

WRC-19 AND BEYOND FROM THE CEPT PERSPECTIVE

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**ITU Seminar for Europe and CIS
on spectrum management
and broadcasting**
1-2 July 2020 – Remote meeting



Outcome of WRC-19 for CEPT



Land mobile and fixed services

Broadband applications in MS

Satellite services

Science services

Maritime, aeronautical, amateur

General issues

Train/tracksides, ITS, **HAPS**, Services above 275 GHz

IMT in mmWave, RLAN 5 GHz, IMT & MSS 2 GHz,
Protection criteria 5 GHz, M2M type communications

App. 30, **ESIM**, Non-GSO FSS Q/V band, **Satellite procedures**,
IMT & BSS L-band, Non-GSO FSS C-band, FSS 50 GHz

Earth stations 400 MHz, **Upgrade EESS/MetSat**, Small satellites

Amateur 50 MHz, GMDSS, Maritime autonomous devices,
VDES Satellite, GADSS, Sub-orbital flights

WPT, Unauthorised Earth stations, Future agenda

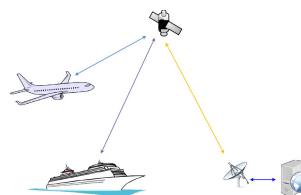


WRC-19 implementation

ECC Plenary (March'20) tasked **WG FM, WG SE and PT1** to review the outcome of WRC-19

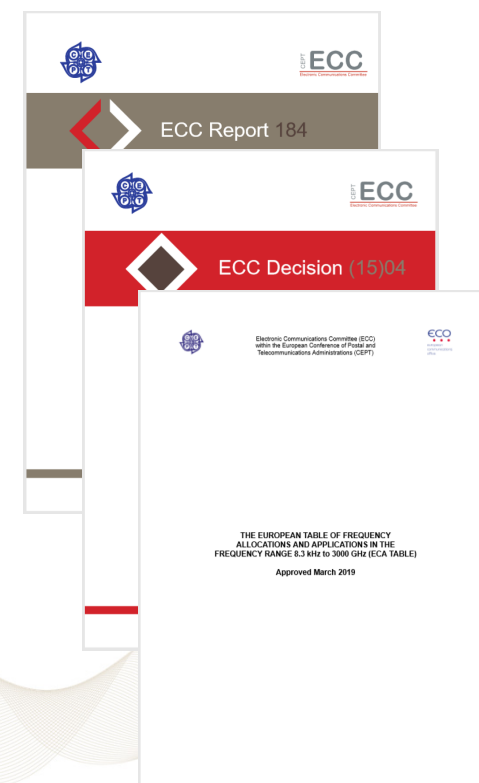
Actions needed include:

- Update of the European Common Allocation Table to introduce the WRC-19 outcome
- Revision / amendment of existing ECC decisions / reports and development of new deliverables



Time frame for implementation : 2020-2021

Alexandre Kholod – WRC-19 and beyond from the CEPT perspective



Update of ECC Decision on 26 GHz band

Unwanted emission limit from IMT base stations



Frequency range	Maximum Total Radiated Power (TRP) (see note)	Measurement bandwidth	Entry into force
23.6-24.0 GHz	- <u>3342</u> dBW	200 MHz	<u>Date of adoption of updated ECC Decision (18)06</u>
	- <u>39</u> dBW	<u>200 MHz</u>	<u>1 January 2024</u>

two stages

DECIDES

vs recognizing (WRC-19)

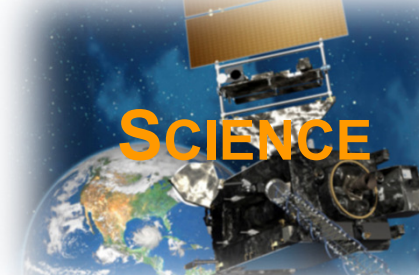
vs 1 September 2027 (WRC-19)

4. that CEPT Administrations shall avoid deployment of high-density mobile systems incl. high-density fixed wireless access in the 22.0-23.6 GHz frequency band;

❖ The updated ECC Decision (18)06 is submitted to Public Consultation until August 2020

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Agenda of WRC-23



prominent issues

UHF review

IMT in mid-bands

Mobile service in 3.6-3.8 GHz
HAPS for IMT (HIBS)
IMT in fixed service bands

GSO ESIM

NGSO ESIM

Inter-satellite links
Data collection via satellite
Protection of Galileo
Satellite procedures

Fixed satellite service

Unmanned aircraft systems

Sub-orbital vehicles

Aeronautical VHF comms.

Aeronautical non-safety aps.

Aeronautical systems digitisation

GMDSS

Space-borne radars

Space weather sensors

Earth exploration

Space research

from CEPT proposals to WRC-19

CEPT studies towards WRC-23

Conference Preparatory Group 2023

PTA Science, Regulatory

1.12 Radar sounders
1.13 SRS 15 GHz
1.14 EESS(passive) 250 GHz
9.1a Space weather sensors
9.1d EESS(passive) 37 GHz
9.1c FWA / FS bands
Res. 655 Time scale

PTB Space

1.15 GSO ESIM Ku-band
1.16 NGSO ESIM Ka-band
1.17 Inter-satellite links
1.18 MSS data collection
1.19 FSS 17 GHz
7 Sat. procedures (Res. 86)
9.2 Inconsistencies in RR
9.3 Due diligence (Res. 80)
CS Article 48

PTC Aeronautical, Maritime, Radiodetermination

1.1 Review of 5.441B
1.6 Sub-orbital vehicles
1.7 AMS(R)S 137 MHz
1.8 Resolution 155
1.9 Appendix 27
1.10 AMS non-safety
1.11 GMDSS
9.1b Protection of RNSS
Res427 Aero. provisions

PTD UHF

1.5 UHF review

ECC PT1 IMT

1.2 IMT centimetre bands
1.3 MS 3.6-3.8 GHz
1.4 HIBS
Art. 21 Limit in No. 21.5 &
updates to Table 21-2

- ❖ Project teams will have their first meetings in September-October 2020
- ❖ Next CPG meeting is scheduled on 8-11 December 2020 in Montreux, Switzerland

Key to success

Transparent preparation on a regional level

Open dialogue with all regional organisations

WRC-19 was successful ...

... WRC-23 will be also successful !



**Thank you
for your attention**

Further information

General information: <http://www.cept.org/ecc>

CPG23 page: <http://www.cept.org/ecc/groups/ecc/cpg>

Coordinators:

<https://www.cept.org/ecc/groups/ecc/cpg/page/list-of-cept-coordinators-wrc-23>

CEPT Briefs / European Common Proposal to WRC-23:

<https://www.cept.org/ecc/groups/ecc/cpg/page/cept-briefs-and-ecps-for-wrc-23>

CPG23 Meeting Schedule:

https://cept.org/Documents/cpg/59213/cpg-20-info-06r2_cpg23-preliminary-schedule-2020-2023