



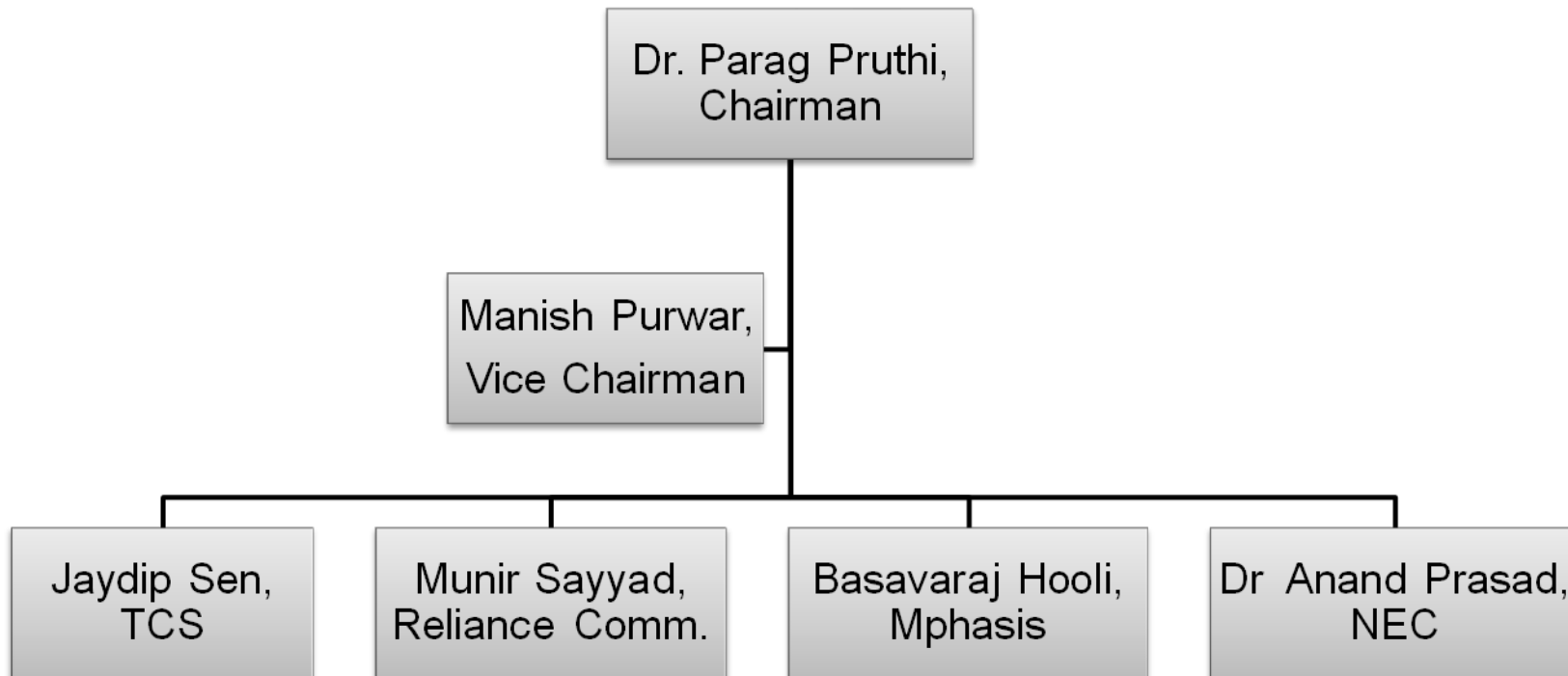
# Convergence Standardization Framework

Dr. Parag Pruthi, NIKSUN

Date: June 22, 2010

- 14.30 - 14.40 Team Organization
- 14.40 - 15.15 Convergence Standardization Framework, Dr. Parag Pruthi, NIKSUN
- 15.15 - 17.00 Panel Discussions
  - ⊕ 15.15 - 15.30 Interoperability & Security, Jaydip Sen, TCS
  - ⊕ 15.30 - 16.00 Coffee Break
  - ⊕ 16.00 - 16.25 Incremental Replacement of Legacy Services, Basavaraj Hooli, Mphasis (EDS)
  - ⊕ 16.25 - 16.40 Money, Money, Bole, Anand Prasad, NEC
  - ⊕ 16.40 - 17.00 Q&A

# NGN Focus Group Organizational Chart



- Objective Of \_\_\_?\_\_\_ Standardization Focus Group
- \_\_\_?\_\_\_ Standardization Framework
- Special Interest Groups
- Research And Study Group

# Whats In a Name?



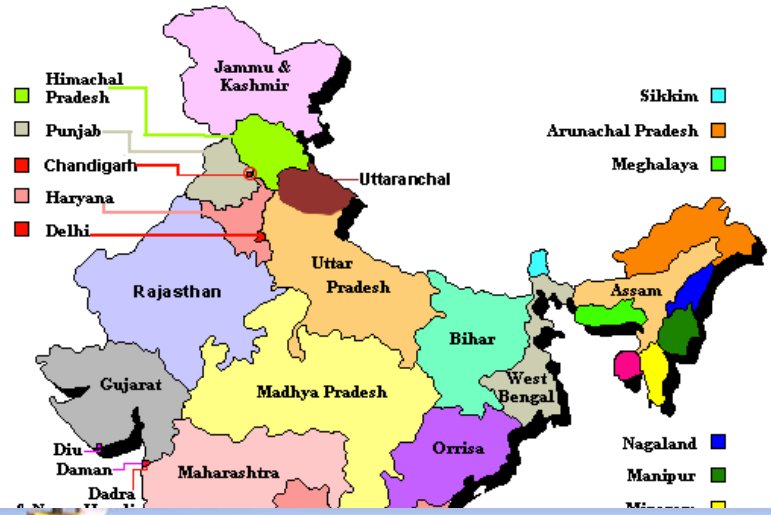
**NGN**

**Next Generation Networks**

**ISUN**

**Integrated Scalable Universal Network**

- Objective Of ISUN Standardization Focus Group
- ISUN Standardization Framework
- Special Interest Groups
- Research And Study Group



Business Needs Of The Indian Market

Consistent With The Unique Indian  
Regulatory, Business, And  
Infrastructure  
(Urban As Well As Rural India)  
Requirements

- ISUN Requirements Have Been Divided In To Seven Major Groups:
  - ⊕ General
  - ⊕ Government Of India
  - ⊕ Rural India
  - ⊕ End User Applications
  - ⊕ Network Service Enablers
  - ⊕ Underlying Network/Support Capabilities
  - ⊕ Business Model-driven

- This Will Include Basic Functionalities Required For NGN To Fulfill The ITU-T Requirements. It Includes:
  - ⊕ ISUN Interconnection Requirements
  - ⊕ Different Types Of Interfaces Between The Application Service Providers
  - ⊕ Guidelines For Incremental Replacement Of Legacy Services
  - ⊕ Transparent End-to-end Communication, Etc.

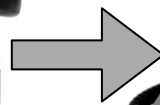
# India Government Regulatory Requirements



- This Section Will Lay Down All The Regulatory Requirements That Might Be Enforced. Such As ...



Lawful Intercept



VoIP+



Number Portability

Government Emergency Telecommunications Service

etc ....

# An India Not Yet Addressed



- This Section Will Provide Special Requirements For Rural India. This Includes:
  - ⊕ Service Requirements
    - ⊕ Low Usage
    - ⊕ Low Cost Services
    - ⊕ Sparsely Populated And Geographically Dispersed Areas
    - ⊕ Suitable For Low Literacy Level
  - ⊕ Low Maintenance Network Equipment Suitable For Rural Environment
    - ⊕ Lack Of Continuous Power Supply
    - ⊕ Lack Of High Availability Infrastructure
    - ⊕ Harsh Environmental Conditions
    - ⊕ Low Literacy Level



- This Section Will Provide Guidelines Regarding The User Applications Suitable For Indian Market
  - ⊕ Music Services
  - ⊕ Movie Services
  - ⊕ Photo Services
  - ⊕ Content Sharing
  - ⊕ Basic And Advanced Interactive Gaming

- Network-based Communication Services That Bring Value To Customer Applications. These Includes
  - ⊕ Differentiated Services
  - ⊕ Policy Based Networking
  - ⊕ Inter Carrier Roaming
  - ⊕ Personalized Services

- Needs To Be Included In The Core Networks. These Capabilities Include,
  - ⊕ Operations, Administration, Maintenance And Provisioning
  - ⊕ Security Management
  - ⊕ Confidentiality And Privacy Requirements
  - ⊕ Attack Mitigation And Prevention
  - ⊕ Accounting (Ordering And Billing), Etc.

- Identifies And Defines Business Model-driven Requirements. This Includes:
  - ⊕ Micro Payments,
  - ⊕ TBD

- Proposed Two Special Interest Groups
  - ⊕ Network QoS – in support of applications specific to Indian requirement
  - ⊕ IP Network Security – in context of India regulations and policies

# Research And Study Group



- To Identify The Research Area
- To Promote Research In This Field
- To Develop Related Products
- To File Patents