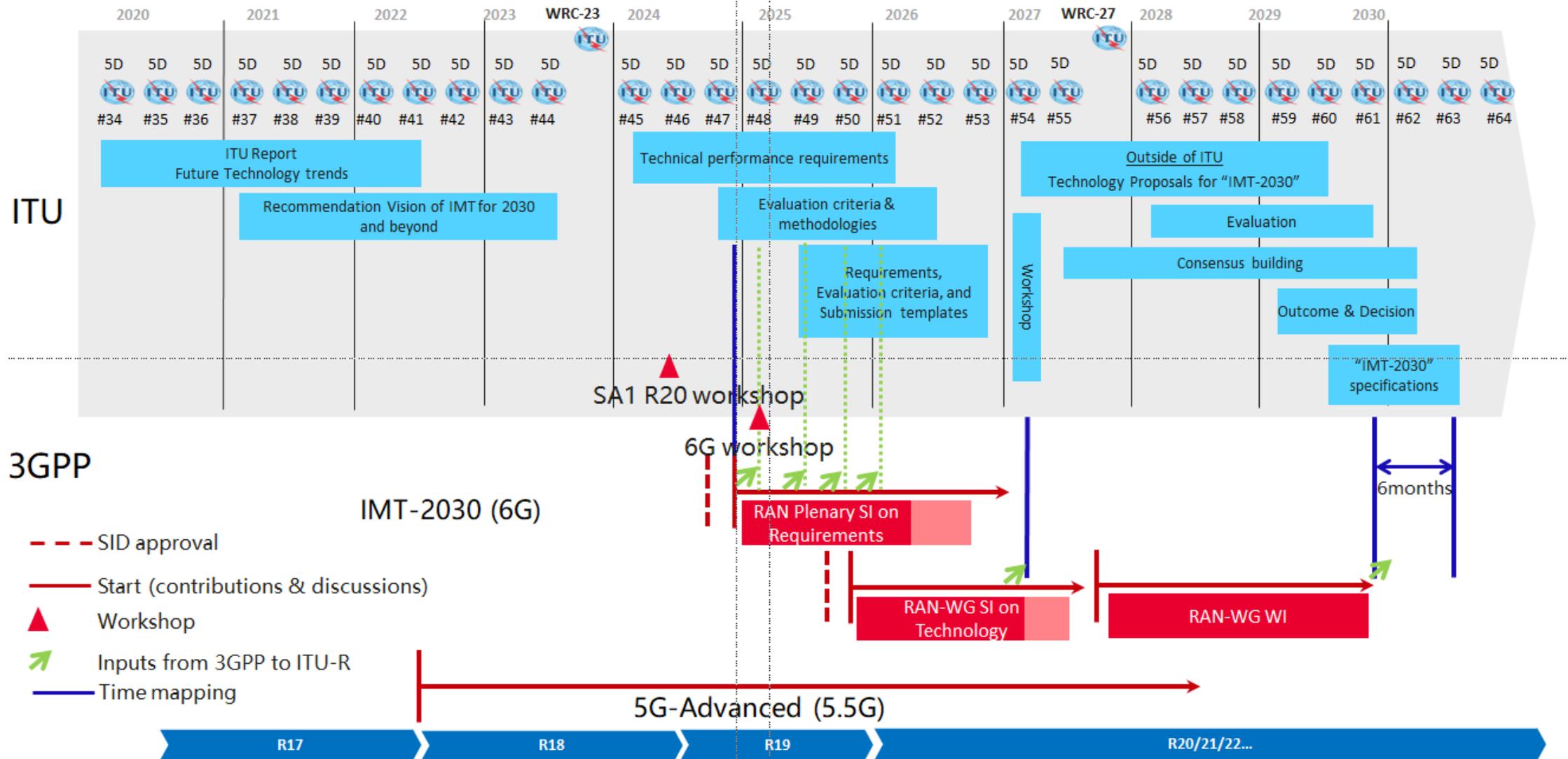
RAN plenary SI on requirements and RAN-WG SI on technology

- SI on 6G requirements in RAN needs to be prior to SI on 6G technologies for sufficient study on the motivation and objects of supporting technologies.
- It is also useful that RAN plenary SI on Req. is prior to 6G workshop
- To provide opportunities to match the requirements between 3GPP and ITU for preparations towards potential technology submission to ITU
- This SI needs to be open for a while even when ITU completes the corresponding report since 3GPP may have further study on additional requirements beyond the ones to qualify the submission

RAN-WG SI on technology and the following WI

- To approve SID on technology at June 2025 and starts its WGs meetings at August 2025
- SI on technology may take 18-24 months for sufficient overall studies
- Another 18-24 months are needed for the following WI

Consideration on 3GPP 6G timeline



- RAN plenary SI on requirements
 - SID approval: Sep. 2024
 - SI starts with contributions and discussions: Dec. 2024
 - Duration
 - Focus on technical performance requirements between Dec. 2024 – Mar. 2026 with sufficient inputs to ITU-R
 - Study potential additional requirements beyond the ones to qualify the submission after Mar. 2026
- RAN-WG SI on technology and the following WI
 - SID approval: Jun. 2025 referring to endorsed RP-233985
 - SI starts at WGs: Aug. 2025 referring to endorsed RP-233985
 - Duration
 - SI on technology starting from Rel-20: 18-24 months with preparation for preliminary submission intention to ITU-R at Dec. 2026
 - The following Rel-21 WI: 18-24 months with hard completion (at least functional freeze) at Dec. 2029

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