Next wave of Challenges in ICT for India

: Issues and Priorities

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Agenda

- Present status
- Ideal Scenario
- Observation of Trend
- What needs to be done

3/21/2015

- How
- Suggestions if any

Present status

Emerging India

- 2nd largest telecom market in the world
 - Mobile subscriber grew 400x to 900 Mn in a decade
 - Over 300 Mn internet subs; over 50% through mobile phones
 - Fastest growing and third largest smartphone market
- World's most competitive market
 - Cost of service is the lowest
 - All global equipment players active

National Telecom Policy 2012

- To create an inclusive knowledge society......
- To promote R&D, design, development and manufacturing in the domestic telecom equipment manufacturing.
- To create a road-map to align technology, demand, standards and regulations for enhancing competitiveness of domestic manufacturing

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Challenges - 1

Technological :To catch with the technological race: 2G-3G-4G-5G

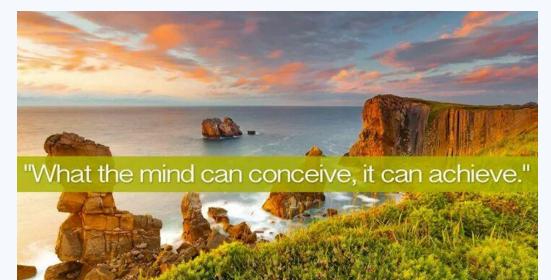
- Home to Leading Design Talent for the world
 - ✓ 1000+ R&D centers; All major MNCs have India R&D centers
 - ✓ Top-3 in fabless/semiconductor design talent
 - ✓ Potential for "frugal" innovation



Ideal Scenario: Happiness for All with ICT

Make in India

Digital India



 ✓ Through innovation, research, design and development in India

✓ Mentoring and hand holding
✓ Entrepreneurship
development
✓ Technology incubation
✓ IPR development &
✓ Standardization

5 Digital Bharat/Challenges

Challenges –2. Transformation: When the path is not designed in a smooth way, there is always risks and accidents.

With Intelligently designed highways and intelligent transport system, It is just a JOY RIDE

Understanding the priorities of the people





3/21/2015

Digital Bharat/Challenges

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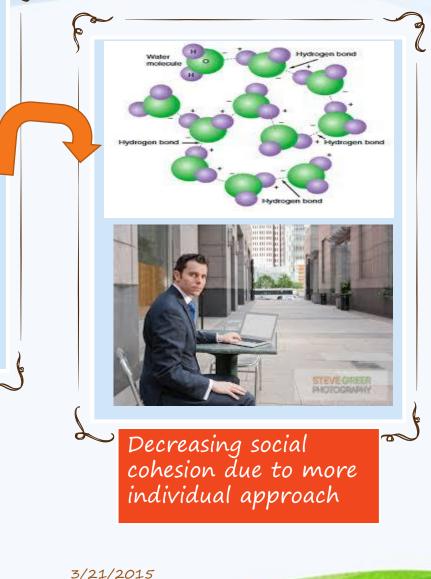


Obsevation of Trend -1



Joint family living in one location can be considered as ICE like structure Nuclear family settling in far off places with separate houses and always moving : Water like situation

STEAM



8 Digital Bharat/Challenges

With Broadband connectivity, do you think the human society life cycle can reverse ?

WATER

What needs to be done ? Invest in Bharat & Promotion of Innovation

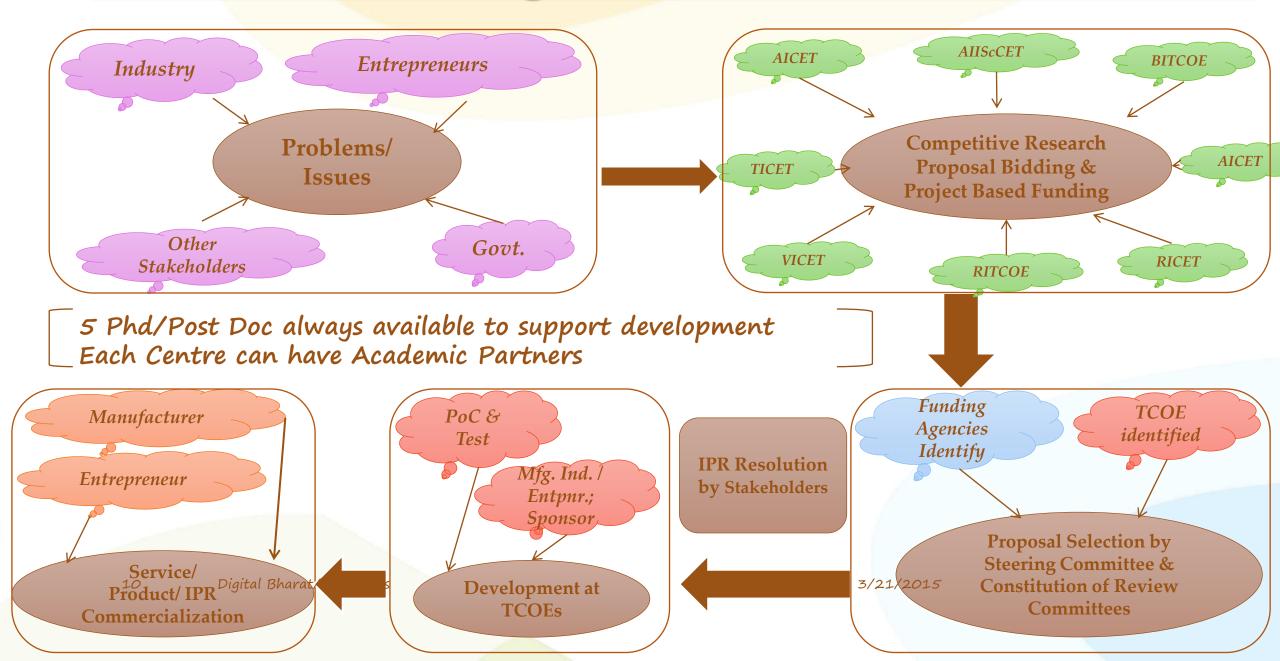
Technology incubation centres



From seed to tree



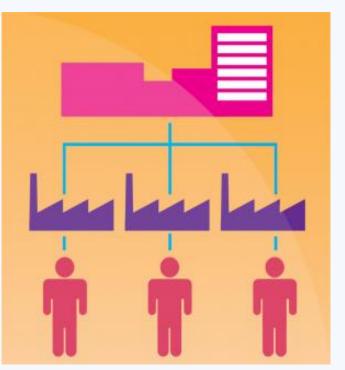
How ? Transforming TCOE as enabler for innovation



Observation of Trend-2: Internet of things will transform the manufacturing sector

The factory of the future is online – and on your doorstep

Return of single lot production



Warehouse racks will report when they're running low on stock and automatically reorder, and production lines will synchronize their throughput rates across the globe. one-off production will make a comeback as single items become much easier and cheaper to produce.





20th Century type		21st Century type
Low cost, technology	Competitiveness	Variety, safety
Mass production-	Strategy	Multiple variety of small quantity

And How ? Attracting people from cities to invest in villages



Multipurpose hall with high speed broadband connectivity

- Yoga
- Education
- Sports
- Trade
- Entertainment



Digital Bharat/Challenges

Motivated digitally skilled people can make a successful digital India



Well structured layout which can be developed in to something called "**Broadband Square**" with public private partnership

Thank you

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For any suggestions & sharing ideas Please mail me at Subratk.prusty@nic.in