

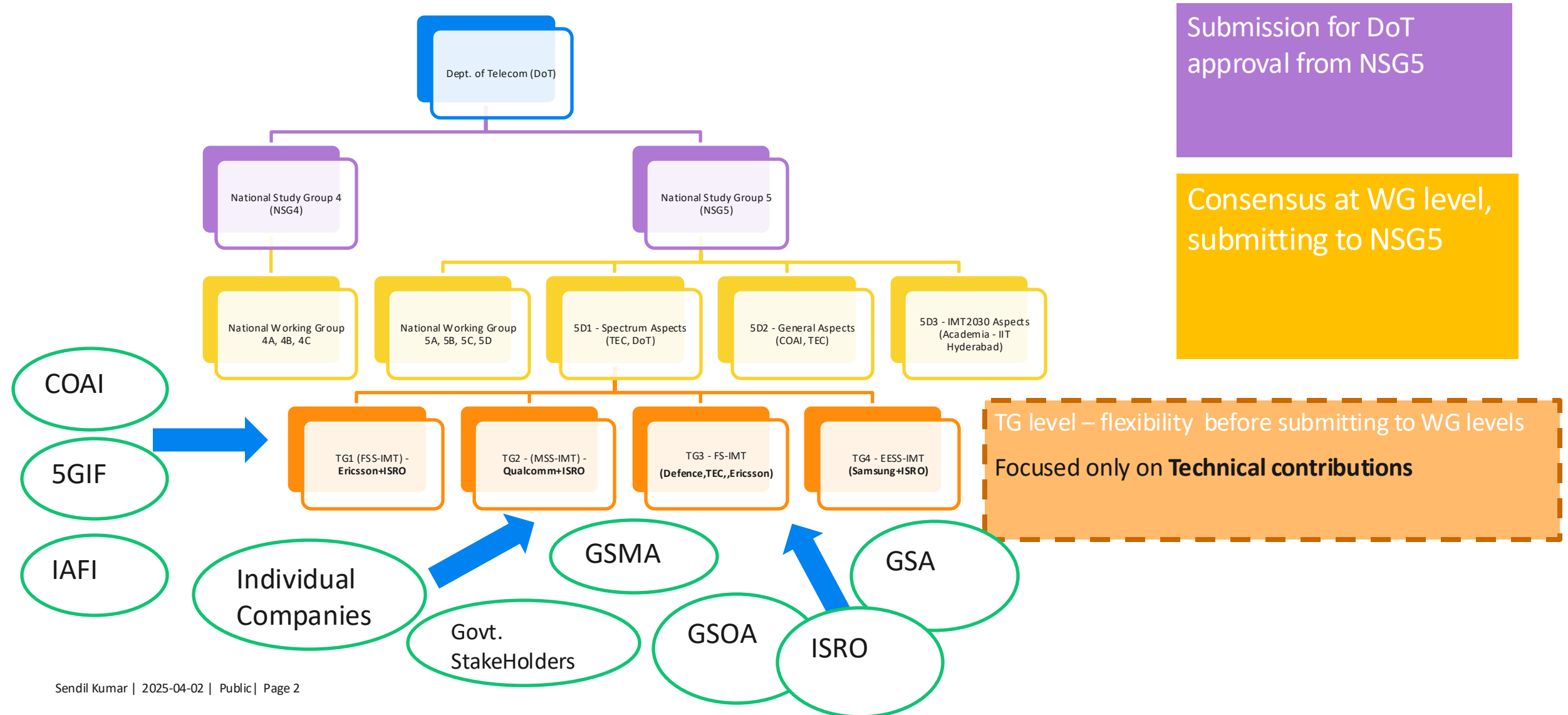
National Preparations towards WRC-27

7th April 2025

2nd Preparatory Workshop for
WRC-27

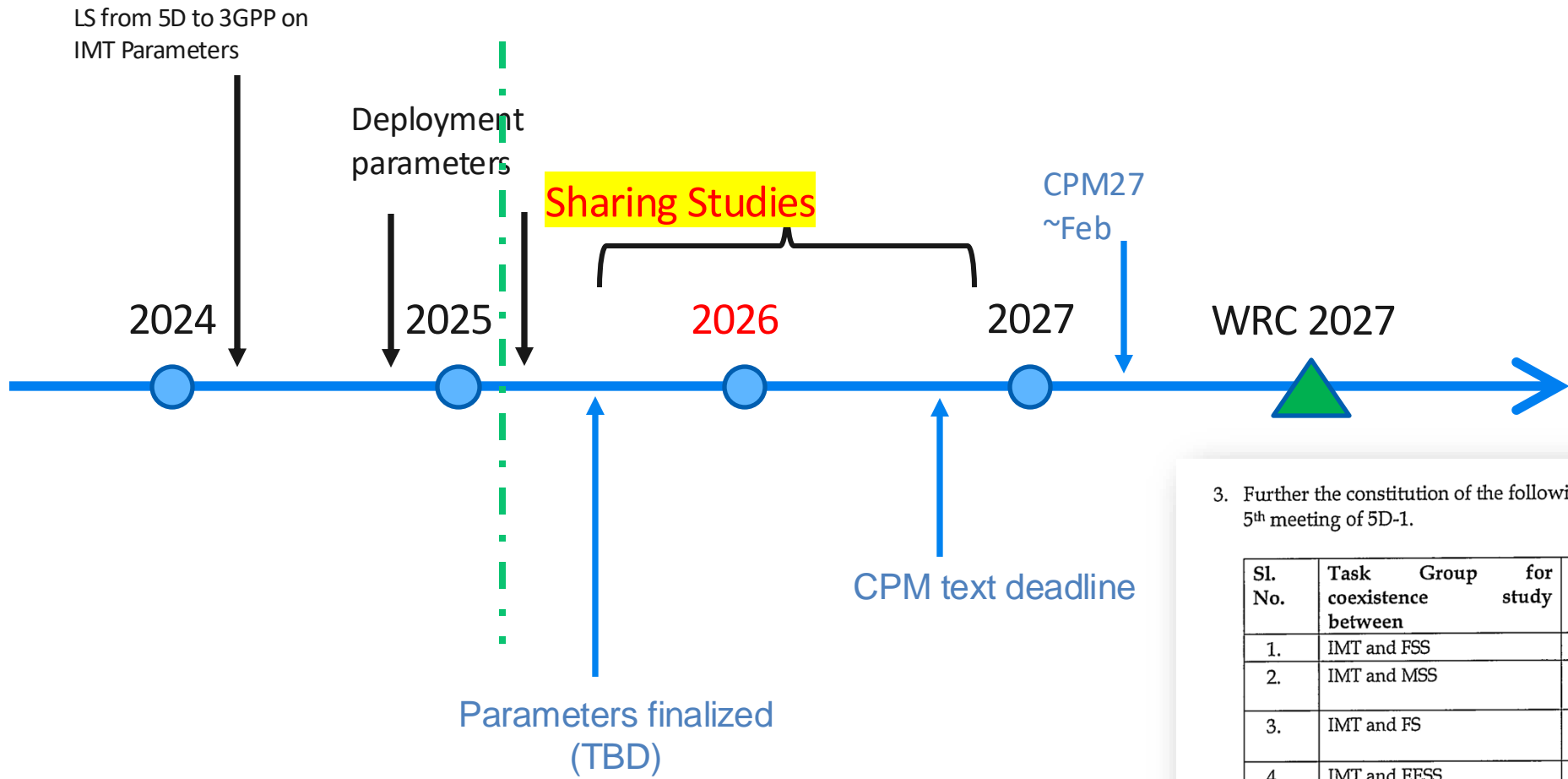


National Structure



Sharing Study : National Task Groups

Task Groups under National Working Group 5D1

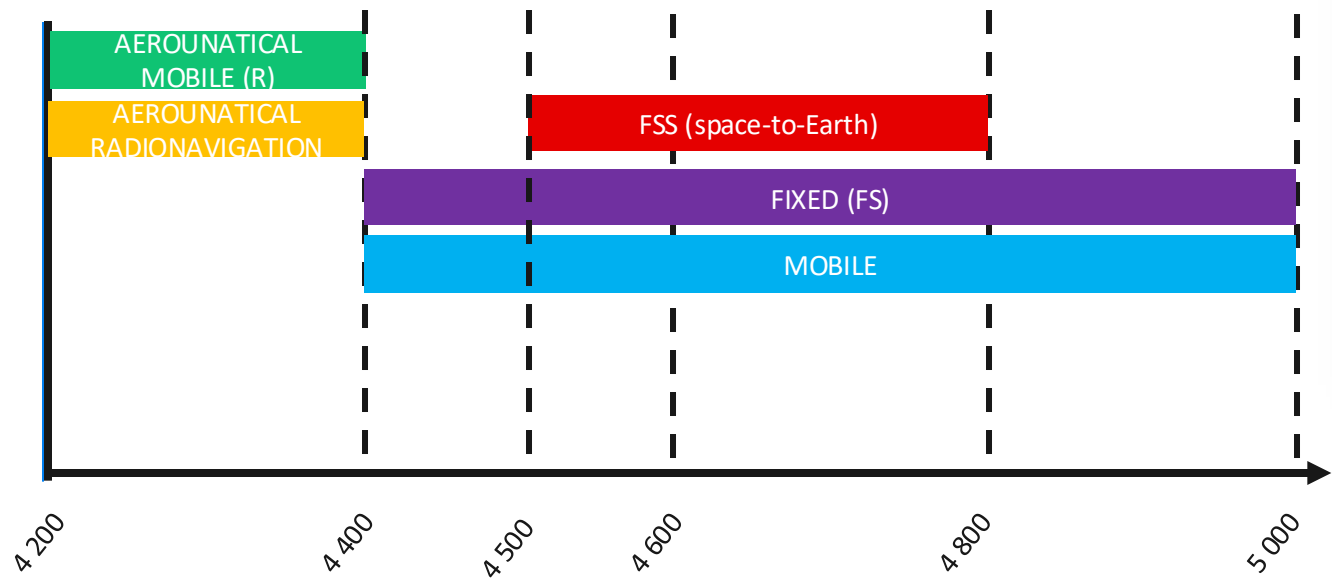


3. Further the constitution of the following Task Groups was also agreed upon during the 5th meeting of 5D-1.

Sl. No.	Task Group for 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 : Preparing for new study cycle

4 400-4 800 MHz



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

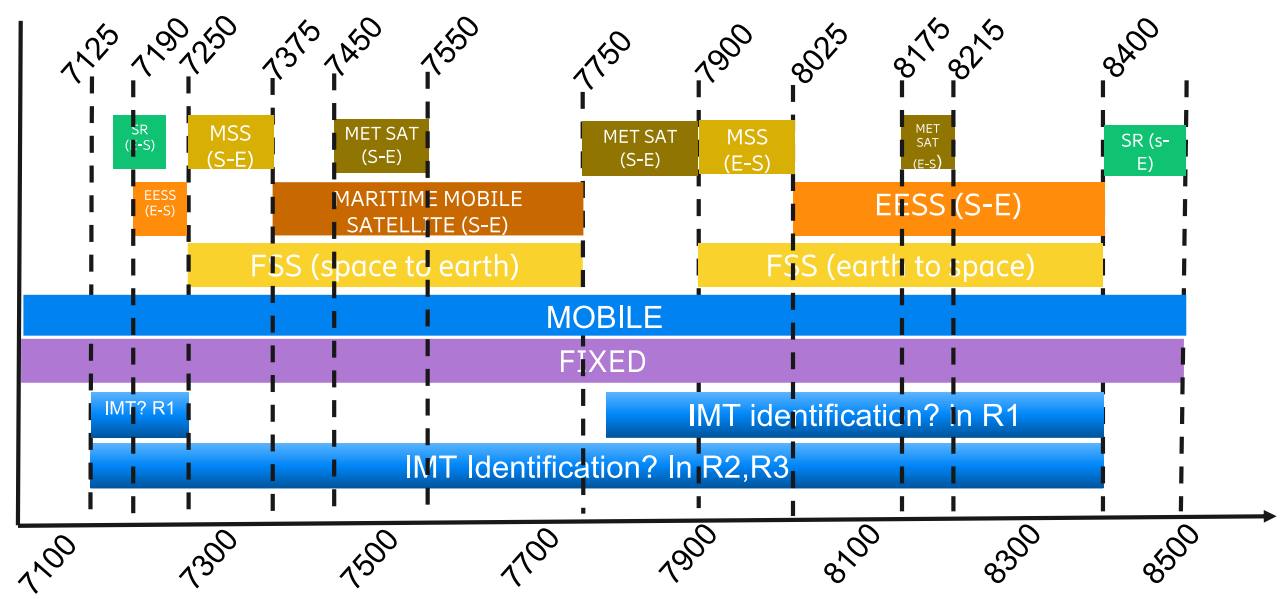
Sl. No.	Task Group for coexistence between study	Lead	Co-lead
1.	IMT and FSS	Sendil, Ericsson	Saket Buch ,SAC, ISRO
2.	IMT and MSS	Dhaval Upadhyay, SAC, ISRO	Punit, Qualcomm
3.	IMT and FS	Vikas Jhakad, JCES Bhoomika Gaur, TEC	Sendil, Ericsson
4.	IMT and EESS	Diwakar, Samsung	Himanshu Kumar, ISRO Headquarters

National Activity

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

WRC-27 : Preparing for new study cycle

7 125-8 400 MHz



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

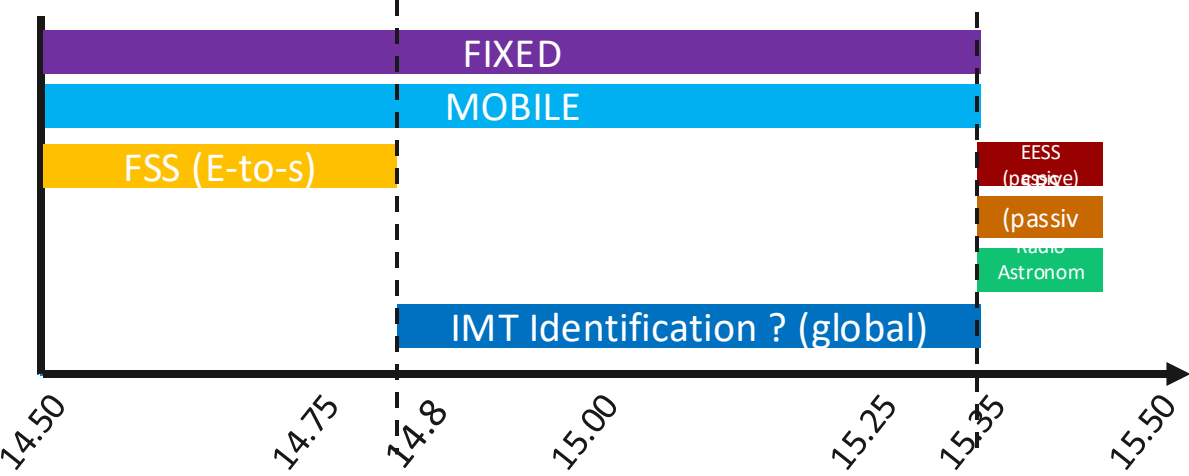
Sl. No.	Task Group for study	Lead	Co-lead
1.	IMT and FSS	Sendil, Ericsson	Saket Buch ,SAC, ISRO
2.	IMT and MSS	Dhaval Upadhyay, SAC, ISRO	Punit, Qualcomm
3.	IMT and FS	Vikas Jhakad, JCES Bhoomika Gaur, TEC	Sendil, Ericsson
4.	IMT and EESS	Diwakar, Samsung	Himanshu Kumar, ISRO Headquarters

National Activity

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

WRC-27 : Preparing for new study cycle

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
3.	IMT and FS	Vikas Jhakad, JCES Bhoomika Gaur, TEC	Sendil, Ericsson
4.	IMT and EESS	Diwakar, Samsung	Himanshu Kumar, ISRO Headquarters

National Activity

- TG#1 :
- TG#2 :
- TG#3 : FS-IMT (mmwave links)
- TG#4 :

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.

AI 1.7 : Main Study Report



WP 5D/	Source	Services/Applications/Models	Task Group/Remarks
413 (Annex 4.2) 563 (Annex 4.15) 160	WP 5D	International Mobile Telecommunications (IMT)	M.2101, AAS
	WPs 3K/3M	Propagation models	
118	WP 4A	Fixed-satellite service (FSS) / RR Appendix 30B including detailed information provided by the BR in Document 5D/ 254R1 Broadcasting-satellite service (BSS)	TG#1
108 , 418	WP 4C	Mobile-satellite service (MSS) Maritime mobile-satellite service (MMSS)	TG#2
	WP 5A	Land mobile service excluding IMT (LMS) Amateur service Amateur-satellite service	
127 , 425 , 427	WP 5B	Maritime mobile service (MMS) Aeronautical mobile service (AMS) Aeronautical mobile (R) service (AM(R)S) Radiodetermination service Aeronautical radionavigation service (ARNS)	
129	WP 5C	Fixed service (FS)	TG#3
92 , 403	WP 7B	Space operation service (SOS) Space research service (SRS) Earth exploration-satellite service (EESS) Meteorological-satellite service (MetSat)	TG#4
87	WP 7C	Earth exploration-satellite service (passive) (EESS (passive))	TG#4
404	WP 7D	Radio astronomy service (RAS)	TG#4

Recently updated at 5D/48, Feb2025

[5D/563](#) Annex 4.9

- Propagation models
- Technical and operational characteristics

Recently updated at 5D/48, Feb2025

[5D/563](#)

- **[563] Annex 4.10** - (4 400-4 800 MHz)
- **[563] Annex 4.11** - (7 125-8 400 MHz)
- **[563] Annex 4.12** - (14.8-15.35 GHz)
- **[563] Annex 4.13** - Discussion Reverse Study
- **[563] Annex 2.9.6** Updated detailed work plan for WRC-23 agenda item 1.7

Task Group #1 : FSS - IMT



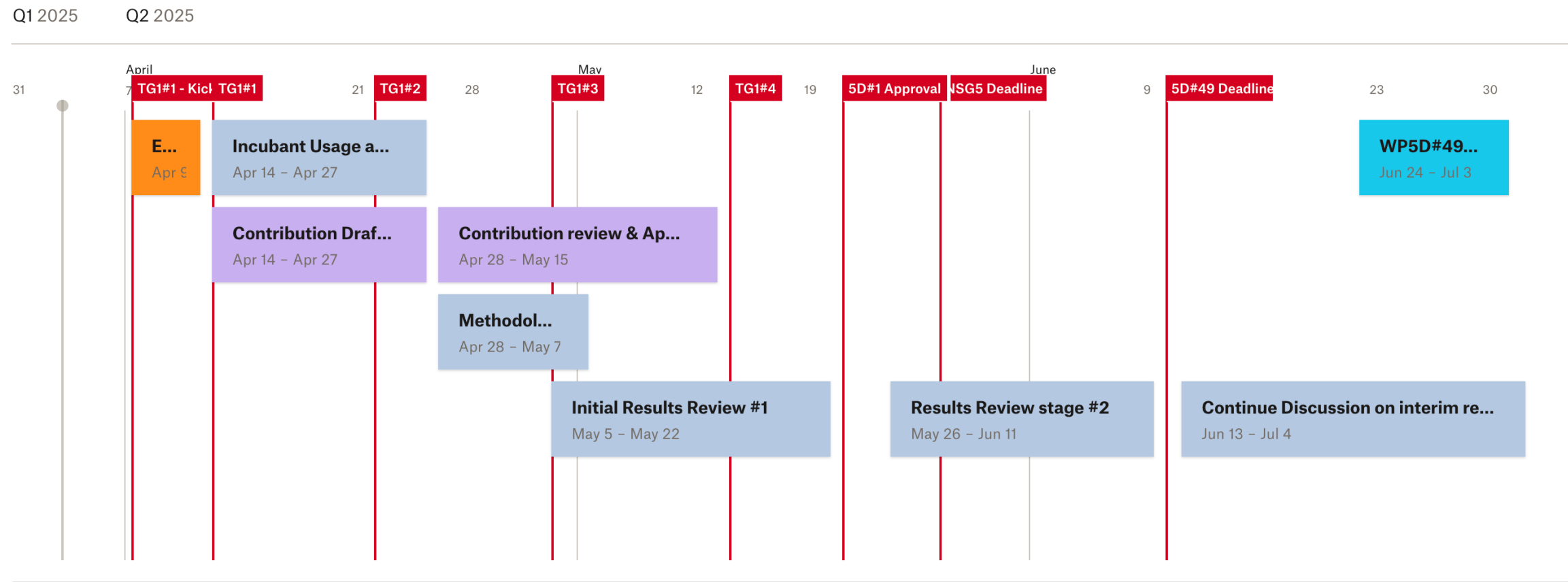
Study 1: Aggregated Interference from IMT into FSS Satellite Receivers

Study 2: 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
- GSO
- Regional Identification for IMT !important

Task Group : Draft Plan



National Preparations



Frequency Range	Victim Transmit direction	GSO / NGSO	Indian Incumbent users	ITU-R documents (technical / operational characteristics / protection criteria)		Other relevant Models
				IMT (WP5D) 5D/413 (Annex. 4.2)	Incumbent	
4 400 – 4 800 MHz						P.619, P.2108, P.2402, P.2109, P.452, P.1812..
4 500 – 4 800 MHz	space-to-Earth	GSO			5D/563 (ANNEX 4.15)	
7 125 – 8 400 MHz					5D/563 (ANNEX 4.15)	P.619, P.2108, P.2402, P.2109, P.452, P.1812..
7 250 – 7 750 MHz	space-to-Earth	GSO and NGSO			WP4A	
7 900 – 8 400 MHz	Earth-to-space	GSO and NGSO			WP4A	
7 250 – 7 750 MHz	IMT receivers	GSO and NGSO			EIRP limits RR Article 21 (Table 21.4)	
7 900 – 8 400 MHz	IMT receivers	GSO and NGSO			EIRP limits RR Article 21 (III & IV)	
8 025 – 8400 MHz	EESS (Space-to-Earth)	NGSO				

National Preparations



Frequency Range	Victim Transmit direction	GSO / NGSO	Indian Incumbent users	ITU-R documents (technical / operational characteristics / protection criteria)		Other relevant Models
				IMT (WP5D)	Incumbent	P.2108, P.2402, P.2109, P.452, P.1812, P.2001
4 400 – 4 800 MHz				5D/242 (ANNEX 4.9)		
4 400-4 800	Fixed Links (both direction)	-NA-			WP5C	
7 125 – 8 400 MHz				5D/242 (ANNEX 4.15) Section 3.1		
7 125-8 400 MHz	Fixed Links (both direction)				WP5C	
14.8 - 15.35 GHz						
14.8-15.35 GHz	FS links both direction				WP5C	

