## **Our Mission**

•To promote the open development, evolution, and use of the Internet for the benefit of all people throughout the world.



## The Internet Society at Work

**Provides**leadership in policy issues

Advocates open Internet Standards

Promotes
Internet
technologies
that matter

Develops
Internet
infrastructure

Undertakes outreach that changes lives

**Recognizes** industry leaders



The Digital Goal for All of Us

## **Connect More & Grow More**

It will only happen through

## **Digital Infrastructure**

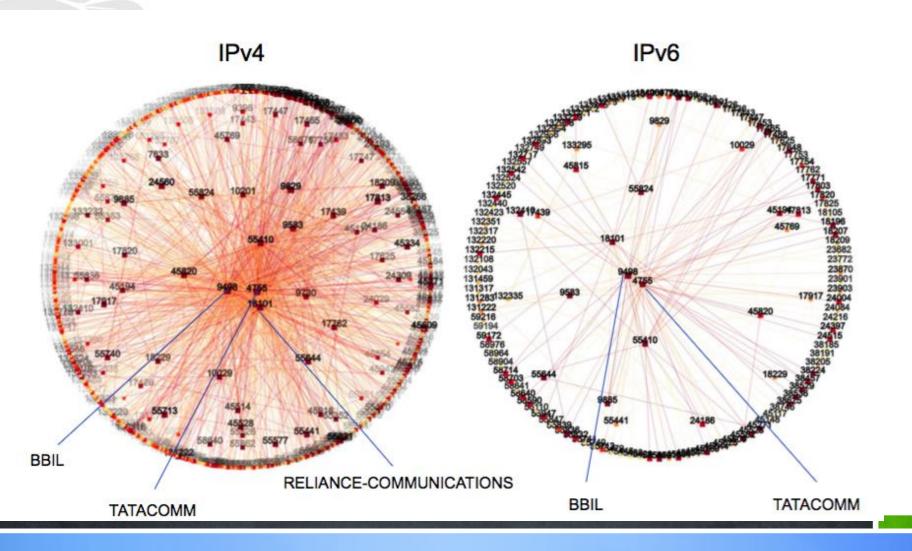
# What do I mean by Digital Infrastructure

Layer		Data unit	Function <sup>[3]</sup>
Host layers	7. Application	Data	High-level APIs, including resource sharing, remote file access, directory services and virtual terminals
	6. Presentation		Translation of data between a networking service and an application; including character encoding, data compression and encryption/decryption
	5. Session		Managing communication sessions, i.e. continuous exchange of information in the form of multiple back-and-forth transmissions between two nodes
	4. Transport	Segments	Reliable transmission of data segments between points on a network, including segmentation, acknowledgement and multiplexing
Media layers	3. Network	Packet/Datagram	Structuring and managing a multi-node network, including addressing, routing and traffic control
	2. Data link	Bit/Frame	Reliable transmission of data frames between two nodes connected by a physical layer
	1. Physical	Bit	Transmission and reception of raw bit streams over a physical medium

Layer 3 and below

The Open Systems Interconnection (OSI) model

## **Indian Internet Infrastructure**



- The first networks in India are predominantly service providers and academics
- The newer networks are mostly from corporates
- Core networks are established
- Edge networks are growing

#### **Looking Ahead**

#### **Global Trends**

- As more organisations interconnect with upstreams, downstreams and peers, the number of advertised ASNs will continue to grow
- Opportunities to reduce cost, improve resiliency and performance will be available to those with awareness of this rich network ecosystem
- New technologies such as SDN and network virtualisation will drive innovations and change the way networks are interconnected, so expect to see a more dynamic ecosystem in the future

## Digital Connectivity with a difference



Internet Exchange Points SOC – Security Operations Centre

Content Development Networks
Highly Used Services

Better Bandwidth Management Research & Development

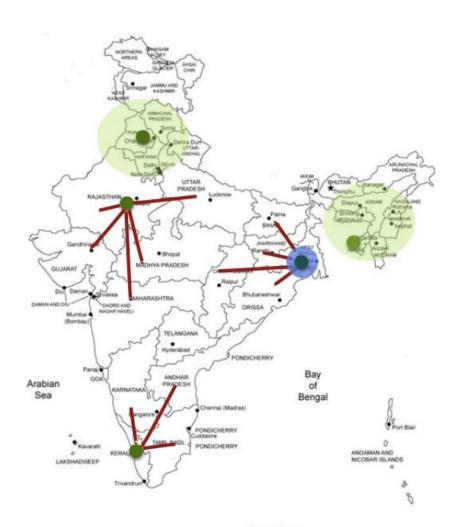


## **Data Center & Hosting**

Internet Exchange Points, Data Centers, Hosting

#### **Salient Features**

- Each NOC capable of handling 10G traffic, can be upgraded based on future demands
- Centralized compliance and security management
- Certified and experienced in-house incident response team.
- Agartala can be the next IXP Location
- Host L Root Instance

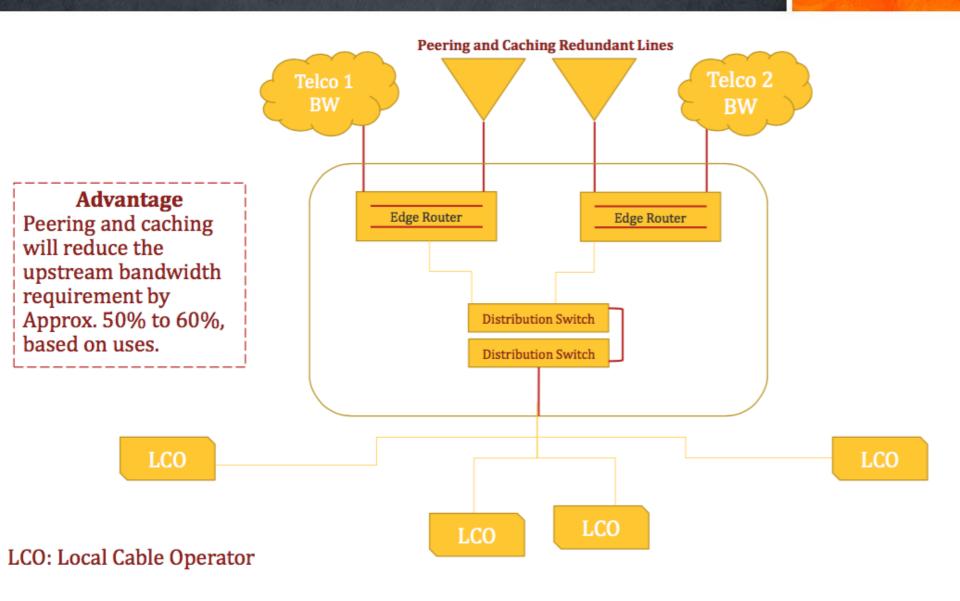




### **Local Content**

This can be done through Peering & Caching

#### **Peering & Caching**



## **Traffic Engineering**

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**Better Bandwidth Management & End User Involvement** 

## End User advantage

#### **Standards**

- » Training at the Root Level
- » IICB Program

#### **Research & Development**

- » DNS
- » Security Both Products and Services(Example TLS, IDN,



Every Year 10,00,000,000 users are added in India How many You can Add How many you can support?

Walter War of the Contract of



#### Get in Touch....

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Your Engagement is important for us