

# SUBMISSION AND STANDARDIZATION PROCESS (INCLUDING IPR TREATMENT, CONSENSUS BUILDING AND GCS)

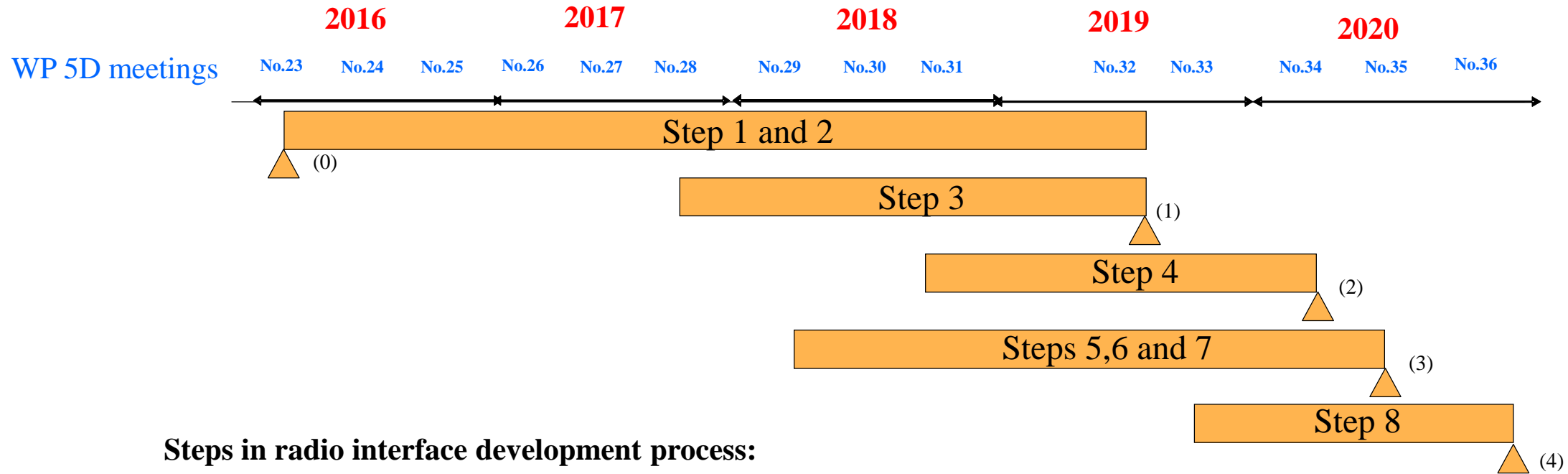
Workshop on IMT-2020 terrestrial radio interfaces (October 4, 2017)

Yoshio Honda

# MAIN REFERENCED DOCUMENT AND ITS SCOPE



- › Document IMT-2020/2(Rev.1): Submission, evaluation process and consensus building for IMT-2020
- › The process and activities for the development of the IMT 2020 terrestrial components radio interface Recommendations.
- › RIT: Radio Interface Technology
- › SRIT: Set of Radio Interface Technologies



**Steps in radio interface development process:**

Step 1: Issuance of the circular letter

Step 2: Development of candidate RITs and SRITs

Step 3: Submission/Reception of the RIT and SRIT proposals and acknowledgement of receipt

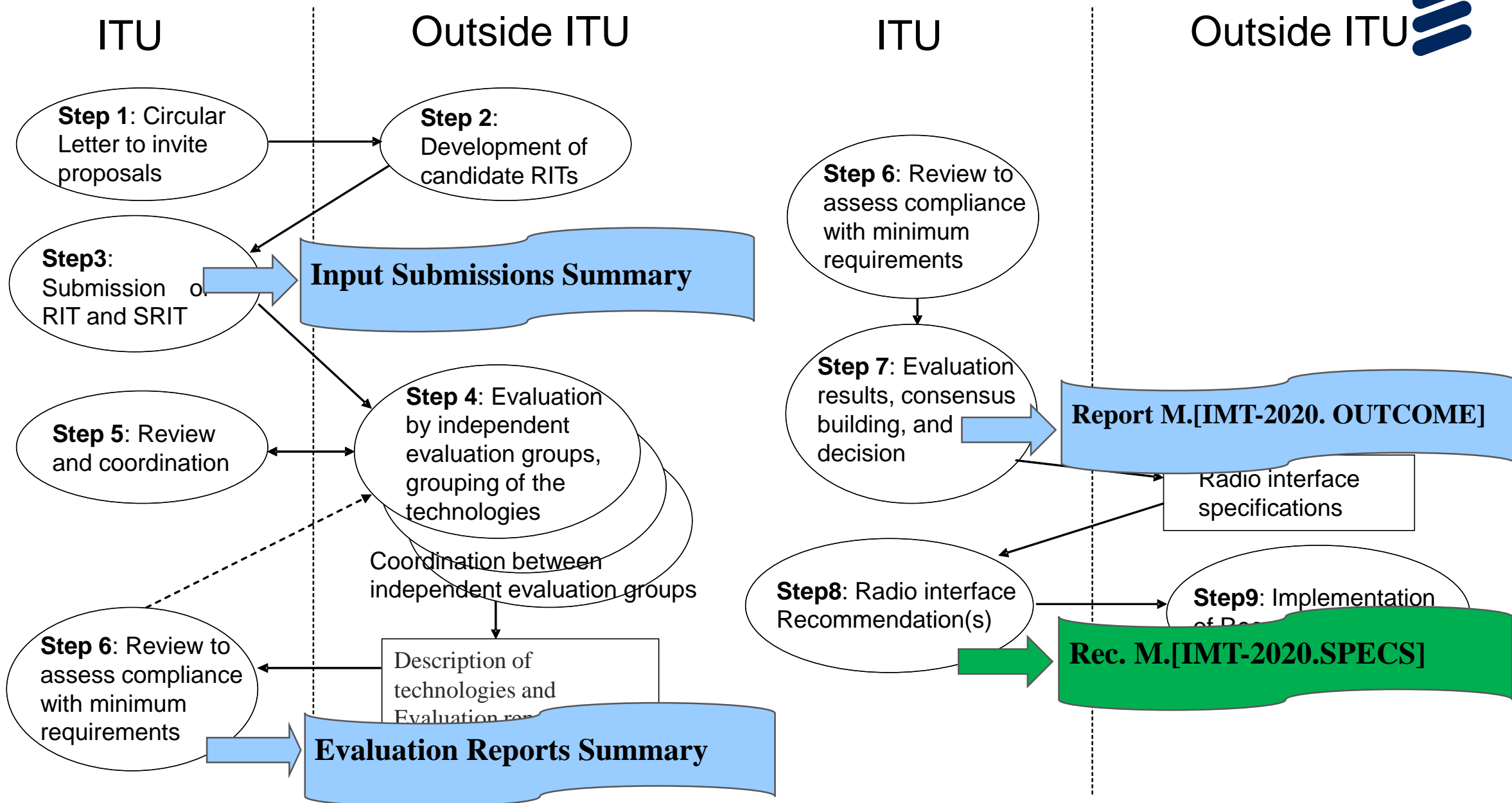
Step 4: Evaluation of candidate RITs and SRITs by Independent Evaluation Groups

Step 5: Review and coordination of outside evaluation activities

Step 6: Review to assess compliance with minimum requirements

Step 7: Consideration of evaluation results, consensus building and decision

Step 8: Development of radio interface Recommendation(s)



# CONDITIONS IN EACH STEP



## › Step 2 (Step 3 and 4)

- An RIT needs to fulfil the minimum requirements for **at least three test environments; two test environments under eMBB and one test environment under mMTC or URLLC.**
- An SRIT consists of a number of component RITs complementing each other, with each **component RIT** fulfilling the minimum requirements of **at least two test environments** and together as an **SRIT** fulfilling the minimum requirements of **at least four test environments comprising the three usage scenarios.**

# CONDITIONS IN EACH STEP



## › Step 6 (to Step 7)

- In this step, the evaluated proposal for an RIT/SRIT is assessed as a qualifying RIT/SRIT, if an RIT/SRIT fulfils the minimum requirements for the **five test environments** comprising the three usage scenarios.

## › Step 7 (to Step 8)

- An RIT or SRIT will be accepted for inclusion in the standardization phase described in Step 8 if, as the result of deliberation by ITU-R, it is determined that the RIT or SRIT meets the requirements of Resolution ITU-R 65, *resolves 6 e) and f)* for the **five test environments** comprising the three usage scenarios.

# TEST ENVIRONMENTS



Geographic environment / Usage scenario	Indoor Hotspot (InH)	Dense urban (DU)	Rural (RU)	Urban macro (UM)
eMBB	✓	✓	✓	-
mMTC	-	-	-	✓
urLLC	-	-	-	✓

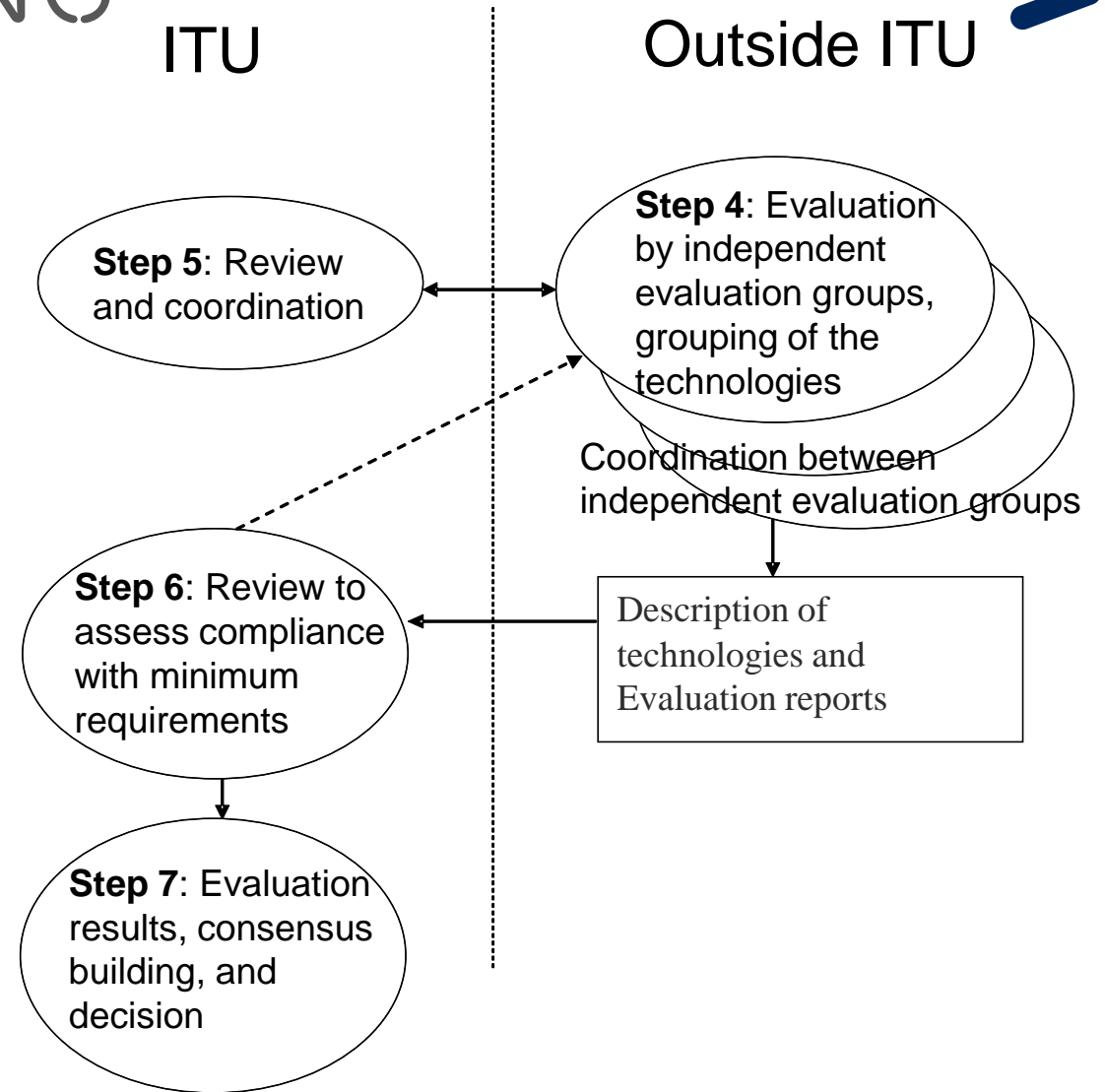
# CONSENSUS BUILDING

ITU

Outside ITU



- › Consensus building is performed during Steps 4, 5, 6 and 7 with the objective of achieving global harmonization and having the potential for wide industry support for the radio interfaces that are developed for IMT-2020. This may include grouping of RITs or modifications to RITs to create SRITs that better meet the objectives of IMT-2020.

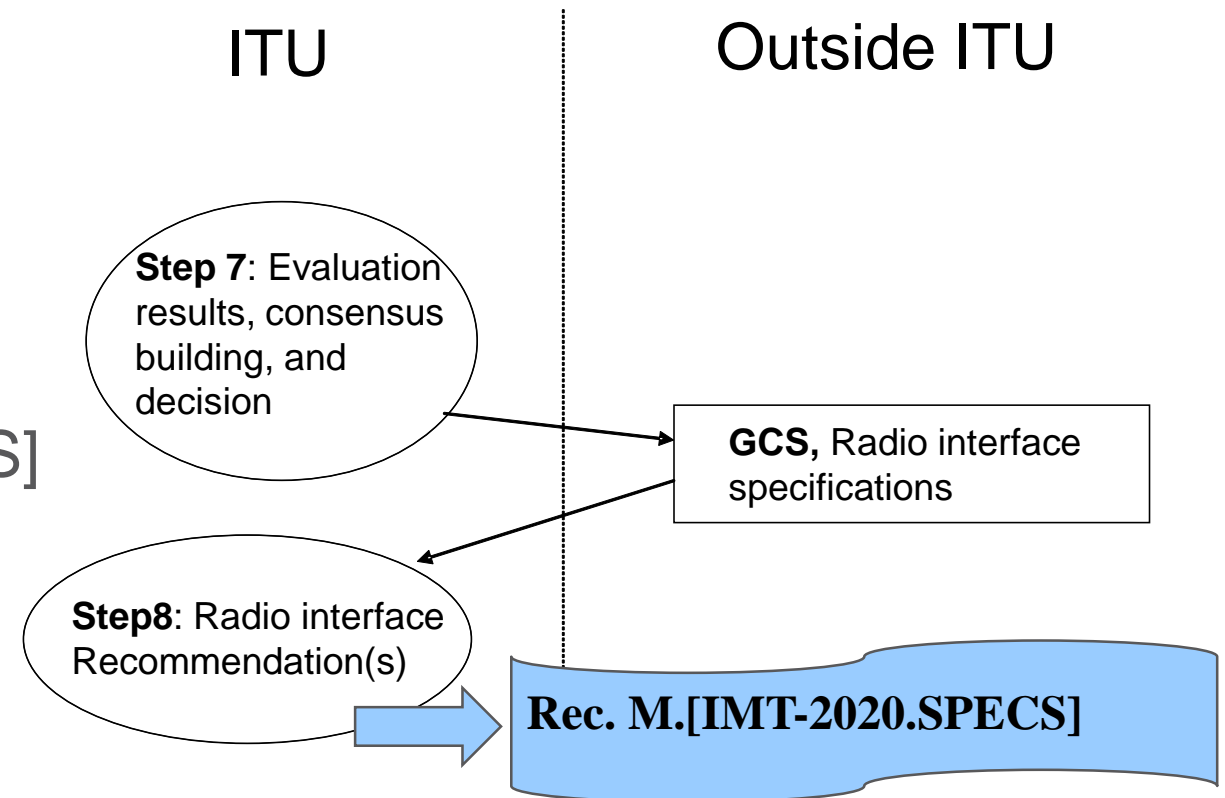




# GLOBAL CORE SPECIFICATION



- › A GCS (Global Core Specification) is the set of specifications that defines a RIT or an SRIT
- › GCS is provided by a RIT/SRIT proponent, and used by ITU to draft Recommendation M.[IMT-2020.SPECS]

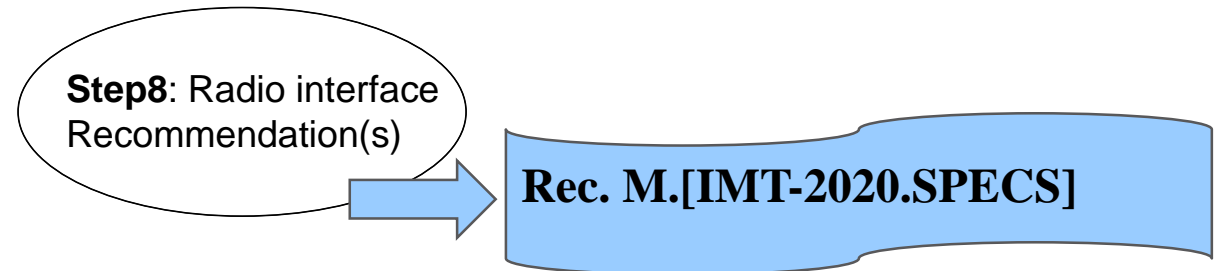


# IPR POLICY



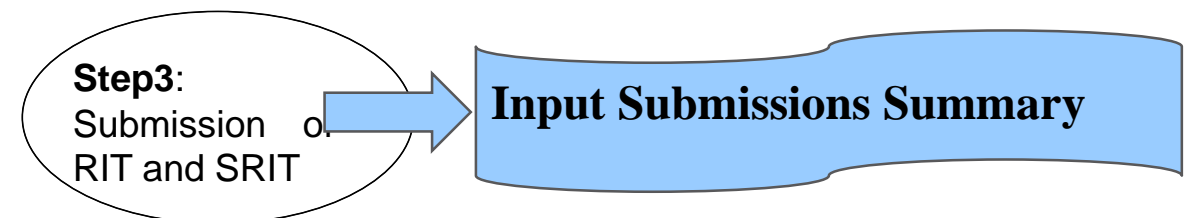
- › *Recommendations should be drafted taking account of the Common Patent Policy for ITU-T/ITU-R/ISO/IEC on intellectual property rights.*

*(in NOTE 2 in section A2.6 of Resolution ITU-R 1-7)*



- › *Proponents and IPR holders should indicate their compliance with the ITU policy on intellectual property rights (see NOTE 2 in section A2.6 of Resolution ITU-R 1-7), as specified in the Common Patent Policy for ITU-T/ITU-R/ISO/IEC.*

*(in 5.1 Completeness of submissions in Draft New Report ITU-R M.[IMT-2020.SUBMISSION],)*



# DOCUMENTS IN THE FOLLOWING PROCESS



Item	Proposed IMT-2020 related deliverable	Aspect to be addressed in proposed deliverable	Work start timing	Document completion in WP 5D
7	<b>Doc. IMT-2020/YYY Input Submissions Summary</b>	Capturing in ITU-R documentation the inputs documents and the initial view of suitability as a valid submission	Meeting #28 (October 2017)	Meeting #32 (July 2019)
8	<b>Doc. IMT-2020/ZZZ Evaluation Reports Summary</b>	As the evaluation of each candidate technology proceeds the results of each evaluation of each technology by the different evaluation groups must be documented and analyzed by WP 5D towards the final evaluation assessment	Meeting #31 (October 2018)	Meeting #34 (February 2020)
9	<b>Draft new Report ITU-R M.[IMT-2020. OUTCOME]</b>	The outcome of the evaluation and assessment and the statement on those candidate technologies suitable to move to the specification phase in ITU-R	Meeting #33 (October 2019)	Meeting #35 (June 2020)
10	<b>Draft new Recommendation ITU-R M.[IMT-2020.SPECS]</b>	The detailed specification of each of IMT-2020 radio interface technology	Meeting #33 (October 2019)	Meeting #36 (October 2020)

# OTHER REFERENCES



## › Documents

- Draft New Report ITU-R M.[IMT-2020.SUBMISSION]: Requirements, evaluation criteria and submission templates for the development of IMT-2020 (Document 5/56)
- [Common Patent Policy for ITU-T/ITU-R/ISO/IEC](#)
- [Resolution ITU-R 1-7](#)

## › Web pages

- [ITU towards “IMT for 2020 and beyond”](#)
- [IMT-2020 submission and evaluation process](#)



**ERICSSON**