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# *THIRD GENERATION PARTNERSHIP PROJECT 2 (3GPP2)*

## *PARTNERSHIP PROJECT DESCRIPTION*

**ARIB, CWTS, TIA, TTA and TTC**

**Framework Document**

# *Preamble*

**Standards organizations and other related bodies have agreed to co-operate for the production of a complete set of globally applicable Technical Specifications for a 3rd Generation Mobile System based on the evolving ANSI-41 core network and the radio access technologies supported by 3GPP2 partners.**

**The Project is entitled the "Third Generation Partnership Project 2" may be known by the acronym "3GPP2."**

**3GPP2 has been established for the preparation and maintenance of the specifications, and is not a legal entity and is non-profit making.**

# *3GPP2 Overview*

**3GPP2 will provide globally applicable Technical Specifications for a 3rd Generation Mobile System based on the evolving ANSI-41 core network, and the relevant Radio Access technologies to be transposed by standardization bodies (Organizational Partners) into appropriate deliverables (e.g., standards).**

# *Scope and objectives (1)*

**The Technical Specifications will be developed in view of global roaming and circulation of terminals.**

**The 3rd Generation Mobile System and its capabilities will be developed in a phased approach. 3GPP2 will prepare, approve and maintain the necessary set of Technical Specifications and Technical Reports for a 3rd Generation Mobile System including:**

- **cdma2000 and its enhancements**
- **A 3G Core Network evolved from ANSI-41 (Third Generation networking capabilities that include mobility management and global roaming.)**
- **A 3G Network based on Internet Protocol that includes support for network and mobile station interoperability with the 3G Network evolved from ANSI-41.**
- **Interface of 3GPP Radio Access technology to 3G Core Network evolved from ANSI-41**
- **Interface of 3GPP2 Radio Access Technology to a 3G Core Network evolved from GSM-MAP**
- **Wireless Packet Data Networking**
- **A-Interface**
- **Services and Systems Aspects**

## *Scope and objectives (2)*

**The set of global Technical Specifications and Technical Reports for a 3G Core Network evolved from ANSI-41 and for ANSI-41 Core Networks should be common to the largest extent possible.**

**The results of the 3GPP2 work will form the basis of member contributions to the ITU in accordance with existing procedures.**

**3GPP2 will take account of emerging ITU recommendations on interworking between IMT-2000 family members.**

**In the framework of agreed relationships, 3GPP2 will elaborate Technical Specifications and Technical Reports that will form the basis of standards, or parts of standards, of the Organizational Partners.**

## *Characteristics of 3GPP2 (1)*

**3GPP2 is characterized by the following attributes:**

- **Minimum production time for Technical Specifications from conception to approval**
- **Fast, electronic based approval process**
- **Maximum use of modern (electronic) working methods**
- **Minimum number of hierarchical levels with decision making taking place at the lowest appropriate levels**

## *Characteristics of 3GPP2 (2)*

- **A Steering Committee function and a Technical Specification function**
- **Task oriented, ensuring that on completion of the tasks the future of the project is re-evaluated**
- **Cost effective use of financial/human resources provided by Organizational Partners**

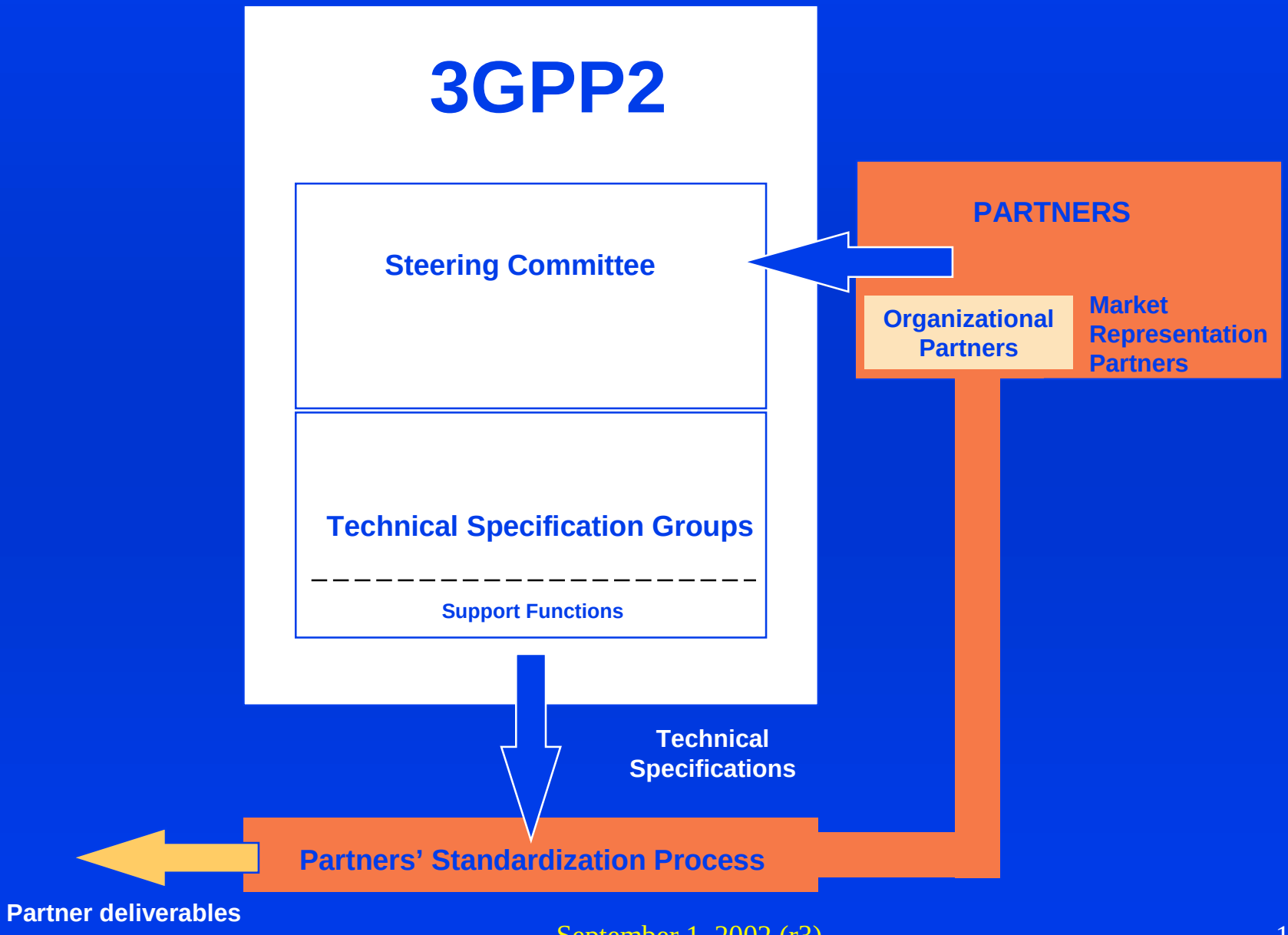
## *Partnership and Membership*

**3GPP2 is open for membership to any standards organization, irrespective of its geographical location.**

**Membership is categorized as follows:**

- **A Partner:**
  - **Organizational Partner**
  - **Market Representation Partner**
- **An Individual Member**

# *Organizational Partners*



# *Organizational Partners (1)*

**An Organizational Partner is:**

**An open standards organization with a national, regional or other officially recognized status (in their country or region) that:**

- **has the capability and authority to define, publish or set standards nationally or regionally and**
- **has signed (or whose sponsor* has signed) the Partnership Project Agreement**

**Organizational Partners may meet as appropriate and make decision by unanimous consent.**

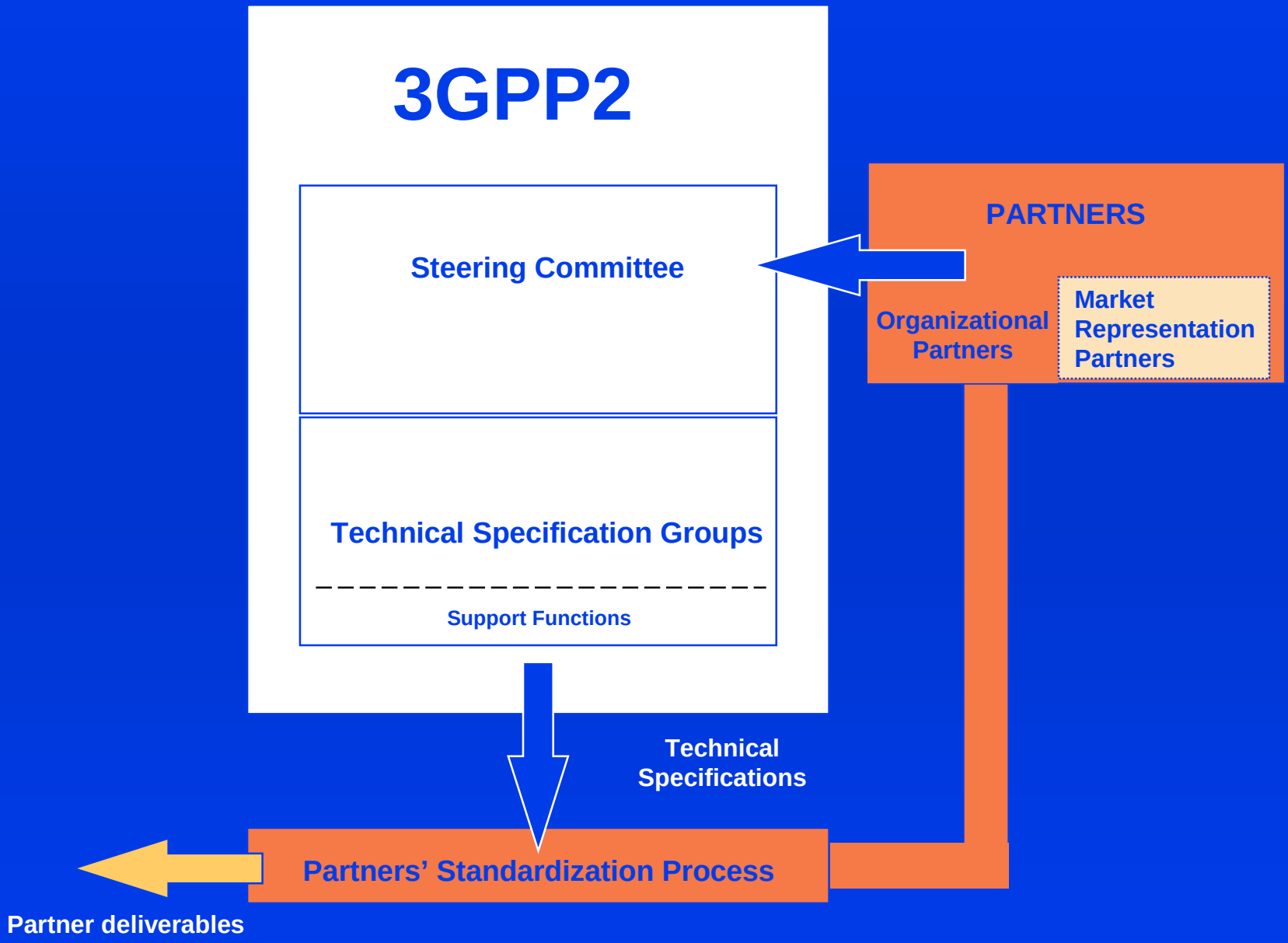
* A standards formulating organization may operate under the auspices of a sponsor such as TIA is the sponsor of TR45 and TR46.

## *Organizational Partners (2)*

**The Organizational Partners of 3GPP2 will have:**

- **Joint ownership (including copyright) of the Technical Specifications**
- **The right to change the 3GPP2 Partnership Project Agreement (PPA)**
- **The right to dissolve the 3G Partnership Project 2**
- **The right to validate new Partners to 3GPP2**
- **Approval of Organizational Partner funding requirements**

# *Market Representation Partners*



## *Market Representation Partners*

**Standardization should meet market needs.**

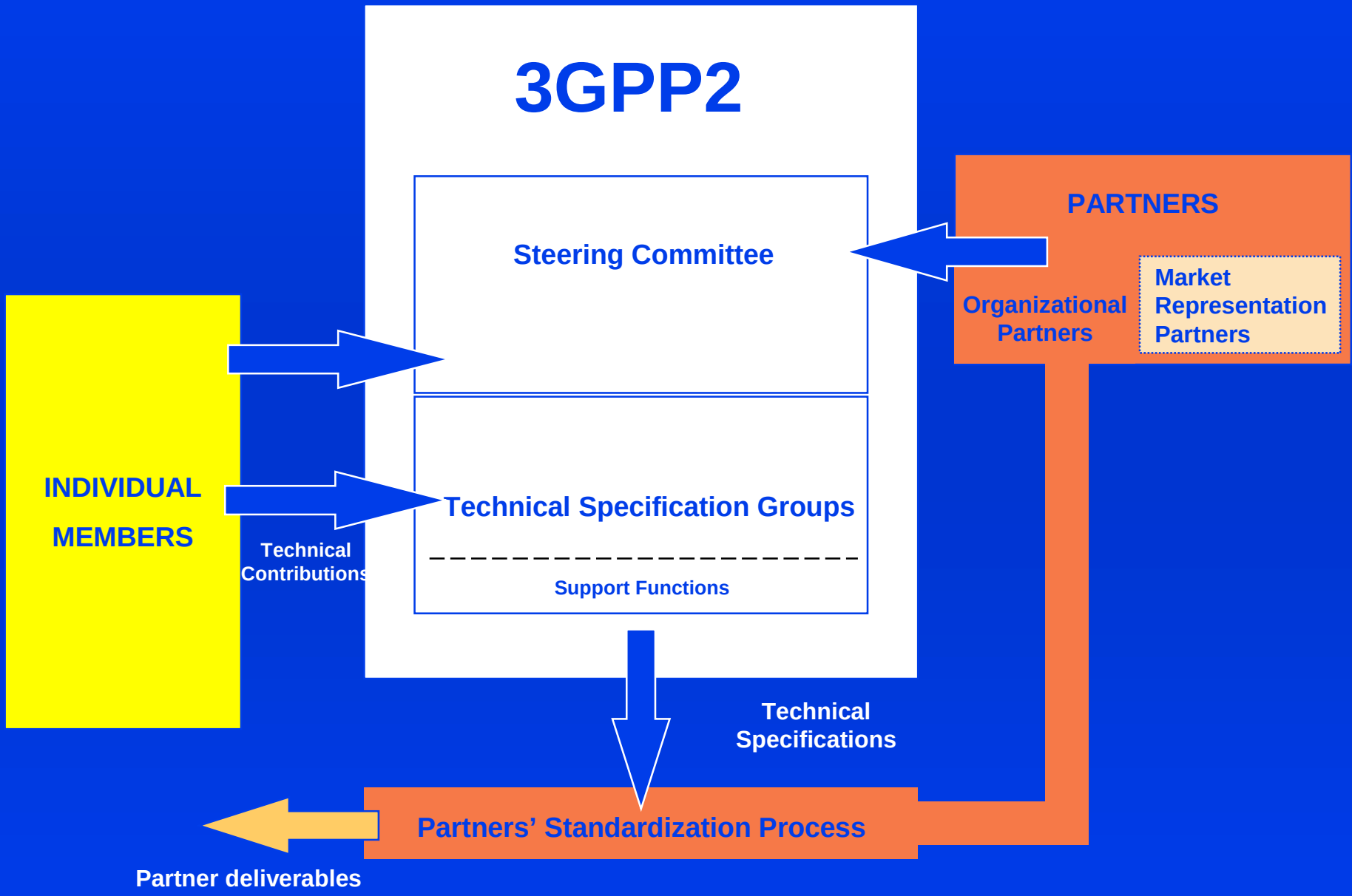
**In order to identify market requirements, the high competence of Market Representation Partners should be used.**

**A Market Representation Partner is an organization which has the ability to offer market advice to 3GPP2 and to bring into 3GPP2 a consensus view of market requirements (e.g. services, features and functionality) falling within the 3GPP2 scope.**

**A Market Representation Partner:**

- **does not have the capability and authority to define, publish or set standards nationally or regionally**
- **has signed (or whose sponsor has signed) the Partnership Project Agreement**
- **has committed itself to all or part of the 3GPP2 scope**

# *Individual Members*



## *Individual Members (1)*

**Membership in an Organizational Partner is a pre-requisite for Individual Membership of 3GPP2.**

**Individual Membership is open to legal entities committed to:**

- **contribute technically or otherwise to one or more of the Technical Specification Groups within the 3GPP2 scope**
- **use the 3GPP2 results to the extent feasible**
- **support the Terms of Reference of 3GPP2 to which their Organizational Partner is committed**

## *Individual Members (2)*

**All entities registered as members of an Organizational Partner and eligible for participation in the technical work of that Partner, can become Individual Members of 3GPP2. Individual members shall apply to their Organizational Partner to participate in 3GPP2.**

**Individual Members act in the 3GPP2 in their own right; they carry the full responsibility for their contributions.**

**Individual Membership applicants residing in a country/area without an Organizational Partner can apply for membership to an existing Organizational Partner in order to become a member of 3GPP2.**

# *Observership*

**In order to ensure globally applicable Technical Specifications, the status of "Observer" may be granted by the Organizational Partners to an entity which has the qualifications to become a future Organizational Partner. Observers are expected to:**

- **identify as early as possible any regulatory requirements that may lead to options within Technical Specifications;**
- **make their IPR policy available for consideration;**
- **contribute to the common objective of the 3GPP2 and avoid duplication of work related to 3GPP2**

**Specific participation rights of an Observer will be decided on a case-by-case basis by the Organizational Partners.**

# *Guests*

**In order to ensure globally applicable Technical Specifications, the status of “Guest" may be granted for a limited period, by the Organizational Partners to an entity which has the qualifications to become a future Individual Member. The limited period granted to the Guest will be decided on a case-by-case basis by the Organizational Partners.**

**Guests may:**

- **Have representatives at TSG and subtending group meetings;**
- **Have representatives participate in discussions, receive and contribute documents but may not take part in decision making or hold any leadership position**

**3GPP2 requires the following 3 documents:**

- **The Partnership Project Agreement (PPA)**
- **The Partnership Project Description (PPD) (this present document)**
- **The Partnership Project Working Procedures Document (WPD)**

## *The Partnership Project Agreement (1)*

**The Partnership Project Agreement is a concise legal document signed by participating Partners (or their sponsor).**

**It contains the minimum legal text necessary for 3GPP2 to function correctly.**

**The Partnership Project Agreement refers to the Partnership Project Description and the Partnership Project Working Procedures.**

## *The Partnership Project Agreement (2)*

**The Partnership Project Agreement includes obligations on Partners to commit themselves to the 3GPP2 scope:**

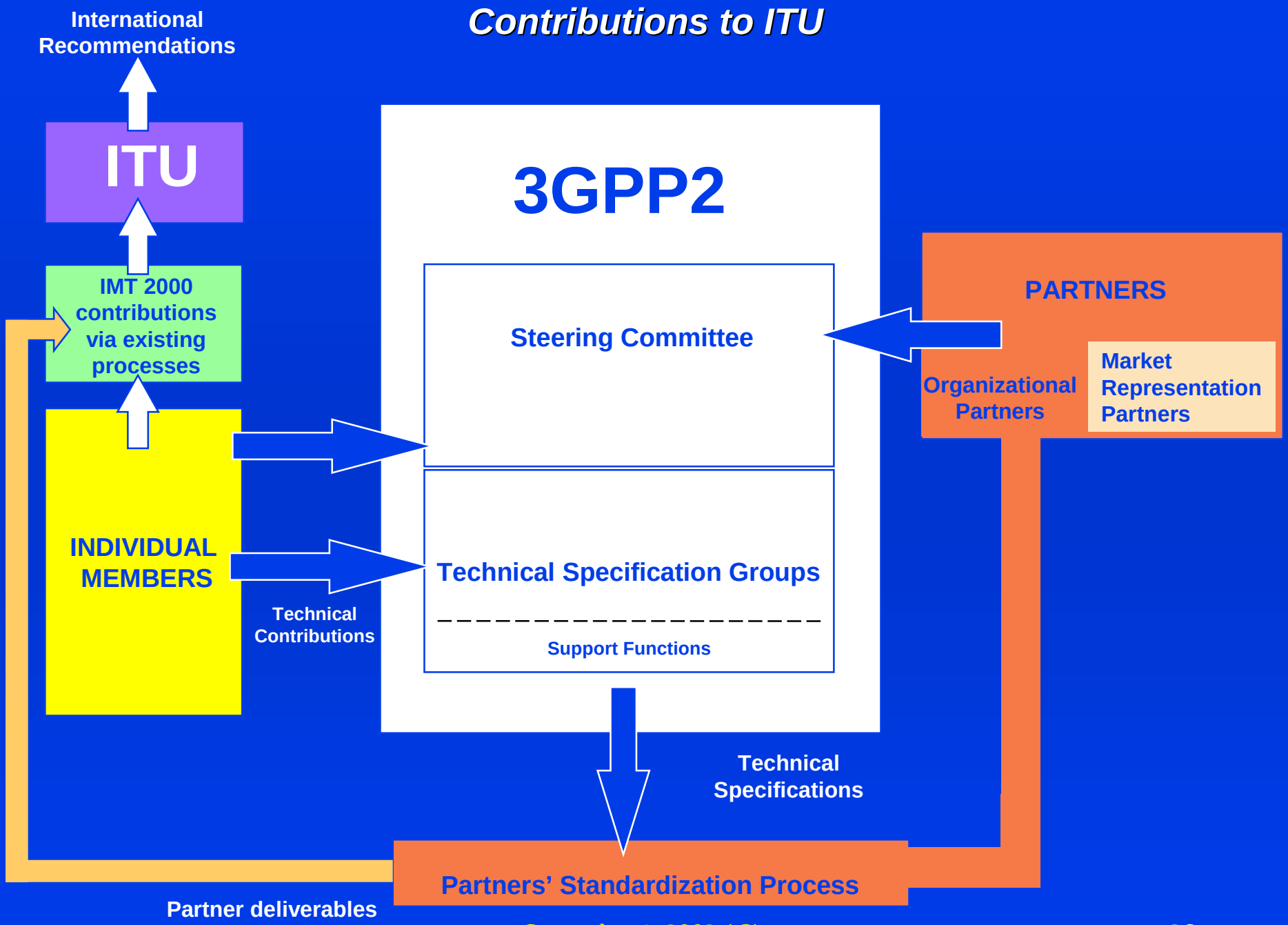
- **to encourage their members to contribute to the common set of Technical Specifications and to avoid duplication of work**
- **to convert / transpose / adopt all relevant Technical Specifications resulting from 3GPP2 into their own relevant deliverables through their normal processes**
- **to identify as early as possible, any national / regional regulatory requirements that may lead to options within the Technical Specifications**
- **to make their IPR Policy available for consideration**

## *The Partnership Project Agreement (3)*

**The Partnership Project Agreement includes obligations on Market Representation Partners to commit themselves to the 3GPP2 scope:**

- **to encourage their members to contribute to the common objectives of 3GPP2 and to avoid duplication of work**
- **to promote 3GPP2**
- **to identify as early as possible, any national / regional regulatory requirements that may lead to options within the Technical Specifications**
- **to define 3GPP2 System and Service scenarios**

# Contributions to ITU

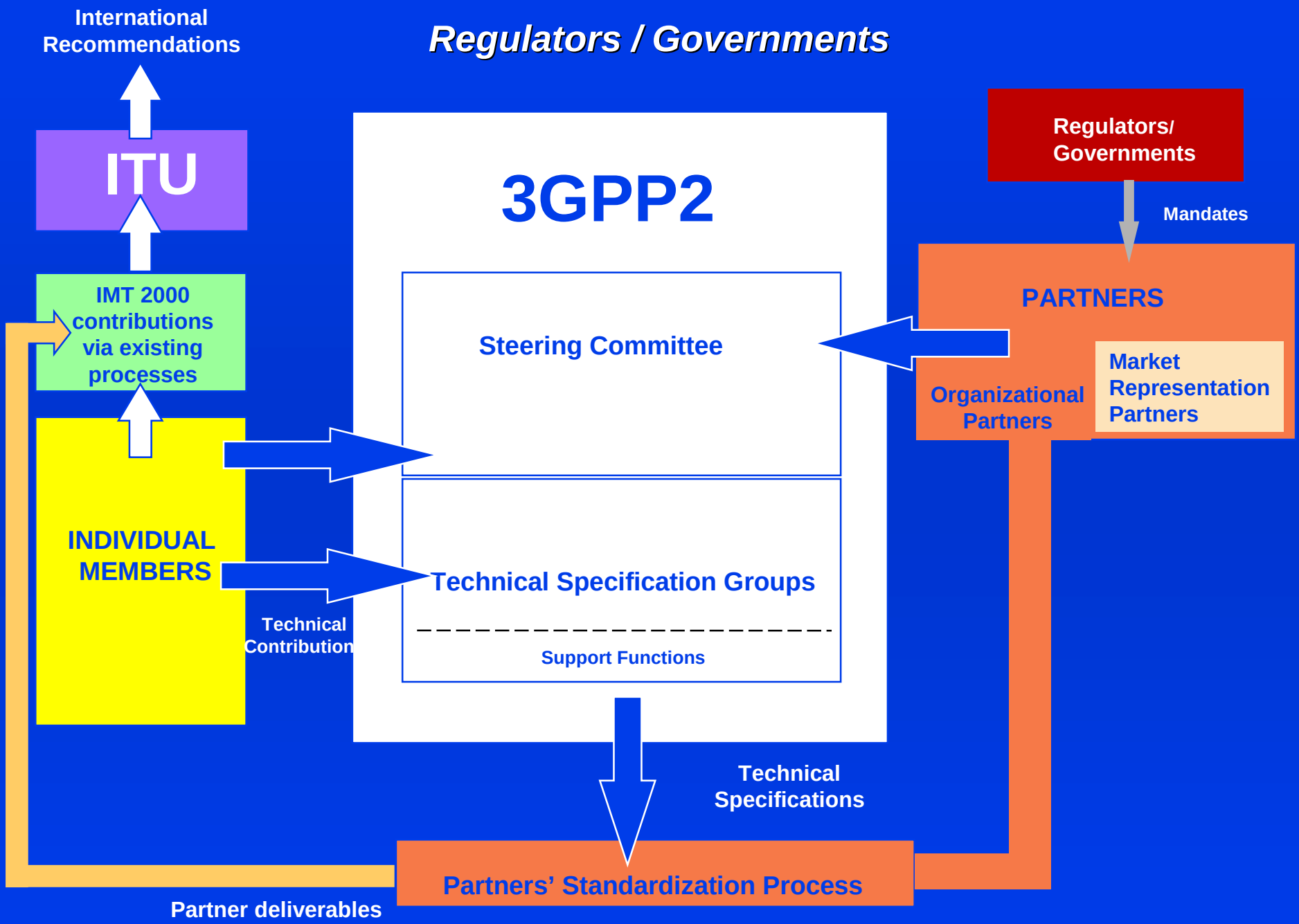


## *Submission of 3GPP2 results to ITU*

**3GPP2 will not contribute directly to the ITU.**

**3GPP2 results may be shared with the ITU following the existing national/regional processes.**

**Formal contributions to ITU Study Groups are made by ITU members.**

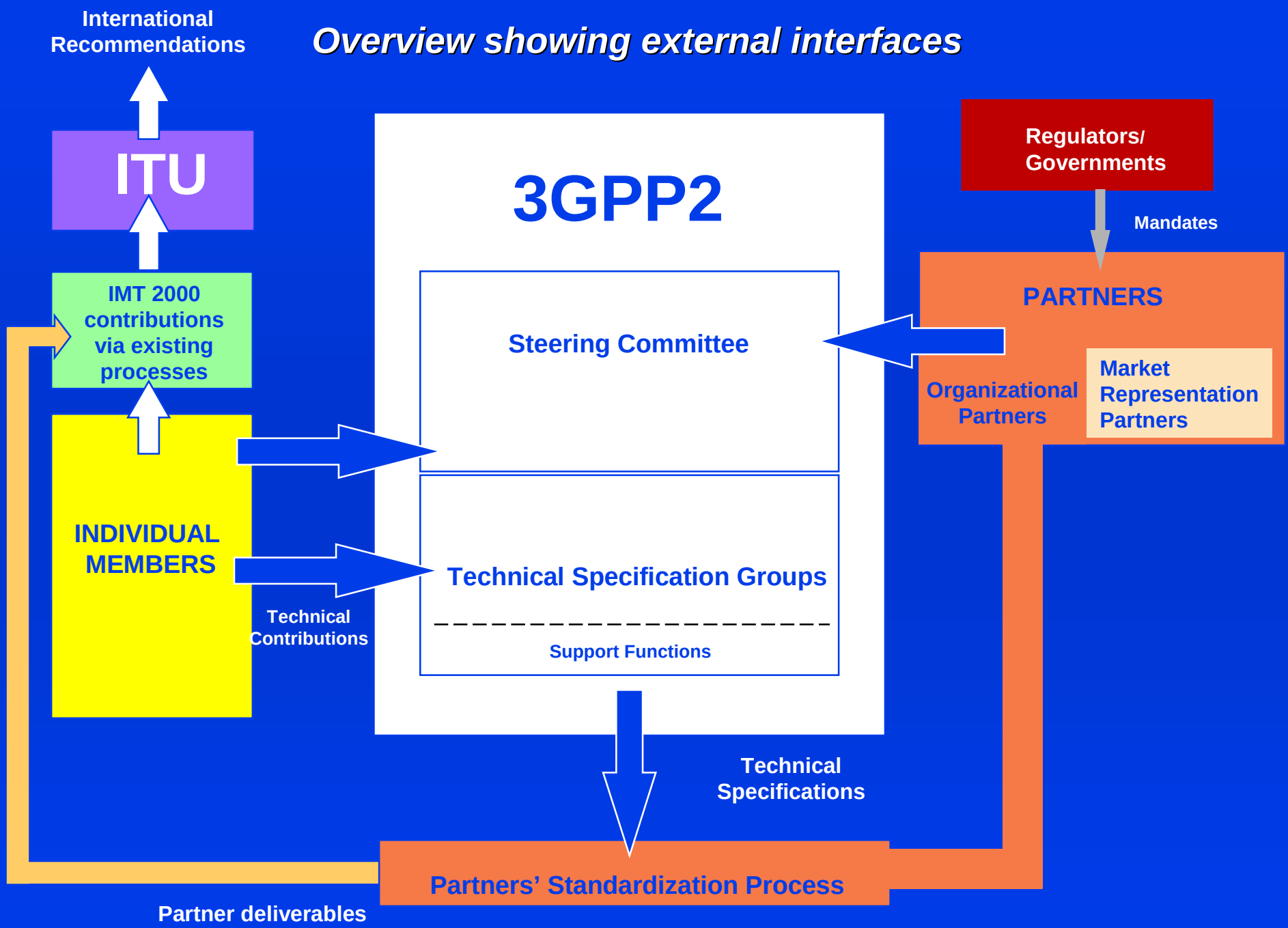

International Recommendations
Regulators / Governments
ITU
3GPP2
Regulators/ Governments
Mandates
IMT 2000 contributions via existing processes
Steering Committee
PARTNERS
Market Representation Partners
Organizational Partners
INDIVIDUAL MEMBERS
Technical Specification Groups
Technical Contribution
Support Functions
Technical Specifications
Partners' Standardization Process
Partner deliverables

**Variations imposed by national/regional regulatory requirements may be identified and may be included in the Technical Specifications at the discretion of the Technical Specification Groups and may be options included in the Technical Specifications.**

**The costs will be shared by the Organizational Partners. There will be no direct 3GPP2 membership fee for Individual Members.**

**Partners and Individual Members may provide support functions to the extent that they are able (e.g., hosting of meetings and provision of Secretariat support).**

# *Overview showing external interfaces*

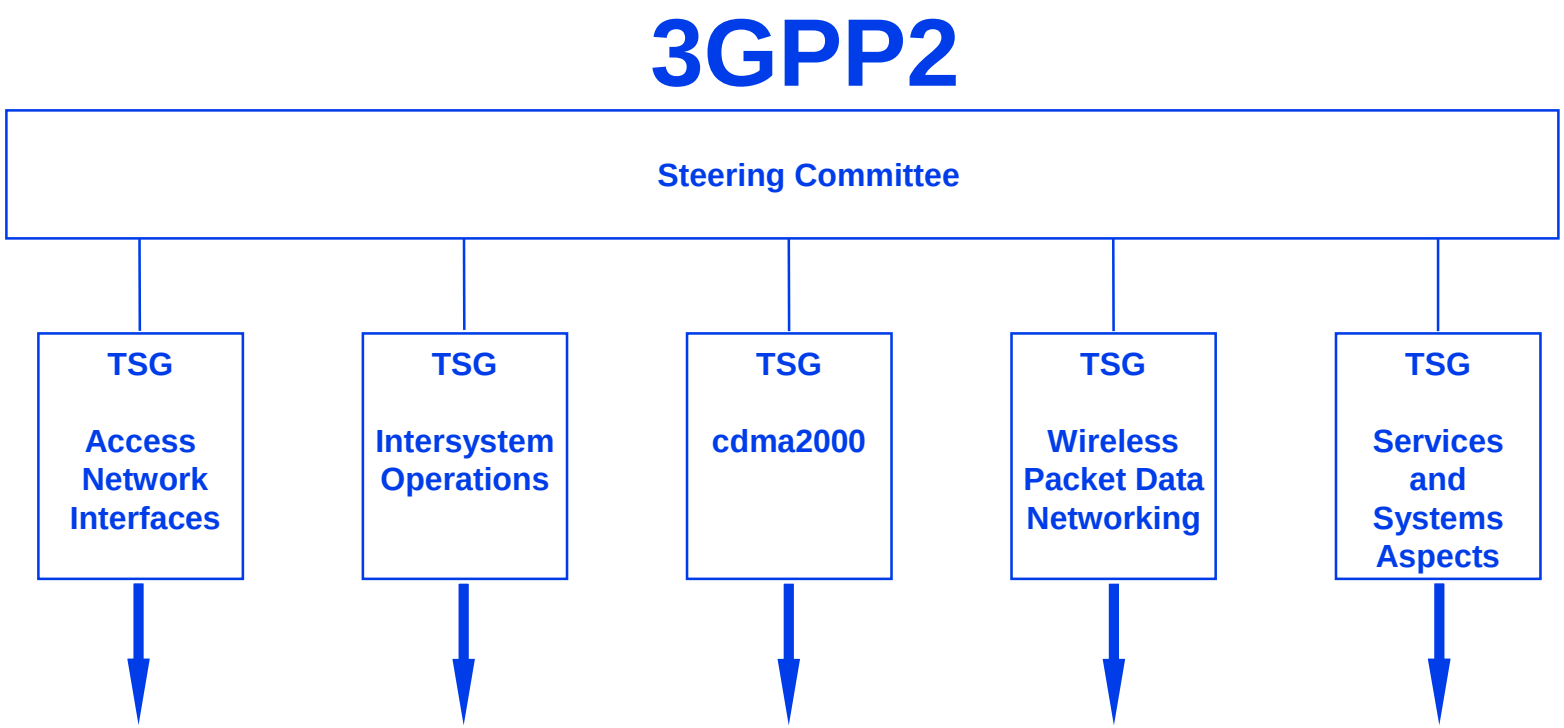


## *Internal structure of 3GPP2*

**3GPP2 consists of a Steering Committee (SC) and Technical Specification Groups (TSGs).**

**To assist in the co-ordination of the technical activities, the TSGs are encouraged to meet at the same time and place, as and when appropriate.**

# *Internal structure of 3GPP2*



## *Initial Work areas to be covered by the cdma2000 TSG (under consideration*)*

- **Radio Interface (MT-RAN)**
  - **Layer 1 Physical**
  - **Layer 2 Medium Access Control / Link Access Control**
  - **Layer 3 Signaling**
- **MS/BS Radio Performance Specifications**
- **Radio Link Protocol**
- **Enhanced privacy, authentication, encryption**
- **Digital Speech Coders**
- **Conformance Test Plans**
- **MS-Adapter Interface**

* List of work areas is not exhaustive.

## *Initial Work areas to be covered by the Intersystem Operations TSG (under consideration*)*

- **Evolution of Core Network for Inter System Operation within the ANSI-41 Family**
- **UIM support (Detachable and Integrated) Enhancement of Information Flows**
- **Security Aspects (implementation and usage)**
- **Numbering, Routing, and Supplemental Services for International Roamers**
- **VHE (Virtual Home Environment)**

* List of work areas is not exhaustive.

## *Initial Work areas to be covered by the Access Network Interfaces TSG (under consideration*)*

- **Radio Network to Core Network Interface**
- **Physical Data Link, Signaling**
- **Support for Access Network Mobility (Hard Handoff and Soft Handoff Support)**
- **High Speed Data Support**
- **Support for Multiple Air interfaces - as required**
- **Inter-Operability Specification**
- **[$A_{bis}$Interface]**

* List of work areas is not exhaustive.

## *Initial Work areas to be covered by the Wireless Packet Data Networking TSG (under consideration*)*

- **Wireless IP Services**
- **Based on IETF Protocols**
- **Secure Private Network Access**
- **Packet Data Accounting**
- **Multimedia Support**
- **QoS Support**
- **CN-CN NNI for Packet Data**

* List of work areas is not exhaustive.

## *Initial Work areas to be covered by the Services and Systems Aspects TSG (under consideration*)*

- Definition of service and system requirements to support 3G market needs based on regional and international considerations.
- Tracking of Feature and Service development activities across TSGs.
- Management of work items placed under its responsibility.

More specifically, TSG-S will address the following areas of work:

- System Capability Set Development
- Stage 1 Feature and Service Requirements Definition
- System Reference Model Development
- Requirements for International Roaming
- High level co-ordination of the work performed in other TSGs and monitoring of progress.

* List of work areas is not exhaustive.

## *Primary responsibilities of OP, SC, and TSGs (1)*

**The primary responsibilities of SC, TSGs and Organizational Partners collectively are given in the following tables:**

| | Function | Org Collectively | SC | TSGs |
|---|---|---|---|---|
| 1 | Validation and acceptance of new Partners for 3GPP2 | X | | |
| 2 | Approval of Organizational Partner funding requirements | X | | |
| 3 | Allocation of human and financial resources provided by Organizational Partners | X | | |
| 3a | Allocation of resources to TSGs | X | | |

## *Primary responsibilities of OP, SC, and TSGs (2)*

| | Function | Org Collectively | SC | TSGs |
|---|---|---|---|---|
| 3b | Day-to-day management of resources to TSGs | | X | |
| 3c | Allocation of resources within TSGs | | | X |
| 4 | Allocation of voluntary human and financial resources by Market Representational Partners and Individual Members | X | X | X |
| 5 | Handling of appeals from Individual Members on procedural matters | | X | |

## *Primary responsibilities of OP, SC, and TSGs (3)*

| | Function | Org Collectively | SC | TSGs |
|---|---|---|---|---|
| 6 | Handling of appeals from Individual Members on technical matters | | 2nd step | 1st step |
| 7 | Determine overall time frame and manage overall work progress | | X | |
| 7a | Prepare detailed time frame and manage detailed work progress | | | X |
| 8 | Approval of Technical Specifications and Technical Reports | | | X |

## *Primary responsibilities of OP, SC, and TSGs (4)*

| | Function | Org Collectively | SC | TSGs |
|---|---|---|---|---|
| 8a | Final adoption of Technical Specifications and Technical Reports | | X | |
| 9 | Proposal and approval of work items within the agreed scope and terms of reference | | | X |
| 10 | Final adoption of work items within the agreed 3GPP2 scope and objectives | | X | |
| 11 | Management of work items | | | X |
| 12 | Technical Co-ordination | | X | X |
| 13 | Appointment of SC Chair (for two year term) | X | | |

## *Primary responsibilities of OP, SC, and TSGs (5)*

| | Function | Org Collectively | SC | TSGs |
|---|---|---|---|---|
| 14 | Recommendation to SC of TSG Chair and Vice Chairs based on election | | | X |
| 14a | Confirmation of TSG Chair and Vice Chairs | | X | |
| 14b | Approval of Creation of TSGs and their Terms of Reference. | x | | |
| 14c | Approval of Dissolution of TSGs | x | | |
| 14d | Approval of existing TSG ToR requiring additional funding or changes to the guiding scope of 3GPP2. | x | | |

## *Primary responsibilities of OP, SC, and TSGs (6)*

| | Function | Org Collectively | SC | TSGs |
|---|---|---|---|---|
| 14e | Approval of existing TSG ToR not requiring additional funding nor changes to the guiding scope of 3GPP2. | | x | |
| 15 | Creation/dissolution of TSG working groups and approval of their terms of reference | | | X |
| 16 | Appointment of TSG Working Group Chair and Vice Chairs | | | X |

## *Primary responsibilities of OP, SC, and TSGs (7)*

| | Function | Org Collectively | SC | TSGs |
|---|---|---|---|---|
| 17 | Confirmation of Individual Member participation rights (each OP confirms eligibility for Individual Members within the OP) | X | | |
| 18 | Approval of 3GPP2 scope and objectives | X | | |
| 18a | Recommendation of change to to 3GPP2 scope and objectives | | X | |

## *Primary responsibilities of OP, SC, and TSGs (8)*

| | Function | Org Collectively | SC | TSGs |
|---|---|---|---|---|
| 19 | Maintain Partnership Project Agreement, Partnership Project Description and Working Procedures Description | X | | |
| 19a | Recommendation of change to Partnership Project Agreement, Partnership Project Description and Working Procedures Description | | X | |
| 20 | Management of the 3GPP2 Secretariat | X | | |

## *Participation rights in SC*

**The following have a right to participate in the SC:**

- **Representatives of participating Organizational Partners**
- **Representatives of participating Market Representation Partners**
- **Representatives of participating Individual Members**
- **Chairs and Vice Chairs (or authorized delegate) of TSGs**
- **Representatives of ITU**
- **Representatives of Observers**

## *Participation rights in TSGs*

**The following have a right to participate in the TSGs :**

- **Representatives of Individual Members**
- **Representatives of Organizational and Market Representation Partners**
- **Representatives of Observers**
- **Representatives of Guest**

**Decision making within SC**

- **By consensus**
- **By vote in unavoidable cases with one vote per Individual Member, Organizational Partner, and Market Representation Partner**

**Decision making within TSGs**

- **By consensus amongst the Individual Members**
- **By vote in unavoidable cases with one vote per Individual Member**

## *Principles for voting*

**The following principles will be applied for voting**

- **"One Individual Member, one vote" Multinational organizations are restricted to single vote**
- **The SC and TSGs will maintain their own list of eligible voters based on attendance principles described in the Working Procedures**
- **Voting will only occur if quorum is achieved**
- **Each Individual Member may carry the proxy for up to five other Individual Members**

## *Working language for 3GPP2*

**The working language for 3GPP2 shall be English:**

- **Meetings of the SC and TSGs shall be conducted in English**
- **3GPP2 technical specifications shall be prepared in English**

## *Relationship with other groups*

**3GPP2 will establish and maintain liaison relationships with groups working on standards for other IMT-2000 family members, as appropriate.**

## *Intellectual Property Rights (1)*

- **The Individual Members of 3GPP2 are bound by the IPR Policies of their respective Organizational Partner.**
- **Individual members are encouraged to declare at the earliest opportunity, any IPRs which they may have and believe to be essential, or potentially essential, to any work ongoing within 3GPP2 .**
- **After comparing their respective IPR policies, ARIB, TIA, TTA and TTC have agreed that their IPR policies share common principles and have agreed on the following additional principles to maximize the success of the 3GPP2:**

## *Intellectual Property Rights (2)*

**(i) to encourage their respective members' declaration of willingness to grant licenses on fair, reasonable terms and conditions on a non-discriminatory basis and consistent with the respective Organizational Partners' IPR policies.**

**(ii) to encourage their respective members' who may have IPR which they believe to be essential, or potentially essential, and are unwilling to license such IPR, that early indication of such unwillingness be provided to their respective Organizational Partners.**

**(iii) to understand that "essential IPRs" mean essential IPRs relative to any or all parts of the content of the 3GPP2 technical specifications.**

**(iv) A mechanism for exchanging information associated with the patent statement among the Organizational Partners will be introduced so that such information may be used when adopting relevant standards in each Partner Organization.**