Information & Communication Technology
Information & Communication Technology Global Scenario
Asia/Pacific will lead IT spending growth through 2021, driven by accelerated digital adoption.

ICT Spending to reach USD 5.5 trillion by 2020.

83% of the global population generate 39% of the world’s telecommunication revenues.
3rd Platform Technologies are driving the growth of IT spending on the back of digital transformation

Cloud Servicing
Social Networking
Smart Mobility
Big Data/Analysis
Drones
Robotics

75% of 3rd Platform spending in 2017

More than 70% of IT spending
Contributed by 3rd Platform technologies through 2021

Market Learning
- Market intelligence
- Business Intelligence
- Test Marketing

Supply Chain
- Online search
- e-Procurement
- Co-Innovation

Production Processes
- Automation Suggestion systems
- Virtual Teams

Marketing & Selling
- ICT-Powered Marketing
- Customer engagement e-Commerce

Customer Service
- Staying in touch
- Getting Feedback
- Outsourcing

Value Chain
Global Highlights

Innovation

Key Sectors of ICT
- Education
- Industry
- Transportation
- Hospitals

Key Tools In ICT
- e-Group
- Internet
- Mobile Phones
- Intranet
- Video Conference

Key Industry Drivers
- Millennials and Generation C
- Smartphone adoption
- Disposable income
- Broadband penetration

Key Industries
- Microsoft
- IBM
- Google
- SAP
Information & Communication Technology in India
India Overview

- Fastest growing telecommunication sector with over 1.1 billion connections
- IT & ITeS industry grew to US$ 181 billion in 2018-19. Exports from the industry increased to US$ 137 billion in FY19
- Revenue from digital segment is expected to comprise 38 per cent of the forecasted US$ 350 billion industry revenue by 2025
- IT and BPM Sector is expected to grow to US$ 350 billion by 2025
- Allows 100% FDI in all Telecom services including ICT infrastructure
- Topmost off-shoring destination for IT companies across the world
- Global Innovation Index, India ranked No. 1 in export of ICT service, No. 2 in Innovation Quality
- In Asia Pacific region, India is ranked at 26th out of 34 countries in ICT sector

% of ICT Exports from India to worldwide

- Asia: 8%
- USA: 17%
- Europe: 11%
- UK: 62%
- Rest of the World: 2%

Foreign Investors in India

- Accenture (Ireland)
- HP (USA)
- IBM (USA)
- Microsoft (USA)
- SAP (Germany)
- Capgemini (France)
- Philips (Netherlands)
- Oracle Corporation (USA)

IT and ITeS Services in India

1. IT SERVICES
   - Revenue: Over 81 per cent of revenue comes from the export market.
   - Coverage: IT services had around 51.6% share in total Indian IT sector revenues in FY18.

2. BUSINESS PROCESS MANAGEMENT (BPM)
   - Market Size: US$ 32.5 billion during FY18
   - Revenue: 87 per cent of revenue comes from the export market
   - Coverage: Holds 19.5% share in Indian IT sector revenues in FY18.

3. SOFTWARE PRODUCTS & ENGINEERING SERVICES
   - Market Size: US$ 33 billion during FY18
   - Revenue: 83.9% of revenue comes from exports.
   - Coverage: Holds 19.8% share in Indian IT sector revenues in FY18.

4. HARDWARE
   - Market Size: US$ 15.2 billion in FY18
   - Revenue: Holds 9.1% share in Indian IT sector revenues in FY18.
   - Coverage: Domestic market accounts for maximum market share.
FDI Policy

- FDI up to 100% is allowed for data processing, software development and computer consultancy services etc.,
- 100% FDI is permitted in B2B E-commerce
- No FDI is permitted in B2C e-commerce
- 100% FDI is permitted in marketplace model of e-commerce
- FDI is not permitted in inventory based model of e-commerce

Sector Policy

- National Policy on Information Technology 2012 aims to increase revenues of IT and BPM industry by 2020
- It also aims to emerge India as the Global Hub and Destination for IT and BPM Services by 2020
- ICT accessible & available within the reach of whole of India

MOUs under ICT

1. Bangladesh- MOU on Cooperation in the field of Information Technology & Electronics, MOU on Cooperation in field of Cyber Security
2. China- MOU on Cooperation in the field of ICT
3. Egypt- MOU on Cooperation in the field of ICT
4. Germany- Joint declaration of internet on cooperation in field of digitalization-Empowerment & Economic Impact
5. Vietnam- MOU on Cooperation in the field of IT

UNIOIN BUDGET 2018-19

1. NITI Aayog to initiate a National Programme on Artificial Intelligence (AI)
2. Centres of Excellence to be set up on Robotics, Artificial Intelligence, Internet of things etc.,
India Highlights

Under the framework of India-China Joint Working Group (JWG) on High Tech, the MeitY and National Development and Reform Commission (NDRC) of China held the Sub-Group meeting on February 10, 2017, through Digital Video Conferencing (DVC).

New opportunities in various sectors such as providing BPO service from home, digital healthcare and agriculture to achieve the target of making India a US$ 1 trillion digital economy.

Plan to set Wi-Fi facility for around 5.5 lakh villages by March 2019 with an estimated investment of Rs 3,700 crore (US$ 555 million). Expected to start broadband services with about 1,000 megabit per second (1 gbps) across 1 lakh gram panchayats by the end of this year.

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Launch of project DARPAN - digital advancement of rural post office for a new India, for improving the quality and adding value to services and achieving financial inclusion for the unbanked rural population.

Government Initiatives
Key Companies in India
Information & Communication Technology in Karnataka
Karnataka Overview

Karnataka Is a Knowledge & IT Hub

Karnataka fourth largest technology cluster in the world

Largest Hub of Software Technology Parks of India

3500 IT/ITES companies in Karnataka

Bengaluru 2nd largest Technology cluster in the world after Silicon Valley

Bengaluru has emerged as IT start up Capital of India with more than 30% of National share

Karnataka i4 Policy 2014 aims to leverage Karnataka’s leadership position in IT

1991-2000
Karnataka began its outsourcing industry. 1st state to privatize engineering education

2001-2010
Attracted many Multi National Companies & R&D Operations were set up.

2011 onwards
Leader in Information Technology. Created sustainable & stronger Eco-System to meet global emerging needs
Why Karnataka?

- Karnataka is home to over 3500 IT companies, contributing to over 51.6 billion USD (Rs. 5.16 lakh Crores) of exports,
- Karnataka is a global leader in IT-BPM sourcing services sector
- IT industry contributes to over 25% of the State's GDP
- Karnataka is known as Silicon Valley of India
- Karnataka is the largest software exporter of India contributing 1/3 of total exports
- 80% of Fortune 500 companies operate in Karnataka

Karnataka is expected to be the largest IT cluster globally by 2020

Largest Software Exporting State in India

- 400+ Start Ups
- 1400+ Investors

- Providing the most conducive environment for business investments with over INR 6000 Cr investments flowing in
- 0.1 million skilled engineers and Ph.Ds. graduating annually & most being employed in IT sector
- Ranked No 1 by Mercer as the best place to work for expatriates and No 2 by Compass in global start-up eco-system growth

- Over 400+ R&D centres, 3rd largest with over 200+ engineering colleges, 20+ Universities, 200+ Polytechnics and 300+ Industrial Training Centres
- First State to announce a focused policy on Start-ups addressing the need for technology in manufacturing and allied sectors
- Well developed social physical & industrial infrastructure & virtual connectivity
- 50% of the world SEI CMM level 5 certified companies are located in Bengaluru
Karnataka Highlights

ICT Highlights

- 3500 IT Companies
- Direct employement-10 Lakh
- Indirect employement-30 Lakh
- Rs. 2.2 Lakh Core Exports

- 4th Best Technology Hub in the World
- 25% ICT Sector contribution to GSDP
- 15th Start up ecosystem across the world
- 38% of IT Exports
- Bengaluru ranks as No.1 Digital City in the World

Reasons to Invest

- Most globalized state with highest degree of openness to export trade
- 4th largest Skilled Workforce
- Bengaluru ranked “Best Place to Live & Work for exports” in India
- Pioneer in Introducing Policies
Karnataka Highlights

Software Technology Park Sub Centers

**Mysuru**
- Operational from Nov 1998
- Software exports of Rs. 2400 crores from STP/EHTP units during FY 2013-14
- More than 9500 manpower working, 2 IT companies, 10 ITES companies, 4 EHTP units.

**Hubballi/Dharwad**
- Operation from May 2001
- Incubation facility for SME’s in Northern Kannada Region
- 30 companies are incubated @ STPI Hubballi

**Manipal**
- Operational from Nov 1998
- 9 software exporters operate from Manipal STPI

**Hubballi/Dharwad**
- Phase-I Completed and in operation from April 2013
- Project cost : US $ 5 Million, 1,00,000 Sq.ft. IT workspace
- Adjacent to proposed 25 acres IT-SEZ

**Mangaluru**
- Incubation facility for SME’s in Dakshina Kannada Region
- 16 companies are incubated @ STPI Hubballi
Projects & Partnership

► YUVA YUGA
“YUVA YUGA” scheme an industry-led program to encourage and promote skill development for youth throughout Karnataka

► CHETANA EMPOWERING GIRLS WITH TECHNOLOGY DEPARTMENT OF IT, BT AND S&T, GOVERNMENT OF KARNATAKA
Empower, mentor and support girls through various activities including training sessions to use the laptop, interaction session with leaders from various domains like science, technology

► KITE (KARNATAKA’S INITIATIVE ON TECHNOLOGY BASED SOLUTIONS FOR ELDERLY)
Develop indigenous technology-based solutions to assist the requirements of elderly and impart self-reliance and quality of life to this section of society in their silver years

► WIFI
Deployment of Wi-Fi hotspots using NOFN backhaul of BSNL at 2150 Gram Panchayats across Karnataka. Wi-Fi Connectivity for all Government of Karnataka websites limited to 100Mb/day for each GP’s

Partnerships

MOU WITH SAMSUNG
MOU WITH HAGUE
MOU WITH GOVERNMENT OF JAPAN
MOU WITH MICROSOFT
MOU WITH NSDC
MOU WITH ESSCI
MOU WITH NIELIT
Recent INITIATIVES to Strengthen and Encourage ICT sector

► Proposed foreign collaboration on introduction of new courses on sports sciences, cyber security, aerospace & robotics

► Initiated country specific pavilions for global investors meet, Invest Karnataka

► Instrumental in initiating National Investment Manufacturing Zone in Chittapur

► Initiated the e-ICDS on trail basis in anganwadis of Tumkur

► Development of IT applications (rural & urban), including identification & implementation of application project in various sectors

► White Paper Submissions and Policy Recommendations for Govt. of Karnataka:
  - Cyber Security recommendations, Dept. of Home
  - NRI Policy, Govt. of Karnataka
  - Industrial Policy (HK Region) 2016

► Conceptualized and implemented “Namma Uru, Namma Hemme” (My village, my pride), a unique citizen and Govt initiative that banks on the participation of the citizen in development
The Government of India has announced the IT Investment Region (ITIR) scheme to promote investment in的信息与通信技术政策2011

- Establish institutes of Higher learning with focus on software Product Development
- Scholarships for students/employees take up research
- Create a low entry barrier for collaboration between local & international companies

- Set up Research Hub in Bangalore along with prototype & testing laboratory
- Representatives from NASSCOM, Dept. IT & BT, Director IIITB would be on the board of the Hub to decide regarding the equipment & facilities provided in the Hub

- Govt. of India in its Gazette Notification has announced the IT Investment region (ITIR) scheme to promote investment in IT
- It is envisaged to provide excellent Infrastructure & investor friendly policy environment in region
- ITIR is expected to boost IT exports & generate employment

- Micro, Small & Medium Enterprise play a prominent role in the economic growth & employment
- Govt. proposes to set up an innovation park on PPP mode of MSME
- Govt. will support creation of cluster with MSME providers & couple of large users of IT

- Exemptions from stamp Duty MSME, large 7 Mega Projects
- Concessional Registration charges MSME, large & Mega project
- Technology Upgradation Quality Certificate & Patent Registration
- Interest Free Loan on VAT

- Enable & encourage ‘Buy Local’ program for Karnataka based defence etc., for sourcing of local IT/BPO companies
- Online website portal to act as a networking platform
- Govt. & NASSOM organizes conference & seminars in Karnataka to increase awareness & motivate entrepreneurs
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<td>Employment linked incentivisation of land allotment (ELILA) outside BBMP limits</td>
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<td>Start up companies will be eligible for plug &amp; play space</td>
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<td>Strengthening Karnataka’s leadership position by using IT/ITES to transform society by giving better axis to SME &amp; Start ups</td>
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<td>Creating Brand Bengaluru 3.0 and Bengaluru First Fund</td>
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Key Companies
Contact Details

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