



सत्यमेव जयते

# MEASUREMENT OF ICT SECTOR IN INDIA – STATUS AND CHALLENGES

Chandrajit Chatterjee  
Deputy Director, Central Statistics Office, India

15th WTIS, Hammamet, Tunisia  
14 – 16 Nov' 2017



# Layout Of Presentation

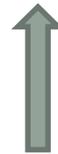
- Importance of ICT sector
- Spread of Communication Technology in India
- Stakeholders
- Measurement of ICT Sector
- Challenges



# Significance Of ICT Sector in India

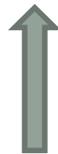
## Telecommunication services in overall economy

- Value of Output in 2015-16: INR 3.35 trillion (2011-12 prices)



6.3% growth

- Value of Output in 2014-15: INR 3.15 trillion (-do-)
- Gross Value Added in 2015-16: INR 1.41 trillion (2011-12 prices)



**1.34% of Total  
GVA in 2015-16**

12.5% growth

- Gross Value Added in 2014-15: INR 1.25 trillion (-do-)
- Internet industry in India likely to reach \$250 Bn – contributing 7.5% of GDP (*estimates of industry association*)

# Spread Of Communication Technology\*

## In India



- Telecom Subscriber base – 1210.84 million
  - Wireless – 1186.84 million
  - Urban – 700.96 million
- Tele-density – 93.98%
  - Urban – 172.98%
  - Rural – 57.73%
- Internet Subscriber – 431.21 million
  - Broadband – 300.84 million
  - Wireless – 409.55 million
  - Internet subscribers per 100 population – 33.47

\* As on 30<sup>th</sup> June 2017



# Stakeholders

- ❑ Regulator – Telecom Regulatory Authority (TRAI)
- ❑ Nodal agency – Ministry of Communications
- ❑ Services Trade – Reserve Bank of India
- ❑ Measurement – MoSPI & MoC
- ❑ Association – COAI, TEMA, ISPAI, ICA, BIF, NASSCOM, etc.



# Measurement of ICT Sector

- ❑ Annual Survey of Industries & Economic Censuses – conducted by CSO
  - Use, access and skill of computers, internet by **establishments**
  - Latest data – 2014-15 (ASI); 2013-14 (EC)
  
- ❑ Household Surveys – conducted by NSSO
  - Use, access and skill of computers, internet by **households**
  - Latest data – 2014 (71<sup>st</sup> round)

# Measurement Of ICT Sector (Contd.)



- ❑ Individual access and use collected by MoC & TRAI through telecom operators
  - Subscription
  - Density
  - Penetration
  - Quality indicators
  - Usage and Revenue
  
- ❑ Trade in ICT goods by DGCI&S
  
- ❑ Trade in ICT services by RBI



# Challenges

- Population / Vast Geographical Area
- Diversity in Language, Culture, Terrain
- Digital Divide – Urban/ Rural, Geographical Area
- Lack of dedicated surveys
- De-centralised systems – not integrated



THANK YOU

E-MAIL: [C.CHATTERJEE85@NIC.IN](mailto:C.CHATTERJEE85@NIC.IN)