Indian IT Industry

Economic Diplomacy Division Ministry of External Affairs New Delhi



Source: 1

dia: A matchless IT business partner

MARKET: Most Attractive			BUSINESS INFRAS	FRUCTURE- Excellence in delivery		
~1.2 billion	Growing spending power — amongst the biggest market	LEADING GLOBAL SOURCING NATION	~7-8X	Entry level wages — Lesser compared to source nations		
>75%	Population with <35 years of age		>670	Number of Global Delivery Centers (GDCs) > 78		
375 million	Wider online user base; 29% growth in internet users		+16000	Diverse supplier landscape; >8000 digital-centric		
SKILLS — Digital hub			INNOVATOR- Taking the lead in driving growth for customers			
6.2 million	Talent composition — 2x growth in 5 years	67% Global sourcing share	>4,200	Start-ups innovating for futuristi technology areas		
~250,000	Digitally skilled people employed in India		250%	Growth in funding in B2B space over the last year		
> 1 million	Technical output — Engineers annually		~50	Collaboration between large & small providers		



Pre-1995

early 1990s, US-based upanies began to outsource k to low-cost and skilled nt pool in India

Growth of India's IT Sector

2005-Present

1995-2000

It Industry started to mature. Increased investment in R&D and infrastructure.

India increasingly seen as a product development destination

2000-05

The number of firms in India grew in size and started offering complex services such as product management and go-to-market strategies.

Western firms set up a number of captives in India

Firms in India became I with delivery centers ac the globe.

India's IT sector is at a inflection point, moving enterprise servicing to enterprise solutions.

The country has already become the third largest up base







ATE OF PLAY

ia is fast emerging as a digital nomy...Digital India, Make in ia, Skilling India are creating a ewed thrust on the domestic rket

ian IT companies can offer tions in the following segments: Social Mobile Analytics & Cloud (SMAC),

ERP, CRM, mobility and user experience technologies. Business Process Management sector, which is being driven

by greater automation, expanding omni-channel presence, application of analytics across entire value chain. India2016: Indian IT Industry clocked revenues of USD 146 billion...Exports segment USD 98.5 Billion...Domestic market grew by 14%- fuelled by ecommerce

The Indian IT and ITeS industry is divided in
major segments — IT services, Business Proces
Management (BPM), software products &
engineering services, and hardware.
IT Services:
🗖 Market Size: USD75 Bn
\square >81% of revenue comes from Exports
🖵 Banking, Financial Services & Insurance
(BFSI) is the major vertical.
BPM:
🗖 Market size: USD28 Bn
87% of revenue comes from Exports
Market size - USD54 billion by 2025
Software Products & Engineering Services:
Market size: USD27 billion
\square >84% of revenue comes from Exports
Hardware:
Market size: USD13.3 billion
Domestic market accounts for a significa
share.

ian IT-BPM industry

 $\textbf{BPM revenue break-up}^1$



COM has begun to report eCommerce market as part of domestic ; historical numbers have been changed to reflect addition of this nt

- □ Industry revenues (excluding e-Commerce) total at USD 143 B growth reflects variable impact of currency.
- □ Exports cross USD 100 Bn; doubled over last 6 years
- □ IT services ~USD 75 Bn
- □ India has become the global hub for high value added service **ER&D** and **Product Development** revenues ~USD 26 Bn.
- □ World's biggest BPM destination- Revenues of USD 28 Bn.
- □ ~USD 17 Bn E-Commerce industry, growing at 20% boosting of consumption.
- □ Increased consumer adoption of digital tech coupled with a technology focused Government growth agenda
 - Aadhar (Unique Identification Number) enrolment crossing 1
 - Large projects like Goods & Services Tax Network (GSTN) av
 - Electronic transactions related to eGov doubled in 2015 7

ervices: At par with industry growth rate - 10.3%; <u>M: Scale and maturity, the industry U</u>SP

IT services exports: Biggest segment of the industry



BPM exports: Knowledge services driving growth



- orld's largest IT services base >7,500 firms 7% share in global IT sourcing
- S outsourcing: Fastest growing (>12%)
- oftware testing: >11.5% growth; increased focus on quality, digital ransformation driving growth
- 50+ MNC and GIC firms

- Y-o-Y growth of nearly 9 per cent
- •38% global sourcing share
- •Investments in platform-based solutions, digital marketing services, analytics and consulting fundamentally changing industry landscape

dian IT-BPM: Mix of players

IT-BPM Industry Structure, FY 2016



dia IT: Business Destinations & Emerging verticals



FY2016E, 100% = USD 108 billion

stry hiring levels steady; specialized l sets in demand

Direct employment *



- Industry employee base reaches 3.7 million, addition of lakh in FY2016
- eCommerce industry 40,000 employees
- 1.1 million jobs added in last 5 years
- Annual talent output: 6.2 million
 - >1 million technical graduate pool
 - \sim 36-38 per cent share of global employable talen pool for IT
- Indian IT industry a Global talent powerhouse representative of millennials, showcasing diversity, and leadership in digital skills
- Talent hunt shifting from 'Qualification' to 'skill based'; hiring 'knowledge and expertise'

ding Hardware ** includes IT services, Software products, ER&D and product development *** excludes eCommerce

ommerce

- dia's I-commerce business valued @ US\$ 17 Bn in 016...US\$70~90 Bn by 2020.
- 0 Mn online shoppers...100 Mn by enc-2017.
- 3% of ←commerce is travel-related (tickets, hotel bookings etc. -tail business @ 29%
- obile/DTH recharge seeing >1 Mn transactions per day lectronics & Apparel are choicest purchases

dia's leading (-commerce companies — Flipkart (45% share), napdea (26%), Amazon (12%), PayTM (7%) and Others (10%).

ode of Payment: Cash on Delivery (76%), Debit Cards (10%), redit Cards (7%), Net Banking (5%), and Others (2%)

y Support:

00% FDI via automatic route is permitted in B2B e-commerce. DI in B2C ←commerce is permitted in the following cases: Single brand entities allowed to venture into E-commerce. Manufacturers allowed to sell via e-commerce.

DRIVERS of E-commerce:

- ☐ Young demography: >90% of online shoppers in India b to the 18 — 35 year age group.
- □ Gender usage: 65% male and 35% female
- **Rising Broadband & 3G penetration**
- Rising standards of living & upwardly mobile middle cl with high disposable incomes and busy lifestyles.
- □ Urbanisation will increase to 40% from 31%
- Growing nuclear households.

Growth in Mobile Phone user base is helping the growth of the E-commerce Industry

- According to World Bank: "A 10% increase in broadband penetration would yield a 1.38% increase in GDP growth"
- India's Internet economy to reach a value of US\$200 bills 2017.
- <u>2016 data</u>:
 - □ 1 Billion+ active mobile phone subscriptions.
 - □ 402 million+ internet users.
 - □ 300 million+ smart phone users.

&RD

- ording to Consulting Firm Zinnov: "India accounted \$12.3 billion, or 40%, of the total of \$31 billion of alized engineering and R&D (E&RD) in 2015".
- Indian E&RD market is expected to reach US\$ 38 Bn 2020
- vices offered by Indian E&RD Firms include: upporting clients on innovation
- Enabling access to new markets (SBMs)
- esigning products for emerging markets (frugal ngineering)
- nnovating on existing designs to suit market needs nd client requirements
- riving end-to-end product development



- There are over 400 service providers and captives offering ER&D services from India
- Over 200,000 engineers have been employed by servi providers and captives in India
- Indian service providers invest around 3.5% in R&D
- India-based ER&D centres resulted in cost savings of 20 billion for global organisations

IGITAL INDIA

N:

gital infrastructure for every citizer: This includes internet ailability, digital identity, mobile phones, bank accounts, safe d secure cyber space, etc

vernance and services on deman¢ It includes real-time ailability of services on mobile phones and online platforms, abling electronic and cashless financial transactions possible,

gital empowerment of citizens:It encompasses universal gital literacy, availability of digital resources in Indian nguages, etc

ACTION PLAN:

- Setting up of a pan-India fibre-optic network .
- Wi-Fi services in cities with a population of more than 1 million.
- Broadband access to 250,000 village clusters by 2019
- Digital lockers to each citizen, allowing them to store all the original identification documents and records
- Universal mobile phone connectivity
- Net Zero Electronic Imports by 2020
- Focus on moving toward automation in delivery of governm services
- Achievement of a leadership position in IT toward betterme health, education and banking services

ESS OPPORTUNITIES:

- ectronics anufacturing lecom secto
- On-line education
 Healthcare
 Broadband sector

Highlights of Budget 2017-18:

- Budget for pan-India Fibre-option network increased to Rs. 10,000 crores (\$1.5 Bn)
- End 2017-18, high speed broadband connectivity on optical fiber will be available more than 150,000 villages under Bharat Net Scheme.
- A DigiGaon (Digital Village) initiative will be launched to provide tele-medicine, education and skills to villages through digital technology.

schemes of GOI



are Technology Parks of India (STP):

I was set up in 1991 as an Autonomous Society r the Department of Electronics and Information nology

<u>Services Provided:</u> Statutory services, data communications servers, incubation facilities, training and value added services.

<u>Special Focus</u>: SMEs and start up units. STP scheme - a 100% export oriented scheme, allows software companies to set up operations in convenient and inexpensive locations and plan their investment and growth driven by business needs. Over 2500 units are registered under STP Scheme.

Benefits under STP Scheme:

- **Customs Duty Exemption in full on imports.**
- □ Central Excise Duty Exemption in full on indigenous procurement.
- □ Central Sales Tax Reimbursement on indigenous purchase against from
- □ All relevant equipment / goods including second hand equipment can imported (except prohibited items).
- **—** Equipment can also be imported on loan basis/lease.
- □ 100% FDI is permitted through automatic route.
- Sales in the Domestic Tariff Area up to 50% of the FOB value of exp permissible.
- Use of computer imported for training permissible subject to certain conditions.
- Depreciation on computers at accelerated rates up to 100% over 5 years is permissible.
- □ For more info. Visit STPI website <u>http://www.stpi.in</u>

EZ Scheme

n 2005, the Ministry of Commerce & Industry, Government of ndia enacted the Special Economic Zone (SEZ) Act.

t provides drastic simplification of procedures and a single indow clearance policy on matters relating to central and state overnments.

he scheme is ideal for bigger Industries and has a significant mpact on future Exports and employment

he SEZ policy aims at creating competitive, convenient and ntegrated Zones offering World class infrastructure, utilities and ervices for globally oriented businesses.

he SEZ Act 2005 envisages key role for the State Governments in xport Promotion and creation of related infrastructure

Salient features of SEZ scheme are as under:

- Duty free import/domestic procurement of goods for development, operation and maintenance of SEZ units
- 100% Income Tax exemption on export income for SEZ u under Section 10AA of the Income Tax Act for first 5 ye 50% for next 5 years thereafter and 50% of the ploughe back export profit for next 5 years.
- □ Exemption from Central Sales Tax.
- **Exemption from Service Tax.**
- □ Single window clearance for Central and State level approvals.
- Exemption from State sales tax and other levies as exter by the respective State Governments.
- □ This scheme has a significant impact on future exports employment. About 202 IT-ITES specific SEZs have been notified by the DOC.
- □ For more info.Visit <u>http://www.sezindia.nic.in/</u>



ndian IT Trends:

Indian tech players are helping create smart enterprises through confluence of Digital technologies-Cloud, Mobility, IOT, Social, Big Data

Industry players adopting multiple business models (partnerships/collaboration/ M&A) to address the digital opportunity

Indian service providers going bimodal- growth in both traditional and digital markets

Rapidly growing start-up ecosystem redefining innovation

India's consumer economy, Government' initiatives for digitization of India - driving activity in the domestic market

dia: A digitally mature economy

m subscribers (Jan 2017)

	,			
,102.94 million	World's fastest growing telecom network			
ss subscribers (Oct 2016)				
1078.42 million	3rd country globally to have >5 internet firms value at $>$ \$ 1 Bn			
t user base (2016)				
462 million	2nd largest user base overtaking the US			
internet users (June 2016)				
371 million	To grow to 500 million by Dec 2017			
and (>512 kbps download) subscribers (Oct 2016)				
218.42 million	To grow to 500 million by 2020			
data consumption				
82Pb (2015)	Avg data usage/month: 29% growth in 3G data			

eloitte, IAMAI, IBEF, Nokia, TRAI, Zinnov, Secondary sources

India - 2020





600 Mn Interne Users





520 Mn Smartphone Users 90% Tech Influenced SM



Govt.

SMART CITY

100 Smart Citi

rtups: India's next wave of tech growth



Emerging in high impact areas



Industry pursuing multifaceted startup collaboration strategy



WIPRO: \$100M initial corpus for venture fund

S: 31 academic alliances and 21 R&D partners

IBM Innovation Centers: 100 Big Data & IoT startups tie-ups

NDTREE: '5/50 initiative' to promote in-house disruptive ideas

HCL: 'Value-portal' and 'MAD Jam' to foster employee-led ideas

CART-UP INDIA

ions building a strong eco-system for nurturing ation and Startups in the country and empowering ups to grow through innovation and design.

tures of the Scheme:

- Simple Compliance Regime based on Self-certification
- Legal support & fast-tracking patent examination at reduced costs.
- Relaxed norms of public procurement for start-ups Faster Exit.
- Fund support through a corpus of US\$ 1.5Bn.
- Credit guarantee support \sim US\$ 75Mn per year for 4 years (ending in 2020)
- Tax exemption for 3 years.
- Start-Up Fests & Annual Incubator Challenge

#startupindia

- India ranks 3rd globally in terms of the number of start-up
- 19,000 technology-enabled start-ups. Dominated by Internet financial services start-ups.
- World's youngest start-up nation \sim 72% founders less tha years in age.
- Bengaluru ranks 15th globally in Start-up Ecosystem Ranki for 2015.
- Number of start-ups with Series A round funding in 2014 46 while it increased to 114 in 2015.
- Total Start Up investment: \$4.7 billion in 2014 to \$7.2 bi in 2015.

Venture Capitalists (VC) operating in India:

- Early VCs: Seedfund, Accel, Kae Capital, and Venture East.
- Late VCs: Helion, Sequoia, Matrix.

Revenues to reach US\$ 350 billion by 2025

India technology & services revenue pool

USD billion



Digital revenues to spearhead growth

- □ Global enterprise tech spend will rise to USD 4 trillion by 2025, 80 per cent of incremental tech spending will digital
- □ Indian technology services revenues projected to reach USD 350 billion by 2020, CAGR of 11 per cent
- Successful Indian companies will have to fundamentall transform their business models, solution offerings, organization and capabilities to establish leadership
- Revenue growth not the only indicator of India's tech leadership; factors such as investment, valuations etc., may need to be considered

T, Big Data & AI

he Internet of Things (IoT) market in India is expected to each \$15 Bn by 2020...roughly 5% of the global market.

- early 120 companies offer IoT solutions, 70% of these IoT tartups have emerged in the last five years itself.
- **umulative amount of \$60 Mn** has been invested in the last wo years alone.
- ealthcare and manufacturing are the leading verticals emanding IoT solutions. Next-gen commerce along with ransport and logistics are gaining adoption with connected ehicles and systems
- **ew segments:** Smart lifestyle, connected homes & buildings nd connected homes.
- ndia's first centre for excellence in Internet of Things (IoT) as been set up in Bengaluru in July 2016.

- □ Big data analytics market in India has been valued curren at \$1.2 Bn...Market is growing at 26% CAGR...expected t reach \$16 Bn by 2025.
- There are about 600 companies in this space out of which are startups and approx. India's market share is expected 32% looking at a multipronged approach of skill development thought leadership, products, and platform to realize the vis
- The analytics industry in India employs 90,000 people currently in sectors such as BFSI, retail, telecom and health and the growth is propelled by demand for cloud-based solutions and predictive analytics capabilities.
- □ In India, more than 200 **Artificial Intelligence** (AI)-focused global companies have collectively raised more than \$1.5 billion so far in the past year.
- Driven by evolving technology and a flourishing domestic market, Indian entrepreneurs are increasingly exploring ne opportunities in AI and machine learning across a variety applications and use cases.

ndustry working to mitigate key issues



LECTRONICS

n Electronics System Design and Manufacturing (ESDM) try is one of the fastest growing sectors in the country.

ging global landscapes in electronics design and facturing capabilities, and cost structures have turned the tion of global companies towards India.

of Play:

65% of the electronics is currently imported; 25-30% of the systems simply assembled; less than 10% of the electronic systems are completely designed and manufactured in India. Almost 100% of semiconductors are imported. stic production can cater to a demand of only \$100 Bn by demand-supply gap of \$300 Bn.

Electronics imports, are currently the 3rd highest, next to crude and gold.

Top 10 electronic products contributing about 70% by total revenue include:

- Mobile Phones
- Flat Panel TVs
- Notebooks
- Desktops
- Digital Camera

- Inverters & UPS
- Memory Cards & USB Drive
- 4W EMS
- LCD Monitors

Servers

Segment: 2020 Mkt. Size

LED
Telecom Equipment
Laptops/Portables
Consumer Electronics
Medical Electronics
Set Top Boxes
Automotive Electronics



ED 2017

ECTERONICS...2

ies to promote ESDM industry include:

- **National Policy on Electronics**
- **Preferential Market Access**
- Modified Special Incentive Package (MSIP) Scheme Fab policy
- Electronic Manufacturing Clusters (EMCs) and Information Technology Investment Regions (ITIRs) Export Incentives

l Policy on Electronics

chieve a turnover of \$400Bn by 2020 by investing \$100Bn. uild a supply chain...raise local production from 20~25% to 60%

tial Market Access

erence for locally manufactured electronic goods in Govt. urement...not less than 30 % of the total procurement.

Modified Special Incentive Package Scheme (MSIPS)

- Subsidy of 25% on Capex if the ESDM unit is in non-SEZ ar 20% on capex if within SEZ...available for investments mad within 5 years from date of approval.
- 200% deduction on R&D for electronic chip manufacturing u
- Reimbursement of central taxes and duties (like custom duties excise duties and service tax) for 10 years in select high-tunits like Fabs, Semiconductor Logic and Memory chips, LCD fabrication...applications accepted till Dec 2018.
- **Budget 2017-18:** US\$111 million) worth incentives under MS scheme.

Electronic Manufacturing Clusters Scheme

Grant assistance for setting up Greenfield & Brownfield EMC

Export Incentives

- 0% Basic Customs Duty on products covered under the Information Technology Agreement (ITA) of WTO & Specified materials used for manufacture of electronic components and optical fibers and cables.
- Focus Product Scheme (FPS) Duty Credit 2% of FOB and Special Focus Product Scheme (SFPS) — Duty Credit 5% of I

