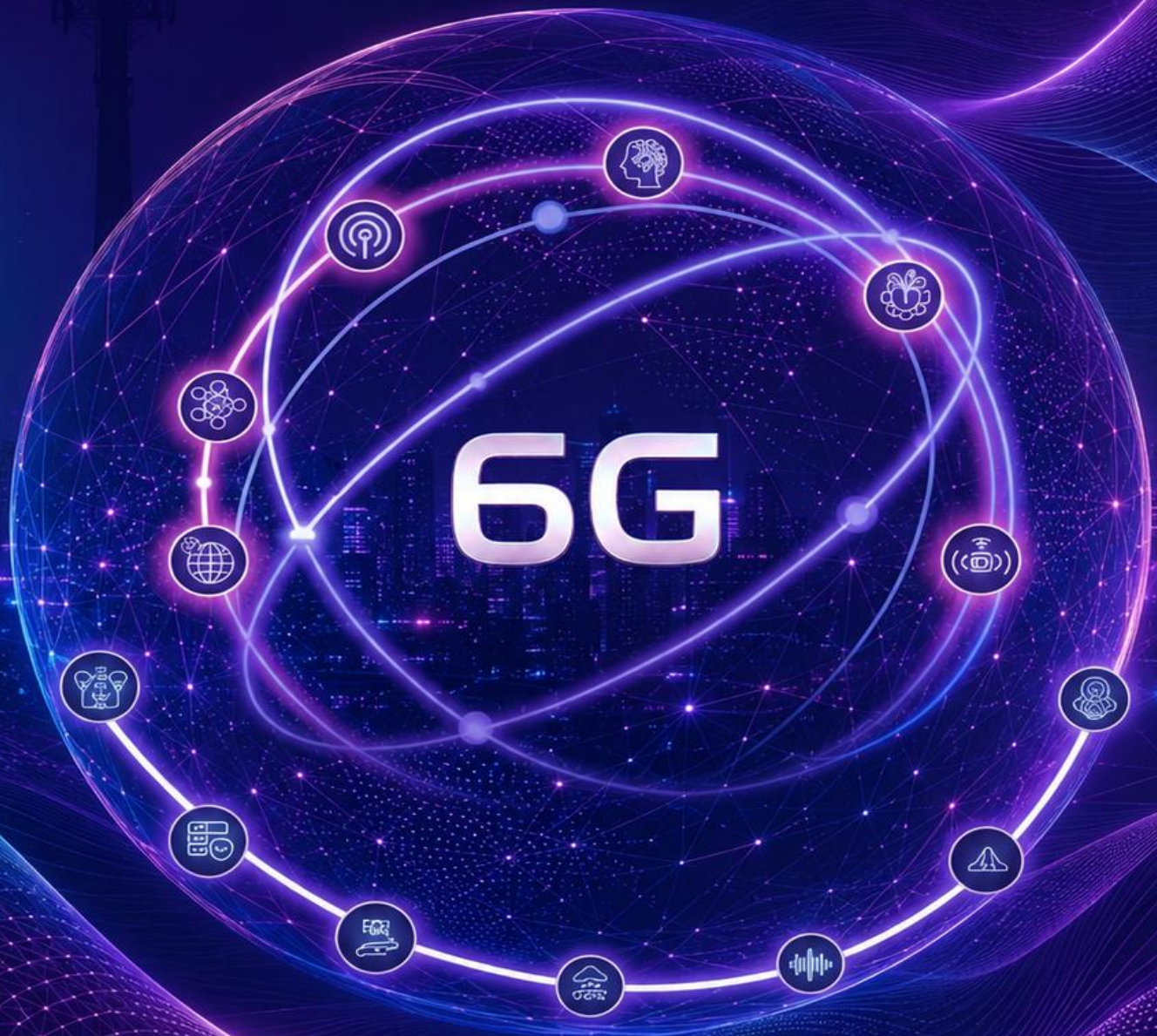


ACCELERATING INDIA'S 6G LEADERSHIP



ANNUAL REPORT 2025-26





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Chairperson's Message



Dear Members,

It gives me great pleasure to present the Annual Report of the Bharat 6G Alliance for the year 2025–26. This year has been an important period of transition, consolidation, and renewed momentum for the Alliance as we move from the foundational phase of 6G vision-building toward a more focused phase of execution, standardization, research, and technology development. With the continued support of the Department of Telecommunications, Government of India, and the active participation of our members, B6GA has strengthened its role as a collaborative national platform for shaping India's 6G

future.

During the year, the Alliance made significant progress across key areas including national spectrum strategy, AI-native networks, non-terrestrial networks, indigenous device and component development, use-case identification, sustainability, intellectual property creation, and global standards participation. The high-level review meetings chaired by the Hon'ble Minister of Communications, Shri Jyotiraditya M. Scindia, provided clear direction for mission-mode implementation, measurable deliverables, stronger coordination among Working Groups, and deeper engagement with the global 6G ecosystem.

On the technology front, our National 6G Roadmap 2025–30 was submitted to the Department of Telecommunications in August 2025, followed by the Detailed Project Report (DPR) for the Bharat 6G Mission, built around a hub-and-spoke model to accelerate India's 6G research, standardisation, IPR generation and testbeds through 2027. Our Working Groups collectively made 115 technical contributions in a single quarter alone to 3GPP, ITU, O-RAN and TSDSI — a clear signal of India's growing weight in global standards-setting.

A major highlight of the year was the 2nd International Bharat6G Symposium 2025, held alongside India Mobile Congress 2025, which brought together global experts, policymakers, industry leaders, academia, and international 6G alliances. The release of the New Delhi Declaration, endorsing the principles of 6G as secure, open, resilient, inclusive, and sustainable by design, reflected India's growing contribution to the global 6G dialogue. Our collaborations with partners such as NASSCOM, the European Space Agency, TSDSI, 6G Forum South Korea, 6G-IA Europe, NGMN Alliance, XGMF Japan, UKI-FNI, UKTIN, and Finland's 6G Flagship further demonstrate the Alliance's expanding international footprint.

Our international engagement deepened across the year through joint workshops with the 6G Forum of South Korea and 6G SNS-IA of Europe, continuing collaboration with XGMF of Japan and TSDSI, and a landmark India–UK–European Space Agency technology demonstration in December 2025 that brought satellite-enabled telemedicine and smart-village connectivity to Satnavari Village, Maharashtra — a powerful illustration of how 6G-era technologies, developed in partnership, can serve India's citizens directly.

None of this would have been possible without the continued triple-helix collaboration between academia, industry and Government that has been the hallmark of the Alliance since its inception.

As we look ahead, our focus must remain on translating ideas into implementable outcomes stronger research roadmaps, meaningful standards contributions, indigenous intellectual property, testbeds, pilots, and globally relevant 6G products and solutions. I extend my sincere gratitude to the Department of Telecommunications and the Hon'ble Minister of Communications for their sustained engagement and direction. I sincerely thank all members, my colleague on the Governing Council, Working Group Chairs and Co-Chairs, government stakeholders, industry partners, academic institutions, startups, and international collaborators for their commitment and contribution. Together, we are working to ensure that India is not only ready for 6G, but plays a leading role in defining, developing, and delivering it for the world.

Warm regards,

Prof. R. David Koilpillai



Director General's Message

Dear Members,

It gives me great pleasure to present the Annual Report of the Bharat 6G Alliance for the year 2025–26. This year has been an important phase in our collective journey as India moves from foundational planning and pre-standardization activities toward focused execution under the Bharat 6G Mission. The Alliance has continued to evolve as a strong national platform that brings together government, industry, academia, research institutions, startups, and standards bodies to advance India's leadership in next-generation telecommunications.



Bharat 6G Alliance was provided sound platform by its Founding Governing Council Chaired by Mr. N. G. Subramaniam. During the year, Bharat 6G Alliance strengthened its efforts across critical areas including spectrum strategy, AI-native networks, non-terrestrial networks, indigenous device and component development, use-case identification, sustainability, intellectual property creation, and standards participation. The high-level reviews chaired by the Hon'ble Minister of Communications, Shri Jyotiraditya M. Scindia, and guided by the Department of Telecommunications provided clear direction for mission-mode implementation, measurable deliverables, stronger inter-working group coordination, and deeper global engagement.

On the execution front, the Ministerial review of 10 July 2025 in Bengaluru set a clear mandate: develop time-bound roadmaps, institute regular review mechanisms, and shift decisively from ideation to execution. The Secretariat worked closely with all seven Working Group Chairs and Vice-Chairs to translate this mandate into Gantt-chart-based quarterly deliverables, which were presented at the subsequent Ministerial review on 30 September 2025 and at the Apex Council Meeting under the Bharat 6G Mission on 9 December 2025- a meeting that also validated our National 6G Roadmap 2025–30 and the Detailed Project Report (DPR) for the Bharat 6G Mission.

A key highlight of the year was the successful organization of the 2nd International Bharat6G Symposium 2025 alongside India Mobile Congress 2025. The symposium brought together global experts, policymakers, industry leaders, academia, and international 6G alliances to deliberate on the future of connectivity. The release of the New Delhi Declaration, endorsing the principles of 6G as secure, open, resilient, inclusive, and sustainable by design, reflected India's growing role in shaping a collaborative and responsible global 6G agenda.

Looking ahead to FY 2026–27, the Secretariat will focus on institutionalising quarterly, milestone-based reporting across all Working Groups, deepening our participation in global standards bodies ahead of key milestones such as ITU Meeting 51 and WRC-27, and working to translate this year's frameworks and declarations into deployable 6G technologies and standards leadership for India.

As we enter the next phase of the Bharat 6G Mission, our focus will be on translating ideas into implementable solutions, strengthening India's contributions to global standards, supporting indigenous intellectual property, enabling testbeds and pilots, and building a globally competitive 6G ecosystem. I sincerely thank all members, Working Group Chairs and Co-Chairs, government stakeholders, partners, and contributors for their commitment and active participation. Together, we are working toward a future where India is not merely a participant in 6G, but a leading contributor to its vision, standards, technologies, and impact.

I would like to express my sincere gratitude to the Founding Governing Council members and the Working Groups for their visionary leadership, unwavering commitment, and invaluable contributions in laying a strong foundation for the Bharat 6G Alliance. Their collective efforts have helped establish a vibrant and collaborative ecosystem that is driving India's 6G research, innovation, standardization, and global engagement. The remarkable progress achieved by the Alliance is a testament to their dedication, expertise, and shared commitment to realizing the Bharat 6G Vision.

Best regards,

Rajesh Kumar Pathak



Executive Summary

The year 2025–26 marked a significant phase of consolidation, acceleration, and global engagement for the Bharat 6G Alliance as India moved closer to the second phase of the Bharat 6G Mission from 2026 to 2030. The Alliance strengthened its role as a national platform for advancing 6G research, innovation, standardization, intellectual property creation, and ecosystem development. High-level reviews with the Hon'ble Minister of Communications, Shri Jyotiraditya M. Scindia, and Hon'ble Minister of State for Communications Dr. Pemmasani Chandra Sekhar, Department of Telecommunications, reaffirmed the Government of India's commitment to positioning India as a global leader in 6G. The year also saw focused progress across newly elected Working Groups in areas such as spectrum strategy, technology development, devices and manufacturing, applications, use cases, sustainability, outreach, standards participation, IPR development, WRC-27 preparations, and pre-standard testbed planning.

A major highlight of the year was the 2nd International Bharat6G Symposium 2025, held in New Delhi alongside India Mobile Congress 2025, which brought together global experts, policymakers, industry leaders, academia, and international 6G alliances. The symposium focused on AI-native networks, spectrum harmonization, standards alignment, non-terrestrial networks, enabling technologies, sustainability, and future use cases. A landmark outcome was the New Delhi Declaration, endorsed by Bharat 6G Alliance and leading global 6G partners, reaffirming the shared principle that 6G should be secure, open, resilient, inclusive, and sustainable by design. The Alliance also expanded collaboration through engagements with NASSCOM, the European Space Agency, TSDSI, 6G Forum South Korea, 6G-IA Europe, NGMN Alliance, XGMF Japan, UKI-FNI, UKTIN, Finland's 6G Flagship, and other strategic partners.

During the year, Bharat 6G Alliance released four important whitepapers covering spectrum roadmap, next-generation telecom energy efficiency, AI and network evolution, and secure data architecture for RF sensing. It also supported technology demonstrations on satellite-5G-enabled telemedicine and smart village applications, showing the relevance of future connectivity for healthcare, agriculture, rural inclusion, governance, emergency response, and digital services. Governance and institutional strengthening continued through Governing Council meetings and the Annual General Meeting, including leadership transition, approval of key institutional policies, and review of Working Group progress. Overall, 2025–26 reflected Bharat 6G Alliance's transition from vision-building to mission-mode execution, contributing to India's ambition of becoming a leading global contributor to secure, affordable, sustainable, inclusive, and ubiquitous 6G technologies.



2025–26 at a Glance

Vision

Building a globally competitive, innovation-driven and standards-led 6G ecosystem for India.

Highlights of the Year

- Publication of the National 6G Roadmap
- Preparation of the Detailed Project Report (DPR) for the national 6G programme
- Active engagement with Government, industry, academia, startups and R&D organisations
- Strengthened international collaboration with leading global 6G organisations
- Progress across all Working Groups on priority technology areas and use cases
- Organisation of technical workshops, webinars and stakeholder consultations
- Contributions towards standardization, spectrum, IPR and policy discussions
- Promotion of indigenous technologies and innovation for the Bharat 6G ecosystem

Focus Areas

- 6G Technologies
- Spectrum
- Devices & Components
- Applications & Use Cases
- Green & Sustainable Networks
- Manufacturing
- Standards & IPR
- International Collaboration
- Startups & Innovation

Looking Ahead

Accelerating research, standards participation, testbeds, global partnerships, innovation, and commercialization to help position India as a leading contributor to the global 6G ecosystem.



Introduction

The Bharat 6G Alliance Annual Report 2025–26 presents a year of accelerated progress, strategic consolidation, and growing global engagement in India's journey toward leadership in next-generation telecommunications. As India moves from the first phase of exploration, proof-of-concept development, and pre-standardization activities toward the second phase of the Bharat 6G Mission from 2026 to 2030, the Alliance has continued to strengthen its role as a national platform for research, innovation, standards participation, international collaboration, and ecosystem development.

During the reporting year, Bharat 6G Alliance advanced its work across key pillars of the 6G ecosystem, including spectrum strategy, AI-native networks, non-terrestrial networks, integrated sensing and communication, green and sustainable telecom, indigenous device innovation, use-case development, and intellectual property creation. The Alliance's activities reflected a clear shift from foundational discussions to focused action, with emphasis on measurable outcomes, stronger coordination among Working Groups, and alignment with national priorities under the Bharat 6G Vision.

Overall, the Annual Report 2025–26 captures Bharat 6G Alliance's transition from vision-building to mission-mode execution. It documents the progress made by the Alliance, its Working Groups, members, partners, and stakeholders in advancing India's 6G ambitions. As the global 6G landscape continues to evolve, Bharat 6G Alliance remains committed to enabling affordable, sustainable, secure, and ubiquitous connectivity while positioning India as a leading contributor to global 6G standards, technologies, products, and solutions.

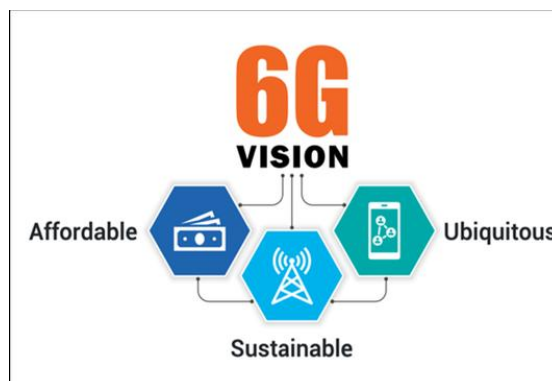
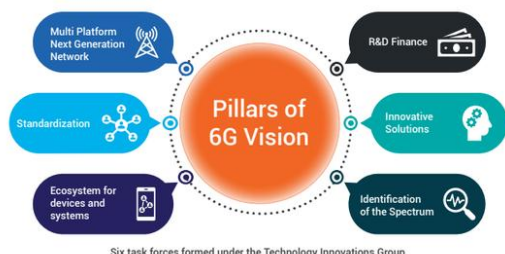
Strategic Priorities for FY 2026–27

- Institute quarterly, measurable deliverables for every Working Group, reviewed at the Apex Council.
- Strengthen monthly inter-Working-Group coordination and reporting mechanisms.
- Develop a proposal to utilise the ₹1,00,000 crore RDI Fund and ANRF fund in support of 6G R&D, and propose funding models with economic-impact assessments, as directed by the Secretary (Telecom).
- Progress pre-standard 6G testbeds, prototyping in the 7/8 GHz band, and indigenous device and component development.
- Deepen participation in global standards bodies (3GPP, ITU, O-RAN, TSDSI) to shape Indian-led specifications, including preparation for ITU Meeting 51 (February 2026) and WRC-27.
- Expand international collaboration under the New Delhi Declaration framework toward joint whitepapers, workshops and reports with partner alliances.
- Advance the Sovereign Patent Fund concept and the proposed Centre for Patent Facilitation for Telecom Technologies.



Bharat 6G Vision

“Design, develop and deploy 6G network technologies that provide ubiquitous, intelligent and secure connectivity for high-quality living experience for the world.”



Bharat 6G Vision document and the six Pillars of the 6G Vision

6G Vision is based on principles of Affordability, Sustainability, and Ubiquity. The Vision for 6G is fully aligned with the national Vision of Atmanirbhar Bharat and will seek to empower every Indian to become Atmanirbhar (self-reliant) in their lives. At the same time, it ensures that India takes its rightful place in the world as a leading supplier of advanced telecom technologies and solutions that are affordable and contribute to the global good. The 6G Vision is thus timed just right for India's Aazadi ka Amrit Kaal.

Bharat 6G Mission

India has taken a significant leap toward 6G technology by unveiling the Bharat 6G Vision document and initiating the establishment of 6G test beds to foster innovation. With projections suggesting that India will become the world's largest wireless market by 2030, the nation's proactive involvement in 6G research and development positions it as a potential key player in shaping global standards. As the International Telecommunication Union (ITU) rolls out the IMT-2030 framework for 6G, India's early engagement in this technological evolution could play a pivotal role in defining critical aspects such as technology development, spectrum policies, and practical use cases.

The research and start-up ecosystem will be tapped to bring innovations and new ideas to the table. Adequate provisions for financial support will be made available.

Bharat 6G Mission – Objectives

- Facilitate and finance Research and Development, design and development of 6G technologies by Indian Startups/Companies/Research bodies/Universities.
- Enable India to become a leading global supplier of IP, products and solutions of affordable 6G telecom solutions.
- Deploy 6G technologies to act as a powerful force multiplier for India@2030.



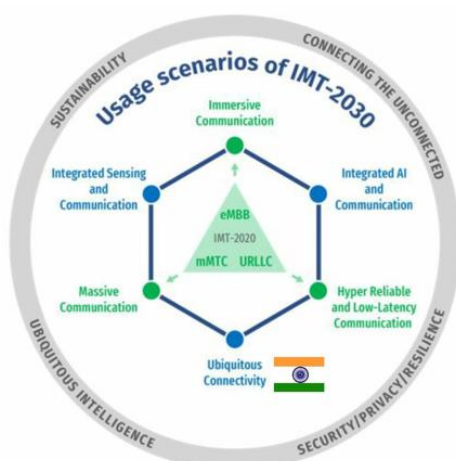
- Enable inclusive and significant enhancement in the quality of living experience of citizens in India and across the world.

IMT-2030 Framework

In July 2023, the Radiocommunication Sector of the International Telecommunication Union (ITU-R) achieved a consensus on the global vision for IMT-2030 (6G), marking a pivotal step in advancing 6G technology. The IMT-2030 Framework outlines 15 key capabilities for 6G, including nine enhancements to existing 5G features such as security and resilience, latency, mobility, connection density, peak data rate, and spectrum efficiency. The usage scenarios of IMT-2030 will build upon those established by IMT-2020 while also enabling entirely new use cases powered by 6G capabilities, such as AI integration and advanced sensing—areas beyond the design scope of earlier IMT generations.

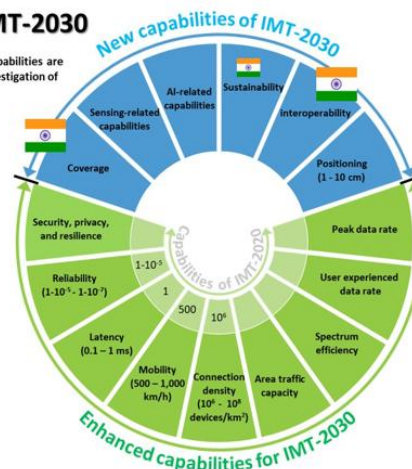
Under the Government's leadership, India has already prioritized Ubiquitous Connectivity, Comprehensive Coverage, Sustainability, and Interoperability as key elements aligned with its 6G Vision.

IMT-VISION 2030 Usage & Key Capabilities

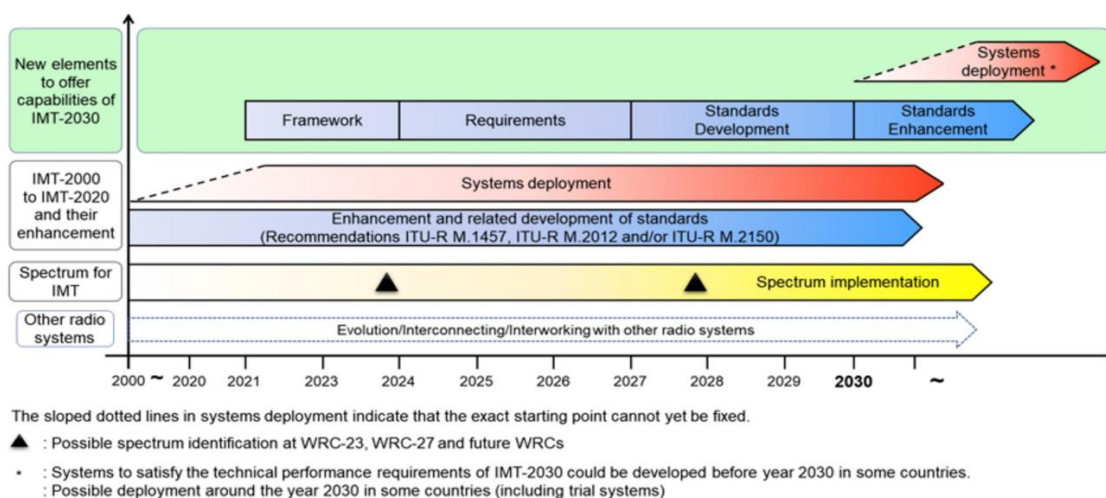


Capabilities of IMT-2030

NOTE: The range of values given for capabilities are estimated targets for research and investigation of IMT-2030.



- Roadmap for technology/standard development, deployment and spectrum
- In addition, enhancement of existing IMTs and relationship with other radio systems



Bharat 6G Alliance

The Bharat 6G Alliance (B6GA) is an industry-led body, facilitated by the Department of Telecommunications (DoT), Government of India, established to realise the Bharat 6G Vision and to advance India's leadership in sixth-generation (6G) wireless technologies. The Alliance provides a collaborative platform bringing together industry, academia, start-ups, research institutions, standards development organisations and Government to design, develop and deploy 6G network technologies for India and the world.

B6GA operates on a triple-helix model that harnesses the collective strengths of academia, industry and Government, ensuring that India's 6G roadmap is shaped by both technological excellence and national policy priorities. The Alliance works in close coordination with the Apex Council under the Bharat 6G Mission, which provides high-level strategic direction chaired by the Hon'ble Minister of Communications.

Through its structured engagement with global 6G research alliances, standards bodies and Government stakeholders, B6GA aims to enable India to transition from being a technology adopter to a technology creator, and ultimately a global standard-setter, in the 6G era.

Objectives of Bharat 6G Alliance

The Bharat 6G Alliance, with support from the government and industry, is driving efforts to enable indigenous 6G research and development, aligning with the vision of creating a self-reliant, globally competitive ecosystem for advanced communications technologies. With the establishment of state-of-the-art labs and a focus on innovation in multi-chip modules, SoCs, and advanced IoT applications, India is poised to be at the forefront of the global 6G movement.



B6GA is an industry-led body, facilitated by the government, that provides a collaborative platform to various technology stakeholders comprising Public/Private companies, Academia, Research Institutions, and Standard Development Organizations.

- Promote impactful open research to advance 6G technologies.
- Understand business and societal needs of 5G Advanced and 6G technology.
- Pursue pre-standardization efforts to establish foundational frameworks for 6G.
- Identify priority research areas that are crucial for 6G development.
- Facilitate proof-of-concept prototypes and early market interventions led by startups.
- Build coalitions with global 6G technology alliances to foster international collaboration.
- Ensure access to 6G test beds and chipsets for testing and development.
- Shape the future of global wireless communication technology by positioning India as a leader.
- Establish India as a leading global supplier of intellectual property, products, and affordable 6G telecom solutions by 2030.
- Support and energize Indian participation in standard development organizations.
- Contribute to 6G and other future technology-related global standards, deployments, products, operations and services.
- Bring together academic institutions, domestic industries, R&D entities, test labs, Government entities, telecom service providers, and start-ups to create synergies for balanced growth of the technology ecosystem.
- Support Make in India initiatives, bridging the gap between R&D and commercialization, and facilitate early market access for Indian 6G products.

Bharat 6G Alliance Organisational Structure

The Bharat 6G Alliance operates through a layered governance structure that connects national policy direction with technical execution:

Apex Council under the Bharat 6G Mission

Chaired by the Hon'ble Minister of Communications, the Apex Council provides the highest level of strategic review and direction to the Bharat 6G Mission and the Alliance. It comprises senior representatives from multiple Ministries including the Ministry of Electronics and Information Technology (MeitY), the Ministry of Information and Broadcasting (MIB), the Department of Space, the Defence Research and Development Organisation (DRDO), and the National Security Council Secretariat (NSCS) along with representatives from academia, R&D institutions, standards bodies, industry and telecom service providers (**Annex 1**).



Steering Committee

Chaired by the Secretary (Telecom), the Steering Committee provides inputs to Apex Council. It comprises senior representatives from multiple Ministries including the Ministry of Electronics and Information Technology (MeitY), the Ministry of Information and Broadcasting (MIB), the Department of Space, the Defence Research and Development Organisation (DRDO), and the National Security Council Secretariat (NSCS) along with representatives from academia, R&D institutions, standards bodies, industry and telecom service providers (**Annex 2**).

Governing Council

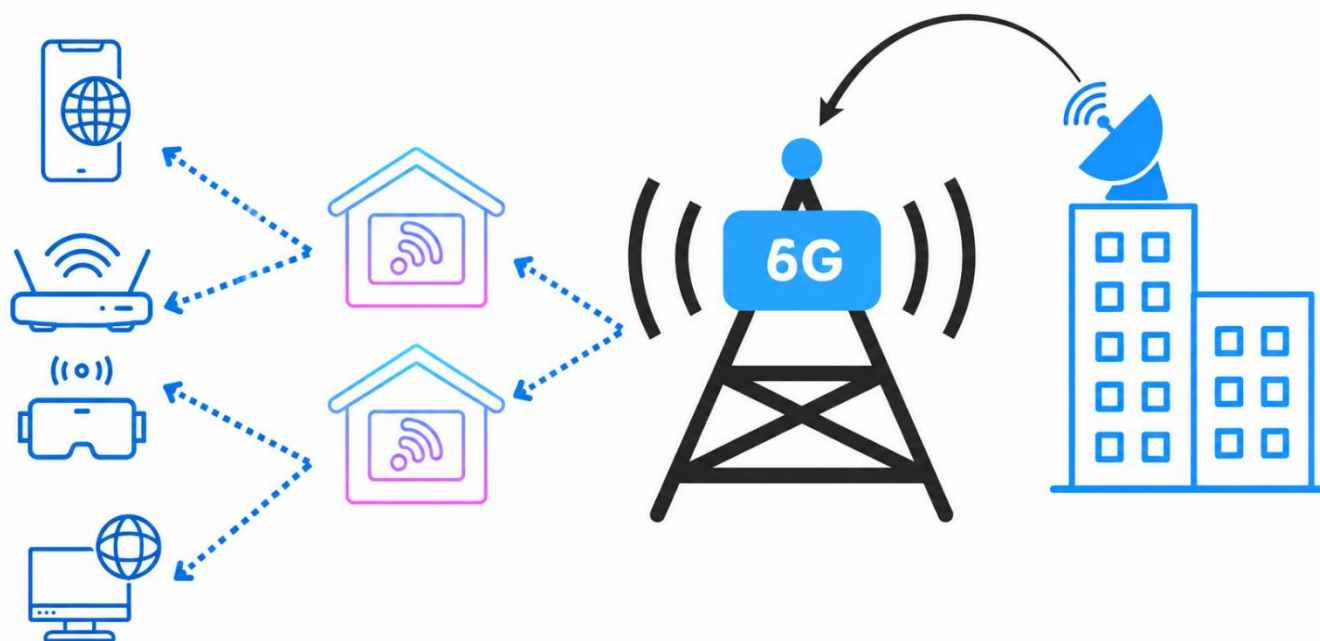
The Governing Council is the apex governing body of the Alliance, comprising the Chairman, Vice-Chairmen, industry and academic members, Government nominees, and the Member Secretary. It is responsible for the Alliance's strategic direction, policy approvals and financial oversight.

Strategy Committee

A Strategy Committee, approved by the Governing Council in June 2025 and chaired by a Vice-Chairman, supports the Governing Council in taking time-critical decisions between formal meetings, in consultation with Working Group Chairs as required.

Secretariat

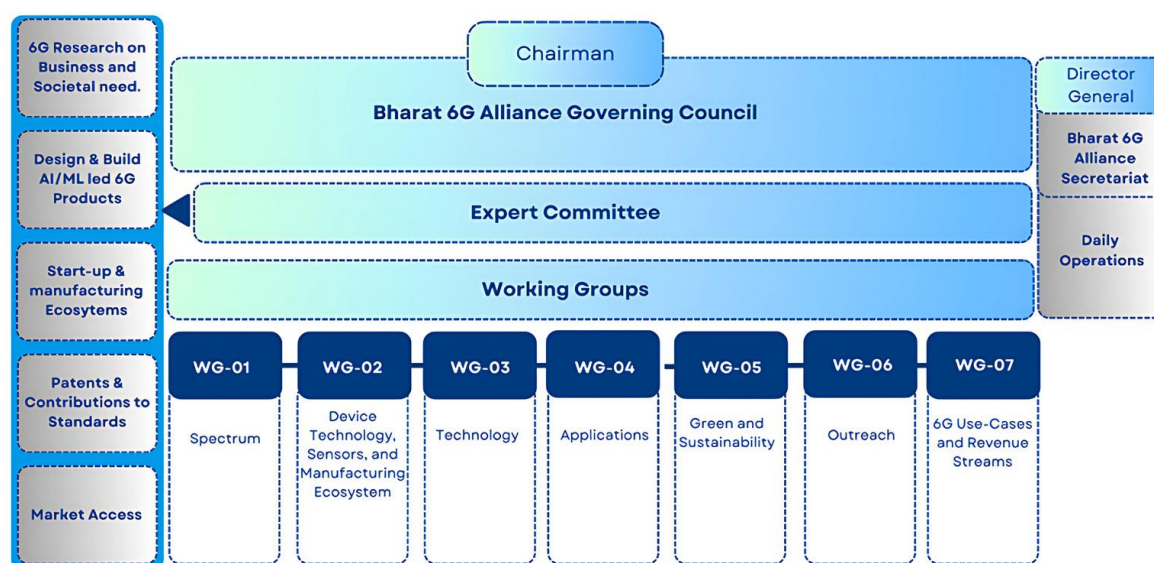
Led by the Director General, the Secretariat manages day-to-day coordination, Working Group facilitation, event management, international liaison, and monthly reporting to the Department of Telecommunications.



Working Groups

Seven domain-specific Working Groups drive the Alliance's technical agenda: Spectrum; Technology; Devices, Components, Sensors and Manufacturing Ecosystem; 6G Applications; 6G Use Cases and Revenue Streams; Green and Sustainability; and Outreach. Each Working Group is led by an elected Chair and one or more Vice-Chairs drawn from member organisations.

The Bharat 6G Alliance (B6GA) serves as a collaborative platform, bringing together public and private enterprises, academia, research institutions, and standards development organizations. The initiative aims to foster innovation in 6G network technologies, with a focus on providing intelligent and secure global connectivity. By aligning with India's Atmanirbhar Bharat vision, B6GA seeks to position India as a leader in the telecom sector, ensuring the affordability and sustainability of advanced technologies.



Governance structure: Governing Council → Expert Committee → Seven Working Groups, supported by the Secretariat under the Director General



Governing Council Election 2025–27

The Bharat 6G Alliance conducted a transparent, electronic election process to constitute its second Governing Council for the term 2025–27, as follows:

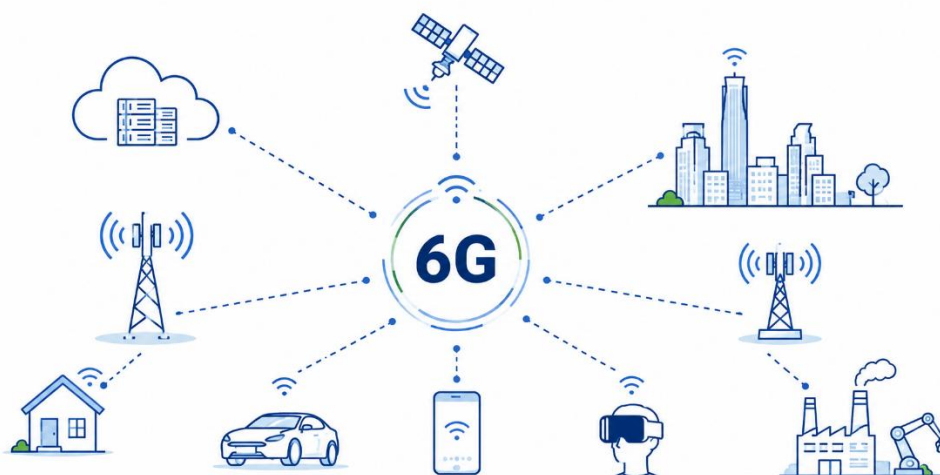
Date	Key Points
Prior to 16 April 2025	Director (SRI), Department of Telecommunications appointed as Returning Officer to conduct fair and transparent elections.
16 April 2025	Electronic elections held for the Bharat 6G Alliance Governing Council.
17 April 2025	New Governing Council declared.
25 April 2025	Notification issued for election of Chairperson and two Vice-Chairpersons.
22 May 2025	Chairperson and Vice-Chairpersons elected by nomination and e-voting: Prof. R. David Koilpillai (Chairperson); Prof. Rohit Budhiraja and Dr. Kumar N. Sivarajan (Vice-Chairpersons).
11 June 2025	Joint Governing Council meeting held for a smooth transition between the outgoing (founding) and newly elected Governing Councils, chaired jointly with founding Chairman Mr. N. G. Subramaniam.



At the Joint Governing Council meeting of 11th June 2025, the newly elected Chairman presented his blueprint for the Alliance built around four pillars:



The Governing Council also approved the constitution of a Strategy Committee, and formally adopted the Alliance's IPR Policy, Code of Conduct and Anti-Trust Policy, together with the Memorandum of Understanding with TSDSI and the audited financial statements and Annual Report for FY 2024–25.



Governing Council Elected Members (2025–27)

The Governing Council for the 2025–27 term comprises the following industry, academic and Government-nominee members:

Name	Position	Organisation
Prof. David Koilpillai	Chairman	IIT Madras
Dr. Kumar Sivarajan	Vice Chair	Tejas Networks
Prof. Rohit Budhiraja	Vice Chair	IIT Kanpur
Dr. Rajkumar Upadhyay	Member	Centre for Development of Telematics (C-DoT)
Mr. Sawan Gupta	Member	Bharti Airtel Limited
Dr. Ravi Parkash Gandhi	Member	Reliance Jio Infocomm Limited
Mr. Rajesh Singh	Member	Vodafone Idea Limited
Prof. Bhaskar Ramamurthi	Member	CEWiT, IIT Madras
Dr. P. Hanumantha Rao	Member	SAMEER
Mr. Sandeep Sharma	Member	Tech Mahindra Limited
Mr. Gaurav Gandhi	Member	Echelon Edge Private Limited
Mr. Ramu T. S.	Member	Lekha Wireless Solutions Private Limited
Mr. Jayanta Dey	Member	HFCL Limited
Mr. Darshan Patel	Member	Bitgreen Technolabz (OPC) Private Limited
Mr. Abhijit Chaudhary	Member	Niral Networks Private Limited
Government Nominees		
Mr. Ashok Kumar	Member	Department of Telecommunications (DoT)
Ms. M. Revathi	Member	Wireless Planning and Coordination, DoT
Mr. Amit Kumar Srivastava	Member	Telecommunication Engineering Centre (TEC)
Dr. J. B. V. Reddy	Member	Department of Science and Technology (DST)
Smt. Anshu Bhardwaj	Member	CAIR, Ministry of Defence
Shri Manoj Kumar Jain	Member	Ministry of Electronics and IT (MeitY)
Dr. Chandra Prakash	Member	Indian Space Research Organisation (ISRO)
Mr. Vivek Kumar	Member	Railways



Governing Council (as of 31 March 2026)



Prof. R. David Koilpillai
(Chairman)
Indian Institute of Technology
Madras



Dr. Kumar N Sivarajan
(Vice-Chairman)
Tejas Networks Limited



Prof. Rohit Budhiraja
(Vice-Chairman)
Indian Institute of Technology
Kanpur



Dr. Rajkumar Upadhyay
Centre For Development of
Telematics (C DoT)



Mr. Sawan Gupta
Bharti Airtel Limited



Dr. Ravi Parkash Gandhi
Reliance Jio Infocomm Limited



Mr. Rajesh Singh
Vodafone Idea Limited



Prof. Bhaskar Ramamurthi
(Vice-Chairman)
Centre of Excellence In Wireless
Technology, IIT Madras (CEWIT
IITM)



Dr. P Hanumantha Rao
SAMEER



Mr. Sandeep Sharma
Tech Mahindra Limited



Mr. Gaurav Gandhi
Echelon Edge Private Limited



Mr. Ramu T. S.
Lekha Wireless Solutions Private
Limited



Mr. Jayanta Dey
HFCL Limited



Mr. Darshan Patel
Bitgreen Technolabz (OPC) Private
Limited



Mr. Abhijit Chaudhary
Niral Networks Private Limited



Mr. Ashok Kumar
Department of Telecommunications
(DoT)



Ms. M. Revathi
Wireless Planning and
Coordination, DoT



Mr. Amit Kumar Srivastava
Telecommunication Engineering
Centre (TEC)



Dr. J. B. V. Reddy
Department of Science and
Technology (DST)



Smt. Anshu Bhardwaj
Centre for Artificial Intelligence &
Robotics (CAIR), Ministry of Defence



Mr. Vivek Kumar
Railway Board



Shri Manoj Kumar Jain
Ministry of Electronics and
Information Technology (MeitY)



Dr. Chandra Prakash
Indian Space Research Organisation
(ISRO)



Mr. Rajesh Kumar Pathak
Bharat 6G Alliance

Governing Council members, Bharat 6G Alliance, as of 31 March 2026



Bharat 6G Alliance Working Groups

Spectrum



Dr. Ravi Parkash Gandhi
(Chairman)



Mr. Nirmesh Yadav
(Vice Chairman)



Mr. Ravi Lakhota
(Vice Chairman)

Device Technology, Components, Sensors and Manufacturing Ecosystem



Prof Bhaskar Ramamurthi
(Chairman)



Dr P. Hanumantha Rao
(Vice- Chairman)



Mr. Rajiv Jain
(Vice- Chairman)



Mr. Prakash Ramasetty
(Chairman)



Dr. Sonali Garg
(Vice- Chairman)



Prof. R K Ganti
(Vice- Chairman)



Dr. Sreenath Ramanath
(Vice- Chairman)

Technology

6G Applications



Mr. Radhakant Das
(Chairman)



Mr. Abhijit Chaudhary
(Vice-Chairman)



Mr. Rajesh Singh
(Chairman)



Mr. Rajesh Tuli
(Vice-Chairman)



Mr. Sandeep Sharma
(Vice-Chairman)



Mr. Ashok Tiwari
(Vice-Chairman)

6G Usecases and Revenue Stream

Outreach



Dr. Rajkumar Upadhyay
(Chairman)



Mr. Darshan Patel
(Vice-Chairman)



Ms Pamela Kumar
(Vice-Chairman)

Green and Sustainability



Utkarsh Dubey
(Chairman)



Dr. Venkata Subramanian Viraraghavan
(Vice-Chairman)



Working Groups Elections

An Election Notice for the Chairman (one position) and Vice-Chairman(s) (three positions) of each Bharat 6G Alliance Working Group was circulated to all members on 1 December 2025. Nominations from corporate members were received on 5 January 2026 for all seven Working Groups, and the election process was completed on 13 February 2026.

For the Devices, Components, Sensors and Manufacturing Ecosystem, and Outreach Working Groups, no fresh nominations were received; the incumbent Chairs were accordingly requested to continue in their positions, to which they consented. The newly elected Working Group leadership took charge with effect from the 7th Governing Council meeting on 23 February 2026, at which outgoing Working Groups presented reports on their activities and formally handed over to the incoming leadership.

Bharat 6G Alliance operates seven Working Groups, each responsible for a distinct domain of 6G research, standardisation and ecosystem development: Spectrum; Device Technology, Components, Sensors & Manufacturing Ecosystem; Technology; Applications; Green & Sustainability; Outreach; and 6G Use Cases & Revenue Streams.

Working Group	Chairperson	Vice-Chair(s)
 Spectrum	Dr. Ravi Parkash Gandhi (Reliance Jio)	Mr. Nirmesh Yadav (Bharti Airtel); Mr. Ravi Lakhotia (Vodafone)
 Device Technology, Components, Sensors & Manufacturing Ecosystem	Prof. Bhaskar Ramamurthi	Mr. Rajiv Jain (VVDN); Dr. P. H. Rao (SAMEER)
 Technology	Mr. Prakash Ramasetty (C-DOT)	Prof. R. K. Ganti (IIT Madras); Dr. Sreenath Ramanath (Lekha); Dr. Sonali Garg (HFCL)
 Green and Sustainability	Mr. Utkarsh Dubey (Bharti Airtel)	Dr. Venkata Subramanian Viraraghavan (TCS)
 6G Use Cases and Revenue Stream	Mr. Rajesh Singh (Vodafone)	Mr. Rajesh Tuli (Coral Telecom); Mr. Ashok Tiwari (Reliance Jio); Mr. Sandeep Sharma (Tech Mahindra)
 Applications	Mr. Radhakant Das (TCS)	Mr. Abhijit Chaudhary (Niral Networks)
 Outreach	Dr. Rajkumar Upadhyay	Mr. Darshan Patel (Bitgreen); Ms. Pamela Kumar (IISc Bengaluru)



Working Group Progress and Achievements

The following summaries of FY 2025–26 progress are drawn from Working Group presentations made to the Apex Council under the Bharat 6G Mission and the Review of Bharat 6G Alliance by the Hon'ble Minister of Communications on 9 December 2025, supplemented by monthly activity reports of the Alliance.

Spectrum Working Group

The Spectrum Working Group met on a monthly basis throughout the year (its 11th to 15th meetings fell within FY 2025–26) and focused on technical studies of the 7/8 GHz (FR3) range, aligning with global 6G harmonisation efforts. Key activities included:

- Identifying a pathway of approximately 200 MHz of mid-band spectrum per operator to support both 5G-Advanced and 6G.
- Addressing 5G–6G coexistence, including deliberations on the 526–582 MHz band and a structured migration plan for incumbent users.
- Briefings on India's hybrid approach to the 6 GHz band (5925–7125 MHz), with 5925–6425 MHz proposed for de-licensed Wi-Fi use and 6425–7125 MHz allocated for IMT services; an immediate 400 MHz (6425–6725 MHz and 7025–7125 MHz) prepared for auction, with the remaining 300 MHz (6725–7025 MHz) targeted for availability by 31 December 2030.
- Continued engagement in ITU-R Working Party 5D, WRC-27 preparatory meetings and APG27 activities, and briefings from WPC, Qualcomm, Ericsson, IIT Tirupati and other members on 6 GHz and mid-band developments.
- A proposed Call for Proposals for prototyping and field experimentation in the 7/8 GHz band, to feed India's preparatory position for WRC-27.
- Sharing of the Bharat 6G Spectrum Roadmap with global counterparts including 5G-ACIA, 6G SNS-IA and Finland's 6G Flagship.

Government support requested: continued facilitation of ITU-R and WRC-27 preparatory engagement, and timely issuance of the Call for Proposals for 7/8 GHz prototyping.

Technology Working Group

The Technology Working Group comprises 110 active members across the Wireless, Non-Terrestrial Networks (NTN), Optical, AI/ML and Chip Design verticals. During the year, members generated 115 technical contributions (in a single quarter alone, as reported to the Apex Council) impacting global standards bodies including 3GPP, ITU, O-RAN and TSDSI.

- Significant advancements in 6G RU/BBU (Radio Unit/Baseband Unit) development, handset prototypes, Cell-free MIMO, and Integrated Sensing and Communication (ISAC).



- Continued contribution to ITU-R Working Party 5D (including Technical Performance Requirements) and briefings on 3GPP 6G Workshop proposals from India.
- Discussions on strategies to mainstream Indian individual members within 3GPP, and a sustained engagement plan for 2025–2029 aligned with the 6G study framework.

Government support requested: funding support for delegate travel to key standardisation meetings — including ITU Meeting 51 (February 2026) for Multi-Link Operation (MLD) negotiations — support for chip and component development, and support for large-scale Proof-of-Concept demonstrations to enable market access by 2029.

Devices, Components, Sensors and Manufacturing Ecosystem Working Group

This Working Group focused on high Indian value-addition products, particularly point-of-sale (POS) systems and CCTV/AI-vision cameras, to strengthen domestic manufacturing and intellectual property creation.

- Progress reported across processors, RF transceivers, modems, sensors and Systems-on-Chip (SoCs).
- Recommendations submitted for the TTDF Call for Proposals, including reference designs for POS and CCTV systems, RF components for 6G New Radio in the 6.4–7.2 GHz band, and future RF modules.
- Key challenges flagged include below-cost imports, underscoring the need for PLI-type incentives, certification frameworks, and coordinated market orchestration to help scale indigenous products competitively.

Applications Working Group

The Applications Working Group is mapping the evolution from 5G to 6G across immersive communications, hyper-reliable low-latency communications (HRLLC), massive connectivity, Integrated Sensing and Communication (ISAC), Integrated Access and Computing (IAC), and ubiquitous connectivity, with emphasis on AI-native communications.

- Highlighted the need for dedicated domain experts within the Secretariat, enhanced testbed access, deeper industry–vertical integration, and structured legal/IP support to translate concepts into deployable solutions.

6G Use Cases and Revenue Streams Working Group

The Working Group identified priority 6G use cases for India, including Digital Twins, XR with Generative AI, non-terrestrial/terrestrial network convergence, immersive healthcare, disaster management, intelligent transport and immersive learning.

- Consolidated lessons learned from 5G deployments and initiated a multi-stakeholder council to align industry, academia and Government.



- Working on identifying priority India-specific use cases for prototype testing, with an aim to enhance use-case pilots through hackathons.

Green and Sustainability Working Group

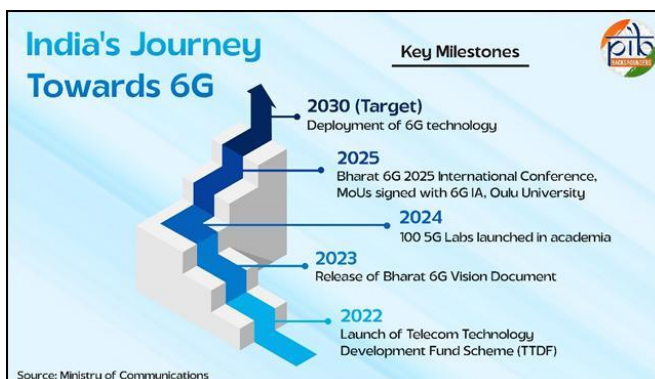
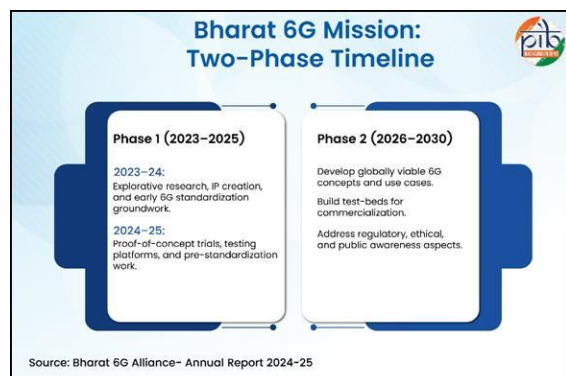
The Green and Sustainability Working Group is developing 6G energy efficiency Key Performance Indicators (KPIs) in collaboration with academia and industry partners, and aims to standardise these proposed KPIs.

- Proposed alignment with TSDSI and targeted patent filings to protect India-led innovations.
- Focus areas include 6G energy efficiency KPIs, renewable energy sourcing leveraging the Green Open Access Rules 2022, national fibre readiness, simulation-laboratory support for KPI modelling, and OEM-level integration of sustainability metrics.

Outreach Working Group

The Outreach Working Group significantly strengthened India's global 6G presence during FY 2025–26 by hosting six technical talks, four bilateral meetings, and two joint international workshops (with the Republic of Korea and the European Union), and by signing thirteen international MoUs with global 6G alliances (including from the United States, Finland, the European Union's SNS Initiative and the Republic of Korea).

- A major milestone was the coordination of the New Delhi Declaration on “Secure, Open, Resilient, Inclusive and Sustainable 6G by Design”, reinforcing India's leadership narrative and values-driven approach to next-generation telecom development.



Governance, IPR and SEP Policy Initiatives

Alongside its technical work, the Alliance advanced a substantive governance and intellectual-property agenda during FY 2025–26:

- IPR Policy, Code of Conduct, and Anti-Trust Policy of Bharat 6G Alliance approved by the Governing Council at the 5th GC Meeting on 11th June 2025.
- Sovereign Patent Fund (SPF): A draft report on the importance and timing of a Sovereign Patent Fund was finalised and submitted to Government, building on earlier ministerial presentations.
- Presentation to Secretary, Telecom on SEP/SPF (21st May 2025), the Alliance was asked to weigh a litigation-defence fund against pursuing patent-regulation changes through DPIIT, and to identify actionable points for SEP/IP requiring government support.
- FICCI SEP Conference (23rd August 2025): Director General Rajesh Kumar Pathak moderated the session “Demystifying the Standard Essential Patent Ecosystem.”

India's 6G ambitions are also linked to a national target, articulated by the Hon'ble Minister of Communications, of securing 10% of global 6G patents and playing a leading role in setting future connectivity standards positioning India as a “product nation” that creates as well as consumes technology.



Ministry of Communications

Under the leadership of Prime Minister Shri Narendra Modi, India will achieve global leadership in 6G: Union Minister of Communications Shri Jyotiraditya M. Scindia

India aspires to have 10% share in global 6G patents; Secures international acceptance for Ubiquitous Connectivity proposal: Union Minister Shri Scindia

Bharat 6G Alliance expands six-fold (from 14 to 85 institutions), emerging as key driver of India's 6G ambitions

Anusandhan National Research Foundation (ANRF) to drive Innovation with historic funding support

प्रतिष्ठित: 25 MAR 2026 6:35PM by PIB Delhi

Union Minister of Communications and Development of North Eastern Region, Shri Jyotiraditya M. Scindia, informed the Lok Sabha on Wednesday of significant progress made in the growth of the Bharat 6G Alliance and the strengthening of India's research ecosystem through the Anusandhan National Research Foundation.



Jyotiraditya M. Scindia, Minister of Communications

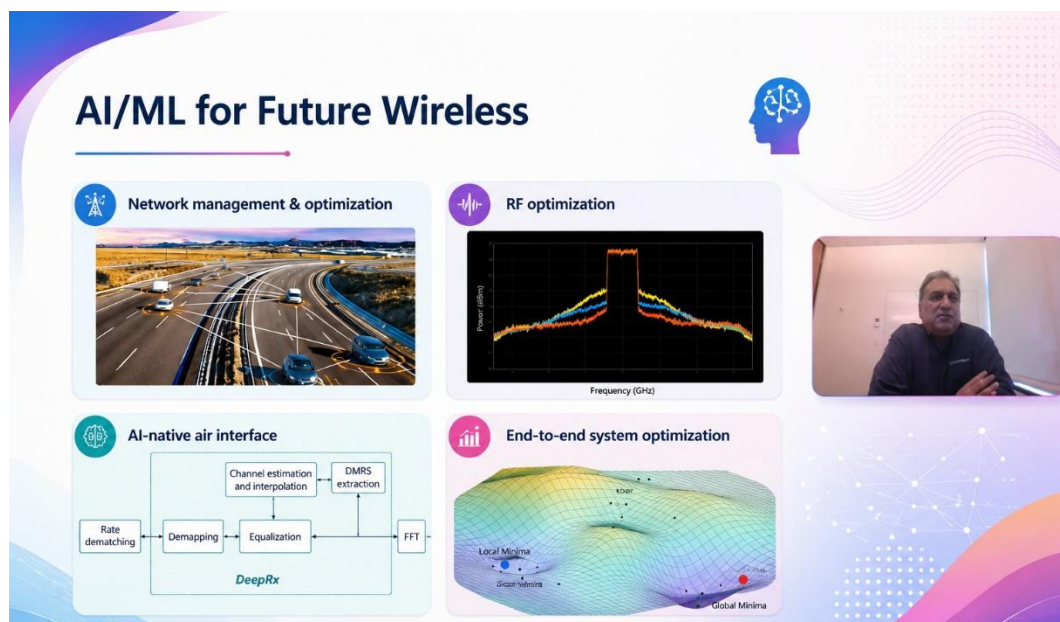
Responding to a query, the Union Minister stated that the Anusandhan National Research Foundation (ANRF) was established under the leadership of the Prime Minister Shri Narendra Modi and became operational in February 2024 with the objective of imparting fresh momentum to innovation and research in the country. He informed that the Foundation functions through a Governing Council and an Executive Council to ensure effective and transparent decision-making. ANRF aims to receive funds amounting to Rs. 50,000 crore during 2023-28 in the form of ANRF Fund, Innovation Fund, Science and Engineering Research Fund, Special Purpose Funds. A budgetary provision of Rs. 14,000 crore is made from the Central Government and remaining amount will be sourced through donations from any other source, including from public sector enterprises, the private sector, philanthropist organizations, foundations or international bodies.



6G Leadership Tech Talks

The Alliance's 6G Leadership Tech Talk series brings insights from visionaries driving India's 6G innovation and global leadership to the wider ecosystem.

6G Tech Talk – 24th July 2025: “6G Goal of Ubiquitous Connectivity: Connecting the Unconnected Using Satellite Communications.” By Dr. Houman Zarrinkoub, Senior Product Manager at MathWorks



Dr. Houman Zarrinkoub, Senior Product Manager at MathWorks, delivered a talk on “6G Goal of Ubiquitous Connectivity: Connecting the Unconnected Using Satellite Communications.” The session emphasized the role of satellite communications in achieving the 6G vision of ubiquitous connectivity, especially for underserved and remote regions, drawing on advanced wireless communication tools, signal processing, and simulation-based approaches.



6G Tech Talk – 6th March 2026: “From Deep Tech to Lasting Impact: Entrepreneurship on the Road to 6G,” by Mr. Sudepto Roy, Vice President of Engineering at Qualcomm



Mr. Sudepto Roy, Vice President of Engineering at Qualcomm, delivered a talk on “From Deep Tech to Lasting Impact: Entrepreneurship on the Road to 6G,” emphasizing how deep-technology innovation, entrepreneurship, and global collaboration are shaping the future of 6G, including the role of deep-tech startups, IP creation, and ecosystem-driven innovation.

6G Tech Talk – 19th March 2026: “6G City as it Evolves,” by Mr. Mohmedsaeed Mombasawala, CTO, Keysight Technologies India

Reconfigurable Intelligent Surfaces (RIS)
Technology and Market Relevance

What it is

- Device to dynamically control reflection of radio waves
- Flat surface containing small, programmable unit cells
- Manipulates the phase and amplitude of incoming wave
- Steers signals dynamically, unlike static reflection
- Phase control enables targeted signal enhancement

KEYSIGHT

Why it matters

Benefits

- Enhances signal strength and coverage
- Minimizes interference
- Beamforming

Challenges

- Array calibration with multiple gNB locations
- Testing due to alignment issues
- Understanding network-wide implications
- Cost of RIS for mass adoption

Market Trends / Timelines

- Currently no standardized procedure for RIS testing
- Keysight leading an ETSI group to establish RIS measurement standards: ETSI GS RIS-008 “Standardized Testing for RIS” (early draft stage)

Mr. Mohmedsaeed Mombasawala, CTO, Keysight Technologies India, delivered a talk on “6G City as it Evolves,” covering spectrum planning, digital twinning for network planning, AI-based RAN performance enhancements, ISAC, Non-Terrestrial Networks, Reconfigurable Intelligent Surfaces, and 6G core network security.



2nd International Bharat6G Symposium 2025

The International Bharat6G Symposium 2025, held on 9–10 October 2025 in New Delhi alongside the India Mobile Congress 2025, was inaugurated by Shri Jyotiraditya M. Scindia, Hon'ble Minister of Communications and Minister of Development of North Eastern Region, Government of India, at Yashobhoomi, Dwarka, New Delhi on 8th October 2025, in the presence of Dr. Neeraj Mittal, Secretary (Telecom), Department of Telecommunications.

The symposium witnessed the presence of senior government officials, global experts, industry leaders and academicians. Organized by the Department of Telecommunications (DoT) and the Bharat 6G Alliance, the two-day symposium brought together more than 70 experts from Japan, the UK, the US, Europe, and India. The event built upon the 2024 symposium's vision by highlighting concrete progress in international collaboration, AI-native architecture, spectrum policy, and standards alignment saw the participation of over 400 attendees, making it a milestone international gathering.



Ministry of Communications

Prime Minister Shri Narendra Modi addresses the India Mobile Congress 2025

India Mobile Congress and the country's success in the telecom sector reflect the strength of the Aatmanirbhar Bharat vision: PM

Union Minister Shri Jyotiraditya Scindia inaugurates International 6G Symposium 2025 at IMC 2025

"India is no longer a mere consumer of technology. We strive to be the architects of the future of technology": Union Minister Scindia

Bharat 6G alliance signs 2 MoU with NASSCOM and European Space Agency for fostering joint participation in the field of technology development

Bharat 6G Alliance also releases 4 whitepapers titled "Spectrum Roadmap for 6G in India" and "Powering Next-Gen Telecom", "AI and Network evolution to 5G", "6G Architecture, Security and Exposure Framework for RF Sensing"

IMC 2025 Exhibition inaugurated- over 400 participants displaying cutting-edge innovations

प्रतिष्ठित तिथि: 08 OCT 2025 3:08PM by PIB Delhi



Prime Minister Narendra Modi today inaugurated the 9th edition of the India Mobile Congress (IMC) 2025, Asia's largest telecom, media, and technology event, in New Delhi. In his address, he praised India's technological growth, highlighting key innovations by startups in areas like quantum communication, 6G, and financial fraud prevention. The Prime Minister acknowledged that the government's support through initiatives such as the Telecom Technology Development Fund has been crucial in driving this progress. He also pointed out that India's success in the telecom sector, exemplified by its six fold growth in electronics production and 28-fold increase in mobile manufacturing since 2014, reflects the strength of the Aatmanirbhar Bharat vision. He emphasized the significance of India's Made-in-India 4G stack, marking the nation's technological self-reliance and its export readiness, contributing to the 'India 6G Vision 2030'.

The Prime Minister also highlighted the recent enactment of the Telecommunications Act, which facilitates faster approvals and network expansion. He underscored the government's focus on cyber security, with stronger laws against cyber fraud and enhanced grievance redressal mechanisms benefiting both industries and consumers. Recognizing the collaborative efforts needed between startups, academia, and policymakers, Shri Modi expressed hope that platforms like IMC would foster such dialogue to further the nation's technological advancements.



Hon'ble Minister Shri Jyotiraditya M. Scindia in his inaugural speech said, *“India has built a future-ready policy and a spectrum framework enabling timely allocation of even the terahertz band to support next-generation networks. From our indigenous 4G and 5G stacks to Open RAN prototypes for 6G, we are developing sovereign capabilities under the PLI scheme. The Bharat 6G Alliance, uniting 80+ organizations and 30 startups, is pioneering AI-native networks and cross-sector applications in agriculture, healthcare, smart cities, and sustainability. Through the 6G Innovation Hexagon, our framework of six transformative pillars- immersive communications, massive communications, hyper-reliable low-latency connectivity, ubiquitous connectivity, AI-native networks, and integrated sensing and communications, India is not following the future, it is creating it.”*

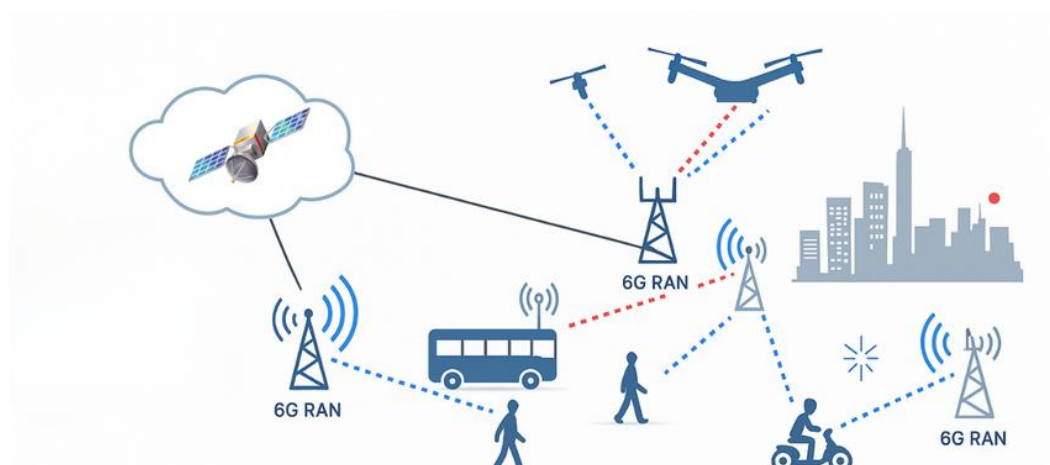


India's 6G ambitions are projected to contribute \$1.2 trillion to the country's GDP by 2035, said Union Minister for Communications Shri Jyotiraditya Scindia. He emphasized that India's vision extends far beyond 5G, with the Bharat 6G Alliance driving efforts to secure 10% of global 6G patents and play a leading role in setting future connectivity standards. He said India is emerging as a “product nation”, rather than just a service economy one that creates as well as consumes.





The symposium witnessed the presence of senior government officials, global experts, industry leaders and academicians. Organized by the Department of Telecommunications and the Bharat 6G Alliance, the two-day symposium brought together more than 70 experts from Japan, the UK, the US, Europe, and India, and saw participation of over 400 attendees, making it a milestone international gathering that built on the vision of the 2024 symposium by highlighting concrete progress in international collaboration, AI-native architecture, spectrum policy, and standards alignment.



New Delhi Declaration : “Joint Statement Endorsing Principles for 6G: Secure, Open, Resilient, Inclusive, and Sustainable by Design”



The New Delhi Declaration was announced at the International Bharat6G Symposium 2025 by research alliance Bharat 6G Alliance, 6G Smart Networks and Services Industry Association (6G-IA), NextG Alliance, XGMF, 6G Forum, 6G Brazil, UKI-FNI, UK TIN, NGMN Alliance, UK Federated Telecoms Hubs (CHEDDAR, HASC, JOINER and TITAN), and 6G Flagship. The declaration reaffirmed that 6G must be designed to be secure, open, resilient, inclusive, and sustainable. This landmark declaration was released by MoU partners on 10th October 2025, during the Valedictory session, representing a unified global vision to make 6G a secure, intelligent, and inclusive network fabric that empowers every nation and citizen, accelerates digital economies, and leaves no one behind.



MoU Exchanges and Whitepapers

MoU with NASSCOM and MoI with the European Space Agency

MoU with NASSCOM: to integrate domestic industry, startups, and research ecosystems into 6G innovation. NASSCOM represents the voice of over \$254 billion of India's technology industry, with over 3,000 member companies spanning DeepTech and AI start-ups to multinationals, and from products to services, Global Capability Centres to Engineering firms.



MoI with ESA (European Space Agency): to enhance collaboration in non-terrestrial networks and satellite-terrestrial integration. The ESA Telecom Hub in the UK (also known as the 5G/6G Hub) is a research and innovation centre for converged satellite and terrestrial communication networks, providing



a collaborative environment for satellite operators, terrestrial network providers, and application developers to test integrated technologies for smart cities, autonomous vehicles, and IoT.

Whitepaper Launches

Spectrum Roadmap for 6G in India

Spectrum roadmap paper assesses India's current spectrum landscape for IMT services, identifies gaps vis-à-vis future data traffic growth, and examines evolving wireless technology trends—including NTN, HAPS, HIBS, Ambient IoT, Satellite Direct-to-Device, Drone connectivity, and V2X. It highlights the importance of a National Spectrum Strategic Roadmap to support ongoing 5G expansion, adoption of 5G Advanced, and initial 6G trials. The whitepaper provides a high-level view of spectrum requirements, outlines potential IMT spectrum bands under discussion in global forums, and recommends a structured five-year plan (short-term: 2025, medium-term: 2027, long-term: 2030 and beyond), along with policy measures for regulatory sandboxes and early experimentation.



Powering the Next-Gen Telecom (Towards energy efficiency in 6G Macro and Small cell deployments)

The advent of 6G promises to revolutionize connectivity, ushering in an era of hyper-connected devices and seamless experiences. However, this transformative technology comes with a significant energy consumption challenge. As 6G networks grow in complexity and scale, energy efficiency becomes a critical factor in ensuring sustainable and cost-effective deployments. Environmental, Social, and Governance (ESG) disclosures reveal a growing emphasis on energy-efficient network technologies, AI-driven optimization, renewable energy procurement, and phasing out legacy systems. This whitepaper delves into energy efficiency issues and considerations for 6G macro and small cell deployments, exploring innovative techniques and technologies to optimize power consumption while maintaining performance and reliability.





AI and Network Evolution to 5G Advanced and 6G: Native AI, Infrastructure Implications, and Global-India Perspectives

The shift from 5G Advanced to 6G is set to revolutionize telecom networks, transitioning from traditional systems to AI-native frameworks that are deeply integrated across every layer of the network. This white paper delves into the significance of AI-driven networks and their transformative role in the evolution of 5G Advanced to 6G. From self-optimizing systems to AI-powered orchestration, the paper explores how AI-native architecture will provide real-time adaptability, reduce operational complexity, and elevate service delivery.



6G Data Architecture, Security and Exposure Framework for RF Sensing

The white paper explores the 6G data architecture required to enable integrated sensing and communication (ISAC) capabilities, emphasizing the use of radio frequency (RF) sensing to unlock new applications across industries. It provides a detailed analysis of architecture, security, privacy, and exposure challenges, while proposing a framework to address these issues. The document also highlights potential use cases, such as pollution monitoring, next-gen railways, and smart cities, and discusses the monetization opportunities and technical advancements necessary for successful implementation.



These milestones, together with expanding 6G alliances across regions, reflect a collective movement from vision to action. The Bharat 6G Alliance represents India's transformation from a technology consumer to a technology contributor, leveraging international collaborations and domestic innovation to shape a globally inclusive 6G future. By leveraging international partnerships and nurturing indigenous capabilities, B6GA is laying the foundation for **Atmanirbhar Bharat in 6G** while ensuring that the benefits of advanced connectivity reach every corner of the country.



Curtain Raiser of Digital Communications Theme within ESTIC 2025 by Department of Telecommunications

Day 1: 9th October 2025, Pushpagiri Hall

Setting the Tone for Atmanirbhar Bharat 6G

“Setting the Tone for Atmanirbhar Bharat 6G” marked a significant beginning to the International Bharat 6G Symposium 2025 on 9th October 2025 at Pushpagiri Hall, setting the strategic direction for India’s self-reliant 6G journey.

The Emerging Science, Technology, and Innovation Conclave (ESTIC) is India's premier STI platform, bringing together ministries, innovators, and global visionaries. A flagship annual event, ESTIC fosters collaboration, celebrates disruptive innovation, and drives forward the vision of "Viksit Bharat 2047." This transformative platform will showcase cutting-edge research, deep-tech breakthroughs, and thought-provoking discussions with Nobel Laureates, global experts, policymakers, and emerging leaders - igniting a new era of scientific leadership.

The ESTIC-2025 is being jointly organised by 13 Ministries and Departments of the Government under the guidance of the Principal Scientific Adviser (PSA) to the Government of India. The conclave will be held from 3 to 5 November 2025 at Bharat Mandapam, New Delhi, with the theme “Viksit Bharat 2047 – Pioneering Sustainable Innovation, Technological Advancement, and Empowerment”.

Department of Telecommunications organised a Curtain Raiser for the upcoming Emerging Science, Technology & Innovation Conclave (ESTIC-2025) at this event on 9th October 2025. As one of the key organisers, DoT is leading the thematic session on “Digital Communications”, one of the 11 thematic sessions at the conclave.

A Brief Presentation on the “*Digital Communications Theme within ESTIC 2025*” was delivered by **Shri Ashok Kumar, DDG SRI**, offering an overview of India’s digital communication roadmap and key focus areas under the ESTIC framework. Prof. Ajay Sood, Principal Scientific Adviser to Government of India in august presence of Dr. Neeraj Mittal, Chairman, Digital Communications Commission and Secretary, Telecom, Department of Telecommunications unveiled the Curtain Raiser of the Digital Communications Theme, symbolizing India’s commitment to pioneering research and innovation in next-generation networks. The theme video covered the achievement in Telecom sector during last 11 years.

Prof. Ajay Sood, Principal Scientific Adviser to the Government of India in his Keynote Address highlighted the critical role of scientific innovation and interdisciplinary research in building a robust 6G ecosystem. He emphasized that the Government of India is driving telecom innovation through a strategic, multi-pronged approach that supports indigenous R&D, strengthens local manufacturing, expands digital access via Digital Bharat Nidhi and fosters collaboration across government, academia and industry. He



acknowledged that the 6G symposium is a global call to action to build faster, smarter, inclusive, and sustainable networks that empower societies and improve lives. 6G has the potential to transform industries, enhance public services, and create groundbreaking experiences.





The session concluded with a Vote of Thanks by Shri Anil Kumar Bhardwaj, DDG SE, Department of Telecommunications, acknowledging the contributions of all speakers and participants, and emphasizing the importance of joint efforts to realize India's 6G vision.

This session also set the tone for the two-day symposium, reflecting India's commitment to driving technological leadership, fostering innovation, and enabling Atmanirbhar Bharat 6G a self-reliant, globally connected, and future-ready digital ecosystem.





India's 6G push could add \$1.2 trillion to GDP by 2035, says Scindia

The communications minister said India aims to lead the world in 6G innovation, moving from being a consumer to an architect of technology.

— AIHIK SUR | OCTOBER 08, 2025 / 14:52 IST

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The minister noted that India's telecom journey had undergone a significant transformation over the past decade



MoU Exchange between IIT Delhi and Keysight Technologies for 6G NTN OTFS Waveform Development

A Memorandum of Understanding (MoU) was exchanged between **IIT Delhi** and **Keysight Technologies** during the International Bharat6G Symposium 2025. The collaboration aligns with B6GA's objective of developing indigenous 6G Intellectual Property (IP) in India and taking it to the global stage.

Developed by Professor Saif Khan Mohammad and his team at IIT Delhi, the Orthogonal Time Frequency and Space (OTFS) waveform is a leading candidate technology for Non-Terrestrial Networks (NTN) in 6G, owing to its robustness in high Doppler and high delay environments. Recognizing its significance, Keysight Technologies, a global leader in test and measurement, will integrate the OTFS IP into its Vector Signal Analyzer (VSA) platform for worldwide use by 6G developers.

This collaboration represents the **first-of-its-kind productization of 6G IP** developed in India and its adoption by a global technology leader. It signifies both technical and commercial validation of Indian innovation and marks a significant step forward toward realizing **Bharat 6G Alliance's vision of global leadership in 6G development**.



Keynote Addresses

Keynote Address by Dr. Pemmasani Chandra Sekhar, Minister of State in the Ministry of Communications and Minister of State in the Ministry of Rural Development, Government of India



The minister emphasized India's growing global leadership in telecommunications and digital innovation. He highlighted that the **Department of Telecommunications (DoT)**, in close partnership with industry and key stakeholders, has been successfully hosting the **India Mobile Congress (IMC)** South Asia's most iconic digital and telecom platform. The IMC now attracts over **100,000 visitors from 150 countries**, including **600 startups and 400 exhibitors**, demonstrating India's commitment to openness, partnership, and global collaboration.

The Minister underscored India's proactive engagement with international standardization bodies such as **3GPP** and the **International Telecommunication Union (ITU)**, reaffirming the nation's role in shaping the global telecom agenda. Over **80 institutional members** across the telecom ecosystem are contributing to this vision, reflecting India's collective strength in research, innovation, and development. Bharat 6G alliance signed MoU with Global 6G alliance for knowledge sharing developing ecosystem.



Highlighting India's leadership in next-generation technologies, Dr. Pemmasani shared that the **130 cutting-edge projects** across deep-tech domains, supported by investments exceeding **USD 30 million** in joint research programs, prototype development, and standard-essential IP creation.

Dr. Pemmasani noted that India now **manufactures 99% of its mobile phones domestically** and has achieved **60% import substitution** in telecom and network equipment.

He concluded by emphasizing India's exceptional **STEM talent pool** and the country's strategic transition from a *knowledge destination* to a *technology superpower*. Dr. Pemmasani reaffirmed the Government's commitment to building a **resilient, innovation-driven ecosystem** under the **Bharat 6G Vision Roadmap**, driving the nation toward an intelligent, secure, and inclusive digital future.



Keynote Address by Mr. Vivek Badrinath, GSMA

Mr. Vivek Badrinath, Director General of the **GSMA**, lauded India's rapid progress in telecommunications and its emergence as a **global technology innovator**. Recalling that the nation has advanced from its first mobile call three decades ago to serving **over 1 billion unique mobile users** and connecting **760 million people to mobile internet**, he highlighted the sector's contribution of approximately **12 percent of India's GDP about USD 370 billion**.



Mr. Badrinath commended India for executing the **world's fastest 5G rollout**, which now covers **82 percent of the population** and serves **over 365 million users**. He noted that India has transformed from a digital consumer into a **global producer of technology, standards, and services**, with innovations such as **Aadhaar, IndiaStack, and UPI** benefiting not only India but societies worldwide. He emphasized that **6G development must build upon the solid foundations of 5G**, preserving the value of existing investments while enabling a **modular and scalable transition**. Highlighting real-world applications such as **drone-assisted agriculture, smart irrigation, 5G-enabled emergency healthcare, and smart urban infrastructure**, he underlined that many of the capabilities envisioned for 6G are already being realized through 5G.



Maximizing these achievements, he said, will make 6G adoption in the 2030s more efficient and economically viable.

Turning to **policy priorities**, Mr. Badrinath stressed the importance of **transparent, long-term regulatory frameworks** that promote innovation, ensure cybersecurity, and guarantee inclusivity. Commending the **Bharat 6G Alliance (B6GA)** as a pioneering platform uniting government, industry, and academia, he noted that India's leadership must also ensure **digital inclusion**.





Presentation by Mr. Ross Bateson, GSMA Study on 6G Spectrum Needs

Mr. Ross Bateson emphasized that the evolution from **5G to 6G** will redefine both the technological and experiential landscape of global connectivity. He projected that by **2030–2040**, mobile communications will move beyond the confines of rectangular handheld screens toward **immersive, holographic, and AI-driven experiences**. These “disruptor technologies,” he noted, already form part of high-demand forecasts and are attracting significant worldwide investment, suggesting that their materialization is not speculative but imminent.

Presenting GSMA’s forward-looking spectrum analysis, he forecast a requirement of **2–3 GHz of additional globally harmonized spectrum by 2035–2040**, with high-usage markets potentially demanding up to 4 GHz. He stressed the importance of **balanced spectrum planning**, accounting for application-specific needs—such as AI’s increasing uplink demand and low-latency channel requirements—alongside realistic network-density assumptions. He expressed enthusiasm for continuing this dialogue at the upcoming **Mobile World Congress (MWC) Doha**, where the GSMA will release its detailed **6G Traffic Demand and Spectrum Requirement Report** ahead of **WRC-27**, helping shape the roadmap for 6G implementation in the latter half of the decade.





International bodies endorse core principles for future 6G networks under New Delhi declaration: Pemmasani

In his reply, Sekhar said, "The endorsed principles for 6G networks include being trusted and secure, resilient and reliable, open and interoperable, inclusive and affordable, and sustainable. The declaration also positions 6G as a global public good, reflecting a collective international vision for next-generation connectivity."

ANI
Published On Feb 13, 2026 at 07:55 AM IST



New Delhi, Feb 12 (ANI): Union Minister of State for Rural Development and Communications Chandra Sekhar Pemmasani speaks in Rajya Sabha during the ongoing budget session, in New Delhi on Thursday. (Sansad TV/ANI Video Grab)

New Delhi: The Government of India has reinforced its commitment to shaping the future of global telecommunications through the New Delhi Declaration, adopted at the Bharat 6G Symposium 2025.



Sessions/Panel Discussions

Session 1: Panel on Global 6G Initiatives

(Objective: Discussion of 6G initiatives across US, UK, Japan, S. Korea, Europe and India)

Moderator:

- Prof. Bhaskar Ramamurthi, IIT Madras

Session Speakers:

- Prof. Harald Haas, Future Telecoms, UK
- Dr. Hosako Iwao, NICT, Japan
- Dr. Magnus Frodigh, Vice Chair of Hexa-X, Europe
- Dr. Ashutosh Dutta, IEEE Future Networks, Johns Hopkins University, USA
- Prof. David Koilpillai, Chairman, Bharat 6G Alliance and Professor, IIT Madras



Session 2: Industry Leaders Panel: Key 6G Use Cases

(Objective: Explore promising use cases of 6G)

Moderator:

- Mr. Robert Ravi, Chairman and Managing Director, Bharat Sanchar Nigam Limited

Session Speakers:

- Mr. Sachin Mehta, Airtel
- Dr. Dilip Krishna swamy, C DoT
- Mr. Jayanta Dey, HFCL
- Dr. Magnus Ewerbring, Ericsson
- Ms. Anita Doehler, NGMN Alliance
- Mr. Charles Santhosam, Nvidia



Session 3: Panel on Enabling 6G Technologies

(Objective: Exploring foundational/emerging technology enablers for 6G, and ways of international cooperation between academia and industry)

Moderator:

- Prof. Rohit Budhiraja, IIT Kanpur

Session Speakers:

- Prof. Mathini Sellathurai, Heriott Watt University, Scotland
- Dr. P Hanumantha Rao, SAMEER
- Prof. Nandana Rajatheva, University of Oulu, Finland
- Prof. Erik Strom, Chalmers University, Sweden
- Prof. Debarati Sen, IIT Kharagpur
- Prof. Deepa Venkitesh, IIT Madras
- Prof. Kaveh Delfanazari, University of Glasgow, UK

Session 4: Transition towards AI-Native 6G Networks (Industry and Academic Leaders)

(Objective: To transition towards autonomous 6G networks)

Moderator:

Shri Ashok Kumar, Bharat 6G Mission Head & DDG(SRI), Department of Telecommunications

Session Speakers:

- Prof. Mahesh Marina, University of Edinburgh, UK
- Dr. Elena Fersman, Ericsson
- Dr. Simone Redana, Nokia
- Mr. Sandeep Sharma, Tech Mahindra
- Mr. Ramu T S, Lekha Wireless
- Prof. Rohit Budhiraja, IIT Kanpur





Session 5: Panel on Non-Terrestrial Networks, 6G for Space & Global Connectivity

(Objective: Discussing satellite-terrestrial integration, 3D networks topologies, and connectivity for remote regions)

Moderator:

- Prof. Mike Short, UK

Session Speakers:

- Prof. Rahim Tafazolli, University of Surrey, UK
- Dr. Dilip Krishnaswamy, C-DOT
- Dr. Veena Rawat, GSMA
- Lt. Col VS Velan, Elena Geo System
- Mr. Amitabh Madathil, Airtel





Session 6: Harmonization of Spectrum and Standards

(Objective: Alignment of international standards and spectrum frameworks for 6G)

Moderator:

- Shri S. T. Abbas, Telecom Engineering Centre, Department of Telecommunications

Session Speakers:

- Mr. Lorenzo Casaccia, Qualcomm Standards
- Dr PSM Tripathi, Wireless Planning and Coordination, Department of Telecommunications
- Dr. Ulrich Dropmann, Nokia Standards
- Mr. Dhivagar Baskaran, CEWiT
- Mr. Jishnu A., Tejas Networks
- Prof. Sudhir Dixit, IEEE Future Networks, Basic Internet Foundation & WWRF, USA





Fireside Chat: Semiconductor Advancements for 6G Readiness

Moderator:

- Mr. Rajesh Kumar Pathak DG Bharat 6G Alliance

Session Speakers:

- Dr. Naveen Yanduru, Axiro Semiconductor
- Mr. Akshay Aggarwal, MediaTek
- Mr. Udayan Mukherjee, Intel





Session 7: Roundtable – Global Cooperation in driving unified 6G roadmap
(Objective: Bridging alliances across continents for a common 6G vision)

Moderator:

- Dr. Kumar Sivarajan, Vice-chairman, Bharat 6G Alliance and Tejas Networks

Session Speakers:

- Dr. Amitava Ghosh, NextG Alliance, USA
- Prof. Harald Haas, Future Telecoms, UK
- Prof. Rahim Tafazolli, University of Surrey, UK
- Dr. Anita Doehler, NGMN Alliance
- Dr. Colin Willcock, 6G-IA, Europe
- Mr. Afif Osseiran, 5G-ACIA
- Prof. Gerard Parr, UK-India Future Networks Initiative (UKI-FNI)- UK
- Prof. KyungHi Chang, 6G Forum, South Korea (Video Message)
- Prof. Akihiro Nakao, XG Mobile Promotion Forum (XGMF), Japan (Video Message)





Valedictory Session and Way Forward

(Objective: Closing reflections and actionable roadmaps from global leaders on research, policy, and partnerships to deliver a trusted, inclusive, and scalable 6G future)

- Shri Anil Kumar Bhardwaj, DDG SE, Department of Telecommunications,
- Dr. Mallik Tatipamula, Chief Technology Officer, Ericsson Silicon Valley, USA
- Dr. Ulrich Dropmann, Head of Standardization and Industry Environment, Nokia
- Prof. David Koilpillai, Chairman, Bharat 6G Alliance and Professor, IIT Madras
- Mr. Rajesh Kumar Pathak, Bharat 6G Alliance

The valedictory session brought together an international panel of experts who delivered closing reflections on the symposium's deliberations. A unanimous consensus emerged on the critical importance of global cooperation to prevent fragmentation of standards and ensure a unified approach to 6G. Speakers emphasized the need for a single global roadmap that integrates research priorities, academic–industry collaboration, spectrum policy frameworks, governance mechanisms for secure and trusted networks, and joint testbed development with cross-border pilots.



Participants pointed to ongoing bilateral and multilateral initiatives including the US–India VINES program, the UK–India 6G Joint Statement, and EU–Japan collaborations—as effective models for coordinated international action. These initiatives demonstrate how shared goals, funding mechanisms, and technical exchanges can accelerate the global 6G agenda.

Key outcomes included a shared commitment to maintaining an open architecture ecosystem through joint standardization, and an agreement on the importance of public–private funding to support international testbeds and pilot projects. India’s role as a bridge between developed and developing nations was reaffirmed, with the Bharat 6G Alliance recognized as the central anchor for international cooperation in the 6G domain.

Outlook

The International Bharat 6G Symposium 2025 marked a significant evolution from the conceptual dialogues of 2024 to structured collaborations and policy alignments in 2025. A landmark joint statement titled “*Endorsing Principles for 6G: Secure, Open, Resilient, Inclusive, and Sustainable by Design*”, co-signed by Bharat 6G, 6G IA, ATIS’ Next G Alliance, XGMF, 6G Forum, 6G Brazil, UKI-FNI, UK TIN, UK Federated Telecoms Hubs – CHEDDAR, HASC, JOINER and TITAN, and 6G Flagship, reaffirming a unified global vision for inclusive and secure 6G development. NGMN Alliance choose Joint bilateral declaration with Bharat 6G Alliance. The alliance leaders proposed to take it forward among themselves vertical level engagements in coming out with Whitepapers, Workshops and Joint reports.

The symposium showcased India’s transformation into a driving force of global 6G cooperation, blending visionary research with pragmatic policy frameworks. India was repeatedly acknowledged as a connector between advanced research economies and emerging markets, ensuring that the global 6G roadmap remains inclusive, sustainable, and harmonized. The discussions and outcomes from this symposium set a strong foundation for long-term, structured international partnerships that will shape the future of 6G.





Review of Bharat 6G Alliance by Hon'ble Minister of Communications

The Alliance's progress was formally reviewed by the Hon'ble Minister of Communications on three occasions during FY 2025–26, reflecting the Government's close and sustained engagement with the Alliance's mission-mode execution.

i. 10 July 2025, Bengaluru — Review of Bharat 6G Alliance: Accelerating India's 6G Leadership

Chaired by Shri Jyotiraditya M. Scindia, Hon'ble Minister of Communications, in the presence of Dr. Neeraj Mittal, Secretary, Department of Telecommunications, this review meeting focused on the theme “Accelerating India's 6G Leadership” and produced the following action points for the Alliance:

- Develop a time-bound, 3–4 year roadmap for 6G development, broken into monthly or quarterly milestones with clear targets, using tools such as Gantt charts to assign accountability to each Working Group.
- Establish a regular review mechanism, with monthly or quarterly meetings of all Working Groups and periodic updates shared with the Ministry.
- Shift from ideation to execution — finalising and implementing key initiatives (such as the patent funnel, equipment manufacturing and captive 5G networks), identifying high-impact areas, and moving quickly into prototyping, testing and standards submission.

ii. 30 September 2025, New Delhi — Review of Working Group Progress

The Hon'ble Minister of Communications reviewed the progress of the seven Working Groups — Spectrum, Technology, Devices, Applications, Green & Sustainability, 6G Use Cases, and Outreach —



through their respective Gantt charts, with the Chairman and Working Group Chairs making presentations. Action points emerging from the meeting were identified for each Working Group, which the Chairs have since been progressing.

Ministry of Communications



Union Minister Shri Jyotiraditya M. Scindia Reviews Bharat 6G Alliance Progress

Shri Scindia Reaffirms Government's Commitment to Next-Gen Communication Technologies

Shri Scindia urges B6GA to work towards "our ambitious target to achieve 10% IPRs in the 6G technology globally"

Presentations Showcase Breakthroughs in Indigenous RAN, Inclusive Networks, and 6G Applications

प्रतिष्ठित तिथि: 10 JUL 2025 7:37PM by PIB Delhi

The Union Minister of Communications, Shri Jyotiraditya M. Scindia today reviewed the progress of Bharat 6G Alliance (B6GA) along with Shri (Dr.) Neeraj Mittal, Secretary, Telecom. During the high-level interaction, the Alliance presented detailed updates on India's progress toward becoming a global leader in 6G by 2030. The event included comprehensive presentations from working group Chairpersons, outlining actionable plans and key technological advancements.






iii. 9 December 2025, New Delhi — Apex Council Meeting under the Bharat 6G Mission and Review of Bharat 6G Alliance

Chaired by the Hon'ble Minister of Communications, this combined Apex Council and Alliance review meeting brought together senior representatives from MeitY, MIB, the Department of Space, DRDO and NSCS, alongside academia, R&D institutions, standards bodies, industry and telecom service providers. The Chairman presented the National 6G Roadmap and DPR on 6G, the Vice-Chairman presented the strategy for 6G leadership, and each of the seven Working Groups presented its progress and recommendations (summarised in the Working Group Progress section above).

This meeting represents the year's principal shift from ideation to time-bound, milestone-driven execution, with the Alliance subsequently submitting Working Group Gantt charts for the next quarter's deliverables to the Department of Telecommunications on 18 December 2025 (further revised and resubmitted on 24 December 2025).

The Chairman and Vice-Chairmen presented the National 6G Roadmap, strategy for 6G leadership, and progress in global collaborations, standards engagement, IPR development, pre-standard testbeds, and indigenous technology development.

The Working Groups presented updates across technology, spectrum, devices and manufacturing, applications, use cases and revenue streams, sustainability, and outreach. The Hon'ble Minister emphasized the need for clear quarterly deliverables, stronger inter-working group coordination, global engagement, and a holistic approach to the 6G value chain, with key directions including shaping global standards, aligning spectrum planning with international harmonisation, strengthening indigenous devices and components, developing India-specific yet globally relevant applications, expanding outreach, and exploring a Core Network/Software Working Group.



Steering Committee Meetings under the Bharat 6G Apex Council

Ahead of each Apex Council review, the Steering Committee under the Bharat 6G Apex Council chaired by the Secretary (Telecom) met at Sanchar Bhawan, New Delhi, to examine the Alliance's roadmap and DPR in detail.

2nd Steering Committee Meeting — 12 August 2025

The Chairman presented the “Bharat 6G Alliance Roadmap: Accelerating India's 6G Leadership,” outlining a phased approach to strengthening stakeholder engagement.

3rd Steering Committee Meeting — 24 September 2025

The Chairman presented the Detailed Project Report (DPR) for Phase I, proposing a hub-and-spoke model to accelerate India's 6G R&D, standardisation, IPR generation, and testbeds during 2025–2027; Vice-Chairman Prof. Rohit Budhiraja elaborated the model, mapping credible academic and industry hubs to thematic spokes including AI/ML, ISAC, NTN, PHY, FWA, RF/transceivers, baseband ASICs, RAN L2/L3, core, antennas/RIS, O-RAN, IoT/V2X, security and backhaul.



Ministry of Communications

Union Minister Shri Jyotiraditya M. Scindia chairs the Apex Council Meeting under the Bharat 6G Mission

Calls for Focused Roadmap to Achieve Global Leadership in 6G by 2030

Unveiling of Booklets on 100 5G Labs: Infrastructure to Innovation; 5G Innovation Hackathon 2025 and Felicitation of Best Performing Labs

B6GA Presents Breakthrough Progress Across Seven Working Groups in 6G Research and Innovation

Major Boost to R&D Through ANRF and the ₹1-Lakh-Crore RDI Fund for Future Technologies

Strengthened International Engagement and India's Growing Role in Global Standards and 6G Ecosystem

Stakeholder Feedback, Collaborative Roadmaps and Accelerated Testbeds to Drive Next Phase of India's 6G Mission

Posted On: 09 DEC 2025 6:16PM by PIB Delhi

The Union Minister of Communications, **Jyotiraditya M. Scindia**, today chaired the meeting of the Apex Council under the Bharat 6G Mission and reviewed the progress of the Bharat 6G Alliance.

The meeting was attended by the Union Minister of State for Communications, Dr. Chandrasekhar Pemmasani, Secretary (Telecom) Dr. Neeraj Mittal, the Principal Scientific Adviser to the Government of India Prof. Ajay Sood, senior officials from key Ministries, representatives from academia, R&D institutions, Telecom Service Providers, industry leaders and members of the Bharat 6G Alliance. The high-level interaction underscored India's accelerating progress towards emerging as a global 6G leader by 2030.

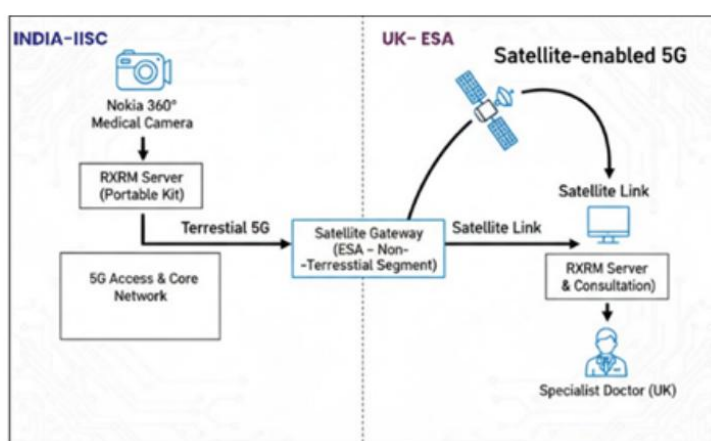
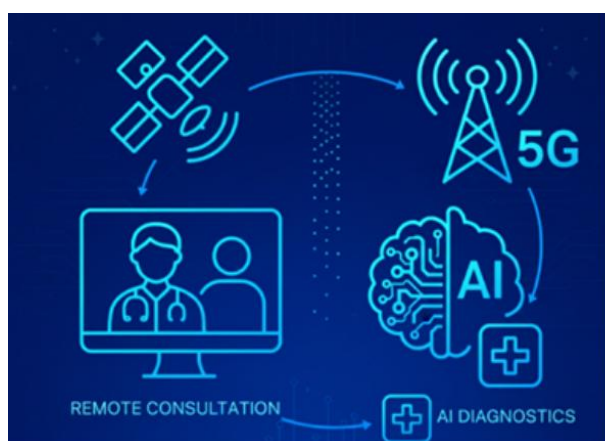


Technology Demonstrations with ESA, UKI-FNI and UKTIN

The European Space Agency (ESA) is a MoI partner and UKI-FNI & UKTIN are MoU partners of the Bharat 6G Alliance, collaborating on research, development, and validation of advanced connectivity solutions aligned with future 6G networks. On 11 December 2025, both sides (UK and India) demonstrated their innovations.

Demonstration 1: Telemedicine over Satellite-5G (India – ESA UK)

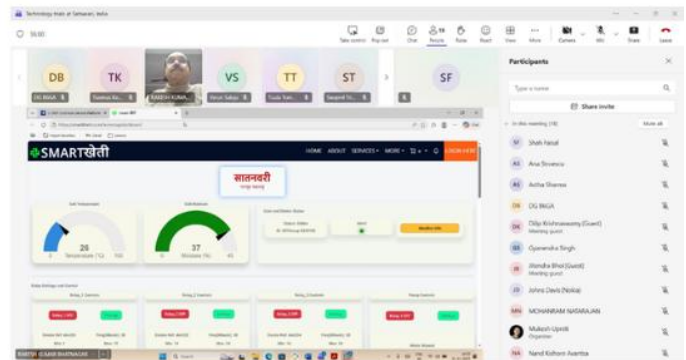
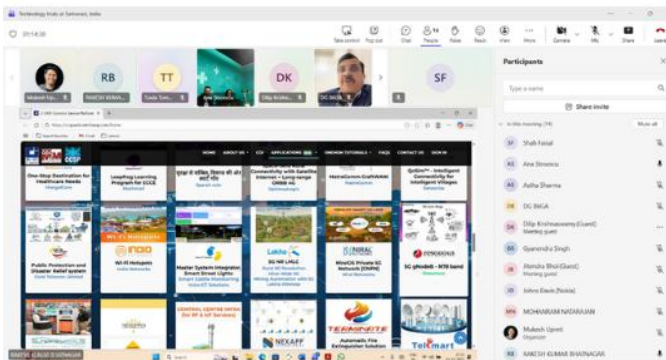
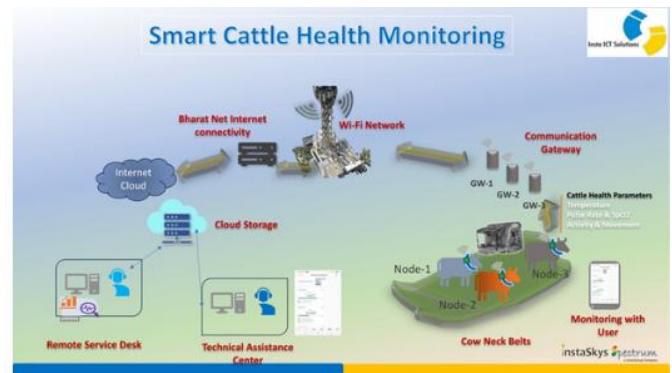
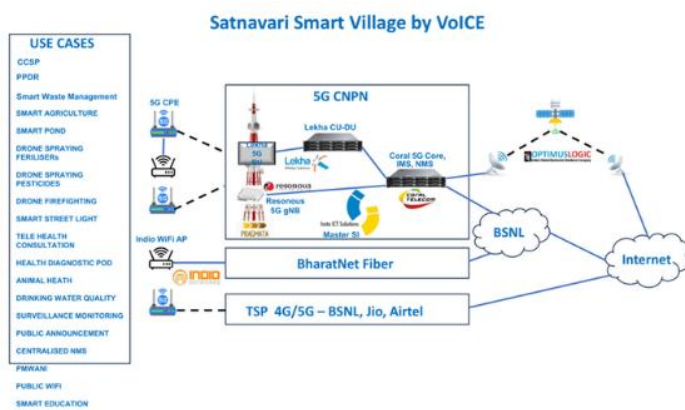
The UK side showcased a telemedicine use case over an integrated satellite-5G network, connecting IISc Bangalore, India and the Harwell Campus, ESA, United Kingdom, validating real-time, high-resolution remote medical consultation using Nokia's Real-time eXtended Reality Multimedia (RXRM) solution and a Nokia 360° high-resolution medical camera deployed at IISc.



Demonstration 2: Smart Village and Tele-Applications (Satnavari Village, Maharashtra)

India showcased a Smart Village and Tele-Applications demonstration at Satnavari Village, Maharashtra, presenting real-world applications running over BharatNet and public 5G, integrated and monitored through a centralised C-DOT Common Dashboard, covering agriculture and fisheries (including precision farming and drone-based operations), healthcare services (live tele-consultation via the MangalCare platform), security and emergency response, and digital cattle-health monitoring.

Key observations included operational readiness of multiple smart village services simultaneously, integrated centralised dashboards, reliable rural connectivity, effective digital healthcare delivery, scalability across use cases, improved digital inclusion, and strong replication potential for other rural regions.



National 6G Roadmap 2025–30

Building on the Bharat 6G Vision (unveiled by the Hon'ble Prime Minister on 22 March 2023) and the recommendations of the Bharat 6G Mission Task Force, the Bharat 6G Alliance led the preparation of the National 6G Roadmap 2025–30, submitted to the Department of Telecommunications on 18 August 2025 under the title “National 6G Roadmap 2025-30”.

The Roadmap draws on consultations across the seven Working Groups and member organisations, and sets out a phased approach to research, standardisation and deployment covering:

- Technology development priorities across wireless, non-terrestrial networks, optical, AI/ML and chip design verticals.
- Spectrum studies and harmonisation positions, including the 7/8 GHz mid-band and preparatory work for WRC-27.
- Indigenous IPR creation, prototyping and testbed development.
- Manufacturing readiness for devices, components, sensors and RF hardware.
- Global standards leadership through sustained participation in 3GPP, ITU, O-RAN and TSDSI.
- A phased timeline extending to 2030, aligned with India's IMT-2030 ambitions.

The Chairman presented the National 6G Roadmap and DPR briefing to the Apex Council on 9 December 2025, outlining India's contributions toward IMT-2030 technical proposals, progress in 6G RAN studies, priority technology focus areas, and an assessment of India's current IPR position — providing the basis for the quarterly, milestone-based mission-mode approach directed by the Hon'ble Minister of Communications for FY 2026–27 and beyond.

DPR for the Bharat 6G Mission

The Detailed Project Report (DPR) for the Bharat 6G Mission translates the high-level strategy set out in the National 6G Roadmap 2025–30 into a concrete, actionable and fundable plan. The Chairman first presented the DPR for Phase I to the 3rd Steering Committee meeting under the Bharat 6G Apex Council on 24 September 2025, proposing a hub-and-spoke model to accelerate India's 6G research and development, standardisation, IPR generation and testbeds during 2025–2027.

The hub-and-spoke model, further elaborated by the Vice-Chairman, maps credible academic and industry hubs with strong 3GPP/ITU track records to thematic spokes covering AI/ML, Integrated Sensing and Communication (ISAC), Non-Terrestrial Networks (NTN), physical-layer (PHY) technologies, Fixed Wireless Access (FWA), RF/transceivers, baseband ASICs, RAN Layer 2/3, core networks, antennas/Reconfigurable Intelligent Surfaces (RIS), O-RAN, IoT/V2X, security and backhaul.



The DPR covers pre-standard testbeds, hardware and software stacks, and ASIC development for the 2025–2027 focus period, and sets out the institutional framework, milestones, financial requirements and sustainability model for India's 6G programme. The DPR was submitted to the Department of Telecommunications on 16 December 2025, together with draft Calls for Proposals on four priority themes (see following section). An updated DPR, along with revised Calls for Proposals, was submitted to the DoT on 31 March 2026, in line with directions from the Secretary (Telecommunications).

Building on the Bharat 6G Vision Document and the Bharat 6G Mission Task Force recommendations, the Alliance progressed a phased national approach to 6G research, standardisation and deployment through FY 2025–26, from “Accelerating India's 6G Leadership” and the National 6G Roadmap 2025–30 (submitted August 2025), through the Detailed Project Report (DPR) built on a hub-and-spoke model (presented September 2025), to the National 6G Roadmap and DPR briefing presented to the Apex Council in December 2025, and finally the updated DPRs and Calls for Proposals submitted on 31 March 2026 (see Section 23).

Calls for Proposals under the Telecom Technology Development Fund

The Telecom Technology Development Fund (TTDF) continued to serve as a key instrument for funding indigenous 6G research and development during FY 2025–26. The Bharat 6G Alliance contributed expert participation and recommendations to shape successive Calls for Proposals (CFPs), including a gap analysis against currently TTDF-funded projects.

Draft Calls for Proposals submitted to the Department of Telecommunications (16 December 2025, updated 31 March 2026) covered the following thematic areas:

- Integrated Sensing and Communication (ISAC)
- Non-Terrestrial Networks (NTN)
- Fixed Wireless Access (FWA)
- Open Radio Access Networks (O-RAN)

In addition, the Devices, Components, Sensors and Manufacturing Ecosystem Working Group recommended reference designs for POS and CCTV/AI-vision systems and RF components for 6G New Radio in the 6.4–7.2 GHz band, while the Spectrum Working Group called for prototyping and field-experimentation proposals in the 7/8 GHz mid-band from Q4 2025, to support India's preparatory position for WRC-27.

Bharat 6G Alliance members also participated as expert evaluators for 6G project proposals across four thematic tracks at the TTDF Symposium held at the IIT Madras Research & Innovation Park from 19 to 21 June 2025.

As of February 2026, 104 projects amounting to ₹271 crore had been approved under the TTDF scheme for research and development of 6G technology, as informed by the Government to Parliament.



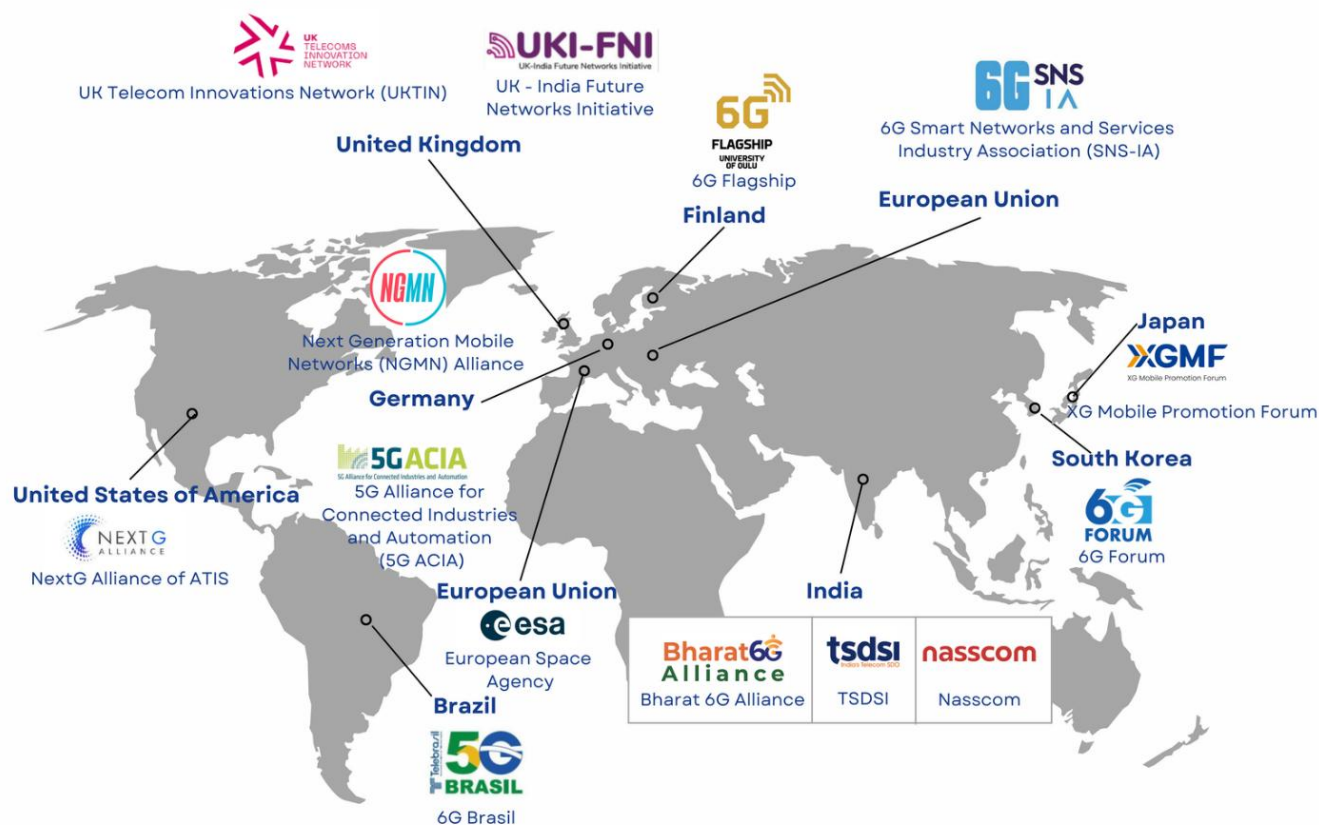
Reports, Whitepapers and Policy papers

Document	Lead / Context	Date / Period	Status
Spectrum Roadmap for 6G in India	Spectrum Working Group	Released, October 2025	Released at International Bharat6G Symposium 2025
Powering the Next-Gen Telecom	Green & Sustainability / Technology Working Groups	Released, October 2025	Released at International Bharat6G Symposium 2025
AI and Network Evolution to 5G Advanced and 6G	Technology Working Group	Released, October 2025	Released at International Bharat6G Symposium 2025
6G Data Architecture, Security and Exposure Framework for RF Sensing	Technology / Applications Working Groups	Released, October 2025	Released at International Bharat6G Symposium 2025
National 6G Roadmap 2025–30	Bharat 6G Alliance (all Working Groups)	Submitted 18 August 2025	Submitted to DoT
DPR for the Bharat 6G Mission (Phase I)	Bharat 6G Alliance	Presented 24 September 2025; submitted 16 December 2025; updated 31 March 2026	Submitted to DoT
Draft Calls for Proposals (ISAC, NTN, FWA, O-RAN)	Bharat 6G Alliance Working Groups	Submitted 16 December 2025; updated 31 March 2026	Submitted to DoT
Sovereign Patent Fund — concept note / draft report	Bharat 6G Alliance	Presented 21 May 2025; draft shared with DoT June 2025	Under revision, pending Government feedback
IPR Policy, Code of Conduct and Anti-Trust Policy	Bharat 6G Alliance	Approved 11 June 2025	Approved by Governing Council
Centre for Patent Facilitation for Telecom Technologies — structure and framework proposal	Bharat 6G Alliance (member survey)	Survey circulated 23 January 2026	Draft inputs submitted to DoT; member consultation in progress
Working Group Gantt Charts (quarterly deliverables)	All Working Groups	Submitted 18 December 2025; revised 24 December 2025; presented 27 February 2026	Ongoing quarterly submission to DoT



International Collaboration

Bharat 6G Alliance (B6GA) has actively pursued strategic international collaborations to position India as a leading contributor to the global 6G ecosystem. These partnerships aim to foster joint research and innovation, promote harmonized standards development, facilitate knowledge exchange, strengthen participation in global standardization bodies, and create opportunities for collaborative pilots, testbeds, and industry-academia engagements.



During the year, B6GA further strengthened its global outreach through Memoranda of Understanding (MoUs) and cooperation with leading international 6G organizations, industry alliances, and research institutions across Europe, North America, Asia-Pacific, and other regions. These collaborations support the shared objective of developing secure, interoperable, sustainable, and inclusive 6G technologies while advancing the Bharat 6G Vision and enhancing India's role in shaping future global telecommunications standards, intellectual property, and innovation.



Bilateral and MoU-Partner Engagements

During the reporting period, Bharat 6G Alliance continued to deepen its engagement with global 6G alliances, standards bodies, research institutions, industry associations and strategic MoU partners, aligning India's 6G priorities with international developments and enhancing India's participation in global 6G discourse.

1. Bharat 6G Alliance–6G Forum, South Korea Joint Workshop

B6GA organized the First Korea–India Joint Workshop 2025 with 6G Forum, South Korea, on 4 June 2025 “Building the 6G Foundation” focused on 6G visions and future use cases, R&D government policies, and key focus areas. The workshop aimed to align national roadmaps, share use cases such as healthcare, education and smart cities, and establish joint task groups on spectrum policies and AI networks.

2. Bharat 6G Alliance–India–UK Joint Working Group on Future Telecoms

B6GA participated in the inaugural meeting of the India–UK Joint Working Group on Future Telecoms on 25 June 2025, bringing together experts from DoT, UKRI/IUK, academia, businesses and research technology organizations to develop a roadmap for focused collaboration in advanced communication technologies.

3. Bharat 6G Alliance–6G SNS-IA / 6G-IA, Europe Joint Workshop

B6GA organized the First Joint Workshop with 6G SNS-IA / 6G-IA, Europe, on 4 July 2025, covering use cases, applications, key technologies, views on 6G spectrum, and the future direction of collaboration including planned workshops on 6G architecture (CU/DU splits), 6G spectrum (terrestrial and non-terrestrial coexistence), priority 6G use-case families for 2031, AI in networks, and sustainability.

4. Bharat 6G Alliance–TSDSI Strategic Collaboration

B6GA and TSDSI signed an MoU on 15 July 2025, formalised during the TSDSI Tech Deep Dive 2025 conference, to address India's priorities in 6G, support cooperation in developing 6G standards, and enable regular exchange of activity roadmaps and technical workplans.

5. Bharat 6G Alliance–NGMN Alliance Bilateral Meeting

The first bilateral meeting between B6GA and NGMN Alliance was held on 21 August 2025; both sides briefed each other on 6G activities, B6GA invited NGMN to the International Bharat6G Symposium, and NGMN invited B6GA to its Governing Board meeting in the UAE.



6. Bharat 6G Alliance–European Space Agency

B6GA held an exploratory meeting with ESA on 23 September 2025 on possible cooperation in 5G/6G satellite communications. A further engagement took place on 2 October 2025 at Harwell, United Kingdom, where both sides agreed the MoU text, which was signed and exchanged on 8 October 2025, focusing on non-terrestrial networks and satellite–terrestrial integration through ESA's 5G/6G Hub.

7. Bharat 6G Alliance–NASSCOM MoU Collaboration

Highlighted at the International Bharat6G Symposium 2025, this collaboration integrates India's technology industry, startups and research ecosystem into the 6G innovation landscape, connecting telecom, software, AI, startups, industry platforms and research institutions.

8. Bharat 6G Alliance–XGMF, Japan Engagement

B6GA participated in the XGMF event “5G Advancements, 6G Latest Developments and Outlook Beyond 5G/6G” held on 15–16 October 2025 at Chiba, Makuhari Messe, Japan, alongside 6G-IA, NextG Alliance and 6G Forum South Korea.

9. Bharat 6G Alliance–NASSCOM High-Level Session at India AI Impact Summit 2026

B6GA, with NASSCOM, hosted a high-level session on 20 February 2026 in New Delhi — “AI at the Core, 6G at the Edge” — featuring a keynote by Shri Ashok Kumar, DDG (SRI), DoT, and a panel moderated by Mr. Radhakant Das (Chair, Applications WG) with Tech Mahindra, Nokia India and Reliance Jio.

10. Bharat 6G Alliance–6G Flagship, Finland Engagement

Chairman Prof. R. David Koilpillai represented B6GA in a high-level India–Finland technology collaboration engagement on 5 March 2026, during the State Visit of the President of the Republic of Finland, emphasizing the collaboration with Finland's 6G Flagship programme at the University of Oulu.

11. Global 6G Industry Alliance Executive Dialogue at Mobile World Congress 2026

Dr. Kumar Sivarajan, Vice-Chairman, participated in the Global 6G Industry Alliance Executive Dialogue hosted by GSMA during MWC 2026 (2–5 March 2026), Barcelona, alongside NextG Alliance, 6G-IA, 6G Forum, XGMF and NGMN Alliance.

Overall, these engagements demonstrate B6GA's movement from initial MoU-level cooperation toward structured international collaboration spanning 6G architecture, spectrum, AI-native networks, sustainability, standards, use cases, and satellite–terrestrial integration.



Bharat 6G Alliance Participation in National and International Events

Date	Event	Location	B6GA Role
24 April 2025	Rohde & Schwarz Technology Symposium 2025	Bengaluru	Keynote address on Bharat 6G Alliance
29 April 2025	Symposium on Secure 6G and Monetization (with Nokia, NCCS)	IISc, Bengaluru	Co-organiser
14 May 2025	Bharat 6G 2025 – 3rd International Conference & Exhibition	New Delhi	Chairman keynote; DG presentation on Research, Innovation & Standardisation Roadmap
19–21 June 2025	TTDF Symposium	IIT Madras Research & Innovation Park	Expert evaluators for 6G project proposals
25 June 2025	First Meeting, India–UK Joint Working Group on Future Telecoms	Virtual/Hybrid	Participant
18 July 2025	TSDSI Tech Deep Dive (TTDD) 2025	—	MoU signing with TSDSI
9–10 October 2025	International Bharat6G Symposium 2025 / India Mobile Congress 2025	Yashobhoomi, Dwarka, New Delhi	Co-organiser with DoT
15–16 October 2025	XGMF 5G Advancements, 6G Latest Developments and Outlook	Chiba, Makuhari Messe, Japan	Panellist alongside 6G-IA, NextG Alliance, 6G Forum (Korea) and XGMF (Japan)
21–27 September 2025	Confluence 2.0 – Industry–Academia Summit, 6G workshop	Rajagiri School of Engineering & Technology, Kerala	AD(Tech) as key resource person (nominated by DoT Kerala LSA)
23 August 2025	SEP Conference (FICCI)	—	DG moderated Session I: Demystifying the Standard Essential Patent Ecosystem
11 November 2025	IEEE Future Networks World Forum	Bengaluru	Chairman keynote
15–18 December 2025	IEEE ANTS 2025	IIIT Delhi	Technical partner (logo support); Industry Forum Co-Chair
15–16 December 2025	5th India Spectrum Management Conference (ISMC-25), IAFI	New Delhi	Chairman and DG as speakers
16 December 2025	1st meeting, Stakeholder Advisory Committee for Telecom Research, Standardisation and Innovation (TRSI)	—	DG as speaker
15 January 2026	Voice&Data 5G+ Conference	—	DG panellist: “India's 6G Blueprint: From Vision to 2030 Rollout”



16 January 2026	Communiqué – 15th International Digital and Telecom Seminar	Symbiosis Institute of Digital and Telecom Management, Pune	DG as Chief Guest
23 January 2026	TEDx Amity University	Noida	DG as speaker
24 January 2026	International Conference: “SEPs Speak Louder Than Words” (BITS Law School)	—	DG panellist on IP and Technology Sovereignty
20 February 2026	India AI Impact Summit 2026 (with NASSCOM)	New Delhi	Co-hosted expert panel: “AI at the Core, 6G at the Edge”
2–5 March 2026	Mobile World Congress 2026	Barcelona, Spain	Vice-Chairman participated in Global 6G Industry Alliance Executive Dialogue (GSMA)
5 March 2026	State Visit of President of Finland — India–Finland technology dialogue	New Delhi	Chairman represented B6GA; highlighted 6G Flagship (Oulu University) collaboration
11–12 March 2026	12th Asia-Pacific Spectrum Management Conference	Phnom Penh, Cambodia	DG speaker, Session 7 on shaping the 6G future
17 March 2026	ITU-APT “Preparatory Studies for WRC-27” workshop	Le Méridien, New Delhi	DG as Guest of Honour



Governing Council Meetings and Annual General Meeting

Governing Council Meetings

5th Governing Council Meeting – 11 June 2025

Marked an important leadership transition, welcoming newly elected Chairperson Prof. David Koilpillai and Vice-Chairpersons Prof. Rohit Budhiraja and Dr. Kumar Sivarajan. The Council directed the shift from foundational work to actionable outcomes in research roadmap development, IPR generation, testbed creation, and policy inputs; approved continuation of the Strategic Committee; and approved the IPR Policy, Code of Conduct, Anti-Trust Policy, and the proposed MoU with TSDSI.

6th Governing Council Meeting – 22 August 2025

Reviewed progress since June 2025; the Chairman highlighted the increased intensity of activities and growing recognition of B6GA among national and international stakeholders, with Working Group Chairs presenting updates on their respective activities.

7th Governing Council Meeting – 23 February 2026

Focused on continuity of work after the Working Group elections; outgoing Working Groups presented brief reports and formally handed over to the newly elected Working Groups. The Council noted that WiSig Networks had not renewed its membership and was no longer part of the Governing Council.

Annual General Meeting

3rd Annual General Meeting – 25 March 2026

Held under the chairmanship of Prof. David Koilpillai, attended by Corporate and Affiliate members from industry, academia, research institutions and government stakeholders. Members reviewed the year's key activities and achievements across Working Groups in technology development, spectrum, applications and standardization, and discussed strategic priorities for advancing India's 6G vision, strengthening global collaborations, and enhancing participation in international standard-setting bodies.

The members approved the appointment of a new auditor for FY 2026–27, and endorsed, in principle, the expansion of strategic MoUs with leading international organizations including GTI Alliance, GSMA, VOICE, and partners in the UAE and Africa.



Key Events of the Year – Timeline

The following month-by-month timeline consolidates the principal milestones of the Bharat 6G Alliance during FY 2025–26, drawn from the Alliance's monthly activity reports to the Department of Telecommunications.

Month	Key Events
Apr 2025	Governing Council elections held (16–17 Apr); MoU signed with XGMF, Japan (23 Apr); Rohde & Schwarz Technology Symposium, Bengaluru
May 2025	Chairperson and Vice-Chairpersons elected (22 May); Bharat 6G 2025 Conference & Exhibition; presentation to Secretary, Telecom on SEP/SPF
Jun 2025	Korea–India Joint Workshop (4 Jun); Joint transition Governing Council meeting (11 Jun); IPR/Anti-Trust/Code of Conduct policies approved; TTDF Symposium (19–21 Jun); India–UK Joint Working Group on Future Telecoms (25 Jun)
Jul 2025	Ministerial Review of B6GA, Bengaluru (10 Jul); B6GA–6G SNS-IA Joint Workshop (4 Jul); TSDSI MoU signed (15 Jul); 6G Leadership Tech Talk (24 Jul); draft “Accelerating India's 6G Leadership” report submitted to DoT
Aug 2025	Accelerating India's 6G Leadership recommendations submitted to DoT (11 Aug); 2nd Steering Committee, Bharat 6G Apex Council (12 Aug); National 6G Roadmap 2025-30 submitted (18 Aug); 6th Governing Council meeting (22 Aug); FICCI SEP Conference (23 Aug); NGMN bilateral meeting (21 Aug)
Sep 2025	3rd Steering Committee, Bharat 6G Apex Council — DPR Phase I presented (24 Sep); Ministerial Review of Working Groups, New Delhi (30 Sep); ESA bilateral meeting (23 Sep); Rajagiri 6G workshop (21–27 Sep)
Oct 2025	ESA MoU text agreed, Harwell UK (2 Oct) and signed (8 Oct); International Bharat6G Symposium 2025 and New Delhi Declaration (9–10 Oct); NASSCOM and ESA MoUs signed; four whitepapers released; XGMF event, Japan (15–16 Oct)
Nov 2025	Chairman B6GA delivered a keynote at the IEEE Future Networks World Forum, Bengaluru (11 Nov)
Dec 2025	Technology Demonstrations with ESA/UKI-FNI/UKTIN (11 Dec); Apex Council Meeting and Ministerial Review (9 Dec); DPR and draft Calls for Proposals submitted to DoT (16 Dec); TRSI Stakeholder Advisory Committee (16 Dec); IEEE ANTS 2025 (15–18 Dec); ISMC-25 (15–16 Dec); Working Group Election Notice circulated (1 Dec)
Jan 2026	Working Group Chair/Vice-Chair nominations received (5 Jan); Patent Facilitation Centre survey circulated (23 Jan); Voice & Data 5G+ Conference, Communiqué Pune, TEDx Amity, BITS Law School SEP Conference (mid-late Jan)
Feb 2026	Working Group elections completed (13 Feb); India AI Impact Summit 2026 session with NASSCOM (20 Feb); 7th Governing Council meeting (23 Feb); Review meeting with DDG(SRI) (27 Feb); 104 TTDF-funded 6G R&D projects (₹271 crore) reported to Parliament
Mar 2026	6G Leadership Tech Talks (6 & 19 Mar); India–Finland technology dialogue during State Visit (5 Mar); Mobile World Congress, Barcelona (2–5 Mar); APAC Spectrum Management Conference, Cambodia (11–12 Mar); ITU-APT WRC-27 workshop (17 Mar); 3rd AGM (25 Mar); updated DPR and Calls for Proposals submitted to DoT (31 Mar)



Financial Statement FY 2025–26

The Governing Council approved the audited financial statements and Annual Report for FY 2024–25 at its meeting on 11 June 2025. Audited financial statements specific to FY 2025–26 is as follows:

(Amount in Rs.)

	Particulars	As of 31st March 2026	As of 31st March 2025
I	Sources of Funds		
1	NPO Funds		
(a)	Unrestricted Funds	29,62,867	7,72,557
(b)	Restricted Funds	38,36,133	21,50,000
		67,99,000	29,22,557
2	Non-current liabilities		
(a)	Long-term borrowings	-	-
(b)	Other long-term liabilities	-	-
		-	-
3	Current liabilities		
(a)	Short-term borrowings	-	-
(b)	Sundry Payables	4,49,980	16,939
(c)	Other current liabilities	5,83,423	26,65,150
		10,33,403	26,82,089
	Total	78,32,403	56,04,647
II	Application of Funds		
1	Non-current assets		
(a)	Property, Plant and Equipment and Intangible assets		
(i)	Property, Plant and Equipment	1,70,012	2,83,353
(ii)	Intangible assets	2,44,575	2,13,600
(b)	Non-current investments	-	-
(c)	Long Term Loans and Advances	-	-
		4,14,587	4,96,953
2	Current assets		
(a)	Current investments	-	-
(b)	Inventories	-	-
(c)	Sundry Receivables	13,50,000	10,86,200
(d)	Cash and bank balances	47,68,950	34,88,494
(e)	Short Term Loans and Advances	5,60,500	-
(f)	Other current assets	7,38,366	5,33,000
		74,17,816	51,07,694
	Total	78,32,403	56,04,647



Income and Expenditure for the year ended 31st March 2026

(Amount in Rs.)

	Particulars						
		For the Year ended 31st March 2026 Unrestricted funds	Restricted funds	Total	For the Year ended 31st March 2025 Unrestricted funds	Restricted funds	Total
I	Income						
(a)	Fees from Membership	1,43,76,482	-	1,43,76,482	1,25,51,100	-	1,25,51,100
(b)	Fees from Rendering of Services	-	-	-	-	-	-
II	Other Income	2,25,580	-	2,25,580	1,15,373	-	1,15,373
III	Total Income (I+II)	1,46,02,062	-	1,46,02,062	1,26,66,473	-	1,26,66,473
IV	Expenses:						
(a)	Employee benefits expense	33,67,600		33,67,600	27,05,784	-	27,05,784
(b)	Depreciation and amortization expense	1,94,866		1,94,866	2,42,565	-	2,42,565
(c)	Finance costs	-		-	-	-	-
(d)	Other expenses	71,63,153		71,63,153	67,79,227	-	67,79,227
	Total expenses	1,07,25,620	-	1,07,25,620	97,27,576	-	97,27,576
V	Excess of Income over Expenditure for the year before exceptional and extraordinary items (III-IV)	38,76,443	-	38,76,443	29,38,897	-	29,38,897
VI	Exceptional items	-		-	-	-	-
VII	Excess of Income over Expenditure for the year before extraordinary items (V-VI)	38,76,443	-	38,76,443	29,38,897	-	29,38,897
VIII	Extraordinary Items	-		-	-	-	-
IX	Excess of Income over Expenditure for the year (VII-VIII)	38,76,443	-	38,76,443	29,38,897	-	29,38,897
	Appropriations Transfer to funds	-	-	-	-	-	-
	Transfer from funds	-	-	-	-	-	-
	Balance transferred to General Fund	38,76,443	-	38,76,443	29,38,897	-	29,38,897



Way Forward

Guided by the directions received during the year's ministerial reviews and the deliberations of the Apex Council, Bharat 6G Alliance will continue to strengthen India's 6G ecosystem through collaborative research, innovation, standardization and international partnerships.

During 2026–27, the Alliance will focus on strengthening coordination across its Working Groups, fostering greater collaboration among industry, academia, startups and research institutions, and supporting the implementation of the National 6G Roadmap. It will continue to facilitate collaborative R&D, promote indigenous technology development, expand national testbeds and validation infrastructure, and encourage innovation across priority technology areas.

A key priority will be to enhance India's leadership in global standards development by deepening participation in organisations such as 3GPP, ITU, TSDSI, O-RAN Alliance and other international forums. The Alliance will also continue to strengthen international cooperation through strategic partnerships and collaborative initiatives with leading global 6G organisations.

Building on the guidance received from the Government, Bharat 6G Alliance will support national initiatives aimed at accelerating advanced telecommunications research and innovation, including facilitating collaborative programmes and proposals aligned with national priorities.

As India progresses towards commercial 6G deployment, Bharat 6G Alliance remains committed to its founding purpose of enabling the nation to move from being a technology consumer to a technology creator, and ultimately a global leader in 6G innovation and standardization. Through sustained collaboration and ecosystem development, the Alliance will contribute to the Hon'ble Prime Minister's vision of a Viksit Bharat by 2047, while positioning India as a trusted global partner in next-generation telecommunications.



List of Bharat 6G Alliance Members

S.No	Organization Name
1	Advaya Networks Private Limited
2	Amantya Technologies Private Limited
3	Ananant Systems Private Limited
4	Astrome Technologies
5	Bharti Airtel Limited
6	Bitgreen Technolabz(OPC) Private Limited
7	Bosch Global Software Technologies Private Limited (BGSW)
8	Broadband India Forum/ Internet Protocol Television Society
9	Caze Labs Private Limited
10	Centre For Development of Telematics
11	Centre of Excellence In Wireless Technology, IIT Madras (Cewit IITM)
12	Cisco Systems India Private Limited
13	Cohere Technologies
14	Coral Telecom Limited
15	CoreData Networks Private Limited
16	Cosgrid Networks
17	Dhruva Space Private Limited
18	Dr. Babasaheb Ambedkar Technological University, Lonere.
19	Dyotis Technologies
20	Echelon Edge Private Limited
21	Elena Geo Tech Private Limited
22	Ericsson India Private Limited
23	Finaara Technologies Private Limited
24	Free Stream Technologies Private Limited
25	HFCL Limited
26	Hnnoix India Private Limited
27	IIIT Naya Raipur
28	IIITB Comet Foundation
29	Iktara Data Sciences Private Limited
30	Indian Institute of Technology Kharagpur
31	Indian Institute of Science
32	Indian Institute of Technology Bombay
33	Indian Institute of Technology Kanpur
34	Indian Institute of Technology Madras
35	Indian Institute of technology Patna
36	Indian Institute of Technology Roorkee
37	Indraprastha Institute of Information Technology Delhi(IIIT-Delhi)
38	Innogle Technologies Private Limited
39	Jio Platforms Limited
40	Keysight Technologies India Private Limited
41	Lekha Wireless Solutions Private Limited
42	Logic Fruit Technologies Private Limited
43	Nanocell Networks Private Limited
44	Narnix Edge Private Limited
45	Nav Wireless Technologies Private Limited
46	Niral Networks Private Limited
47	Nivetti Systems Private Limited
48	Nokia Solutions And Networks India Private Limited
49	OptimusLogic Systems India Private Limited
50	Qualcomm India Private Limited
51	Resonous Technologies Private Limited
52	Rohde & Schwarz India Private Limited
53	Sameer
54	Shah And Anchor Kutchhi Engineering College
55	Signalchip Innovations Private Limited
56	SMPS Electric Control Private Limited
57	Sooktha Consulting Private Limited
58	Tata Consultancy Services Limited
59	Tech Mahindra Limited
60	Techphosis Private Limited
61	Tejas Networks Limited
62	Telecommunications Consultants India Limited (TCIL)
63	Thiagarajar College of Engineering
64	VIAVI Solutions India Private Limited
65	VVDN Technologies Private Limited
66	Vyom Digital Services Private Limited
67	XIUS Corp Private Limited



Annex 1: Apex Council Bharat 6G Mission

Apex Council -Bharat 6G Mission

An Apex Council is constituted as follows to lay down the Phase-wise objectives of the Bharat 6G Mission, consult the Bharat 6G Alliance, suggest the research and innovation pathways to be explored, review the progress from time to time, order external evaluations and suggest course corrections.

Sl No.	Designation/Organisation	Position
1	Hon'ble Minister for Communications	Chair
2	Hon'ble Minister of State for Communications	Vice Chair
3	Prof Arogyaswami J. Paulraj, <i>Stanford University</i> ,	Member
5	Mr. N G Subramaniam, COO TCS	Member
6	Principal Scientific Adviser to PM	Member
7	Secretary, Telecom	Member
8	Secretary, MeitY	Member
9	Secretary, DRDO	Member
10	Secretary, Space	Member
11	Secretary, MIB	Member
12	Additional Secretary, Telecom	Member
13	Signal Officer in Chief, MoD	Member
14	National Cyber Security Coordinator	Member
15	Chairman, TSDSI	Member
16	Chairman, COAI	Member
17	Academic Researcher - of Bharat 6G Alliance	Member
18	R&D Lab rep- of Bharat 6 G Alliance	Member
19	Industry Rep- of Bharat 6 G Alliance	Member
20	Startup Rep- of Bharat 6 G Alliance	Member
21	CEO CDOT	Member
22	Mission Head - Bharat 6G Mission	Member- Secretary

Chairperson may co-opt any other member as deemed necessary.



Annex 2: Steering Committee under Bharat 6G Apex Council

Steering Committee under Bharat 6G Apex Council

For effective monitoring and implementation of Apex Council directions, the following Steering Committee under Bharat 6G Apex Council is constituted:

Sl No.	Designation/Organisation	Position
1	Secretary, Telecom	Chairperson
2	Member, Technology	Member
3	Additional/Special Secretary, Telecom	Member
5	WA, WPC	Member
6	Sr.DDG/Advisor, TEC	Member
7	Joint Secretary level officer, MeitY	Member
8.	Joint Secretary level officer, DRDO	Member
9	Joint Secretary level officer. Space	Member
10	Joint Secretary level officer –O/o Signal Officer in Chief, MoD	Member
11	Joint Secretary level officer, DST or repr of National Research Foundation	Member
12	Chairman, Bharat 6G Alliance	Member
13	Chairman, TSDSI	Member
14	DG, COAI	Member
15	CEO, CDOT	Member
16	Sr Prof or Dir of two IITs/IIITs doing work in 6G	Member
17	Mission Head - Bharat 6G Mission	Member- Secretary

Chairperson may co-opt any other member as deemed necessary.



Annexure C: Abbreviations

Abbreviation	Full Form
3GPP	3rd Generation Partnership Project
AGM	Annual General Meeting
AI/ML	Artificial Intelligence / Machine Learning
ASIC	Application-Specific Integrated Circuit
B6GA	Bharat 6G Alliance
CFP	Call for Proposals
C-DoT	Centre for Development of Telematics
DoT	Department of Telecommunications
DPR	Detailed Project Report
ESA	European Space Agency
FR3	Frequency Range 3 (7–24 GHz, mid-band)
FWA	Fixed Wireless Access
GC	Governing Council
IMT-2030	International Mobile Telecommunications 2030 (ITU 6G framework)
IPR	Intellectual Property Rights
ISAC	Integrated Sensing and Communication
ITU	International Telecommunication Union
MoI	Memorandum of Intent
MoU	Memorandum of Understanding
NTN	Non-Terrestrial Networks
O-RAN	Open Radio Access Network
RIS	Reconfigurable Intelligent Surfaces
SEP	Standard Essential Patent
SPF	Sovereign Patent Fund
TSDSI	Telecommunications Standards Development Society, India
TTDF	Telecom Technology Development Fund
WRC-27	World Radiocommunication Conference 2027



10/22/25, 10:12 AM

Press Release: Press Information Bureau

Ministry of Communications



Leading 6G Alliances and Research Institutions issue a Joint Statement reaffirming a shared commitment to shape the future of 6G as a global public good

Commitment to Shape the Next Generation of Wireless
Communication as Secure, Open, Resilient, Inclusive, and
Sustainable by Design

The New Delhi Declaration establishes 6G as a shared
global endeavour, built on collaboration, transparency, and
mutual trust

Partners committed to ensuring that 6G evolves as a global
public good—empowering every nation, enterprise, and
citizen through accessible and affordable connectivity

Posted On: 11 OCT 2025 5:01PM by PIB Delhi

At the International Bharat6G Symposium 2025, held alongside India Mobile Congress 2025, leading global research alliances "Bharat 6G, 6G Smart Networks and Services Industry Association (6G-IA), ATIS' Next G Alliance, XGMF, 6G Forum, 6G Brazil, UKI-FNI, UK TIN, UK Federated Telecoms Hubs (CHEDDAR, HASC, JOINER & TITAN), and 6G Flagship " came together to issue a Joint Statement reaffirming a shared commitment to shape the future of 6G as a global public good.



Spectrum Roadmap for 6G in India

OCTOBER 2025
VERSION 2.0

Powering the Next-Gen Telecom

Towards energy efficiency in 6G Macro and
Small cell deployments

OCTOBER 2025
VERSION 2.0

AI and Network Evolution to 5G Advanced and 6G

Native AI, Infrastructure Implications, and Global-India
Perspectives

OCTOBER 2025
VERSION 1.0

6G Data Architecture, Security and Exposure Framework for RF Sensing

OCTOBER 2025
VERSION 1.0

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