

tsds
India's Telecom SDO

Telecommunications
Standards Development
Society, India





WHO ARE WE?

TSDSI is an autonomous, membership based, standards development organization (SDO) for Telecom/ICT products and services in India. We develop standards for access, core, back-haul and infrastructure systems, solutions and services that best meet India specific Telecom/ICT needs, based on research and innovation in India.

We work closely with global standards' bodies to reflect Indian requirements into International Telecom/ICT standards. Department of Telecommunications & Ministry of Electronics and Information Technology, Govt. of India are jointly supporting TSDSI as India's Telecom/ICT SDO.

OUR VISION

"To ensure that Digital Communication Standards increasingly drive domestic economic and policy activities and enhance India's competitiveness for ICT goods and services in global markets. It aims to do this by creating a leadership position through India's participation and contribution to emerging digital communication standards in global SDOs".

OUR OBJECTIVES

Developing, promoting and standardizing India-specific Telecom/ICT requirements and solutions taking Indian requirements to Global Standards organizations; providing a platform to declare IP and commit sharing on FRAND terms; helping create standards based manufacturing expertise in the country; providing guidance and leadership to developing countries.

OUR PHILOSOPHY

Follow a consensus-based approach, enforcing a methodical and transparent, open-to-all-members (Industry, Government and Academia) process while generating standards. Adhere to the principles of Openness, Transparency, Fairness, Consensus and due Process in conducting its activities. Maintain technology neutrality and provide a uniform playing field for its members. Represent the views of our members to DoT and other Government bodies on matters concerning policy, regulatory and Standardisation issues in the field of Telecom.



TSDSI has a sound Intellectual Property Rights (IPR) policy in place. Scan the QR code to view it.

Our Membership

TSDSI attracts members from all sections of Telecom/ICT ecosystem of the country classified into 11 Verticals. Representatives of Government Departments also participate in the activities of TSDSI.



Manufacturers with Indian IP



Domestic Manufacturers



Telecom Service Providers



Other Service Providers



Developers of Application Solution/Service Platform



Semiconductor components designer/manufacturer



Manufacturers of Mobile Device/CPE End User Devices



R&D Organizations



Academic Institutions



Government Department/Autonomous bodies



Others

There are 3 different types of memberships, namely, corporate, associate and guest members/observers. Key Industry Associations are associate members of TSDSI. We also welcome foreign companies and industry associations, especially those from emerging economies, to join TSDSI to bring the perspectives of their geographies.



Scan the QR code to view our membership categories



Scan the QR code to view our current members

Organization Structure

TSDSI is registered as a Society under Societies Registration Act, 1860. It is a membership-based organization. The General Body (GB), constituting the authorized representatives of all member organisations of TSDSI, is the apex decision making body.

The General Body elects a Governing Council (GC) which acts on behalf of the General Body to steer TSDSI Activities. The GC has members from each membership category to make it as representative as possible. It also includes nominees from DoT, MeitY and BIS. Only corporate members can elect and seek election to the membership of the Governing Council. Each Corporate member has one vote which is exercised by its authorised representative. The General Body also elects a Chair and a Vice Chair to preside over the GB and the GC meetings. Specialised Committees of the GC oversee various activities/initiatives.

A member organization can participate in any technical activity through its representatives. These technical activities are carried out in specific study groups.

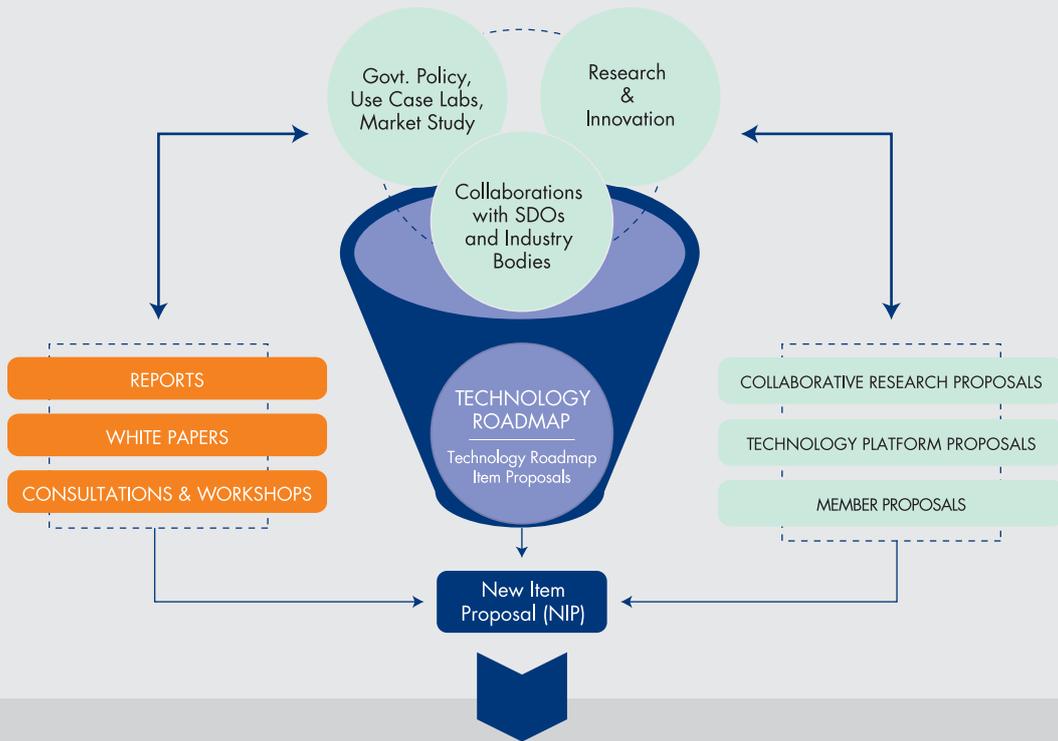
The work of a Study Group may be carried out in dedicated working groups. Study Groups and their constituent Work Group(s) have a Chair and a Vice Chair each, elected in their individual capacities to conduct the activities of the group.

All technical standards developed by the technical groups have to be approved by the General Body.

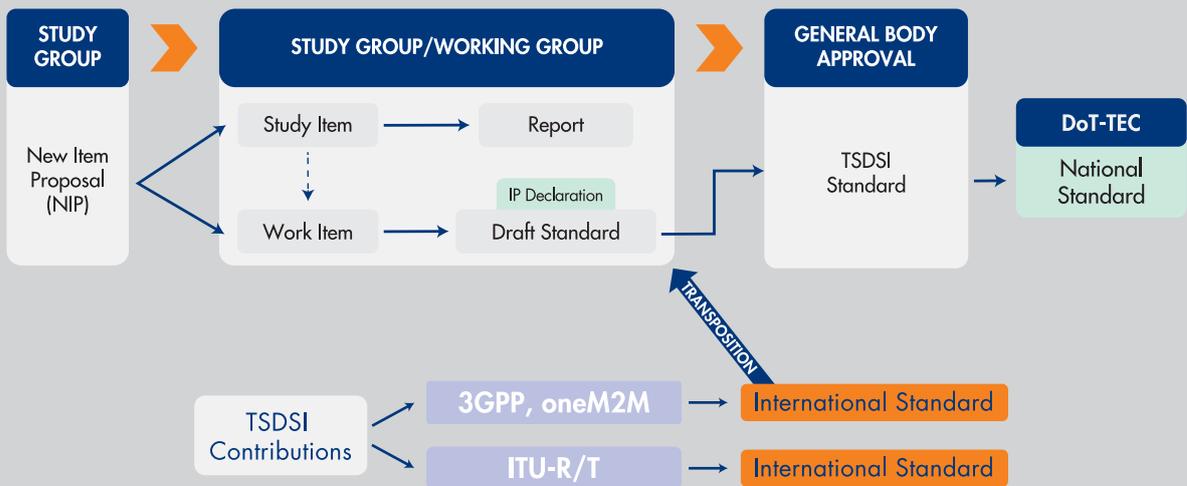
A Secretariat, headed by Director General (DG), supports the technical groups in carrying out their activities, manages member services, partnerships and alliances on behalf of TSDSI and takes care of the overall functioning of the society.

Standardisation @ TSDSI

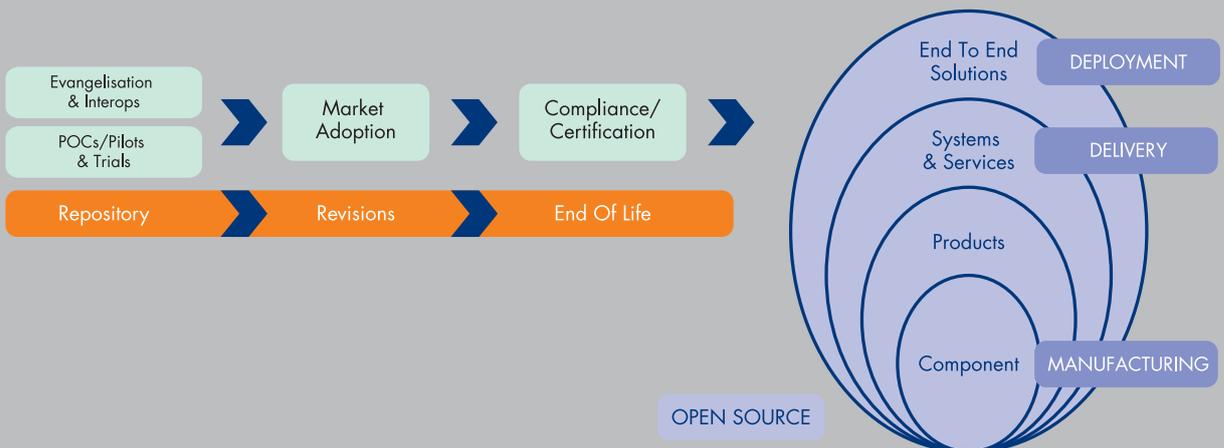
PRE-STANDARDISATION



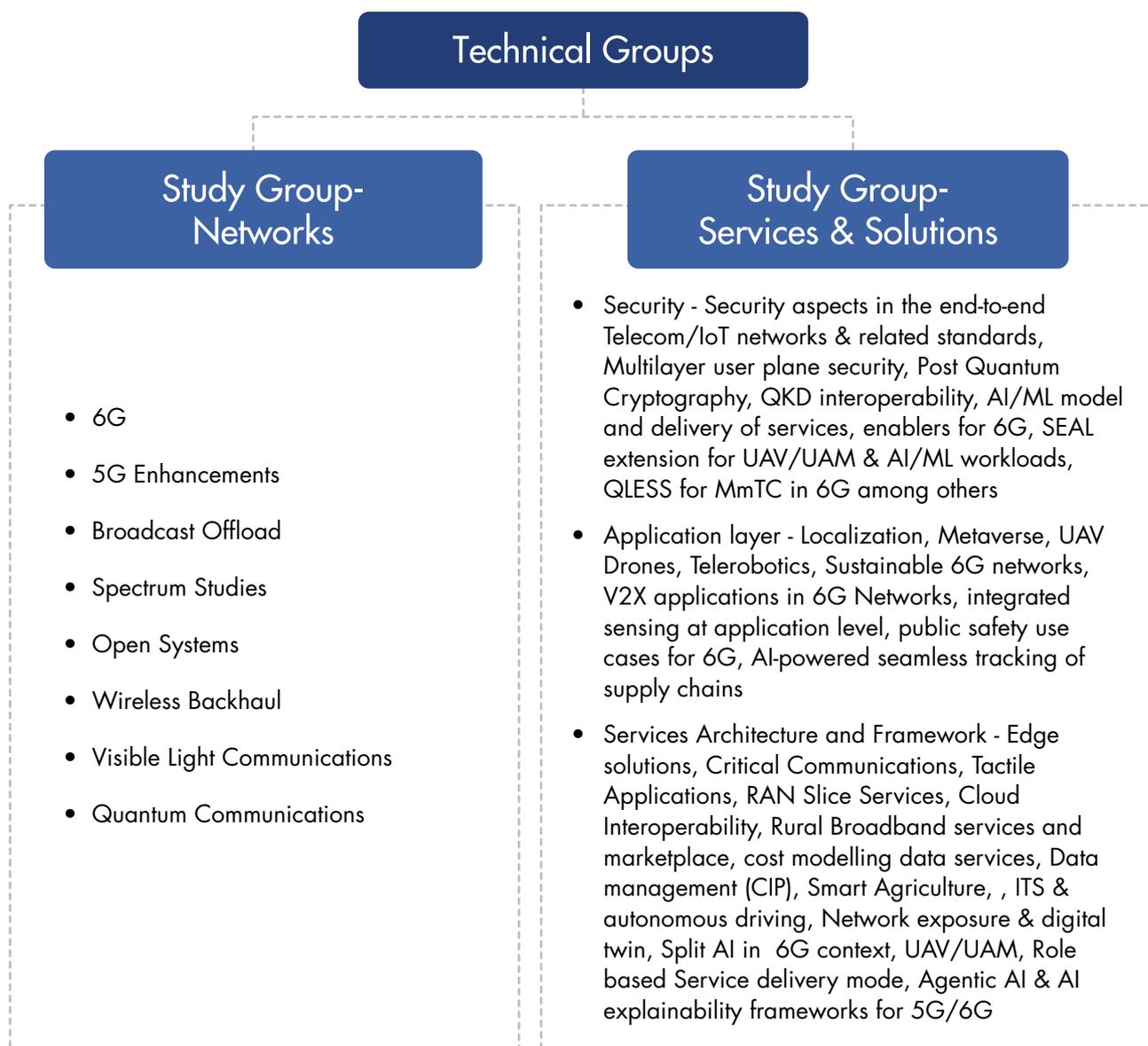
STANDARDISATION



POST-STANDARDISATION

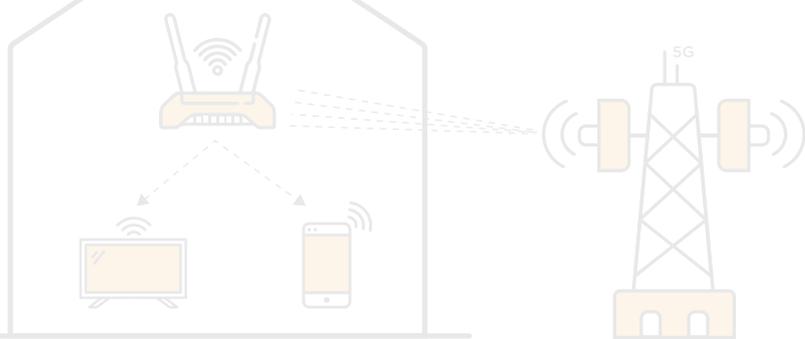


Technical Organisation



Standing Committees on Roadmap and Standardization & Transposition to focus on Pre-Standardisation and Standardisation related strategic matters have been formed under the Governing Council.

- Roadmap Committee published the Standardisation Roadmap 3.0 (<https://tsdsi.in/roadmap/>) for the period 2024-2026. The committee sets up "Technology Roadmap Item Proposal (TRIP)" forums to facilitate engagement with the community on technology topics that may have the potential for developing standards.
- The Standardisation and Transposition Committee oversees TSDSI's Standardization Strategy. It drives engagement with global SDOs and startups, and is spearheading initiatives to promote Standards Driven Research (SdDR). The committee is supported by various task forces and focus groups constituted from time to time.



Scan the QR code to view
Terms of Reference of the Study Groups

Partnerships & Alliances

TSDSI is focussing on strategic engagements with ecosystem players/entities of interest to 5G/Roadmap/Standardisation

Our Ecosystem

Alliances



Organisational Partner of 3GPP (3gpp.org)



Member of Global Standards Collobaration

Partnership

Adoption Agreements

- The Institute of Electrical and Electronics Engineers Standards Association (IEEE-SA)
- Advanced Television Systems Committee (ATSC)

Co-operation Agreements

- European Telecommunications Standards Institute (ETSI)

MoUs

- 6G Brasil
- 6G Smart Networks and Services Industry Association (6G-IA)
- Advanced Television Systems Committee (ATSC)
- African Telecommunications Union (ATU)
- Bharat 6G Alliance (B6GA)
- Broadband India Forum (BIF)
- Fiware Foundation
- Global Certification Forum (GCF)
- Malaysian Technical Standards Forum Bhd (MTSFB)
- ORAN Alliance
- The Institute of Electrical and Electronics Engineers Standards Association (IEEE-SA)
- Taiwan Association of Information and Communication Standards (TAICS), Taiwan
- Telecommunications Technology Association (TTA), Korea
- Telecommunications Industry Association (TIA), US
- Wireless World Research Forum (WWRF)

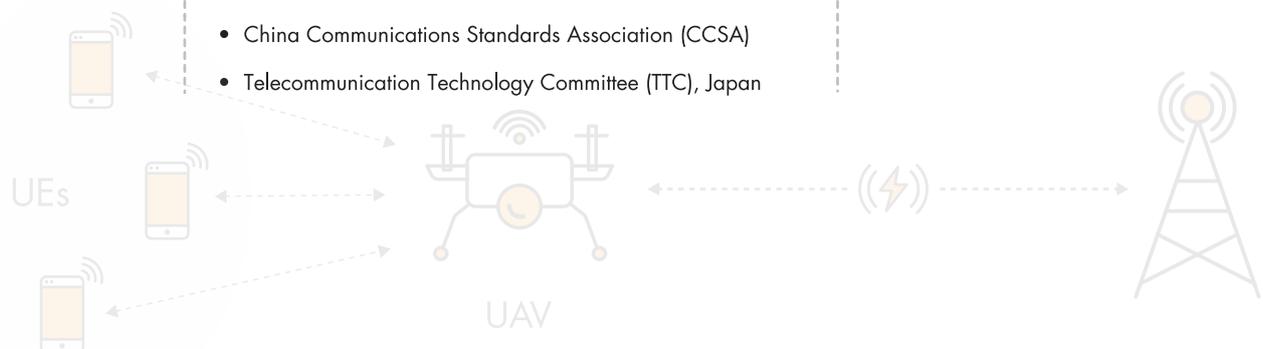
Letter of Intent to Co-operate

- Association of Radio Industries and Businesses (ARIB), Japan
- Alliance for Telecommunications Industry Solutions (ATIS), US
- China Communications Standards Association (CCSA)
- Telecommunication Technology Committee (TTC), Japan

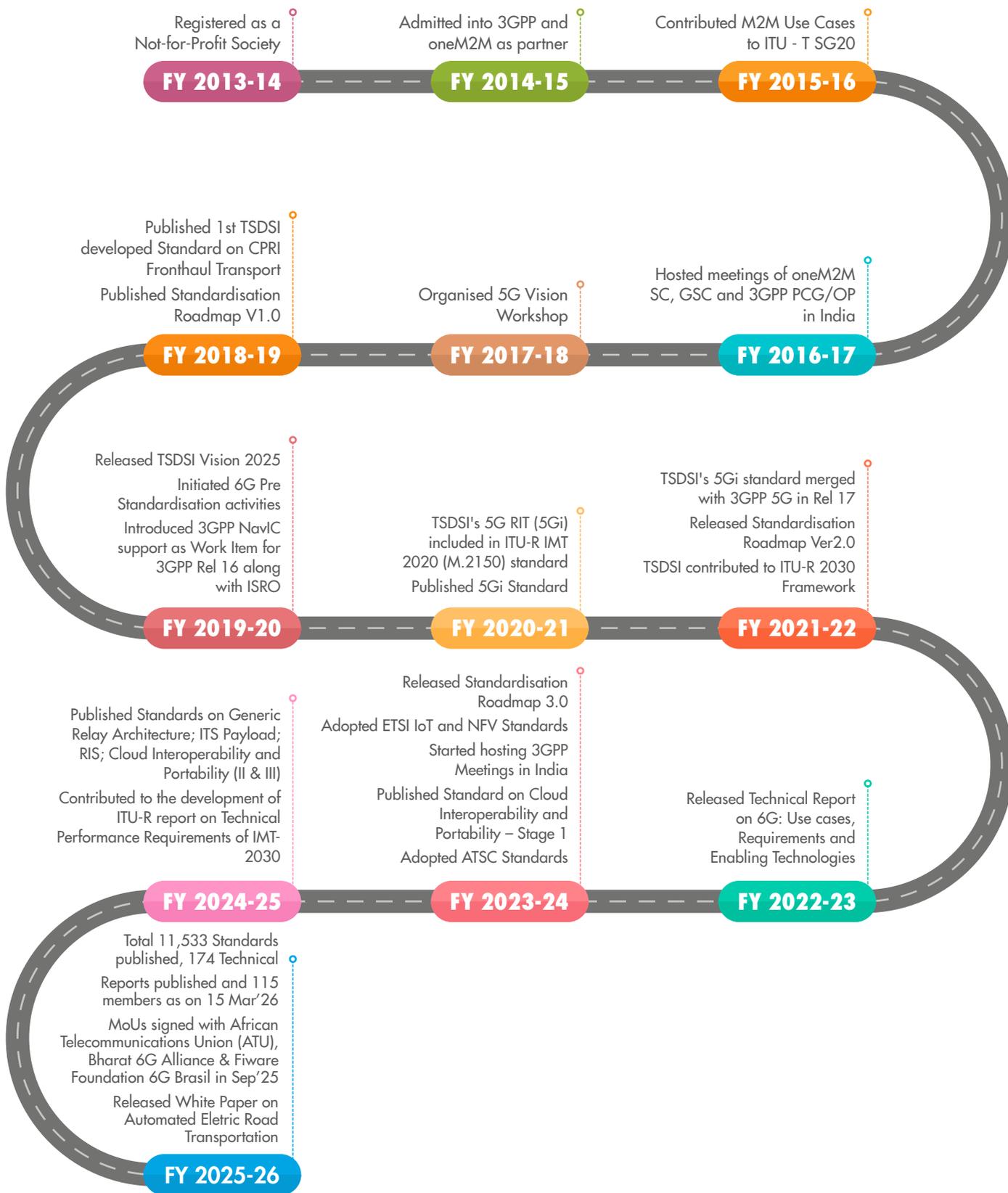
Regional Co-operation

5G Multilateral MoU

Between
IMT2020 PG (China),
6G-IA (Europe), 6G Forum (Korea)
XGMF (Japan), 6G Brasil and TSDSI for
organizing "Global 5G Events"



Journey So Far



Organization Structure

General Body

Chair	Satish Jamadagni
Vice Chair	Suresh Chitturi
Treasurer	-

Secretariat

Director General	AK Mittal
Technical Activities	AK Mittal, Vijay Madan
Operations	Kuljit Singh
MARCOM & Partner Relations	Bindoo Srivastava

Governing Council (21 elected members + 9 Govt. nominees)

Click <https://tsdsi.in/6th-governing-council/> to view the list of Governing Council members

Technical Groups

Study Group-Networks

Chair	Abhijeet Abhimanyu Masal
Vice Chair	Sonali Garg

Study Group-Services & Solutions

Chair	Niranth Amogh
Vice Chair	Gomathy Padmanabha

Join Us

An organization can join TSDSI as per the eligibility criteria listed below:

Membership type	Membership type	Privileges
CORPORATE MEMBER	Entities registered in India and engaged in Telecom related activities	<ul style="list-style-type: none">• Participate in and Contribute to Technical Activities• Participate in Decision making and voting• Eligible to hold office bearer positions
ASSOCIATE MEMBER	Industry Associations, Foreign Entities, Foreign Industry Associations	<ul style="list-style-type: none">• Participate in and Contribute to Technical Activities
GUEST MEMBER	Organizations who wish to explore the need for becoming a member before taking up Corporate or Associate Membership, can be granted, on request Guest Membership for a period of 6 months.	<ul style="list-style-type: none">• Participate in Technical Activities and contribute by invitation



Telecommunications Standards Development Society, India

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