

MY DIGITAL INDIA + MAKE IN INDIA

MY INDIA INTEGRATED ECONOMIC GROWTH

(To Transform India into a digitally empowered society and knowledge economy)

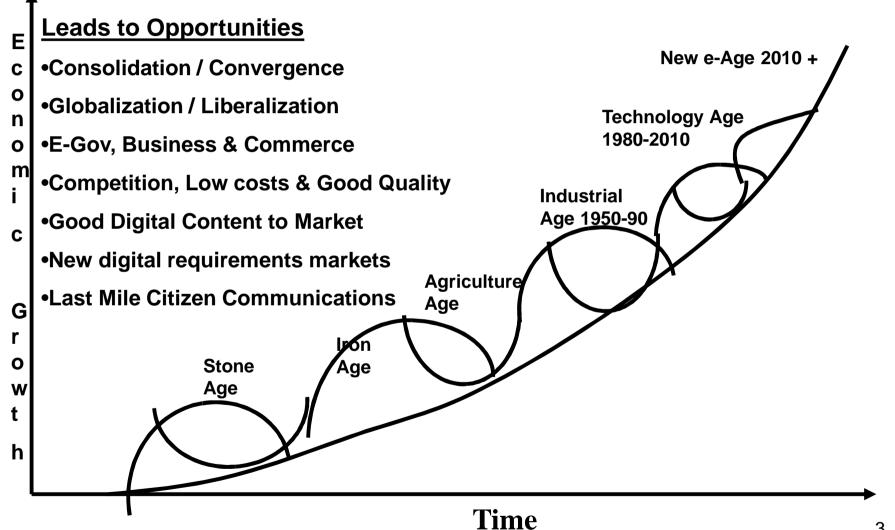
By Dr. E Sankara Rao IIFCL 6th Feb 2015

CONTENTS



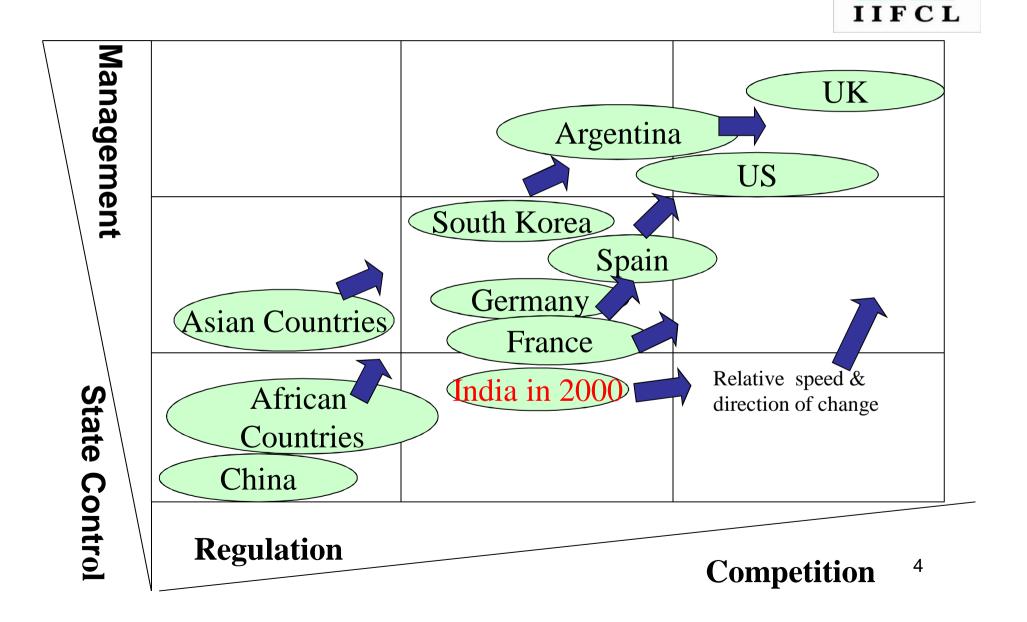
- Migration To Digital Economy Age
- Current Indian Telecom Reforms & Digital Connectivity
- Pillars for New e-Integrated Digital Economy
- Wireless+Wireline+CableTV : Single Digital Pipe Connectivity
- Conclusion for My Digital and Make In India

INDIA MARCHING TOWARDS DIGITAL AGE & NEW ECONOMY



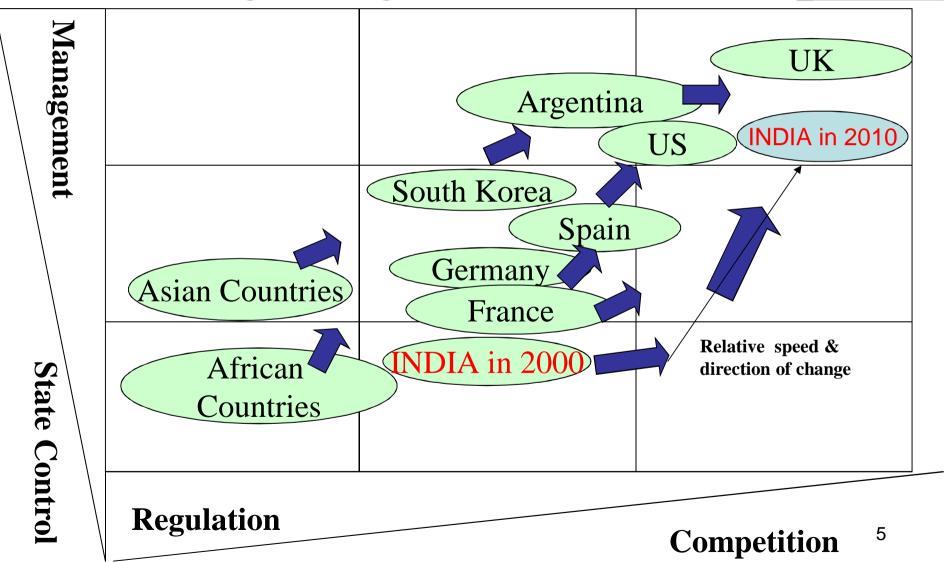
IIFCL

1994 - 2000 REFORMS UNLOCKED THE INFOCOM VALUE



INDIA 2000-2010 TELECOM REFORMS LED TO GROWTH,COMPETITION,CHEAPER & QoS

Led To High QoS, High MOU and Low Tariffs



IIFCL

Present Indian Digital Infocom Services

Wire Line (Copper/Coaxial) Connectivity :

- Basic Telecom Services (BTS) Access 33 Mn Connections
- Cable TV Services (CTVS) Access 110 Mn Connections
- Internet Service Provision (ISP) Access 300 Mn Users

Wireless Connectivity :

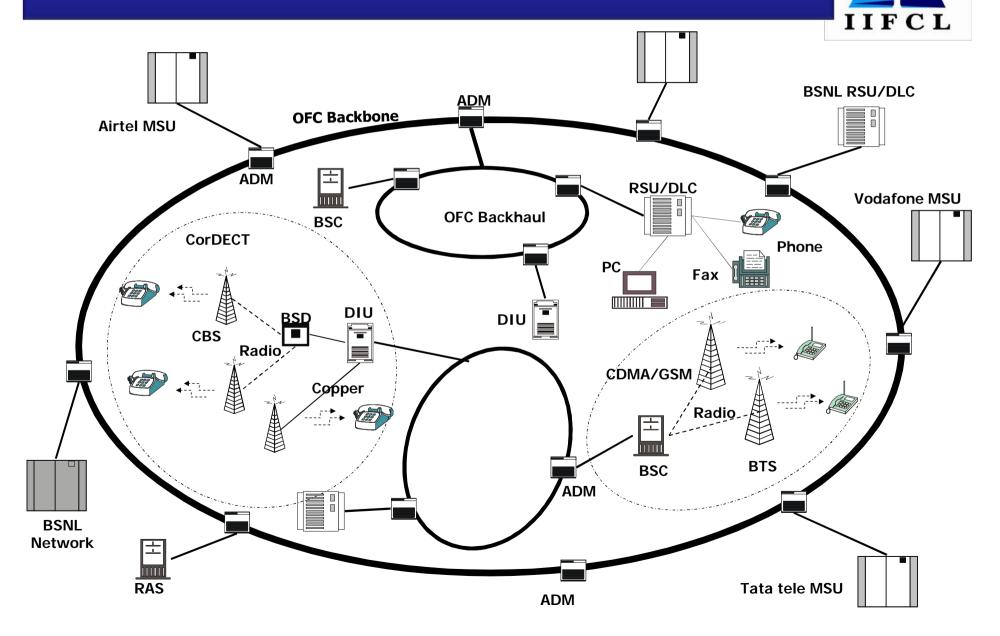
- Cellular Mobile Telephone Services (CMTS) Access 800 Mn Connections
- Satellite Services (Sat) TXM
- Public Mobile Radio Trunk Services (PMRTS) Access
- DTH Access (No Return Path) 44Mn Connections

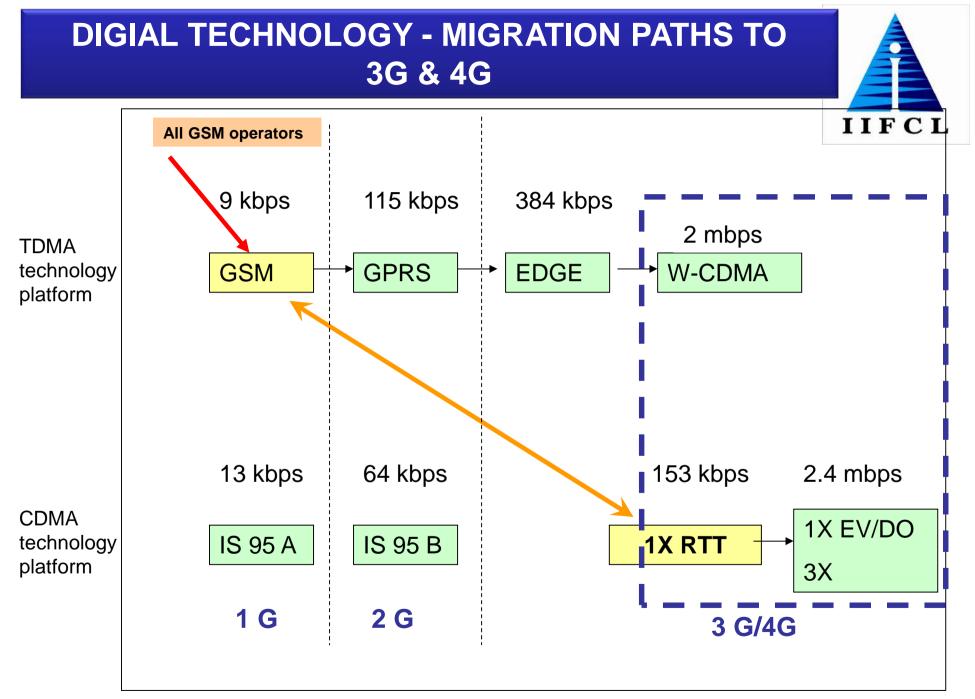
Wire Line (Fiber) & Wireless Connectivity:

- National Long Distance Telephony (NLD) TXM
- International Long Distance Telephony (ILD) TXM
- E-governance (e-gov) Access



INDIAN DIGITAL INFOCOM INTEGRATED NETWORK ARCHITECTURE





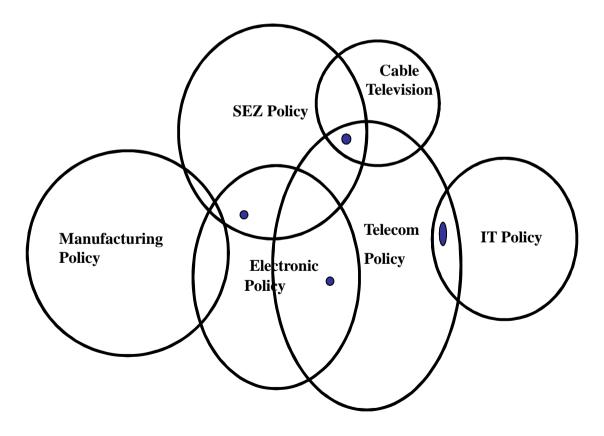
Pillars for New e-Integrated Economy



- ➢ Good Holistic Policies (NTP 2012, IT 2012, Electronics 2042, F ⊂ L Cable TV, ESMD-SIP, SEZ, etc) Execution without overlapping
- Convergence of above Polices will reach the benefits to the Citizens
 & Corporates to speed up the Digital Capital Formation
- Leads to <u>Make In India</u> across the e-value chain from Electronic components, modules and systems in high volumes and cheaper products to create e-infrastructure by Corporates
- Leads to cheaper *e-services* to all the citizens connecting <u>My Digital</u> <u>India</u> seamlessly the Rural and Urban India
- Leads to high growth of digital internet penetration across India enhancing *e-gov*, *e-business and e-commerce* leading to high economic growth across India
- Leads to minimization of Migration of citizens from Rural areas to Urban areas and concentrate on the AGRICULTURE Sector the 9 need of the hour for enhancing our GDP and welfare of Farmers

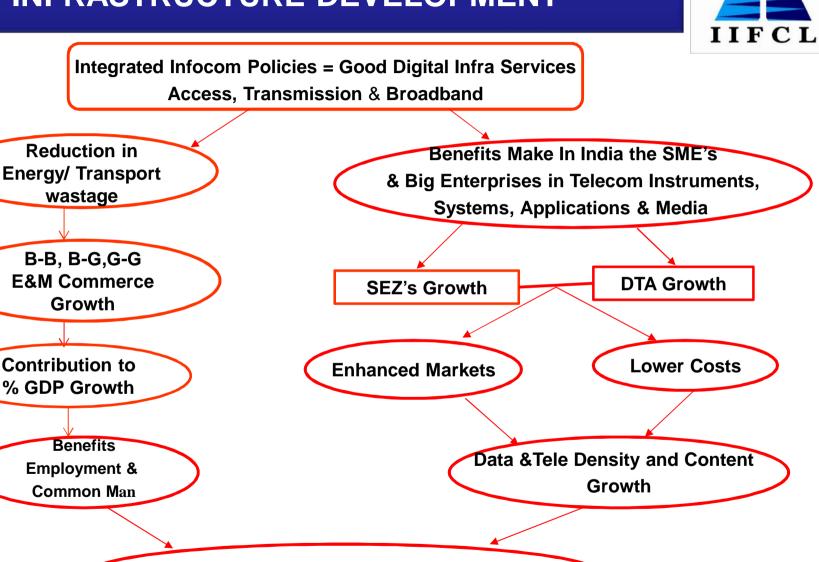
E-POLICIES CONVERGENCE LEADS TO HIGHER DIGITAL INFRA NETWORK GROWTH

- **Related Sector Policies have to Converge to form Quick Digital Capital Formation**
- Reaches the Policy Benefits to Corporates and Citizens
- Leads to Low Cost Digital Infra and Timely Availability of Low Cost Products and Services across country



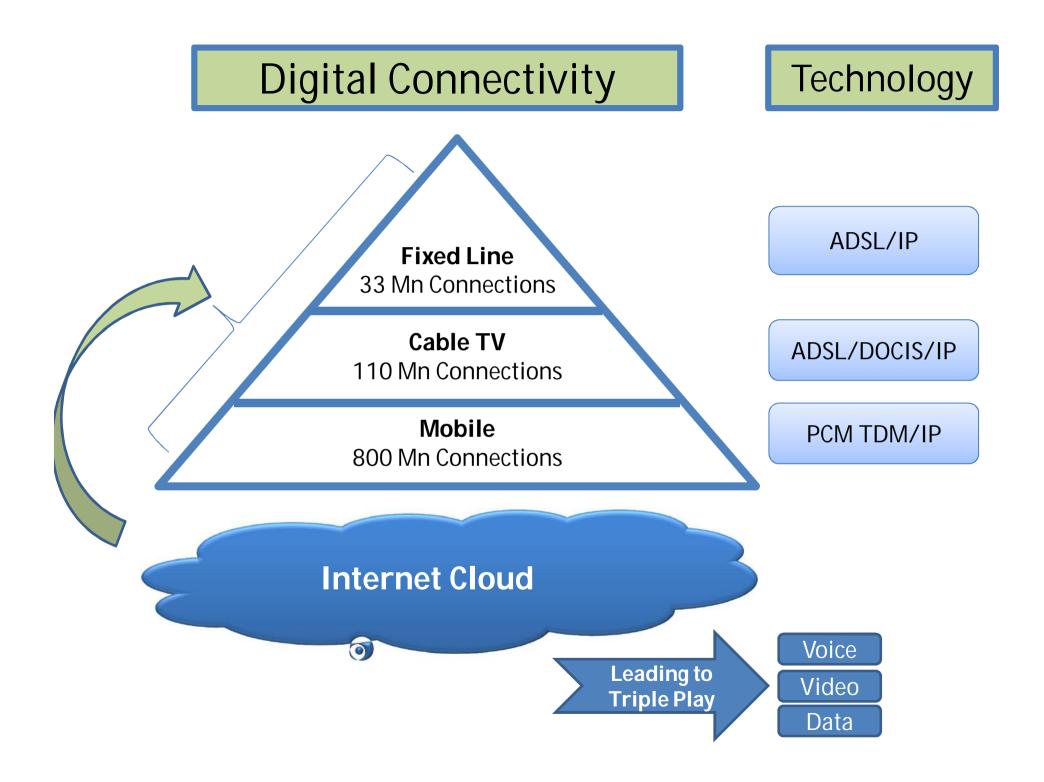
IIFCL

INDIAN DIGITAL INFOCOM INTEGRATED INFRASTRUCTURE DEVELOPMENT



11

Economic Development



Convergence of Business Models for Speedy Digital Connectivity: But <u>Low Cost</u> Spectrum, Modems and STB's are need of the hour

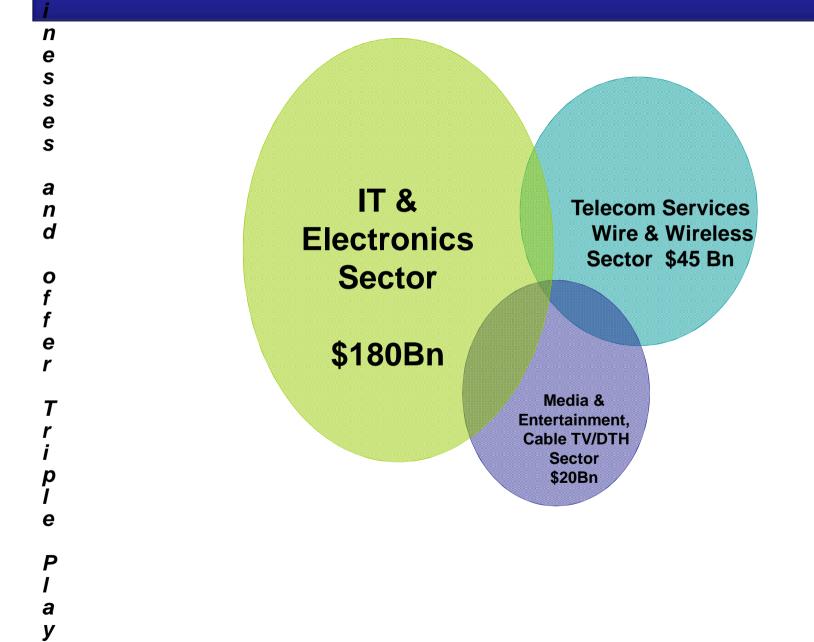


- BSNL & MTNL can leverage the 33Mn fixed copper lines infra across the country by partnering with Cable TV, ISP or other service providers and earn revenue in the 70:30 ratio with out putting any Capex by BSNL & MTNL
- This *idle infra sharing* model by BSNL will enable Voice, Data and Video/ TV to reach every house on the same Telephone line
- The 110 Mn Cable TV connections can offer the Voice, Data and Video/ TV using the proper Modems and STB's are made available to LCO's and MSO's and can reach the remote places is the country
- For Wireless 800 Mn Connectivity the Spectrum Price is the key A low cost of Spectrum will lead to High Demand and Elasticity for the Data, Voice and Video services and specifically in the 700, 800 and 900 MHz spectrum band which are the sweet spot.
- The present Reserve Price/ MHz is on the higher side which will make the service costly and affordability will be an issue for the Rural and sub-urban citizens

RELATED INDUSTRY CONVERGENCE IN 2014

B





INDIAN TELECOM ECONOMICS



	2001-2008	2010-12
Valuation/ Sub	\$600- \$1000	\$100 - \$135
Capex Cost/Sub	\$150	\$80 to \$40
Acquisition Cost /Sub	Rs.800	Rs.1600
Churn	5%	25%
Active Subs	90%	50% - 60%
Tele-Density	Real	60% (Real) 82% (Virtual)
ARPU	\$8	\$3
MOU	200 Minutes	400 Minutes

CONCLUSION



- Implement & Execute all Digital related 2012 Policies
- Keep Spectrum Auction Prices/MHz optimum for offering low cost and affordable services to citizens with Rural as end point
- With good Economic Regulation, Policy & Technologies Convergence will create Make In India – Digital Manufacturing & Services businesses opportunities to Entrepreneurs
- Data & Entertainment Services will reach the Last Mile connection in Rural Areas on the strong Digital Infocom Infra
- > New VAS business models **evolve** for e-gov, e-bus, e-commerce etc
- > A win-win situation for the **Global and Indian investors**
- Indian Digital Infrastructure will form strong bonding for IT, Communications & Entertainment and provide value to all the Stake Holders and contribute to GDP



Thank You

<u>esr@iifcl.org</u> ceo@iifclmf.com