

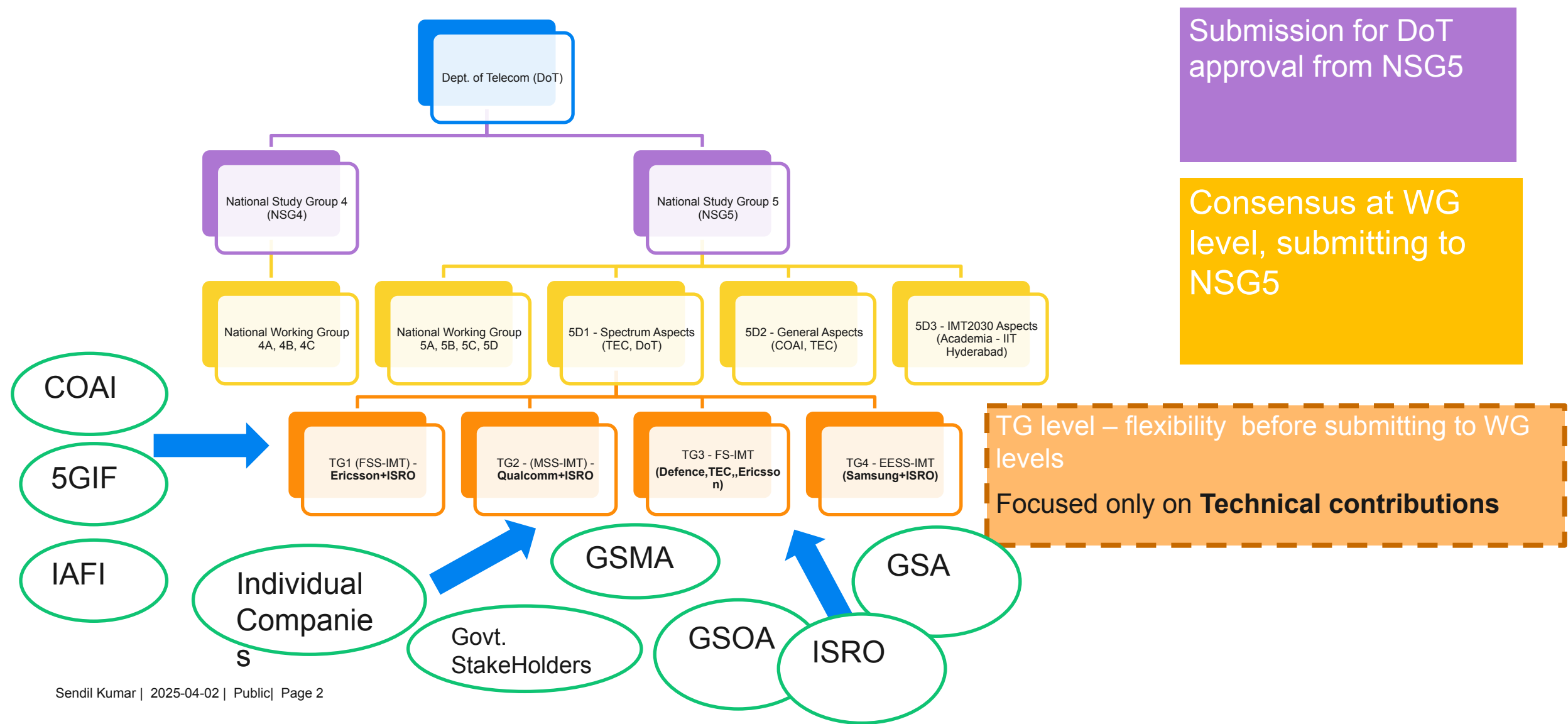
National Preparations towards WRC-27

5th ISMC 2025

16th Dec 2025



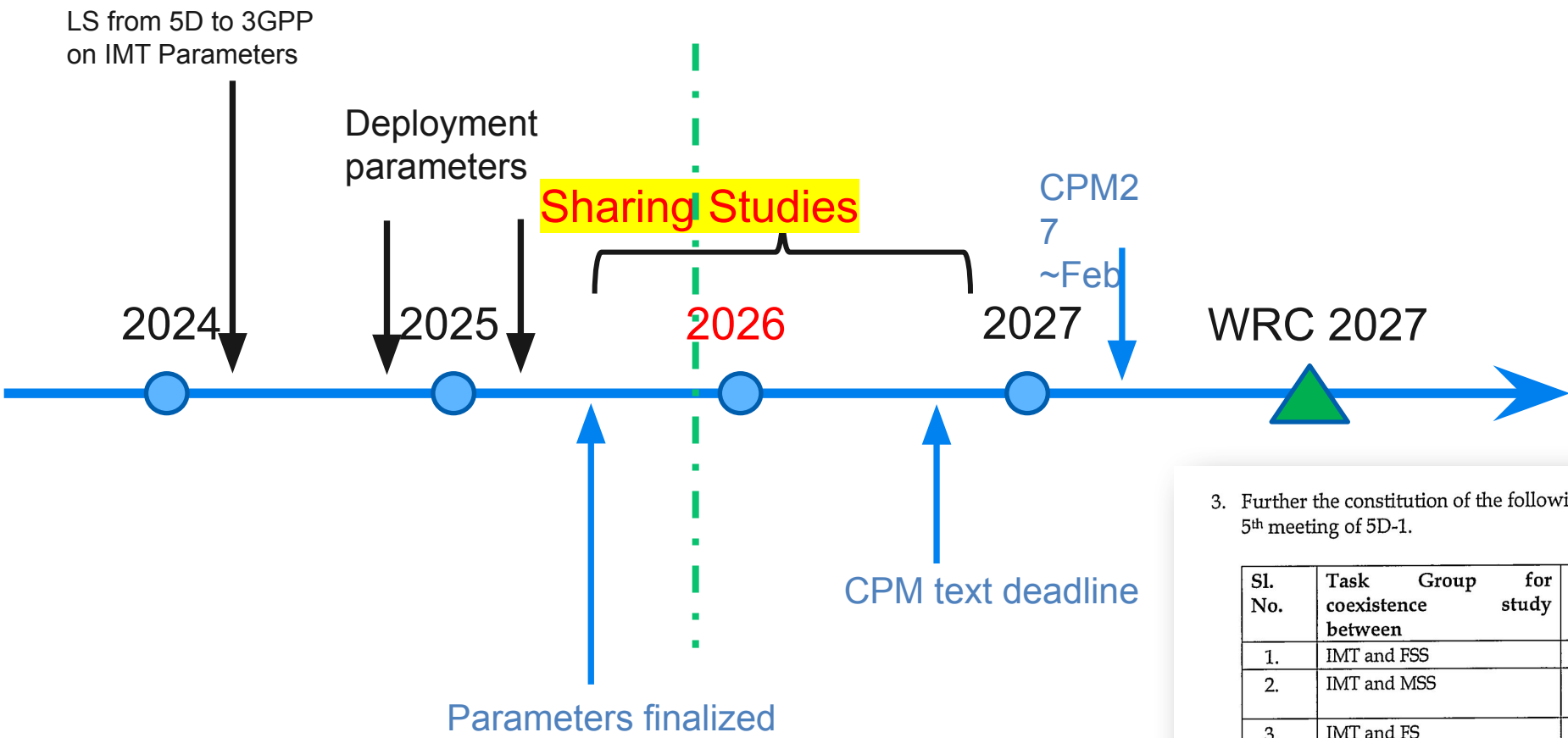
National Structure



Sharing Study : National Task Groups

Task Groups under National Working Group

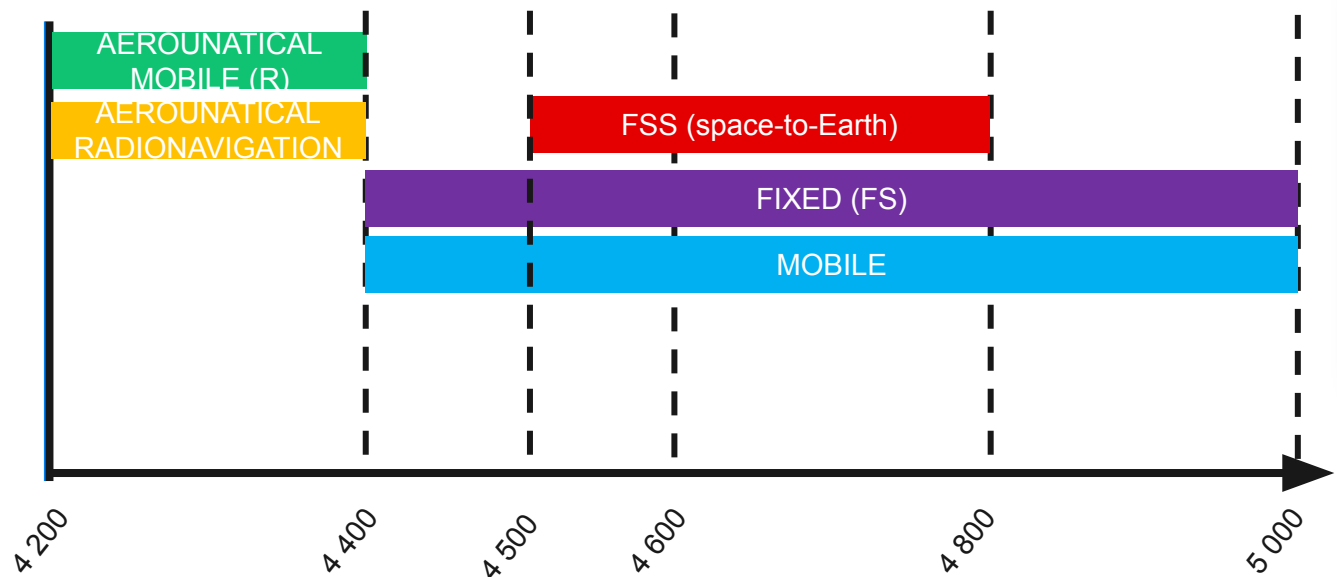
5D1



3. Further the constitution of the following Task Groups was also agreed upon during the 5th meeting of 5D-1.

Sl. No.	Task Group for coexistence between study	Lead	Co-lead
1.	IMT and FSS	Sendil, Ericsson	Saket Buch ,SAC, ISRO
2.	IMT and MSS	Dhaval Upadhyay, SAC, ISRO	Punit, Qualcomm
3.	IMT and FS	Vikas Jhakad, JCES Bhoomika Gaur, TEC	Sendil, Ericsson
4.	IMT and EESS	Diwakar, Samsung	Himanshu Kumar, ISRO Headquarters

WRC-27 : 4 400-4 800 MHz



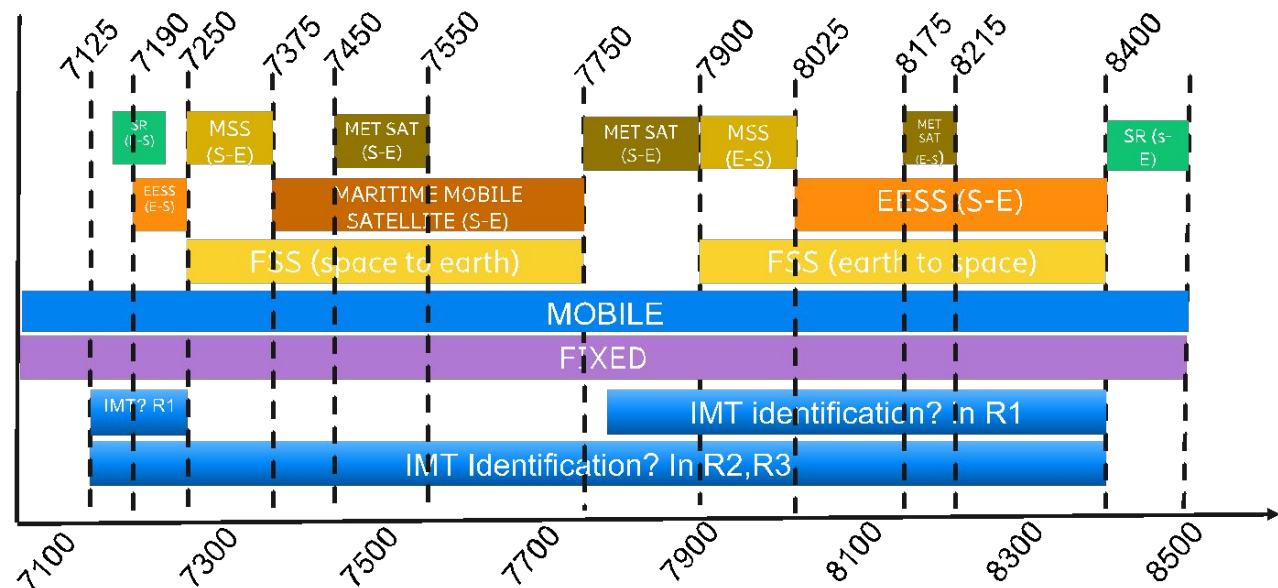
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4.	IMT and EESS	Diwakar, Samsung	Himanshu Kumar, ISRO Headquarters

National Activity

- TG#1 : FSS usage (AP30B)
- TG#2 : NA
- TG#3 : IMT and FS
- TG#4 : NA

WRC-27 : 7 125-8 400 MHz



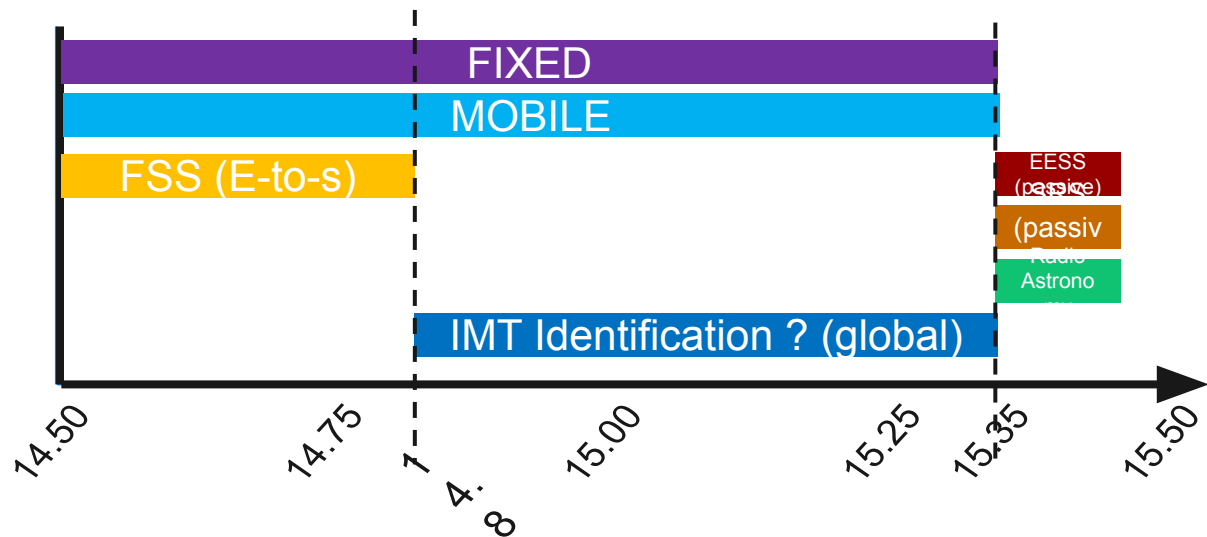
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National Activity

- TG#1 : FSS
- TG#2 : MSS
- TG#3 : IMT and FS
- TG#4 : METSAT

WRC-27 : 14.8-15.35 GHz



3. Further the constitution of the following Task Groups was also agreed upon during the 5th meeting of 5D-1.

Sl. No.	Task Group for study	Lead	Co-lead
1.	IMT and FSS	Sendil, Ericsson	Saket Buch ,SAC, ISRO
2.	IMT and MSS	Dhaval Upadhyay, SAC, ISRO	Punit, Qualcomm
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National Activity

TG#1 :

TG#2 :

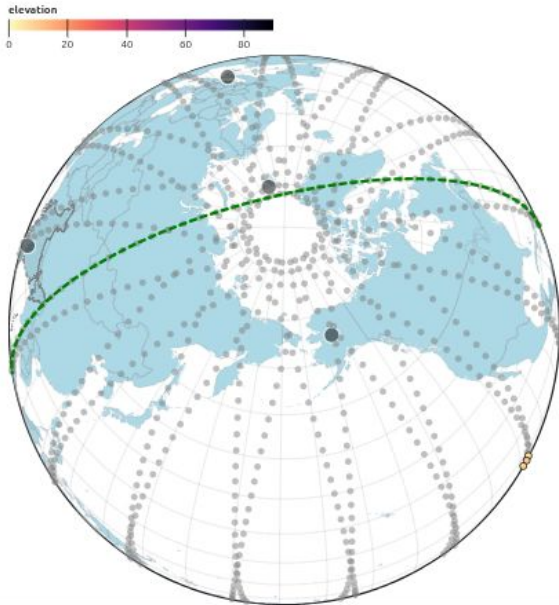
TG#3 : FS-IMT (mmwave links)

TG#4 :

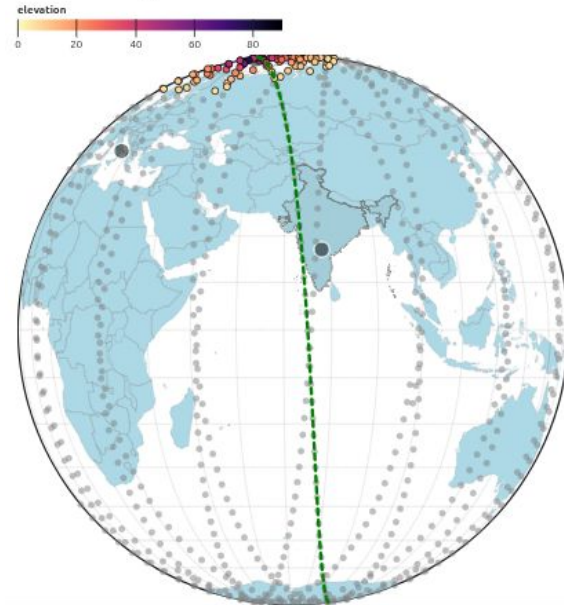


EESS : Study

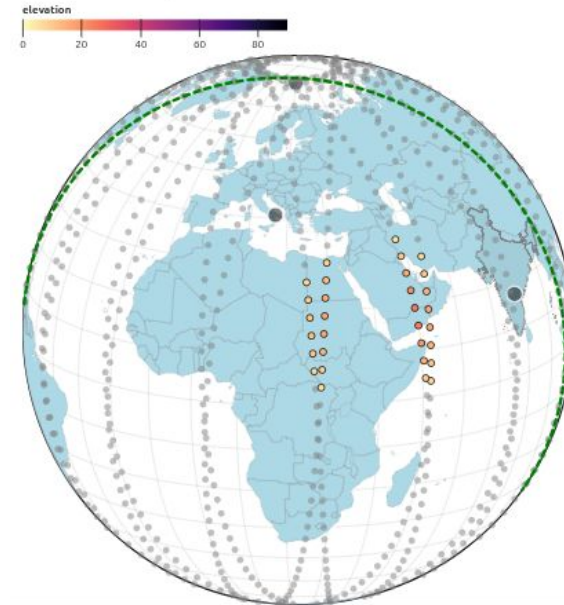
Location : Alaska



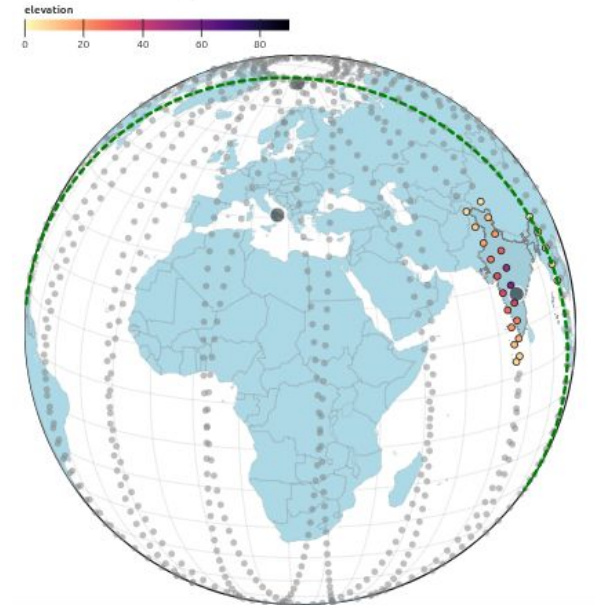
Location : Hyderabad



Location : Italy



Location : Europe



National Activity towards WRC-27 (WP5D and other WPs)



3. Further the constitution of the following Task Groups was also agreed upon during the 5th meeting of 5D-1.

Sl. No.	Task Group for study	Lead	Co-lead
1.	coexistence between IMT and FSS	Sendil, Ericsson	Saket Buch ,SAC, ISRO
2.	IMT and MSS	Dhaval Upadhyay, SAC, ISRO	Punit, Qualcomm
3.	IMT and FS	Vikas Jhakad, JCES Bhoomika Gaur, TEC	Sendil, Ericsson
4.	IMT and EESS	Diwakar, Samsung	Himanshu Kumar, ISRO Headquarters

Meeting No. 47 (Geneva, 3-11 October 2024)

- 1 Update working documents on sharing and compatibility studies, based on input contributions;
- 2 Initiate development of draft CPM text based on input contributions;
- 3 Send liaison statements to contributing groups as necessary;
- 4 Review and revise the detailed work plan as necessary.

Meeting No. 48 (Geneva, 4-13 February 2025)

- 1 Update working documents on sharing and compatibility studies, based on input contributions;
- 2 Continue development of draft CPM text based on input contributions;
- 3 Send liaison statements to contributing groups as necessary;
- 4 Review and revise the detailed work plan as necessary.

Meeting No. 49 (Japan, 24 June – 3 July 2025)

- 1 Update working documents on sharing and compatibility studies, based on input contributions;
- 2 Update the draft CPM text based on input contributions;
- 3 Send liaison statements to contributing groups as necessary;
- 4 Review and revise the detailed work plan as necessary.

Meeting No. 50 (Geneva, 7-16 October 2025)

- 1 Update working documents on sharing and compatibility studies, based on input contributions;
- 2 Update the draft CPM text based on input contributions;
- 3 Send liaison statements to contributing groups as necessary;
- 4 Review and revise the detailed work plan as necessary.

Meeting No. 51 (TBD), 3-12 February 2026)

- 1 Update working documents on sharing and compatibility studies, based on input contributions;
- 2 Update the draft CPM text based on input contributions;
- 3 Send liaison statements to contributing groups as necessary;
- 4 Review and revise the detailed work plan as necessary.

Fixed Satellite Services and IMT



Study Type-A (FSS-UL) : Aggregated Interference from IMT into FSS Satellite Receivers

Study Type-B(FSS-DL) : Aggregated Interference from IMT into FSS Earth Stations

Aspects

- For Incumbent usage in India
- For Incumbent usage OUTSIDE India (in R3)
- Aggregated IMT interference into FSS SS of other Admins
 - having footprint in India
 - having footprint in outside India
- Necessary study for regional Identification for IMT

Fixed Services - IMT



Study Type-A (FS) : Aggregated Interference from IMT into FS links (cross-border only)

Study Type-B : National only case

Aspects

- For Incumbent usage in India (specifically if sparsely deployed.,)
- ITU-R 5C parameters
- Validate co-existence feasibility regional Identification for IMT

National level –Deliberations



- TDD Factors BS Transmission
- Total Integration Gain
- Protection Criteria p%– Time/Space
- Polarization Loss – SS Rx
- Clutter Loss models
- IMT Deployment
 - Ra, Rb, Exclusion zones
 - Population based redistribution (SEDAC)
 - Existing saturated IMT deployments in 4G bands
- EESS India Oceansat3

[851]	Towards the sharing and compatibility studies between EESS and IMT systems in the frequency band 7 125-8 400 MHz under WRC-27 agenda item 1.7	India	AI1.7
[850]	Proposal on text of working document towards the preliminary draft new Report ITU-R M.[IMT-2030.EVAL] - Guidelines for evaluation of radio interface technologies for IMT-2030	India	
[849]	Proposal for the modification to the working document on regulatory considerations to protect terrestrial IMT systems under WRC-27 agenda item 1.13	India	AI1.13
[848]	Inputs regarding the IMT protection criterion discussion	India	
[696]	Towards working document on studies for the regulatory considerations to protect terrestrial IMT systems under WRC-27 agenda item 1.13	India	AI1.13
[695]	Text proposals for the working document towards preliminary draft new Report ITU-R M.[IMT-2030.TECH PERF REQ] - Minimum requirements related to technical performance for IMT-2030 radio interface(s)	India	
[694]	Sharing and compatibility studies between MSS (s-E) in the frequency band 7 250-7 375 MHz and IMT systems in the frequency band 7 125-8 400 MHz under WRC-27 agenda item 1.7	India	AI1.7
[693]	Sharing and compatibility studies between MSS (E-s) in the frequency band 7 900-8 025 MHz and IMT systems under WRC-27 agenda item 1.7	India	AI1.7
[692]	Sharing and compatibility studies between FSS (s-E) and IMT systems in the frequency band 7 125-8 400 MHz under WRC-27 agenda item 1.7	India	AI1.7
[691]	Sharing and compatibility studies between FSS (E-s) and IMT systems in the frequency band 7 125-8 400 MHz under WRC-27 agenda item 1.7	India	AI1.7
[690]	Sharing and compatibility studies between FS and IMT systems in the frequency band 7 125-8 400 MHz under WRC-27 agenda item 1.7	India	AI1.7
[689]	Sharing and compatibility studies between EESS & SRS and IMT systems in the frequency band 7 125-8 400 MHz under WRC-27 agenda item 1.7	India	AI1.7

