

# Broadband Status in India

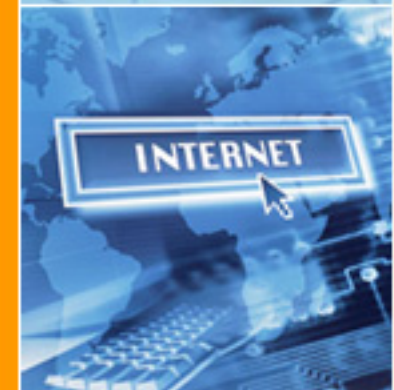
Presentation by

Col (Retd) R S Perhar  
Secretary

**ISP AI**

Internet Service Providers Association of India

[www.ispai.in](http://www.ispai.in)

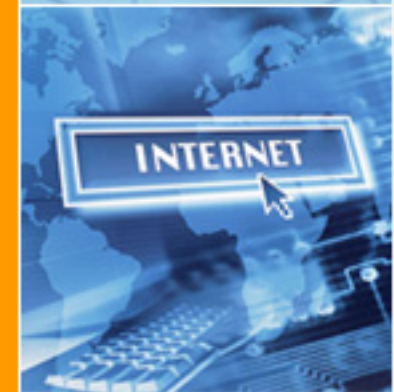


# TELECOM REFORMS IN INDIA

**ISPAI**

Promote **Internet**  
& **Broadband** for **All**.

- 1994 - National Telecom Policy 1994
- 1994 - Basic/Paging/Cellular & other Value Added Services privatized
- 1995 - Internet access began by govt. co.
- 1997 - Telecom Regulatory Authority of India (TRAI) established by an Act of Parliament
- 1998 - Internet Services opened for private sector
- 1999 - New Telecom Policy (NTP 99)

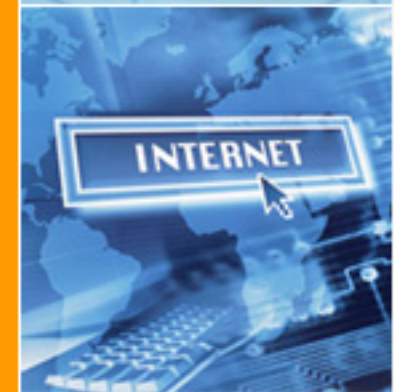


# TELECOM REFORMS IN INDIA

## ISPAI

Promote **Internet**  
& **Broadband** for **All**.

- 2000 - ISPs were allowed to set International Gateways - Satellite & Submarine Cable
- 2000 - Telecom Dispute Settlement and Appellate Tribunal (TDSAT) was constituted
- 2000 - I T Act 2000 enacted.
- 2002 - International Long Distance Services opened for private players
- 2002 - Internet Telephony allowed to ISPs (in a restricted manner).
- 2004 - Broadband Policy 2004 announced.



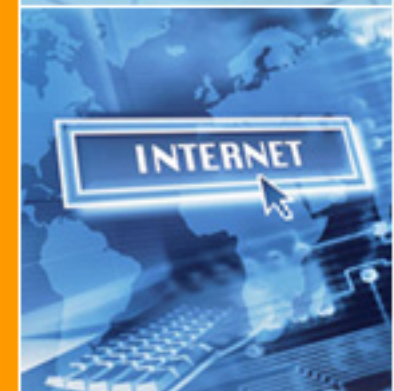
# ABOUT INTERNET INDUSTRY

## ISPAI

Promote **Internet**  
& **Broadband** for **All**.

- ISP license holders 370 +
- Operational ISPs 130 +
- Broadband Service Providers 72
- Number of operational ITSP 32
- Internet Telephony Minutes during the quarter Jul-Sep '07. >129 million

...contd....



# ABOUT INTERNET INDUSTRY

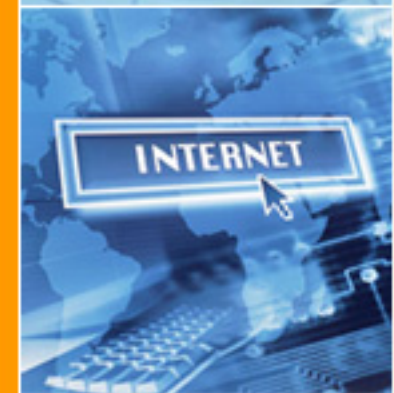
## ISP AI

Promote **Internet**  
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Total No. of	Subscribers (millions)	Broadband (millions)
➤ Mar '04	4.5	---
➤ Mar '05	5.5	0.18
➤ Mar '06	6.9	1.35
➤ Mar '07	9.2	2.34
➤ Dec '07	9.7	3.13
➤ Target 2010	20	20

### Market Share of 5 major ISPs

➤ Bharat Sanchar Nigam Ltd	46%
➤ Mahanagar Telecom Nigam Ltd.	19%
➤ Sify Ltd.	7%
➤ Bhati Airtel Ltd.	7%
➤ Reliance Commn. Infra Ltd.	6%





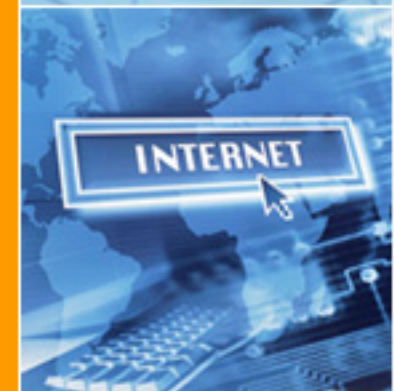
# ABOUT INTERNET INDUSTRY

## ISPAI

Promote **Internet**  
& **Broadband** for **All**.

Leased Lines Connectivity	20,925+
Cyber Cafes/Kiosks (franchised)	9,000
Cyber Cafes/Kiosks (Non-franchised)	110,000
Broadband Connections $\geq 256$ Kbps (as on Jan '08)	3.1 mn.

Average minutes of use per subscribers/month	206 minutes
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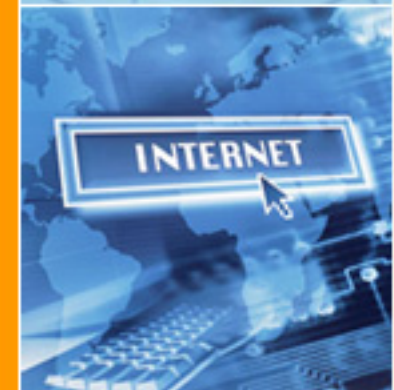
# ABOUT INTERNET INDUSTRY

## ISPAI

Promote **Internet**  
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Broadband Connectivity 2.67 as on Sep 07

DSL	2174401
Cable Modem	319010
Ethernet LAN	100592
Fibre	21688
Radio	27664
Others	28183

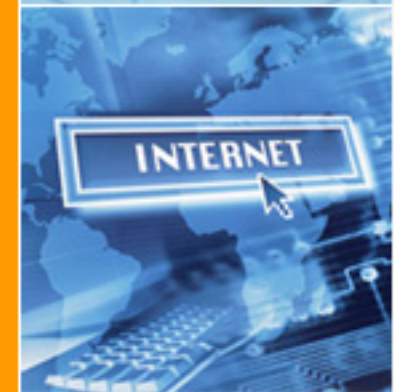


# CHALLENGES

- High Cost of Bandwidth .
- Local Loop Un-bundling / Sharing of Infrastructure
- Pricing Policies and Practices.
- Lack of relevant local Content in regional languages.
- Low PC & Tele-density.

## ISP AI

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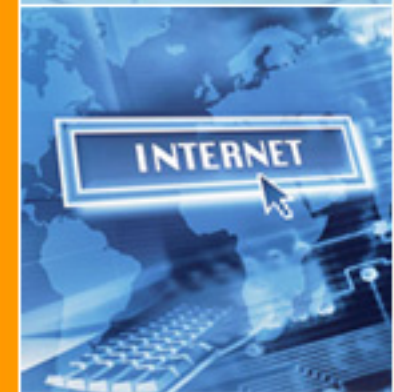


# OPPORTUNITIES

- 273 million telephone connections (mobile + fixed line)
- Tele-density closed to 24.
- 63 million cable TV connections
- Cyber café/Kiosks in Tier C, rural and remote areas
- Wi-fi and Wi-Max Technology picking up
- Mobile Internet to grow
- DSL / Cable largely used for Broadband currently
- Pilots of Broadband over Power-line

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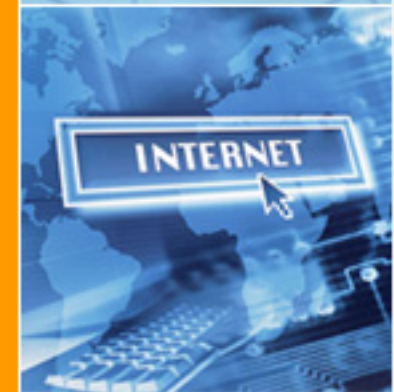


# DRIVERS TO THE GROWTH

## ISPAI

Promote **Internet**  
& **Broadband** for **All**.

- 75% of India remains to be tapped
- e-learning, Tele-medicine, e-Gov applications.
- Local Language Internet will be in demand
- Entertainment / Games / Video on Demand
- Content in Local / Regional Languages



# Thank You

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