



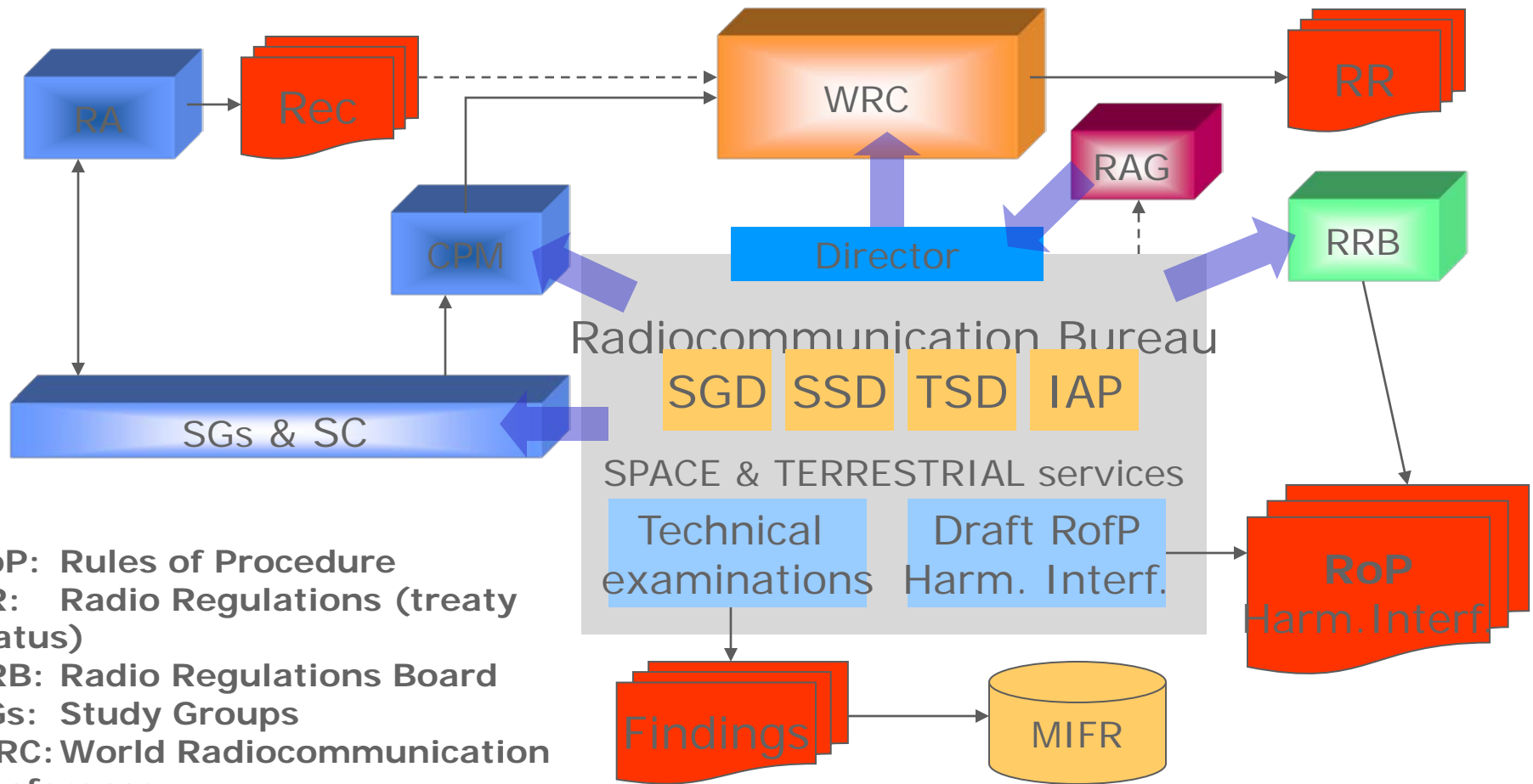
# Agenda Items 1.1 & 1.2 of WRC-15

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Radiocommunication Bureau



# Radiocommunication Sector (ITU-R)

## Structure & Activities



RoP: Rules of Procedure  
 RR: Radio Regulations (treaty status)  
 RRB: Radio Regulations Board  
 SGs: Study Groups  
 WRC: World Radiocommunication Conference

CPM: Conference Preparatory Meeting  
 MIFR: Master International Frequency Registry  
 RA: Radiocommunication Assembly  
 RAG: Radiocommunication Advisory Group  
 Rec: Recommendations (international voluntary standards)



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# WRC-12

- 33 Agenda Items
- 165 Member State delegations
- Major private sector representatives
- Over 3500 registered participants

# Radiocommunication services



## Main issues

- **Mobile broadband including IMT**
- **Regulatory**
- **Safety**
- **Environment**
- **Science**
- **Navigation and Mobile Satellite**





# Mobile broadband including IMT

## Conclusions:

- Further allocations to facilitate the development of terrestrial mobile broadband applications
  - 800 MHz Band
  - **700 MHz Band**
  - WRC-15 Agenda Item



# CPM15-1 Decision on the Establishment and Terms of Reference of Joint Task Group 4-5-6-7: AI 1.1

# JTG 4-5-6-7 and WRC-15

Agenda item 1.1 of WRC-15:  
*"to consider additional spectrum allocations to the mobile service on a primary basis and identification of additional frequency bands for International Mobile Telecommunications (IMT) and related regulatory provisions, to facilitate the development of terrestrial mobile broadband applications, in accordance with Resolution 233*

Agenda item 1.2 of WRC-15:  
*"to examine the results of ITU R studies, in accordance with Resolution 232 [COM5/10] (WRC 12), on the use of the frequency band 694-790 MHz by the mobile, except aeronautical mobile, service in Region 1 and take the appropriate measures."*

# JTG 4-5-6-7 is responsible for

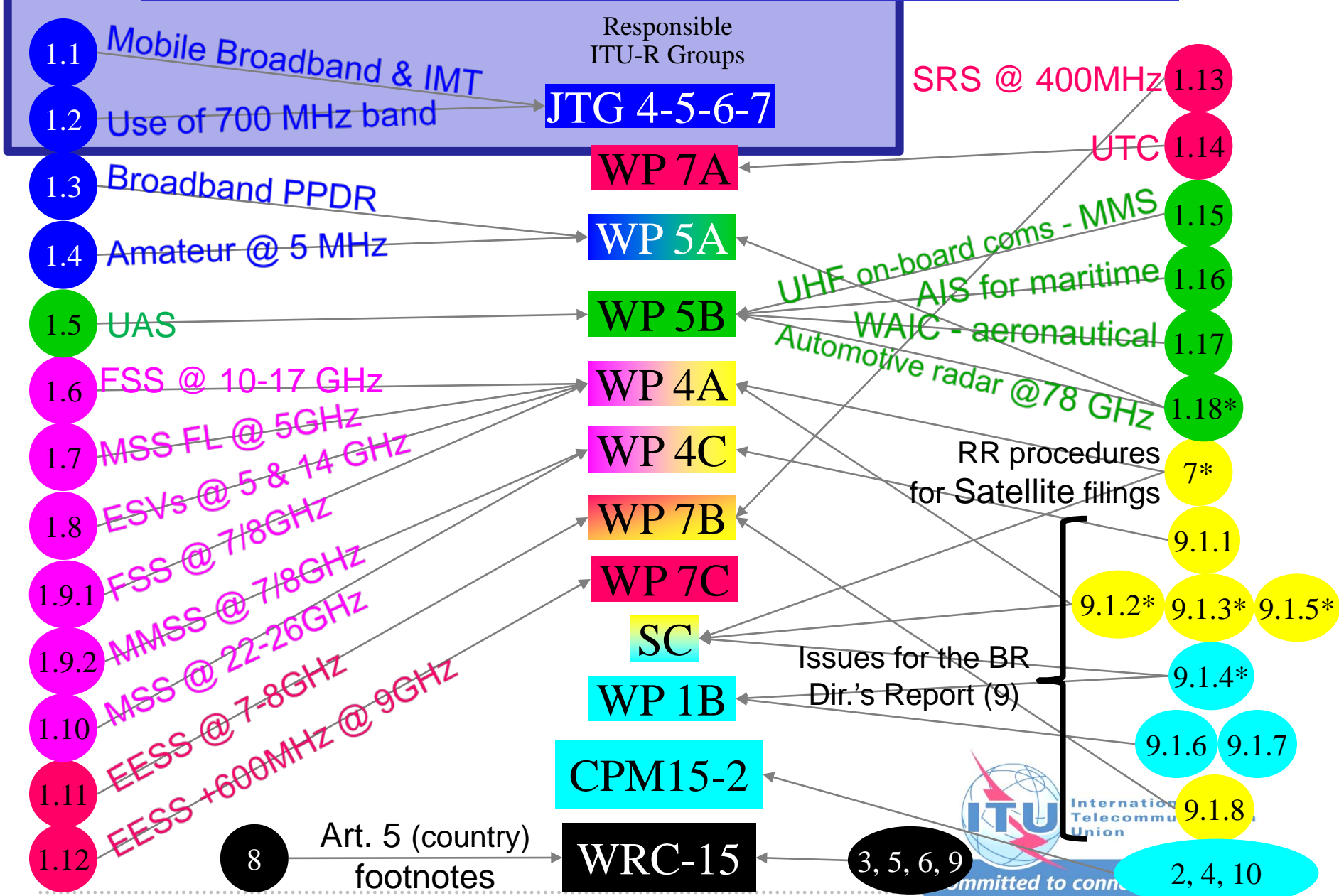
Development of draft CPM text under WRC 15 Agenda items 1.1 and 1.2

may develop, as appropriate, draft ITU-R Recommendations or Reports concerning the results of spectrum sharing and compatibility studies, where required for to relevant Study Groups for adoption

studies relating to **channeling arrangement** referred to in the invites ITU-R 2 and 3 of Resolution 232 need to be **carried out** in Working Party **5D**



# WRC-15 Agenda items & Resp. Groups



\* Relevant part

# Outline of the draft CPM Report to WRC-15

WRC-15 Agenda item				
	Section	Condensed agenda item	References	Responsible Group
	Chapter 1 – Mobile and Amateur issues			
1.1	1/1.1	to consider additional spectrum allocations to the mobile service on a primary basis and identification of additional frequency bands for International Mobile Telecommunications (IMT) and related regulatory provisions, to facilitate the development of terrestrial mobile broadband applications, in accordance with Resolution 233 [COM6/8] (WRC-12);	Resolution 233 [COM6/8] (WRC-12)	JTG 4-5-6-7
1.2	1/1.2	to examine the results of ITU-R studies, in accordance with Resolution 232 [COM5/10] (WRC-12), on the use of the frequency band 694-790 MHz by the mobile, except aeronautical mobile, service in Region 1 and take the appropriate measures;	Resolution 232 [COM5/10] (WRC-12)	JTG 4-5-6-7

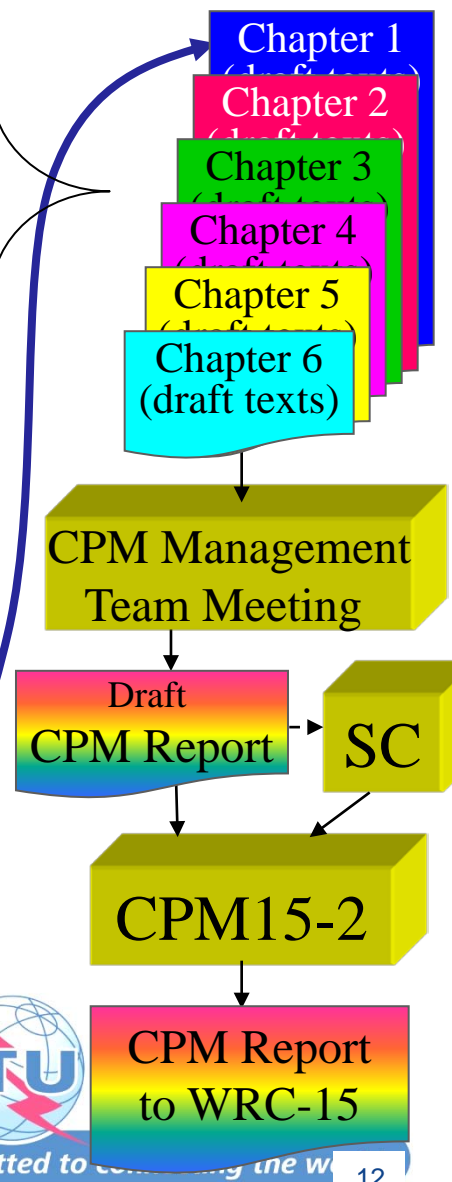
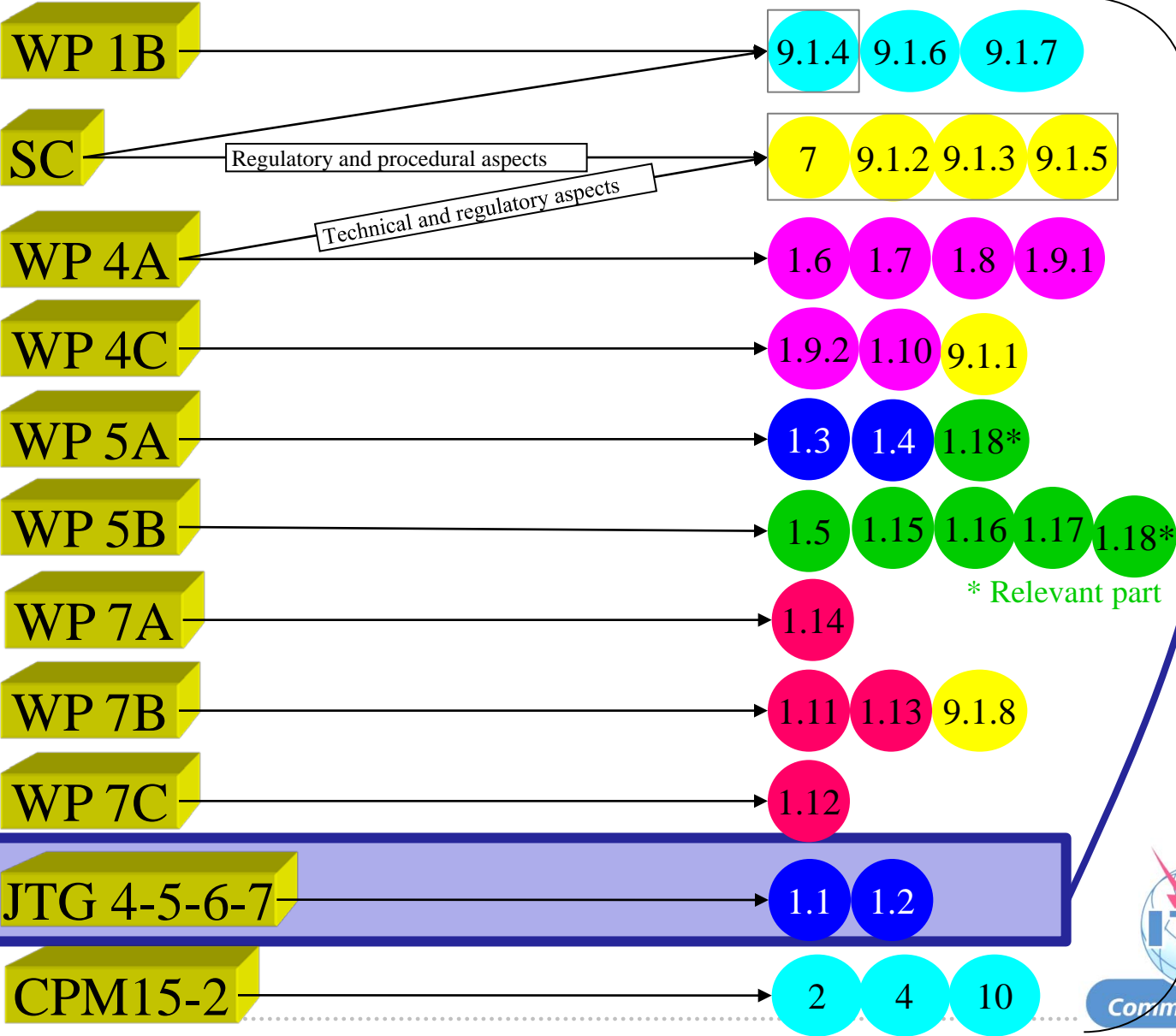
# Allocation of ITU-R preparatory work for WRC-15

WRC-15 Agenda item	WRC Resolution	Responsible Group	Concerned Group
1.1	233 (WRC-12)	JTG 4-5-6-7	WP 4A, WP 4B, WP 4C, WP 5A, WP 5B, WP 5C, WP 5D, WP 6A, WP 7B, WP 7C, WP 7D, (WP 1A, WP 3K, WP 3M)
1.2	232 (WRC-12)	JTG 4-5-6-7	WP 4A, WP 5A, WP 5B, WP 5D, WP 6A, (WP 3K, WP 3M)

# Summary of CPM Report Preparation

Responsible ITU-R Groups

WRC-15 (agenda items, incl. issues under AI 9.1)



# JTG 4-5-6-7 organization

- **Working groups:**
  - ❖ **WG 1: CPM texts** (Annexes [3](#) & [4](#) to [Doc. 4-5-6-7/113](#))
  - ❖ WG 2: Broadcasting and SAB/SAP
    - ✓ Rapporteur Group on SAP/SAB
    - ✓ Correspondence Group on sharing & compatibility studies under AI 1.2
  - ❖ **WG 3: Terrestrial services**
  - ❖ WG 4: Satellite services
  - ❖ **WG 5: Science services**
  - ❖ Ad-Hoc group: Work plan ([Annex 1](#) to [Doc. 4-5-6-7/113](#))
- **Next meeting:** **Geneva, 17-25 October 2013**  
(see <http://www.itu.int/ITU-R/index.asp?category=study-groups&rlink=jtg4-5-6-7&lang=en>)
- Latest information in [Doc. 4-5-6-7/113](#) and its annexes on <http://www.itu.int/ITU-R/index.asp?category=study-groups&rlink=rcpm-wrc-15-studies&lang=en>

# WP 5D, Input to JTG 4-5-6-7 on Agenda item 1.2

- **Frequency arrangements/spectrum requirements in the band 694-790 MHz**
- WP 5D Questionnaire – see Doc. 5D/300 Attachment 1 to Attachment 4.5
- Various channelling arrangements are under consideration (for harmonisation) with:
  - Conventional FDD duplex arrangement (uplink below downlink), or downlink only;
  - IMT uplink transmissions starting around 694 MHz, 696 MHz, 701 MHz, 703 MHz and 718 MHz.
- Some of the options can be found in Doc. 5D/300 Attachment 4.6

# WP 5D, Input to JTG 4-5-6-7 on Agenda item 1.2

- **Sharing parameters**
- Provided list of IMT technical parameters for use in sharing studies under Agenda item 1.2
  - Doc. 4-5-6-7/49
- Specification-related parameters for the frequency band 694 – 790 MHz
- Deployment-related parameters
  - Base station characteristics / Cell structure
  - User terminal characteristics

# JTG 4-5-6-7 Work Plan

(as of 7 December 2012)

<p><b>3<sup>rd</sup> Meeting</b> <b>(July 2013)</b></p>	<ul style="list-style-type: none"> <li>• Drafting of <b>CPM Text</b> (Focusing of the following sections: Background, summary of technical and operational studies, analysis of relevant studies and consideration of methods to satisfy the agenda item)</li> </ul>	
<p><b>4<sup>th</sup> Meeting</b> <b>(October 2013)</b></p>	<ul style="list-style-type: none"> <li>• <b>AI 1.1:</b> <ul style="list-style-type: none"> <li>○ Consider information received from membership and those provided by concerned groups (in particular WPs 5A and 5D)</li> <li>○ Continuation of sharing and compatibility studies on potential candidate frequency bands</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>AI 1.2:</b> <ul style="list-style-type: none"> <li>○ Continuation of compatibility studies in the frequency band 694-790 MHz</li> <li>○ Continue studies on the options for the lower band edge</li> <li>○ Continue to study solutions for SAB/SAP</li> </ul> </li> </ul>
<p><b>5<sup>th</sup> Meeting</b> <b>(February 2014)</b></p>	<ul style="list-style-type: none"> <li>• Drafting of <b>CPM Text</b> (Focusing on the <b>finalization</b> of Background and summary of relevant studies sections)</li> </ul>	
<p><b>6<sup>th</sup> Meeting</b> <b>(July 2014)</b></p>	<ul style="list-style-type: none"> <li>• <b>AI 1.1:</b> <ul style="list-style-type: none"> <li>○ Finalize the results of sharing and compatibility studies on potential candidate frequency bands</li> </ul> </li> <li>• <b>AI 1.2:</b> <ul style="list-style-type: none"> <li>○ Completion of compatibility studies in the frequency band 694-790 MHz</li> <li>○ Determine the options for the lower band edge</li> <li>○ Complete study on solutions for SAB/SAP</li> </ul> </li> </ul>	
	<ul style="list-style-type: none"> <li>• Drafting of <b>CPM Text</b> (Focusing on finalization of all sections except executive summary)</li> <li>• <b>Completion of CPM Text</b></li> </ul>	

NOTE – This work plan may be reviewed and updated, if necessary.



# WP 5D schedules

Date	Venue
30 Jan – 6 Feb 2013	Geneva
10-17 Jul 2013	Japan
9-16 Oct 2013	Geneva
Mid-Feb 2014*	TBD
Mid-Jun 2014*	TBD
Mid-Oct 2014*	TBD

## Preliminary Programme (Geneva, 4-5 December 2013)

Hours	Day 1 (Wednesday, 4 December 2013)	Day 2 (Thursday, 5 December 2013)
0900-1020	<b>0930 hours: Opening</b> Status of preparation for CPM15-2, RA-15 and WRC-15	Review of the WRC-15 agenda items related to the <b>Satellite allocation issues</b> (agenda items 1.6, 1.7, 1.8, 1.9 and 1.10) <sup>1</sup>
1020-1040	Break	
1040-1230	Review of the WRC-15 agenda items related to the <b>Mobile and Amateur issues</b> (agenda items 1.1, 1.2, 1.3, 1.4) <sup>1</sup>	Review of the WRC-15 agenda items related to the <b>Satellite regulatory issues</b> (agenda items 7, 9.1 (issues 9.1.1, 9.1.2, 9.1.3, 9.1.5), 9.2-Satellite, 9.3) <sup>1</sup>
1230-1400	Lunch Break	
1400-1520	Review of the WRC-15 agenda items related to the <b>Aeronautical, Maritime and Radiolocation issues</b> (agenda items 1.5, 1.15, 1.16, 1.17 and 1.18) <sup>1</sup>	Review of the WRC-15 agenda items related to the <b>General and other issues</b> (agenda items 2, 4, 8, 9.1 (issues 9.1.4, 9.1.6, 9.1.7), 9.2-Non-satellite, 10) <sup>1</sup>
1520-1540	Break	
1540-1700	Review of the WRC-15 agenda items related to the <b>Science issues</b> (agenda items 1.11, 1.12, 1.13, 1.14 and 9.1 (issue 9.1.8)) <sup>1</sup>	<b>Conclusion and closing session</b>

Meeting of ITU-R Study Group 5 (2-3 Dec. 2013)

Meeting of ITU-R SC-WP (6-12 Dec. 2013)

<sup>1</sup> Presentation & explanation of on-going ITU-R preparatory studies for WRC-15 by the resp. groups & of the draft preliminary common views, positions and/or proposals from the regional groups (**African Group/ATU**, **APT-APG**, **Arab Group/ASMG**, **CITEL-PCC.II**, **RCC**, **CEPT-CPG**) & organizations like IMO, WMO.

Order of consideration of the agenda items is indicative at this stage and may be subsequently modified as deemed appropriate.

# Thank you for your attention!

## Questions?

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