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INDIAN INFORMATION & COMMUNICATION TECHNOLOGY SECTOR

Country Presentation

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THE WORLD VIEW OF THE ICT SECTOR

- **Total Telephone Connections : 2.5 Billion**
- **Of this Mobile Connections : 1.3 Billion**
- **80% of Mobiles installed in last 5 years and 45% of these in the developing world**
- **In 1993 less than 1% of world population owned a mobile – it reached 20% in a decade, and is poised to reach 30% in next 4 years**

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THE WORLD VIEW OF THE ICT SECTOR

- **Total Internet users : 800 Million**
- **Growing exponentially : 1 Billion (2005)**
- **19% of world population account for 91% of Internet users**
- **89% of Internet hosts reside in North America & Europe**
- **PC penetration varied 0.5% - 60%**

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THE WORLD VIEW OF THE ICT SECTOR

- **ICT a major industrial force**
- **Led to economic prosperity of the urban society**
- **Created a Digital Divide between 'Technology empowered' & 'Technology excluded' communities**
- **US\$ 3 Trillion investment (2003)**

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INDIAN ICT SECTOR

- **Telecom Density** : **7% (Dec 2003)**
plus 10% (2005)
plus 20% (2010)
- **Mobiles outpacing fixed line Telephones**

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INDIAN ICT SECTOR

- **Fiber Route Kilometers** : **500,000**
(every village within 25 km of fiber on average)
- **International bandwidth** : **200 Gbps**
(on submarine cables) (of terabits capacity)
(10.6 Gbps used up)
- **Satellite Capacity** : **1.4 Gbps**

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INDIAN ICT SECTOR

- **TV Homes** : **90 Million**
- **Internet subscribers** : **3.7 Million**
(16.5 Million users)
- **Growth** : **35 Million (2007)**

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INDIAN ICT SECTOR

- **PC Penetration** : 1%
(80 : 20 Commercial : Domestic)
- **Growth** : 2% (2005)
- **Internet usage** : Rs. 5/hr.
- **Telephone dial-up** : Rs. 1.2/ 3 mts

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INDIAN ICT SECTOR

- **SEI CMM level V Certified organizations (2002) : 48 (out of 96 worldwide)**
- **Total IT & ITES export : US \$ 13 Billion**
- **Total Domestic IT market : US \$ 3 Billion**
- **Total Manpower in IT & ITES : 650,000**

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INDIAN ICT SECTOR

- **100 out of Fortune 500 companies have setup their R&D Centre**
- **Together patented 1000 innovations**
- **A third of start ups in Silicon Valley were by Indians**

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WHAT INDIA OFFERS

- **A highly skilled human resource quality & cost competitive base**
- **A large English speaking knowledge work force**
- **An infrastructure that is contemporary**
- **Expertise with International market experience**
- **A large still untapped market**

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TECHNOLOGY BASE

- **Semiconductor Chip design**
- **Embedded system on DSPs / FPGAs**
- **Software Platforms**
- **Algorithms design and modeling**
- **Advanced Computing & Networking**
- **Telecom systems & Networks**

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SUCCESS STORIES (Examples)

- ☆ **CORDECT Wireless in Local loop**
- ☆ **RURAL & Medium Exchanges**
- ☆ **Supercomputing (PARAM)**
- ☆ **Large Networks (NICNET, ERNET)**
- ☆ **Softwares moving up the value chain**
- ☆ **Rural connectivity to 500,000 villages**

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MAJOR PROGRAMMES

- **Community Information Centres (Connectivity)**
- **Vidya Vahini (Spread Education)**
- **Media Lab Asia (ICT for Digital Unite)**
- **C-DAC (Advanced Computing)**
- **C-DOT (Communication Switching & Networks)**
- **STP(I) (Software exports)**
- **ERNET (Educational Networks)**

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MAJOR PROGRAMMES

- ❖ **Telemedicine**
- ❖ **E-Governance**
- ❖ **Indian language computing**
- ❖ **Standardization & Quality Certification**
- ❖ **Accreditation for Quality Education**
- ❖ **Information Security**

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PROGRAMME SNAPSHOTS

C-DAC

ERNET

CIC

C-DOT

STP(I)

DOEACC

TDIL

STQC

ML Asia

NIC

NISG

NIXI CERT IN

I N D U S T R I E S
A C A D E M I C S

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MAJOR FOCUS

Bridging the Digital Divide

- **Abolish illiteracy**
- **Reach out to people**
- **Enable with low cost computing**
- **Use language of communication**

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MAJOR FOCUS

Economic Prosperity

- Liberalization
- Increased support to R & D
- Infrastructure up gradation
- Capitalize on Niche areas and intrinsic strengths

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INDIAN ON MOVE

THANK YOU