



ITU-R

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- The content of this presentation does not necessarily reflect the views of the presenter or company; it provides information on work in ITU-R and is developed from ITU-R materials.

United Nations agency for information and communication technologies.
191 Member States and more than 700 Sector Members and Associates.

Plenipotentiary: Top-level regulatory work, framework for ITU activities

ITU-R: Radiocommunication

Management of the radio-frequency spectrum and satellite orbits, for **services** such as

- fixed
- mobile
- broadcasting
- amateur
- meteorology
- global positioning systems
- environmental monitoring
- services that ensure safety of life.

ITU-T: Standardization

International standards covering all fields of telecommunications e.g.

- IP interworking
- network aspects of mobility
- network access technologies (xDSL)
- optical networking technologies

ITU-D: Development

Aims at achieving the Sector's objectives based on the right to communicate of all inhabitants of the planet through access to infrastructure and information and communication services.

Radio Regulations:

Output from WARC -92, WRC-95, WRC-97, WRC-2000 and WRC-03 including all Appendices, Resolutions, Recommendations and ITU-R Recommendations incorporated by reference. Now we also have results from WRC-07 as presented earlier at the workshop.

Radio "regulations" since 1906!

Binding international treaties from 9 kHz to 400 GHz.

Recommendations

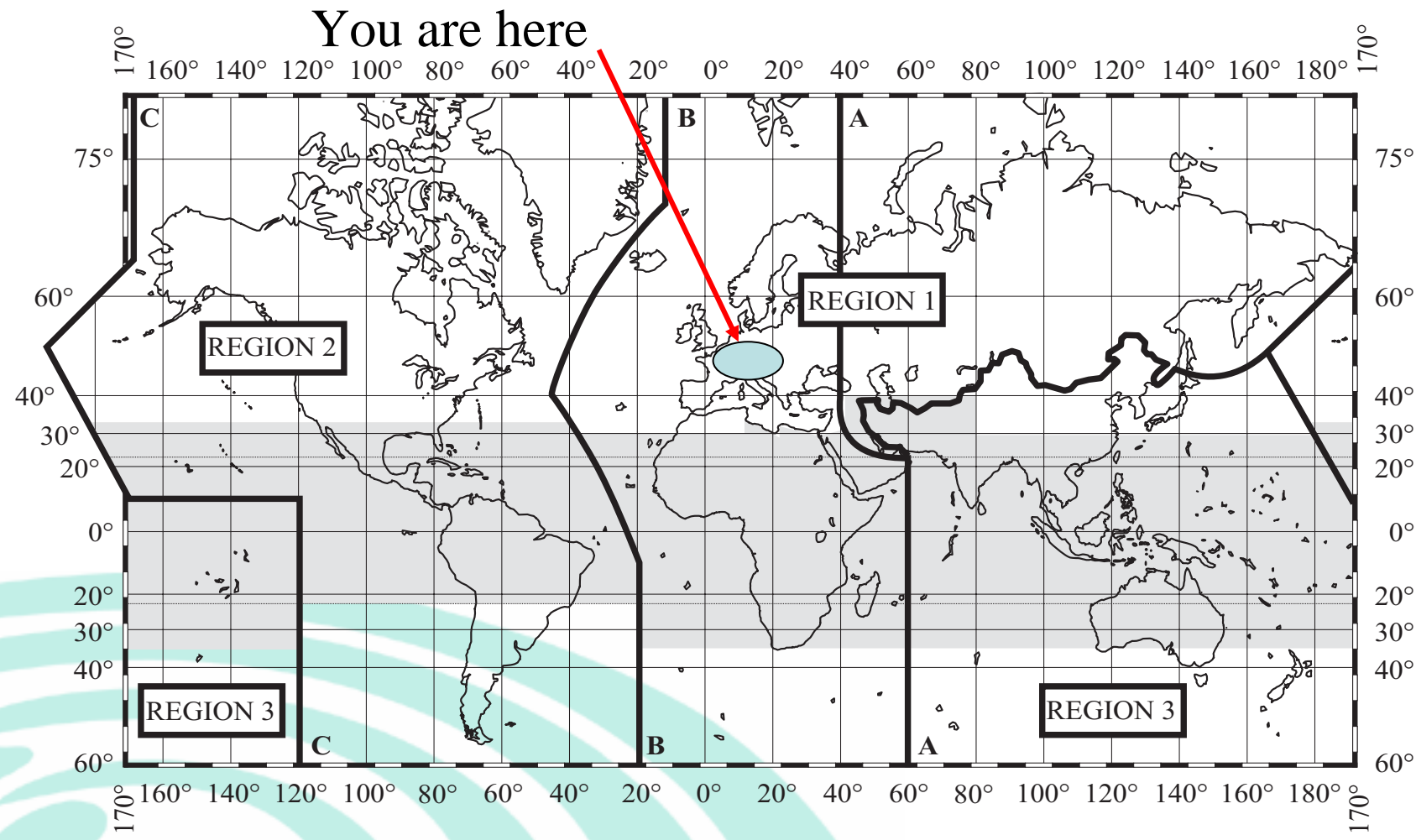
The result of studies undertaken by Radiocommunication Study Groups on various wireless services, management of radio-frequency spectrum and satellite orbits, efficient use of radio-frequency spectrum, propagation, etc.

Reports

Report is a technical, operational or procedural statement, prepared by a Study Group on a given subject related to a current Question.

Handbooks

A text which provides a statement of the current knowledge, or of good operating or technical practice, in certain aspects of radiocommunications.



5-01

The ITU-R Radiocommunications Assembly 2007 (Oct 15-19) addressed restructuring of the ITU-R Study Groups to what they felt better align mobile, fixed, terrestrial and satellite work.

Old structure

- SG1: Spectrum Management
- SG3: Radiowave Propagation
- SG4: Fixed-Satellite Service
- SG6: Broadcasting Service
- SG7: Science Services
- SG8: Mobile, radiodetermination, amateur and related satellite services
- SG9: Fixed Service

New structure

- SG1: Spectrum Management
- SG3: Radiowave Propagation
- SG4: Satellite Services
- SG5: Terrestrial Services
- SG6: Broadcasting Service
- SG7: Science Services

Scope:

Systems and networks for fixed, mobile, radiodetermination, amateur and amateur-satellite services.

Chairman: Dr A. HASHIMOTO (Japan)

Vice-Chairmen:

Mr T.K.A. ALEGE	(Nigeria)
Dr A. CHANDRA	(India)
Dr J. COSTA	(Canada)
Mr T. EWERS	(Germany)
Mr C.T. GLASS	(United States)
Dr A. JAMIESON	(New Zealand)
Mr A.I. KLYUCHAREV	(Russian Federation)
Ms L. SOUSSI	(Tunisia)
Mr L. SUN	(China)
Dr K. J. WEE	(Korea (Rep. of))

1985

TG8/1 starts

1992

WARC-92

1998/1999

Proposals, Evaluation and
consensus building

1999

First release of
IMT-2000

- Vision Recommendation ITU-R M.1645: Framework and overall objectives of the future development of IMT-2000 and systems beyond IMT-2000.
- Report ITU-R M.2038: Technology Trends
- Report ITU-R M.2072: World mobile telecommunication market forecast
- Report ITU-R M.2074: Radio aspects for the terrestrial component of IMT-2000 and systems beyond IMT-2000
- Recommendation ITU-R M.[SERV]: Framework for Services delivered by IMT
- Recommendation ITU-R M.1768: Methodology for calculation of spectrum requirements for the future development of the terrestrial component of IMT-2000 and systems beyond IMT-2000
- Report ITU-R M.2078: Estimated spectrum bandwidth requirements for the future development of IMT-2000 and IMT-Advanced
- Report ITU-R M.2079: Technical and operational information for identifying Spectrum for the terrestrial component of future development of IMT-2000 and IMT-Advanced
- Several sharing reports for the candidate bands towards WRC-07

Global Announcement:

Circular Letter from ITU-R on an invitation to propose candidate radio interface technologies for IMT-Advanced.

A Circular Letter is the internal ITU-R method of officially communicating to the members of the ITU-R.

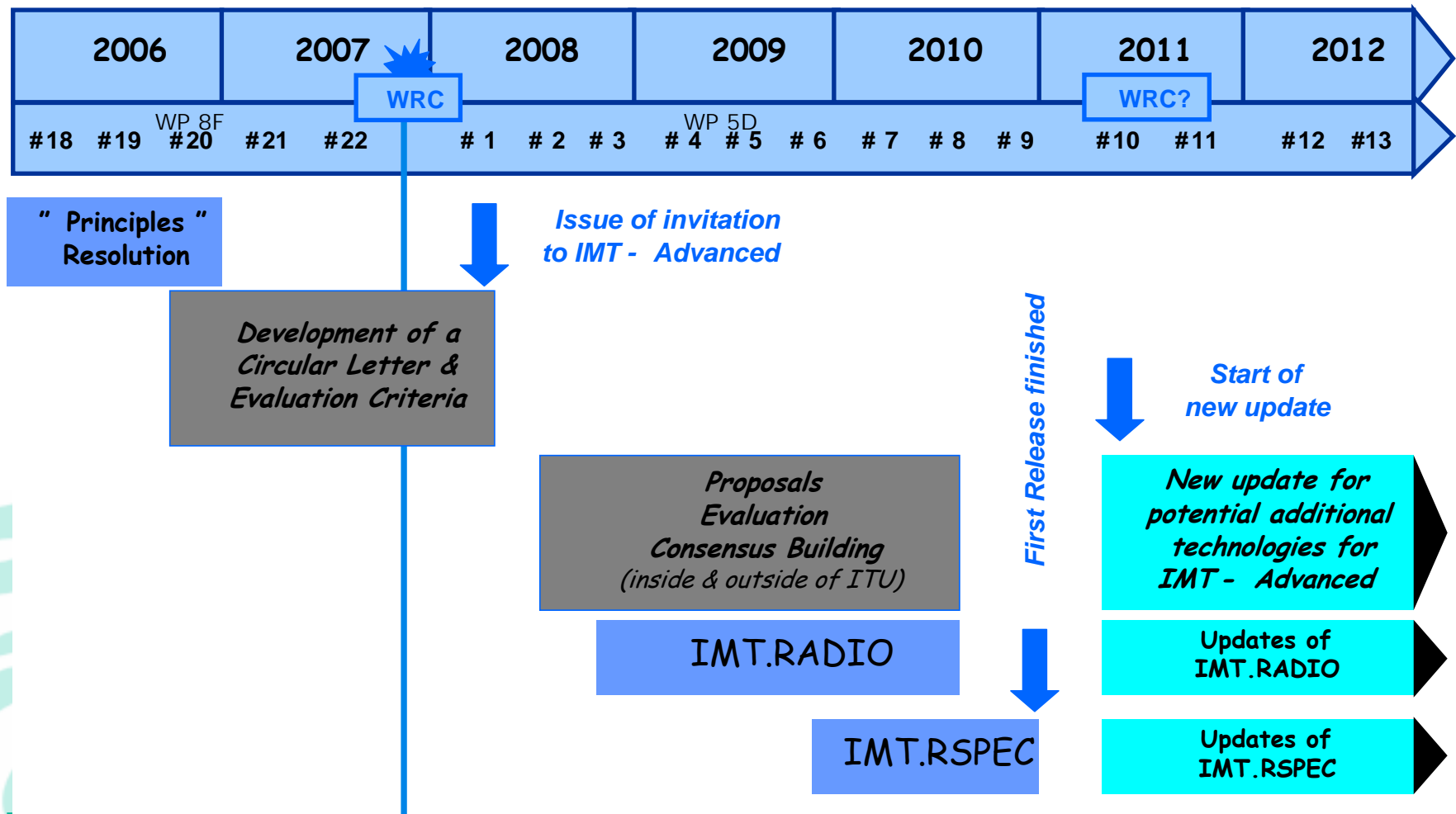
Additionally, Resolution ITU-R 9-3 provides a mechanism for the ITU-R to have “Liaison and collaboration with other organizations”. Hence the same information will be released external to the ITU-R.

The purpose of this Circular Letter is to invite submission of candidate Radio Interface Technologies (RITs) for IMT-Advanced for the development of a new ITU-R Recommendation (“Radio Interface Recommendation”) describing radio interface(s) of IMT-Advanced.

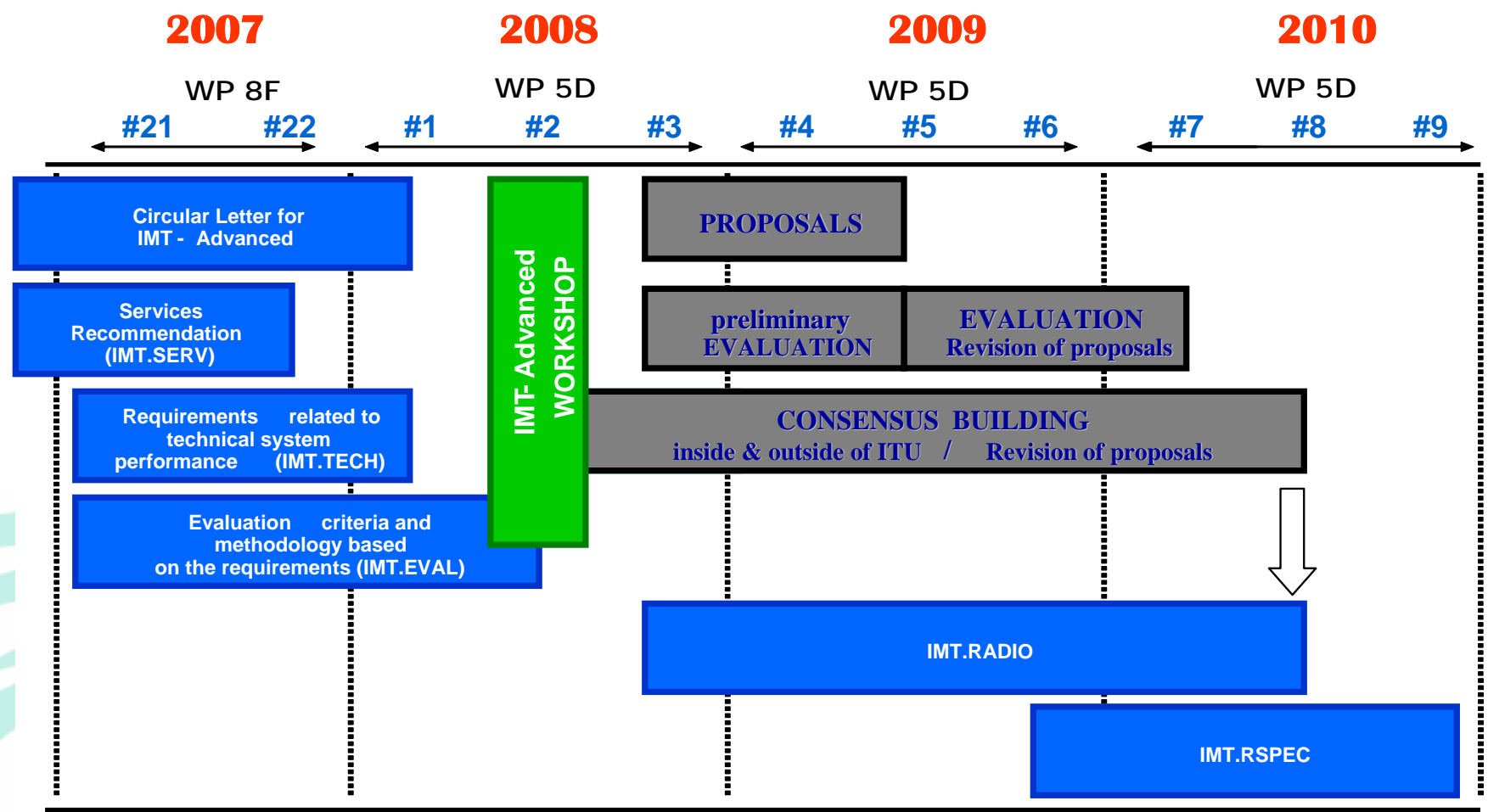
As well, this Circular Letter invites subsequent submission of evaluation reports on these candidate RITs by independent evaluation groups in addition to the evaluation report by original proponent

Section	Title	Materials to be provided
Main body		- "Common text" for Intro., " - Spectrum text (WRC-07)
Annex 1	Background on IMT-Advanced	Complete text based on Common text
Annex 2	Submission and evaluation process, consensus building	Time schedule (due dates)
Annex 3	Service requirements	Complete text based on IMT.SERV
Annex 4	Technical requirements	Complete text based on IMT.TECH
Annex 5	Spectrum requirements	Complete text based on WRC-07 results
Annex 6	Submission guidelines and template	Text, minimum requirements
Annex 7	Evaluation criteria and Methodology, test model	Complete text based on IMT.TECH & IMT.EVAL
Annex 8	Relevant ITU-R Documents	List of ITU- R documents relevant to Annexes
Annex 9	IPR policy	

IMT- Advanced process in WP8F



CL should be sent early 2008 but it could be updated at the June meeting of WP5D and afterwards.



The two deliverables IMT.TECH and IMT.EVAL are important for the CL and they will set the flavour of the CL.

- IMT. TECH describes requirements related to technical system performance for IMT-Advanced candidate radio interfaces. As well as Information about the individual requirements, values and justification.
- IMT.EVAL will contain methodology for evaluation, criteria, test environment to be used in evaluation, deployment models including channel models.

IMT.RADIO

Document on framework and key characteristics of the radio interfaces of IMT-Advanced

The IMT.RADIO is the output of the work from the received proposals on IMT-Advanced candidate radio interfaces, the evaluation activity, and the consensus building. This document would constitute the overall framework for IMT-Advanced and contain the key characteristics of the radio interfaces of IMT-Advanced

IMT.RSPEC

New PDNR on detailed specifications for IMT-Advanced

IMT.RSPEC would contain the detailed specifications of the IMT-Advanced technologies defined in IMT.RADIO