Workplan, timeline, process and deliverables for the future development of IMT

Working Party 5D has developed a work plan, timeline, process and required deliverables for the future development of IMT, necessary to provide by 2020 timeframe, the expected ITU-R outcome of evolved IMT in support of the next generation of mobile broadband communications systems beyond IMT-Advanced.

Circular Letter(s) are expected to be issued at the appropriate time(s) to announce the invitation to submit formal proposals and other relevant information.
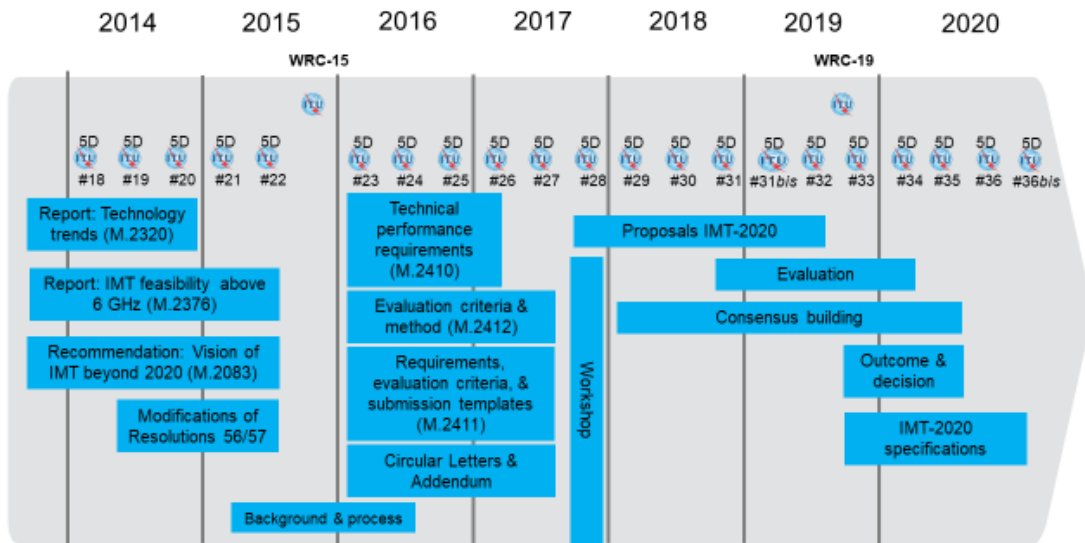
It has been agreed that the well-known process and deliverable formats utilized for both IMT-2000 and IMT-Advanced should be utilized also for IMT-2020 and considered as a "model" for the IMT-2020 deliverables to leverage on the prior work. In WP 5D #20 the process and related deliverables was agreed as shown in Figure 1 and Table 1.

In WP 5D #32, the date associated with the completion *in WP 5D* of the Draft New Recommendation ITU-R M.[IMT-2020.SPECS] was amended to occur at the WP 5D #36bis meeting which was added to the WP 5D calendar to provide additional time for provision of transpositions and hyperlink reference to be provided to ITU-R by the relevant Transposing Organizations while maintaining the schedule for forwarding the Daft New Recommendation to the November 2020 Study Group 5 Meeting.

Dates has been decided for RA-19 (21-25 October 2019) and WRC-19 (28 October – 22 November 2019). The WP 5D #32 (July) is the main meeting for year 2019. The WP 5D #33 is to be held in December with a focus on the evaluation process (WG Technology Aspects). If needed there is an opportunity for expert meeting to focus on preparation towards WRC-19 (WG General Aspects and WG Spectrum Aspects) prior to the WP 5D #32 (July). As noted above, a WP 5D meeting #36bis (anticipated 17-19 November 2020) focusing only on the technology activities for finalization of Step 8 of the IMT-2020 process has been added in the week prior to the planned 23-24 November 2020 Study Group 5 meeting during the previously planned Study Group 5 block meetings.

WP 5D timeline for IMT-2020
Detailed specifications for the terrestrial radio interfaces

2014 **2015** **2016** **2017** **2018** **2019** **2020**

WRC-15 WRC-19

5D #18 5D #19 5D #20 5D #21 5D #22 5D #23 5D #24 5D #25 5D #26 5D #27 5D #28 5D #29 5D #30 5D #31 5D #31bis 5D #32 5D #33 5D #34 5D #35 5D #36 5D #36bis

Report: Technology trends (M.2320)

Report: IMT feasibility above 6 GHz (M.2376)

Recommendation: Vision of IMT beyond 2020 (M.2083)

Modifications of Resolutions 56/57

Background & process

Technical performance requirements (M.2410)

Evaluation criteria & method (M.2412)

Requirements, evaluation criteria, & submission templates (M.2411)

Circular Letters & Addendum

Workshop

Proposals IMT-2020

Evaluation

Consensus building

Outcome & decision

IMT-2020 specifications

Note: Meeting #36bis is a focused meeting (technology) for finalization of Step 8 of the IMT-2020 process and completing draft new Recommendation ITU-R M.[IMT-2020.SPECS]

TABLE 1[1]

Anticipated IMT-2020 related deliverables

Item	Proposed IMT-2020 related deliverable	Aspect to be addressed in proposed deliverable	Work start timing	Document completion in WP 5D	IMT-Advanced model document	Responsible WG (and SWG)
1	**Doc. IMT-2020/001 IMT-2020 Background"**	Background on IMT-2020	Meeting #22 (June 2015)	Meeting #24 (June 2016)	Document IMT-ADV/1 *"Background on IMT-Advanced"*	WG GEN (SWG CL)
2	**Doc. IMT-2020/002 IMT-2020 Process"**	The Submission and evaluation process and consensus building for IMT-2020 as well as the "timeline" for IMT-2020	Meeting #22 (June 2015)	Meeting #24 (June 2016)	Document IMT-ADV/2 *"Submission and evaluation process and consensus building"*	WG TECH (SWG COORD)
3	**Draft new Report ITU-R M.[IMT-2020. TECH PERF REQ]**	General Technical Performance Requirements expected of a technology to satisfy IMT-2020	Meeting #23 (February 2016)	Meeting #26 (February 2017)	Report ITU-R M.2134 *"Requirements related to technical performance for IMT-Advanced radio interface(s)"*	WG TECH (SWG RADIO)
4	**Draft new Report ITU-R M.[IMT-2020. EVAL]**	Evaluation Criteria and Evaluation Methods for IMT-2020 technologies	Meeting #23 (February 2016)	Meeting #27 (June 2017)	Report ITU-R M.2135 *"Guidelines for evaluation of radio interface technologies for IMT-Advanced"*	WG TECH (SWG EVAL)
5	**Draft new Report ITU-R M.[IMT-2020. SUBMISSION]**	Specific Requirements of the candidate technology related to submissions, the evaluation criteria and submission templates	Meeting #23 (February 2016	Meeting #27 (June 2017)	Report ITU-R M.2133 *"Requirements, evaluation criteria and submission templates for the development of IMT-Advanced"*	WG TECH (SWG COORD)
6	**Circular Letter IMT-2020**	The official ITU-R announcement of the IMT-2020 process and the invitation for candidate technology submissions	Meeting #23 (February 2016)	Meeting #36 (October 2020)	Circular Letter 5/LCCE/2 and Addenda *"Invitation for submission of proposals for candidate radio interface technologies for the terrestrial components of the radio interface(s) for IMT-Advanced and invitation to participate in their subsequent evaluation"*	WG GEN (SWG CL)
7	**Doc. IMT-2020/YYY Input Submissions Summary**	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)	For example, Documents IMT-ADV/4 thru IMT-ADV/9 *"Acknowledgement of candidate submission from ......under step 3 of the IMT-Advanced process (..... technology)"*	WG TECH (SWG COORD)

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[1] While not expected to change, details may be adjusted if warranted.

Item	Proposed IMT-2020 related deliverable	Aspect to be addressed in proposed deliverable	Work start timing	Document completion in WP 5D	IMT-Advanced model document	Responsible WG (and SWG)
8	**Doc. IMT-2020/ZZZ Evaluation Reports Summary**	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 #30 (June 2018)	Meeting #34 (February 2020)	For example, Documents IMT-ADV/10 thru IMT-ADV/23 *"Evaluation IMT-Advanced candidate technology submissions in documents IMT-ADV/xyz by XYZ Evaluation Group"*	WG TECH (SWG EVAL)
9	**Draft new Report ITU-R M.[IMT-2020. OUTCOME]**	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 (December 2019)	Meeting #35 (June 2020)	Report ITU-R M.2198 *"The outcome of the evaluation, consensus building and decision of the IMT-Advanced process (Steps 4 to 7), including characteristics of IMT-Advanced radio interface"*	WG TECH (SWG EVAL)
10	**Doc. IMT-2020/VVV Process and use of GCS**	Information on the process and use of the GCS, references, and certifications	Meeting #31 (October 2018)	Meeting #32 (July 2019)	For example, Document IMT-ADV/24 Rev.3 *"Process and the use of Global Core Specification (GCS), references and related certifications in conjunction with Recommendation ITU-R M.2012"*	WG TECH (SWG IMT SPECS)
11	**Draft new Recommendation ITU-R M.[IMT-2020.SPECS]**	The detailed specification of each of IMT-2020 technology	Meeting #33 (December 2019)	Meeting #36bis (November 2020)	Recommendation ITU-R M.2012 *"Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-Advanced (IMT-Advanced)"*	WG TECH (SWG IMT SPECS)
12	**Doc. IMT-2020/WWW Update procedure for Rec. ITU-R M.[IMT-2020.SPECS]**	Procedure for the development of draft revisions	Meeting #36 (October 2020)	Meeting #37 (February 2021)	For example, Document IMT-ADV/25 Rev.2 *"Procedure for the development of draft revisions of Recommendation ITU-R M.2012 Detailed specifications of the terrestrial radio interfaces of IMT-Advanced"*	WG TECH (SWG IMT SPECS)