

RESOLUTION ITU-R 65-1

Principles for the process of future development of IMT-2020 and IMT-2030

(2015-2023)

The ITU Radiocommunication Assembly,

considering

- a) that Question ITU-R 229/5 addresses “Further development of the terrestrial component of IMT”;
- b) that the future development of IMT will continue in order to address more needs than those currently addressed by existing IMT;
- c) that Recommendation ITU-R M.1645 defines the framework and overall objectives of the future development of IMT-2000 and systems beyond IMT-2000;
- d) that Recommendation ITU-R M.2083 defines the framework and overall objectives of the future development of IMT for 2020 and beyond;
- e) that Recommendation ITU-R M.2160 defines the framework and overall objectives of the future development of IMT for 2030 and beyond;
- f) that the ITU Radiocommunication Sector (ITU-R) has initiated activities for the satellite component of IMT for 2020 and beyond;
- g) that this Resolution has been successfully applied in the development of IMT-2020, and the procedures and processes developed for IMT-2020 based on this Resolution are in place and continue to be utilized for the future development of the terrestrial component of IMT-2020 when revising Recommendation ITU-R M.2150;
- h) that this Resolution has been successfully applied in the development of Report ITU-R M.2514 for the satellite component of IMT-2020;
- i) that Resolution ITU-R 57 has been successfully applied to the ongoing development of IMT-Advanced and IMT-2000 and continues to be utilized for the future development of IMT-Advanced when revising Recommendation ITU-R M.2012 and IMT-2000 when revising Recommendation ITU-R M.1457;
- j) that Resolution ITU-R 56 addresses naming for IMT;
- k) that it is desirable to have consistent principles for the future development of IMT, which are not addressed in *considering i)* above, regardless of the specific naming that may be further determined;
- l) that the existing regulatory environment should be taken into account, while developing the evaluation criteria for candidate radio interface technologies for IMT,

resolves

in the future development of IMT which is addressed in *considering k)* above:

- 1 to develop the ITU-R Recommendations and Reports for the future development of IMT, including Recommendation(s) for radio interface specifications;
- 2 that the development of ITU-R Recommendations and Reports, in accordance with Resolution ITU-R 1, shall be an ongoing and timely process with defined ITU-R outputs, taking into account developments external to ITU-R;
- 3 that ITU-R shall develop radio interface technologies based on candidate proposals submitted by Member States, Sector Members and Associates of relevant ITU-R study groups, as well as by external organizations, invited in accordance with the principles set out in Resolution ITU-R 9;
- 4 that the process for developing Recommendations and Reports for the future development of IMT shall give equal opportunity to all submitted proposals for candidate radio interface technologies to be evaluated against the requirements for the future development of IMT;
- 5 that proposals for new radio interfaces and modifications to existing radio interfaces should be considered for inclusion in the future development of IMT in a timely fashion, and, if appropriate, that the relevant ITU-R Recommendations be developed or revised in accordance with *resolves 6*;
- 6 that, in light of the above *resolves*, this process shall include:
 - a) the definition of minimum technical requirements and evaluation criteria (see also *considering l)* above), based on the framework and overall objectives of the future development of IMT, that support the new capabilities expressed in relevant ITU-R Recommendation(s), taking into account end-user requirements and without unnecessary legacy technical requirements;
 - b) an invitation for Members of ITU-R, through a circular letter, to propose candidate radio interface technologies for the future development of IMT;
 - c) additionally, an invitation to other relevant organizations to propose candidate radio interface technologies for the future development of IMT, under the scope of liaison and collaboration with such organizations through Resolution ITU-R 9; in such invitations, the attention of these organizations shall be drawn to the current ITU-R Intellectual Property Rights (IPR) policies;
 - d) an evaluation by ITU-R of the candidate radio interface technologies proposed for the future development of IMT to ensure that they meet the minimum technical requirements and evaluation criteria defined in 6 a) above; such an evaluation may utilize the principles for interaction of ITU-R with other relevant organizations as detailed in Resolution ITU-R 9;
 - e) consensus-building with the objective of achieving harmonization in response to *considering* of this ITU-R Resolution and which would have the potential for wide industry support of the radio interfaces that are developed for the future development of IMT;

- f) a standardization phase in the future development of IMT, in which ITU-R develops the IMT radio interface specification Recommendation(s) based on the results of:
- i) assessments contained in the evaluation defined in *resolves 6 d*),
 - ii) consensus-building defined in *resolves 6 e*)
- published in an ITU-R Report, documenting that the specifications meet the minimum technical requirements and evaluation criteria as defined in *resolves 6 a*) or *6 g*) and with the conclusion that work may proceed in a standardization phase for the candidate radio interface technology in cooperation with relevant organizations external to ITU in order to complement the work within ITU-R, using the principles set out in Resolution ITU-R 9;
- g) reviews of the minimum technical requirements and evaluation criteria defined in *resolves 6 a*), taking into account technology advances and end-user requirements changing with time; as the minimum technical requirements and evaluation criteria are changed, these will be designated as separately identifiable versions for the corresponding names, as defined in Resolution ITU-R 56, for the further development of IMT; the process will include review of existing versions to determine whether they should remain in force;
- h) an ongoing and timely process where new radio interface technology proposals and related newly developed radio interface specifications may be submitted and existing radio interface specifications can be revised or updated; the process should have flexibility to allow proponents to seek evaluation against any relevant version of the approved criteria currently in force,

instructs the Director of the Radiocommunication Bureau

1 to ensure that proponents of radio interface technologies and standards for the future development of IMT are aware of ITU-R IPR policy pursuant to Resolution ITU-R 1 and that submissions for the future development of IMT are compliant with this policy;

2 to provide the necessary support and to implement suitable procedures to meet the requirements of the *resolves* above, including the sending of a circular letter calling for radio interface technology proposals.