

AI & IOT

Impact on Businesses and Industry

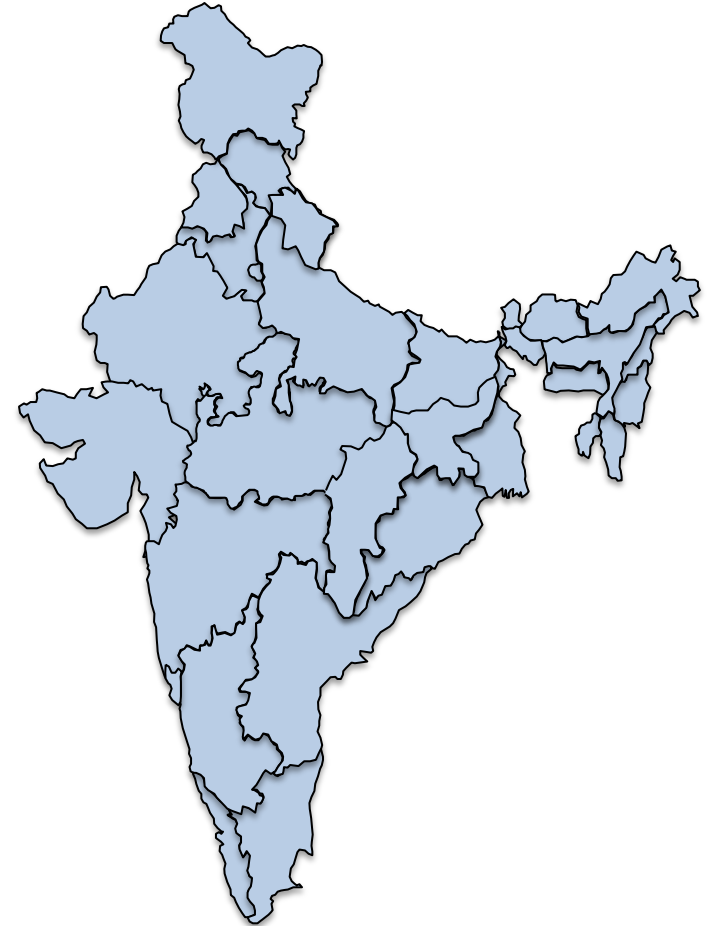
AI & IOT India 2018 International Conference

14th December 2018

New Delhi India

India - An opportunity

- **Population: 1.3+ billion**
- **650,000+ villages**, 70% population rural
- **Multi-ethnic, Multi-religious society**
- **Multi-lingual**: 22 Official languages
- **36 States & UTs; 250,000+ Local Bodies**
- One of fastest growing major economies
- **Explosive telecom and IT growth**
 - Internet user base : 462+ million
 - Mobile Users : 1.2 billion
 - Smartphone : 375 million
 - E-commerce : USD 35 billion



Digital India Pillars



Broadband

Highways

121,453 Gram Panchayats Connected through Optical Fibre

1 Mn km OFC to be laid to connect **250K GPs**



Universal

access to phones

375 million



Public Internet

Access Program



e-Governance

Reforming government through technology



eKranti

Electronic Delivery of services

306 K



Participatory Governance



Make in India

Electronics + Software



Digital Skills



Digital Payments

for Economic Growth

Common Services Centers: Employment & Access

WORLD'S BIGGEST RURAL eSERVICE CENTERS

■ **306 K** CSCs Operational

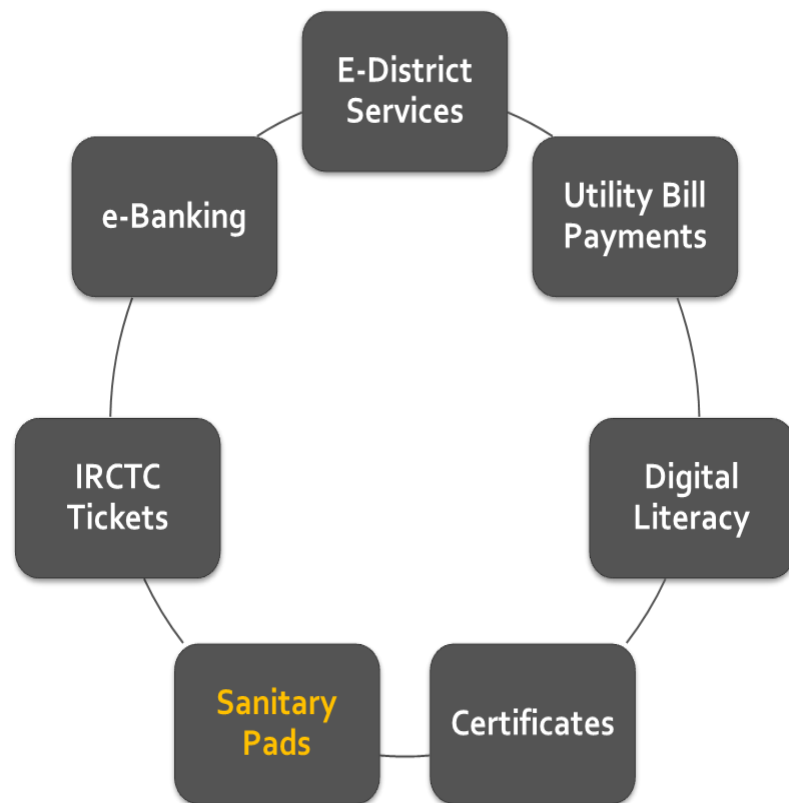
■ **210 K** CSCs Operational at GP level
(Target: 250 K GPs)

■ **50** Central and **300+** State services

■ **11.8+ Mn Transactions** in Oct'18

■ **1.2 Mn** employment generated

■ **65,000+** CSCs run by women VLEs



India's Cloud Revolution (Meghraj + DigiLocker)

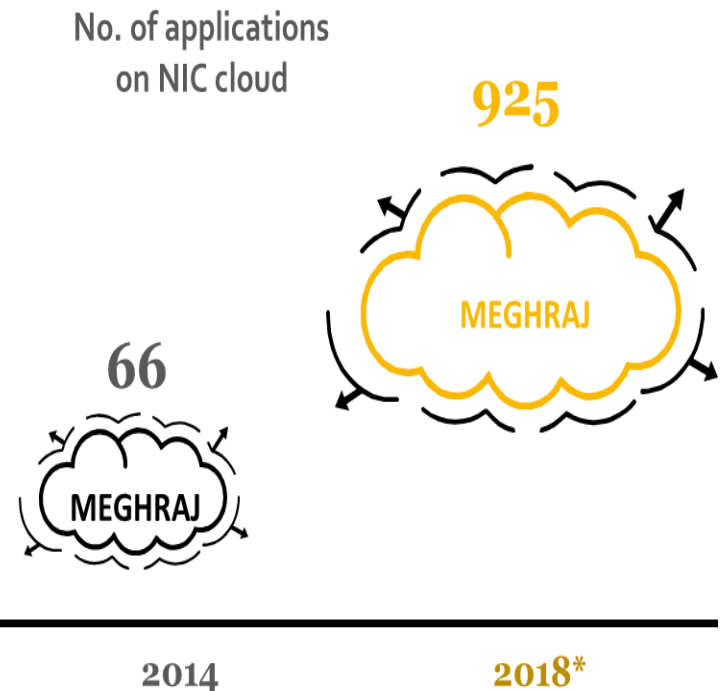
■ **Cloud First** Policy

■ **925 Applications** on NIC cloud; **15,825 virtual**

■ **DigiLocker** provides dedicated cloud space to every citizen

■ **13 Private Cloud Service Providers** empanelled

■ **50+ Ministerial & PSU's** applications on Pvt. Cloud



Electronic Transaction Aggregation and Analysis Layer



Ministry of Electronics & Information Technology

Government of India



[Home](#) [e-Transactions View](#) [Analysis](#) [Report](#) [Service Directory](#) [State Portal](#) [FAQs](#) [User](#) [Accolades](#)

Select Language ▼

National e-Transaction Count



Since 1st Jan, 2018

31,43,39,93,765

Since 1st Dec, 2018

11,60,86,222

Total Number of e-Services Integrated

3,645

Digital Payment Platforms

- Internet Banking
- Mobile Banking
- Cards – Debit / Credit / Prepaid
- Point of Sales
- Payment Gateways


Innovative Digital Payments Platforms

New payment modes launched to cater to varying payment needs



Wallets

Other Key Products

- BHIM Unified Payments Interface (UPI) (Launched in Aug 2016)
- BHIM USSD (Launched in Dec 2016)
- Aadhaar Enabled Payment System (Launched in 2013)
- BHIM Aadhaar for Merchants (Launched on 14th April 2017)
- Low-cost interoperable acceptance mechanism (Launched in Feb 2017)
- 469 Toll Plazas as of Nov 2018 
- Bharat Bill Payment System for Utility bill Payments (Launched in Sep 2016)
- 48 Non bank Pre Paid Instrument Providers licensed by RBI
- National Common Mobility Card- Standards finalized

Innovation at CoE for AI & IOT

IoT, AI, Data Science, Big Data, AR/VR, Machine Learning, Robotics



**Mobile
APP**



**Wi-Fi
Enabled**



**Location
Tracking**



**IoT
Sensors**

Summarize the Role of Digital Economy: Why Digitize Businesses



Reduce Transaction Costs:

Average *transaction cost* in *web* is a mere **\$0.01**, while through *telephone* is **\$0.54**.



Access to Global Markets:

Connecting *Local Artisans* to *Global* Markets.



Green Shopping:

E-commerce *reduces carbon* footprint by approximately **50%** compared to traditional shopper.



Efficient Medium of Business:

Seamless *access to information* resulting in *better comparison*, *easier location* of products, & *less time* taken.



The 24/7 Shop:

More orders, Greater *convenience*.



Impact of Digital Economy



Mapping the Growth of E-commerce

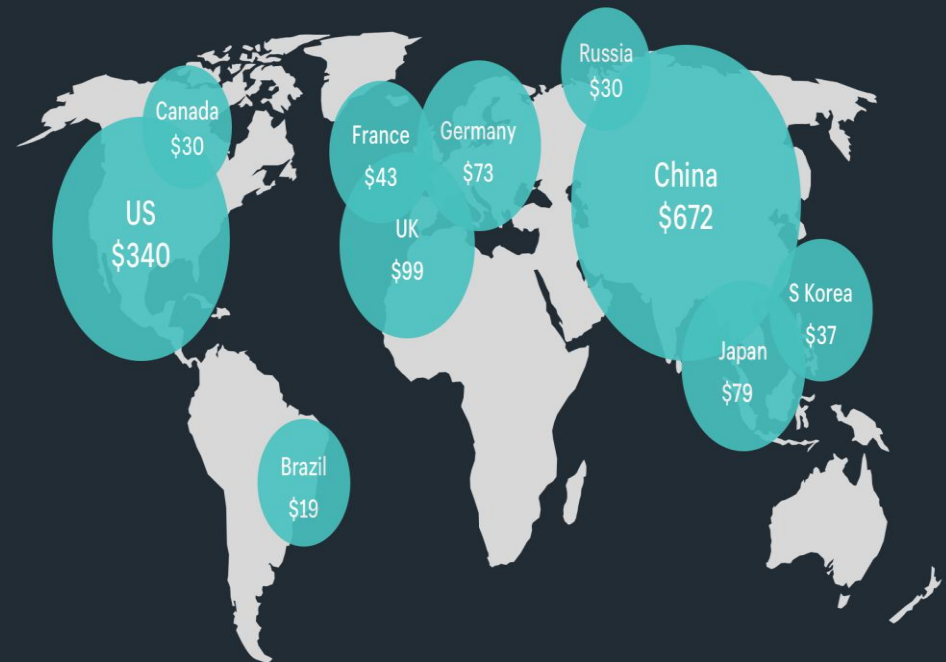
Mobile is leading the growth:

Mobile commerce, accounted for **\$161 bn** in **2016**, set to jump to **\$319 bn** in by **2020**.

E-commerce represents **11.9%** of all **retail** sales.

10 largest ecommerce markets

By billions of USD



Shifting Trends in Digital Economy: Geographic & Demographic



E-commerce growth is shifting from the **West to East** as **Asian countries** are increasingly **adopting internet-based technology**.



1.4 bn people will join the **global middle class** by **2020**: **85%** from **Asia-Pacific**.



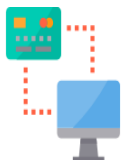
Close to **half** of **B2B** buyers are **millennials**
Millennials comprise **one-fourth** of the **Asia Pacific workforce** and are a **rapidly growing** source of **spending** power.



Among Asian Nations:

- Advanced in Digital Adoption: **Singapore, Hong Kong, Japan, and South Korea**
- **Low Adoption** but **Fastest Momentum**: **India, Malaysia, Bangladesh, Philippines, Indonesia.**

Key Cybersecurity Issues Facing Asia



Fraudulent Wire Transfer



Online Brand Impersonation



Security as an Afterthought:

Only 1 in 4 organizations in Asia take cybersecurity measures after an attack.

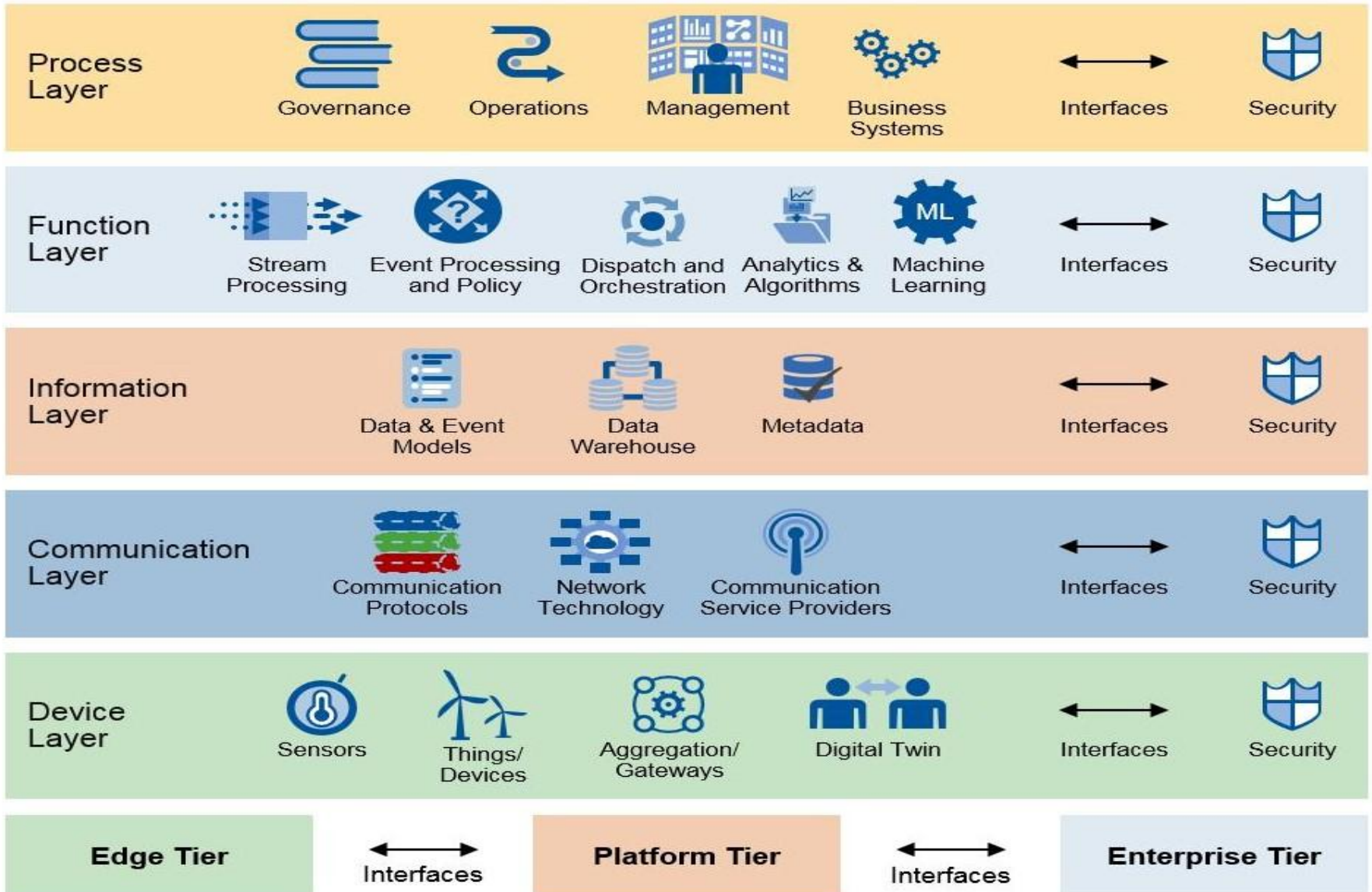


Complex Cybersecurity Environment



Lack of Comprehensive National and Regional Strategies

AI & IOT - Space





THANK YOU

