



2nd Global 5G Event

9-10 November 2016, Rome, Italy

Session 2:

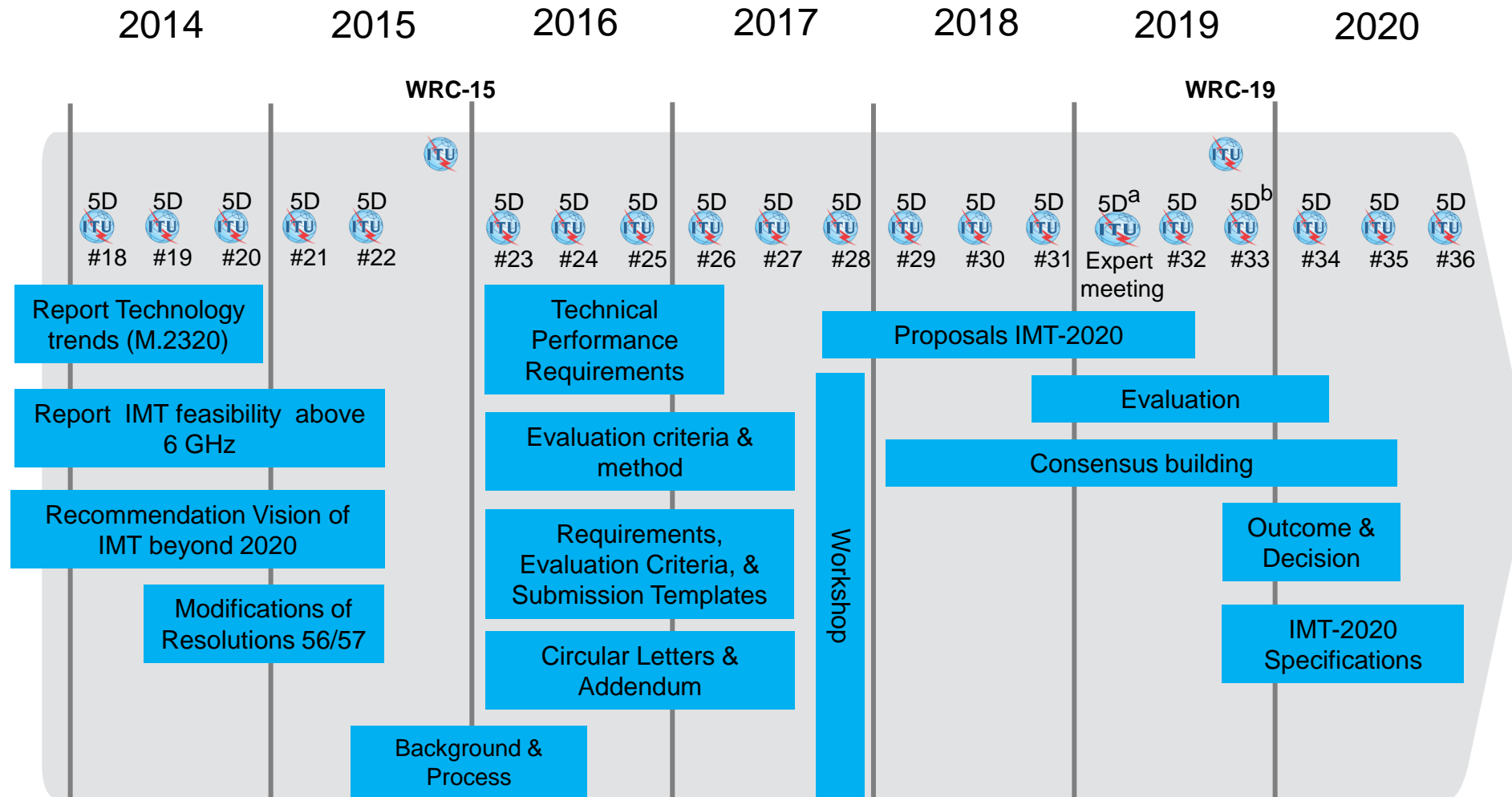
Towards globally harmonized spectrum for 5G

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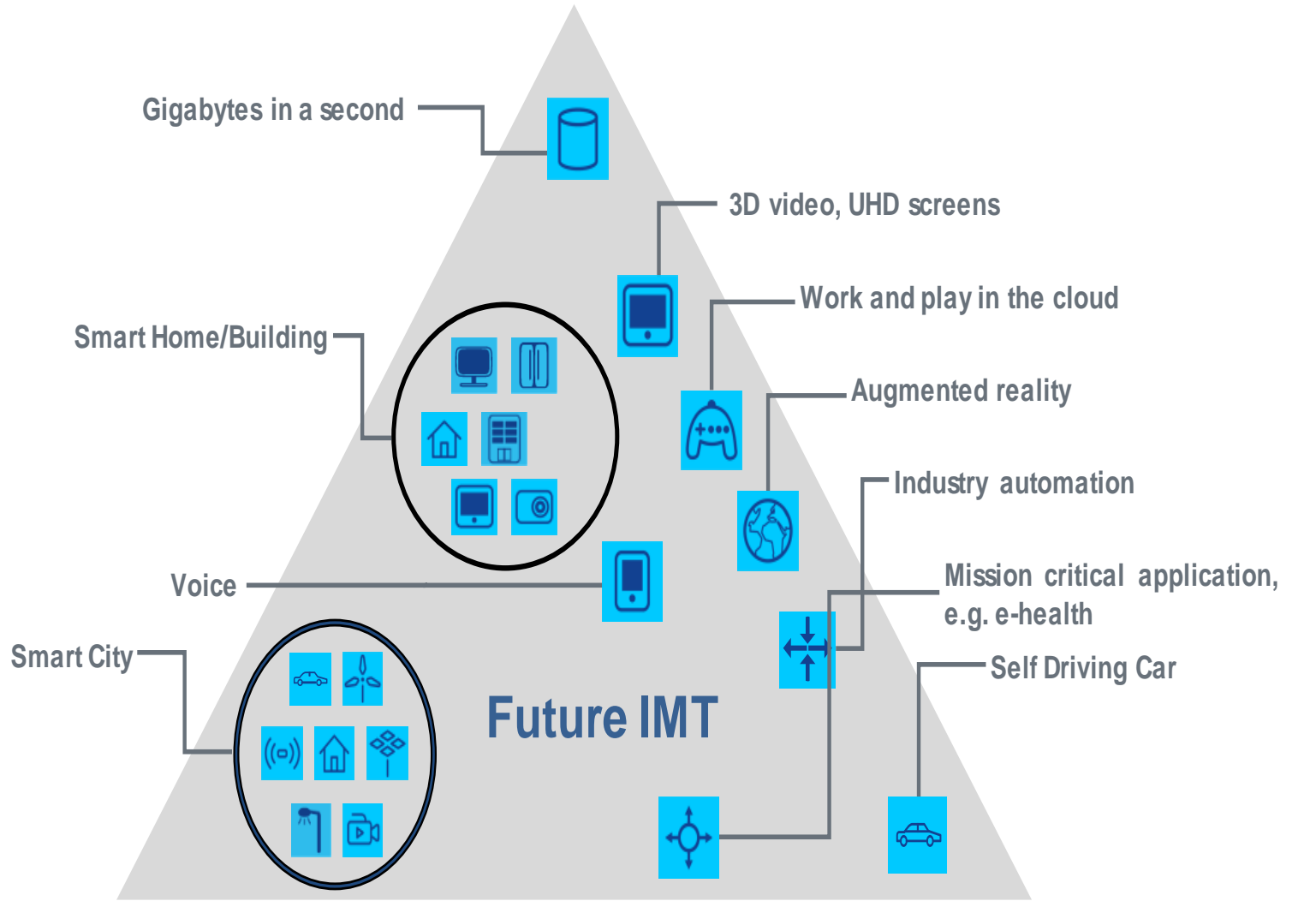
Detailed Timeline & Process For IMT-2020 in ITU-R



(a) – if needed focus meeting towards WRC-19 (non-Technology), (b) – focus meeting on Evaluation (Technology)

Note: While not expected to change, details may be adjusted if warranted.

Enhanced Mobile Broadband



Massive Machine Type Communications

Ultra-reliable and Low Latency Communications

IMT bands: within 450 – 1518 MHz	Footnote in RR
450-470 MHz in all 3 Regions	5.286AA
(470-960 MHz band use in R1 to be considered at WRC-23) 470-608 MHz some countries in R2 614-698 MHz some countries in R2 470-698 MHz some countries in R3 610-698 MHz some countries in R3	Res. 810 (WRC-15) 5.295 5.308A 5.296A 5.296A
694-790 MHz in R1 790-960 MHz in R1 698-960 MHz in R2 698-790 MHz some countries in R3 790-960 MHz in R3	5.317A 5.317A 5.317A 5.313A 5.317A
1 427-1 452 MHz in R1 1 452-1 492 MHz some countries in R1 1 492-1 518 MHz in R1 1 427-1 518 MHz in R2 1 427-1 452 MHz in R3 1 452-1 492 MHz in R3 1 492-1 518 MHz in R3	5.341A 5.346 5.341A 5.341B 5.341C 5.346A 5.341C

IMT bands: within 1710 – 4990 MHz	Footnote in RR
1 710-1 885 MHz in all 3 Regions	5.384A
1 885-2 025 MHz in all 3 Regions	5.388
2 110-2 200 MHz in all 3 Regions	5.388
2 300-2 400 MHz in all 3 Regions	5.384A
2 500-2 690 MHz in all 3 Regions	5.384A
3 300-3 400 MHz some countries in R1	5.429B
3 300-3 400 MHz some countries in R2	5.429D
3 300-3 400 MHz some countries in R3	5.429F
3 400-3 600 MHz in R1	5.430A
3 400-3 600 MHz in R2	5.431B
3 400-3 500 MHz some countries in R3	5.432A, 5.432B
3 500-3 600 MHz some countries in R3	5.433A
3 600-3 700 MHz some countries in R2	5.434
4 800-4 900 MHz 1 country in R2	5.441A
4 800-4 990 MHz some countries in R3	5.441B

Activities under WRC-19 AI 1.13

to consider identification of frequency bands for the future development of International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution **238 (WRC-15)**

Relevant ITU-R Working Parties

Terrestrial component of IMT:

- Spectrum needs
- Technical and operation characteristics including protection criteria
- Deployment scenarios

Existing services (also adjacent bands):

- Technical characteristics
- Protection criteria

All services and relevant frequency bands:

- Propagation models for sharing studies

TG 5/1 Terms of Reference

- Conduct sharing and compatibility studies in accordance with Res. 238 (WRC-15)
- Develop draft CPM-text under WRC-19 AI 1.13

31 March 2017

13 September 2018

New spectrum: Bands under study for WRC-19

Existing mobile allocation	No global mobile allocation
24.25 GHz – 27.5 GHz	
	31.8 – 33.4 GHz
37 – 40.5 GHz	
	40.5 – 42.5 GHz
42.5 – 43.5 GHz	
45.5 – 47 GHz	
	47 - 47.2 GHz
47.2 -50.2 GHz	
50.4 – 52.6 GHz	
66 – 76 GHz	
81 – 86 GHz	

Thank you!

Useful links

- **IMT-2020 home page**

<http://www.itu.int/en/ITU-R/study-groups/rsg5/rwp5d/imt-2020>

- **ITU-R Working Party 5D “IMT Systems”**

<http://www.itu.int/go/ITU-R/wp5d>

- **Task Group 5-1 “WRC-19 agenda item 1.13”**

<http://www.itu.int/go/ITU-R/tg5-1>

- **ITU-R Recommendations (M-series)**

<http://www.itu.int/ITU-R/go/rec-m>

- **ITU-R Reports(M-series)**

<http://www.itu.int/ITU-R/go/rep-m>