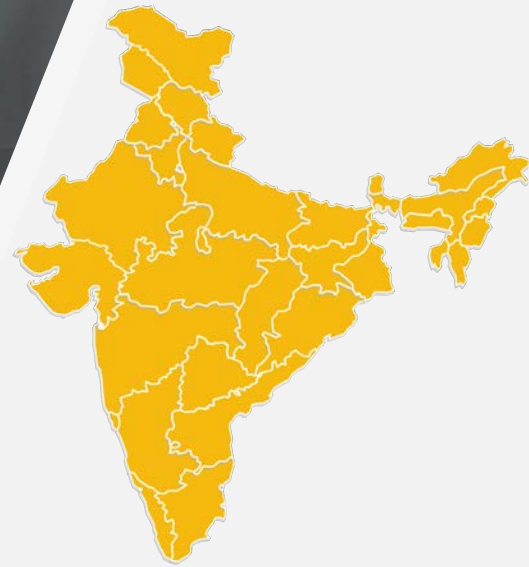




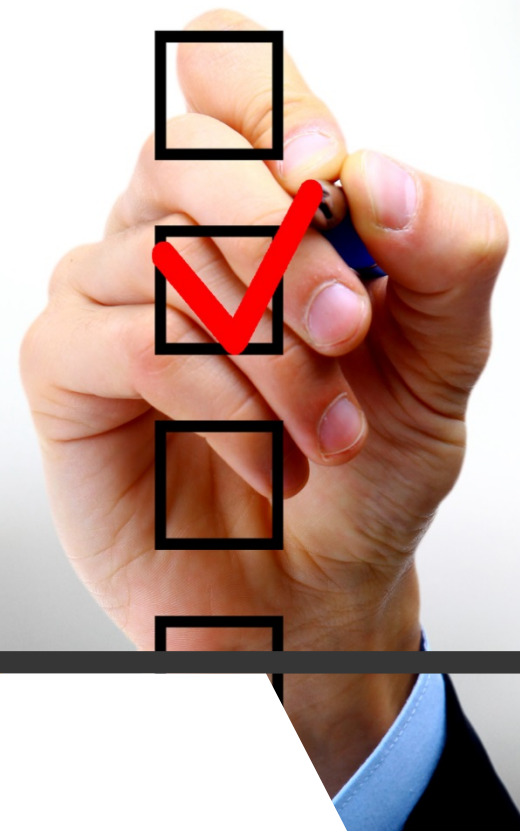
# IT & ITeS



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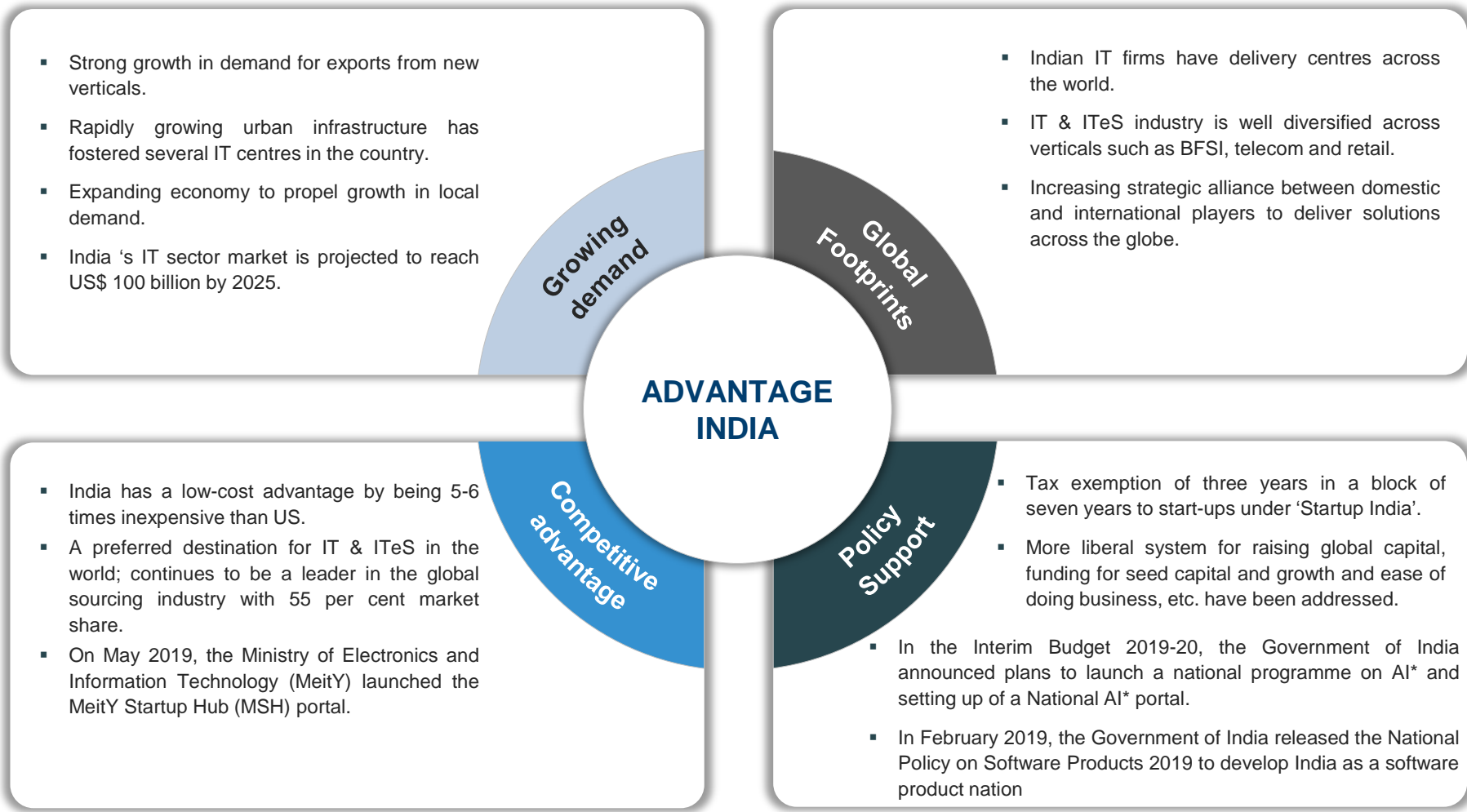
# EXECUTIVE SUMMARY

Large contribution to the Indian economy	<ul style="list-style-type: none"><li>India's IT industry contributed around 7.7 per cent to the country's GDP and is expected to contribute 10 per cent of India's GDP by 2025. As of FY19, IT industry employees 4.1 million people.</li><li>IT industry is fueling the growth of start-ups in India, with the presence of around 5,300 tech start-ups in India.</li></ul>
Strong growth opportunities	<ul style="list-style-type: none"><li>The IT-BPM sector in India stood at US\$177 billion in 2019 witnessing a growth of 6.1 per cent year-on-year and is estimated that the size of the industry will grow to US\$ 350 billion by 2025.</li><li>As the increasing focus on technology has been seen across all the industries, IT industry will create the maximum jobs in India by end of 2019.</li></ul>
Leading sourcing destination	<ul style="list-style-type: none"><li>India is the leading sourcing destination across the world, accounting for approximately 55 per cent market share of the US\$ 185-190 billion global services sourcing business in 2017-18.</li><li>India acquired a share of around 38 per cent in the overall Business Process Management (BPM) sourcing market.</li></ul>
Largest pool of ready to hire talent	<ul style="list-style-type: none"><li>India's highly qualified talent pool of technical graduates is one of the largest in the world, facilitating its emergence as a preferred destination for outsourcing, computer science/information technology accounts for the biggest chunk of India's fresh engineering talent pool, with more than 98 per cent of the colleges offering this stream.</li></ul>
Most lucrative sector for investments	<ul style="list-style-type: none"><li>The computer software and hardware sector in India attracted cumulative Foreign Direct Investment (FDI) inflows worth US\$ 41.26 billion between April 2000 and September 2019 and ranks second in inflow of FDI, as per data released by the Department for Promotion of Industry and Internal Trade (DPIIT).</li></ul>
Export and employment growth	<ul style="list-style-type: none"><li>Total export revenue of the industry is expected to grow 8.3 per cent year-on-year to US\$ 136 billion in FY19. IT-BPM sector accounts for largest share in total Indian services export, which is 45 per cent.</li><li>Hiring at India's top 10 information technology (IT) companies grew more than four-fold year-on-year in 2018.</li></ul>

*Note: BPM – Business Process Management  
Source: NASSCOM, DPIIT, TechSci Research*

# ADVANTAGE INDIA





**Note:** SEZ stands for Special Economic Zone, BFSI stands for Banking, Financial Services and Insurance, E stands for Estimate, F stands for Forecast, AI\* - Artificial Intelligence  
**Source :** Nasscom, News sources

# MARKET OVERVIEW





# EVOLUTION OF THE INDIAN IT SECTOR

- With increased investment in R & D, India became a product development destination.

- Firms in India became multinational companies with delivery centres across the globe
- India's IT sector is at an inflection point, moving from enterprise servicing to enterprise solutions

**Pre-1995**

**1995-2000**

**2000-05**

**2005-2016**

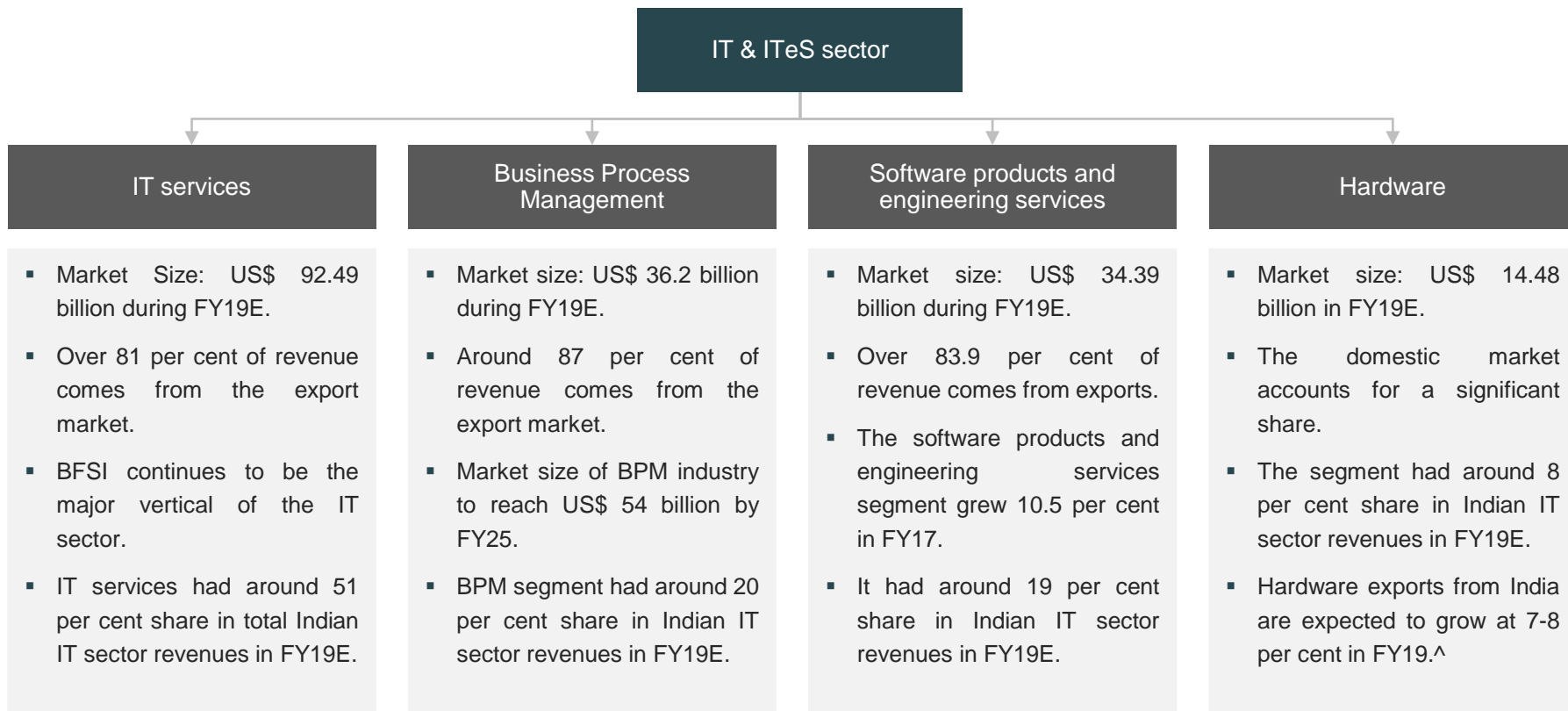
**2017**

- By early 90s, US-based companies began to outsource work on low-cost and skilled talent pool in India.

- Firms in India grew in terms of their size and scope of services offered as more and more western companies' setup their bases in the country.

- The US\$ 167 billion Indian IT industry employs nearly four million people.
- India ranks third among global start-up ecosystems with more than 5,300 tech start-ups.
- Indian IT and BPM industry is expected to grow to US\$ 350 billion by 2025

# SEGMENTS OF INDIA'S IT SECTOR



**Notes:** E – estimated, ^As per Electronics and Computer Software Export Promotion Council

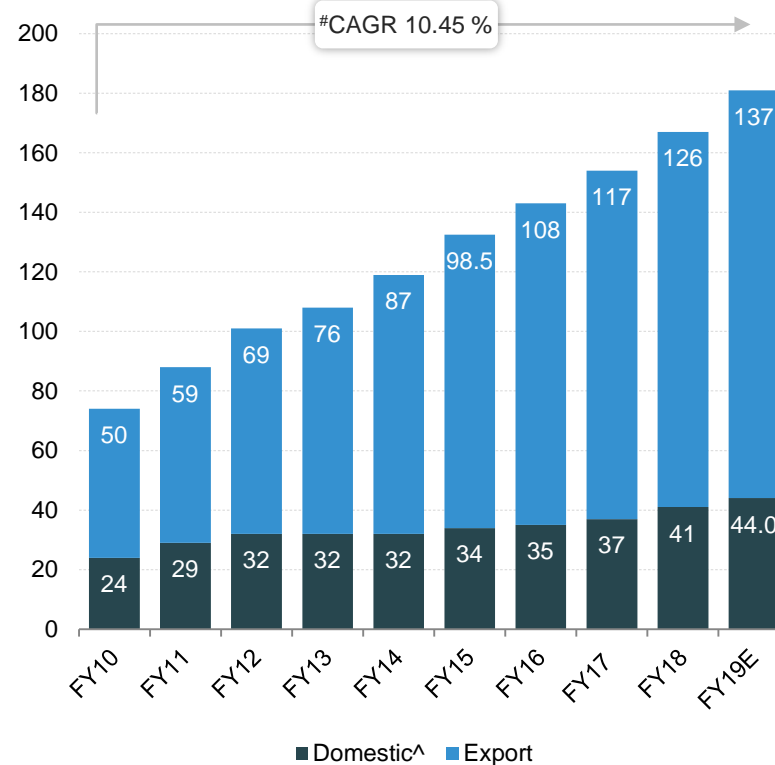
**Source:** NASSCOM, TechSci Research, News sources



# INDIA'S IT MARKET SIZE GROWING

- IT BPM industry revenues was estimated at around US\$ 177 billion in FY2018-19 with a growth rate of 6.1 per cent.
- Market size of IT and business services is likely to reach at US\$ 13.1 billion with the growth of eight per cent by end of 2019 and US\$ 14.3 billion by 2020.
- The contribution of the IT sector to India's GDP stood at 7.9 per cent in 2017-18.
- The domestic revenue<sup>^</sup> of the IT industry is estimated at US\$ 44 billion and export revenue is estimated at US\$ 137 billion in FY19.
- The market size of India's IT-BPM sector is expected to grow to US\$ 350 billion by 2025 and BPM is expected to account for US\$ 50-55 billion out of the total revenue.
- Spending on information technology in India is expected to reach US\$ 90 billion in 2019.
- Outsourcing of large technology contracts by clients is expected to accelerate the growth of the industry in FY20.
- The cloud market in India is expected to grow three-fold to US\$ 7.1 billion by 2022 with the help of Growing adoption of Big Data, analytics, artificial intelligence and Internet of Things (IoT), according to Cloud Next Wave of Growth in India report.
- India's digital economy is estimated to reach US\$ 1 trillion by 2025.

Market size of IT industry in India (US\$ billion)

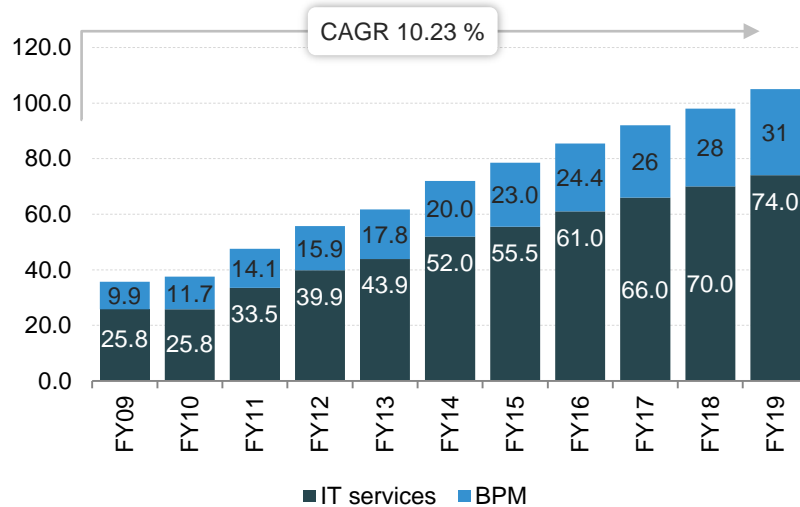


Note: E – estimate, \*As per Gartner, ^Including Hardware, #CAGR is for total of domestic and export

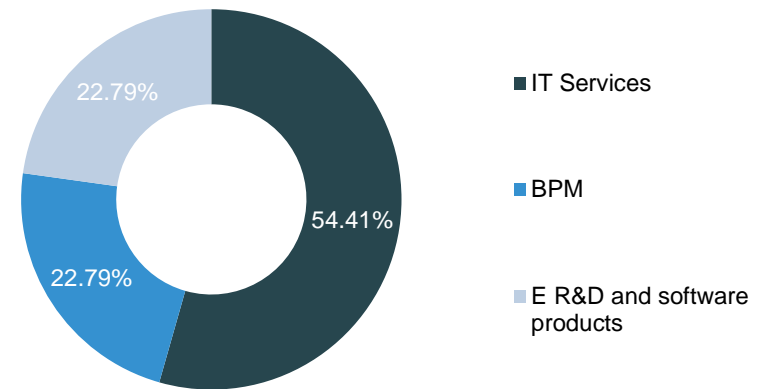
Source: NASSCOM, Gartner, TechSci Research

# STRONG GROWTH IN IT & ITeS EXPORTS

Growth in export revenue (US\$ billion)



Sector-wise breakup of export revenue (FY19)



- The export sector crossed US\$ 137 billion of revenues in FY19 growing at 8.3 per cent.
- Exports rose at a CAGR of 10.23 per cent during FY13-19.
- Export of IT services has been the major contributor, accounting for 54 per cent of total IT exports (including hardware), during FY19.
- BPM and ER&D and software products exports accounted for 22.79 per cent and 22.79 per cent of total IT exports during FY19, respectively. ER&D market is expected to grow to US\$ 42 billion by 2022 from US\$ 28 billion, currently.

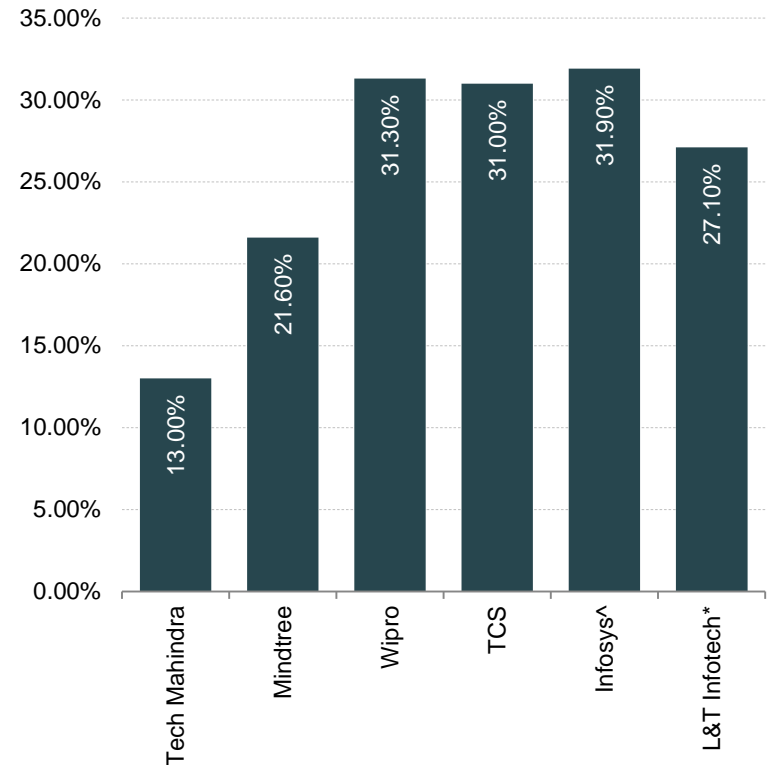
Note: E – estimated

Source: Nasscom, Make in India, IDC

# BFSI - A KEY BUSINESS VERTICAL FOR IT-BPM INDUSTRY

- BFSI is a key business vertical for the IT-BPM industry. A major share of revenue of IT majors comes from the BFSI business vertical.
- Adoption of new technologies is expected to accelerate growth of the BFSI vertical. The need for undertaking investments in IT will also be required for gaining competitive advantage instead of solely for reducing operational costs.
- Revenue growth in the BFSI vertical stood at 6.8 per cent y-o-y between July-September 2018.
- Analysts expect healthy Q4 FY19 results for the IT-BPM industry due to execution of deal wins recently.
- In May 2019, Infosys acquired 75 per cent stake in ABN AMRO Bank's subsidiary Stater for US\$ 143.08 million
- In June 2019, Mindtree was acquired by L&T.

Revenue share of IT majors from BFSI (Q2 FY20)



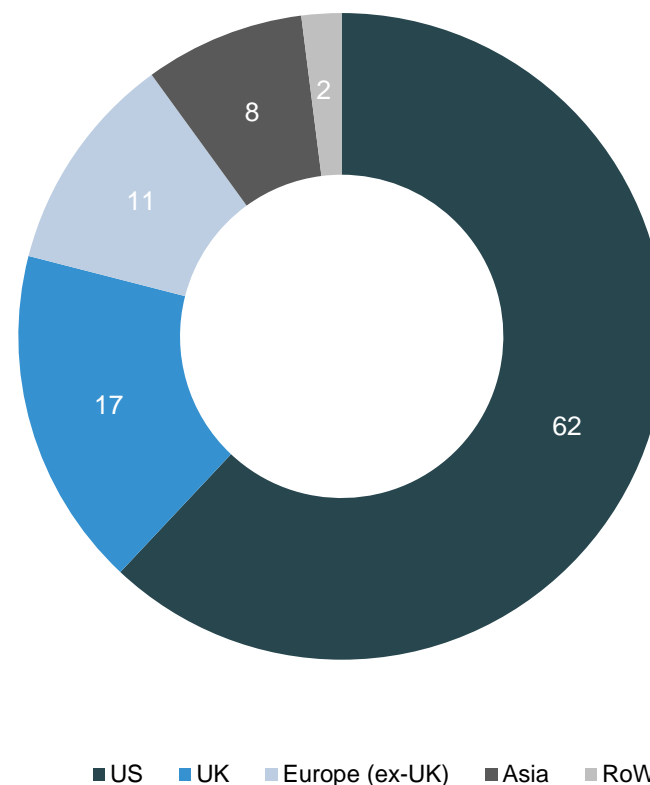
**Note:** BFSI - Banking, Financial Services and Insurance, mentioned figures are for IT and BPM only and do not include engineering services and hardware exports, <sup>^</sup>For the 'Financial Services' vertical, <sup>\*</sup>Sum of 'BFS' and 'Insurance' verticals

**Source:** NASSCOM Quarterly Review, Ministry of Electronics and IT Annual Report, Company Financial Results and Factsheets

# WITH OVER 62 PER CENT SHARE, US IS MAJOR IMPORTER OF IT SERVICES

- US has traditionally been the biggest importer of Indian IT exports; over 62 per cent of Indian IT-BPM exports were absorbed by the US during FY19.
- Non-US-UK countries accounted for just 21 per cent of total Indian IT-BPM exports during FY19.
- As of FY19, US and UK are the leading customer markets with a combined share of nearly 80 per cent. However, there is growing demand from APAC, Latin America and Middle East Asia.
- Being the low-cost exporter of IT services, India is going to attract more markets in other regions in the same manner it tapped US markets.

Geographic breakup of export revenue in 2018-19E (percentage)



*Note: ROW is Rest Of the World, APAC is Asia Pacific, E-estimated*

*Source: Nasscom, Department of Electronics and IT Annual Report*

# IT-BPM SECTOR DOMINATED BY LARGE PLAYERS

Category	Number of players	Percentage of total export revenue	Percentage of total employees	Work Focus
Large	11	47-50%	~35-38%	<ul style="list-style-type: none"> <li>Fully integrated players offering complete range of services</li> <li>Large scale operations and infrastructure</li> <li>Presence in over 60 countries</li> </ul>
Medium	120-150	32-35%	~28-30%	<ul style="list-style-type: none"> <li>Mid tier Indian and MNC firms offering services in multiple verticals</li> <li>Dedicated captive centres</li> <li>Near shore and offshore presence in more than 30-35 countries</li> </ul>
Emerging	~1,000-1,200	9-10%	~15-20%	<ul style="list-style-type: none"> <li>Players offering niche IT-BPM services</li> <li>Dedicated captives offering niche services</li> <li>Expanding focus towards sub Fortune 500/1,000 firms</li> </ul>
Small	~15,000	9-10%	~15-18%	<ul style="list-style-type: none"> <li>Small players focussing on specific niches in either services or verticals</li> <li>Includes Indian providers and small niche captives</li> </ul>

Source: Nasscom

# RECENT TRENDS AND STRATEGIES



# NOTABLE TRENDS

## Global delivery model

- Indian software product industry is expected to reach the mark of US\$ 100 billion by 2025. Indian companies have set up over 1,000 global delivery centres in about 80 countries over the world.

## Leading sourcing destination

- India is a prominent sourcing destination across the world, accounting for approximately 55 per cent market share in the global services sourcing business, as of FY18.
- India acquired a share of around 38 per cent in the overall Business Process Management (BPM) sourcing market.

## Rise of onshoring

- Fall in automation costs and rise of digital has led to higher onshoring by the industry.
- Onshore revenue of Indian IT industry\* has grown from around 48 per cent in 2011-12 to 55.2 per cent for the quarter ended June 2018^.

## New technologies

- Disruptive technologies, such as cloud computing, social media and data analytics, are offering new avenues of growth across verticals for IT companies
- The SMAC (social, mobility, analytics, cloud) market is expected to grow to US\$ 225 billion by 2020

## Growth in non-linear models

- India's IT sector is gradually moving from linear models (rising headcount to increase revenue) to non-linear ones
- In line with this, IT companies in India are focusing on new models such as platform-based BPM services and creation of intellectual property

## Large players gaining advantage

- Large players with a wide range of capabilities are gaining ground as they move from being simple maintenance providers to full-service players, offering infrastructure, system integration and consulting services
- Of the total revenue, about 80 per cent is contributed by 200 large and medium players

*Note: \*Company financials of top listed companies – NASSCOM, ^NASSCOM Quarterly Industry Review September 2018*



<p>SMAC technologies, an inflection point for Indian IT</p>	<ul style="list-style-type: none"> <li>▪ Social, Mobility, Analytics and Cloud (SMAC), a paradigm shift in IT-BPM approaches experienced until now, is leading to digitisation of the entire business model</li> </ul>
<p>Collaborations</p>	<ul style="list-style-type: none"> <li>▪ The National Association of Software and Services Companies (NASSCOM), IT industry body has partnered with GE Healthcare to bring digital healthcare solutions to the market.</li> <li>▪ Tech consultancy firm of UK Contino has been acquired by Cognizant.</li> <li>▪ Tata Consultancy Services (TCS), India's largest software services firm announced its collaboration tech giant Google to build industry-specific cloud solutions.</li> </ul>
<p>Most lucrative sector for investments</p>	<ul style="list-style-type: none"> <li>▪ The computer software and hardware sector in India attracted cumulative foreign direct investment (FDI) inflows worth US\$ 37.23 billion between April 2000 and March 2019 , according to data released by the Department for Promotion of Industry and Internal Trade (DPIIT).</li> </ul>
<p>Emergence of Tier II cities</p>	<ul style="list-style-type: none"> <li>▪ Tier II and III cities are increasingly gaining traction among IT companies, aiming to establish business in India.</li> <li>▪ Cheap labour, affordable real estate, favourable government regulations, tax breaks and SEZ schemes facilitating their emergence as a new IT destination</li> <li>▪ Giving rise to the domestic hub and spoke model, with Tier I cities acting as hubs and Tier II, III and IV as network of spokes.</li> </ul>
<p>Changing business dynamics</p>	<ul style="list-style-type: none"> <li>▪ India's IT market is experiencing a significant shift from a few large-size deals to multiple small-size ones</li> <li>▪ The number of start-ups in technology is expected to reach 50000, adding to around 2 per cent of GDP</li> <li>▪ Delivery models are being altered, as the business is moving to capital expenditure (Capex) based models from operational expenditure (Opex), from a vendor's frame of reference</li> </ul>

# STRATEGIES ADOPTED

## Movement to SMAC and digital space

- Social Computing, Mobility, Analytics and Cloud (SMAC) is taking significant leaps
- Companies are getting into this field by offering big data services, which provides clients better insights for future cases

## Fast-growing sectors within the BPM domain

- Knowledge services, data analytics, legal services, Business Process as a Service (BPaaS), cloud-based services

## Promotion of R&D

- Companies are now investing a lot in R&D and training employees to create an efficient workforce, enhancing productivity and quality
- R & D forms a significant portion of companies' expenses, which is critical when margins are in pressure, to promote innovations in the changing landscape

## Expanding in Tier II and III cities and externally

- Companies are expanding their business to Tier II and III cities to have low cost advantage
- In October 2018, HCL Technologies laid the foundation stone for a new global IT development centre at Vijayawada. The facility will come up over 29.86 acres at an investment of Rs 700 crore (US\$ 99.74 million).
- Companies are expanding their business towards emerging economies of East Europe and Latin American countries

## Product and Pricing differentiation

- Most of the IT companies have been offering similar products and services to their clients
- The companies are working towards product differentiation through various other services by branding themselves, e.g. Building Tomorrow's Enterprise by Infosys
- Indian IT firms have started to adopt pricing strategies to compete with Global firms like IBM and Accenture

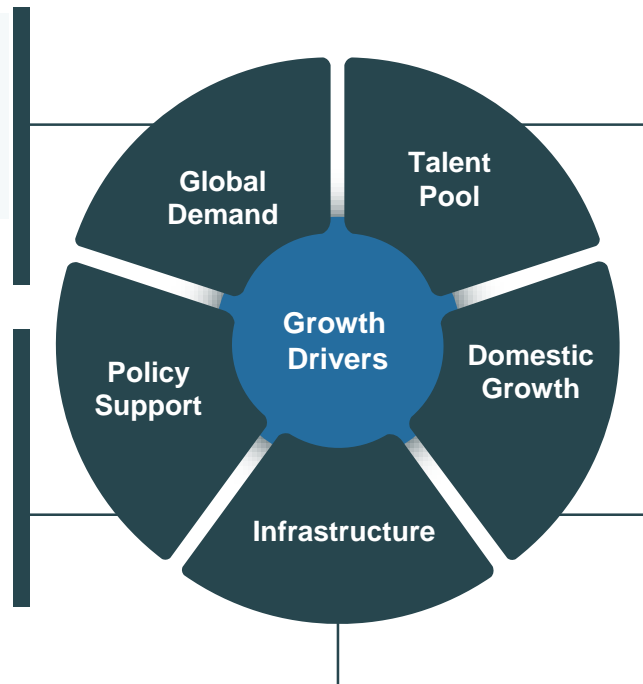
# GROWTH DRIVERS AND OPPORTUNITIES



# IT SECTOR TO BE DRIVEN BY STRONG DEMAND AND INDIAN EXPERTISE

- Global BPM spending estimated to rise and reach to US\$ 233 billion by 2020

- Tax holidays for STPI and SEZs
- More liberal system for raising capital, seed money and ease of doing business.
- In the Interim Budget 2019-20, the Government of India announced plans to launch a national programme on AI\* and setting up of a National AI\* portal.
- Government of India has identified Information Technology as one of the 12 champion service sectors for which an action plan is being developed. Also, the government has set up a Rs 5,000 crore (US\$ 745.82 million) fund for realising the potential of these champion service sectors.



- Nasscom has launched an online platform which is aimed at up-skilling over 2 million technology professionals and skilling another 2 million potential employees and students.
- Strong mix of young and experienced professionals
- IT service giant DXC Technology has decided to set up its first global analytics unit in Bengaluru to leverage the skill set that India offers.
- Computer penetration expected to increase
- Increasing adoption of technology and telecom by consumers and focused government initiatives leading to increased ICT adoption
- United Nations Conference on Trade and Development (UNCTAD) has forecasted 6 per cent growth for Indian economy in 2019.

- Robust IT infrastructure across various cities in India such as Bengaluru
- Technology mission for services in villages and schools, training in IT skills and E-Kranti for government service delivery and governance scheme

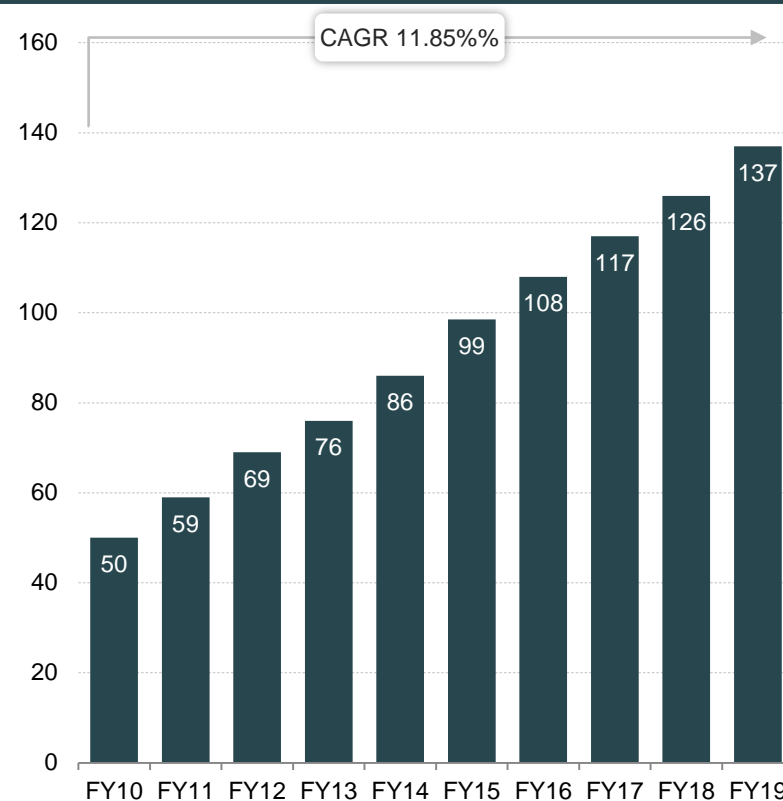
**Note:** STPI stands for Software Technology Park of India, SEZ stands for Special Economic Zone, ICT - Information and communications technology, IT-BPM – Information Technology Business Process Management, AI\* - Artificial Intelligence

**Source:** Nasscom, News Articles

# EXPORTS TO REMAIN ROBUST AS GLOBAL IT INDUSTRY MAINTAINS GROWTH

- Export revenue from the industry has grown at a CAGR of 11.85 per cent to US\$ 137 billion in FY19E from US\$ 50 billion in FY10.
- In 2019, IT-BPM industry export revenue has crossed US\$ 137 billion with the growth of 7-9 per cent.
- In FY19 Exports in IT and IT Enabled Services (ITeS) registered a growth of 17 per cent to reach Rs 1.09 lakh crore (US\$ 15.63 billion) in Telangana.

Export revenue from IT industry (US\$ billion)

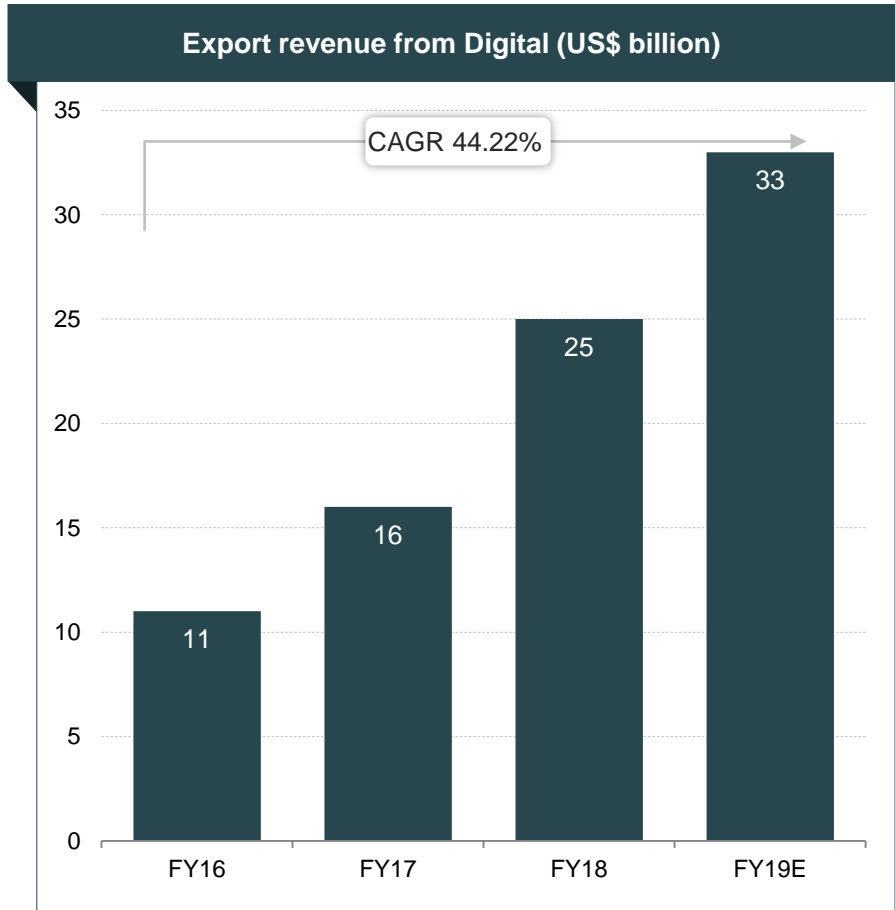


Note: E – Estimate

Source: Nasscom, Media Sources

# DIGITAL EXPORTS TO BE A MAJOR GROWTH DRIVER

- Global digital spend is expected to increase from US\$ 180 billion in 2017 to US\$ 310 billion by 2020.
- India's IT industry is increasingly focusing on digital opportunities as digital is poised to be a major segment in the next few years. It is also currently the fastest growing segment, growing over 30 per cent annually.
- In India, domestic market of computer services is growing faster than their exports, which is fueled by government's Digital India programme.
- Export revenue from digital segment already forms about 20 per cent of the industry's total export revenue. The figure was estimated at US\$33 billion in FY19.
- Revenue from digital segment is expected to comprise 38 per cent of the forecasted US\$ 350 billion industry revenue by 2025.<sup>^</sup>
- India is the second-fastest digitising economy amongst 17 leading economies of the world.
- India has become the digital capabilities hub of the world:
  - More than 8,100 firms offer digital solutions
  - Digitally skilled talent pool of 450,000-500,000
  - 75 per cent of global digital talent in India



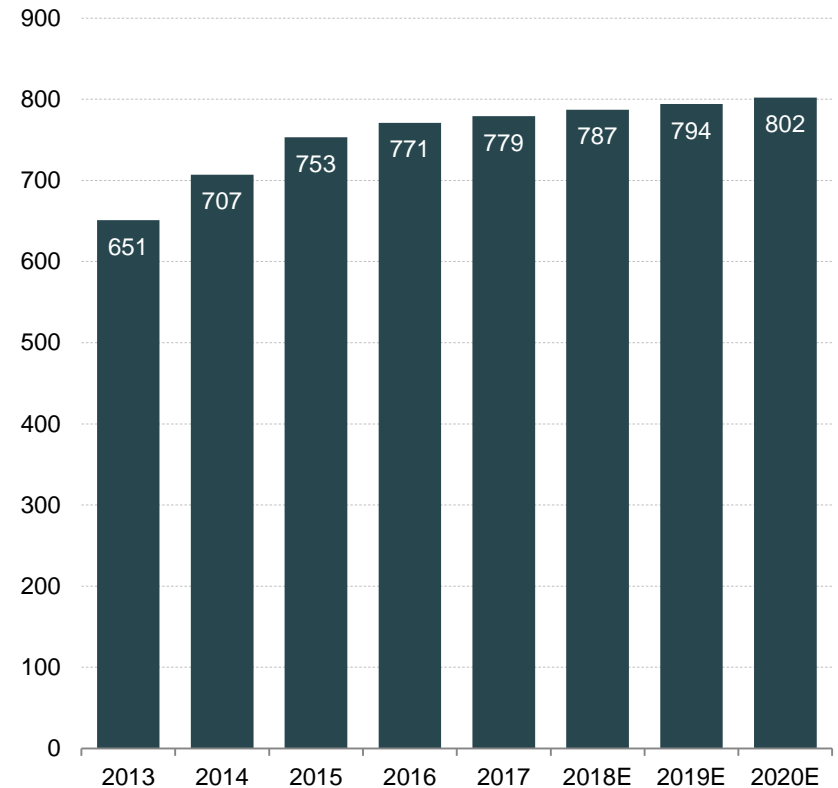
**Note:** <sup>^</sup>According to Nasscom, E – Estimated, FY18 export figures are estimated between US\$ 22-25 billion by NASSCOM

**Source:** Nasscom, IDC, Media Sources

# INDIAN TALENT POOL READY TO TAKE IT SECTOR TO THE NEXT LEVEL

- Availability of skilled English-speaking workforce has been a major reason behind India's emergence as a global outsourcing hub.
- The number of engineering graduates has increased from 651,000 in 2013 to an estimated 779,000 in 2017 and is further expected to grow to 802,000 by 2020. Indian IT industry is expected to add around 250,000 new jobs in 2019.
- Employment in the sector reached 3.97 million in 2017-18. An addition of around 105,000 was witnessed in FY18. Online hiring activity in IT software sector increased 28 per cent year-on-year.
- India BPO promotion scheme was approved under Digital India programme. It aims to create employment opportunities for the youth and promote investments in the IT&ITeS industry. Under the scheme employment has already been created for more than 10,000 individuals.
- India's top 10 Information technology companies added about 114,390 engineers to its workforce in 2018 against 22,156 in 2017.

Annual entry-level talent pool in India\* (in 000s)



**Note:** \*Refers to graduates with Bachelors degree in engineering (four-year degree course)

**Source:** Nasscom, Everest Group

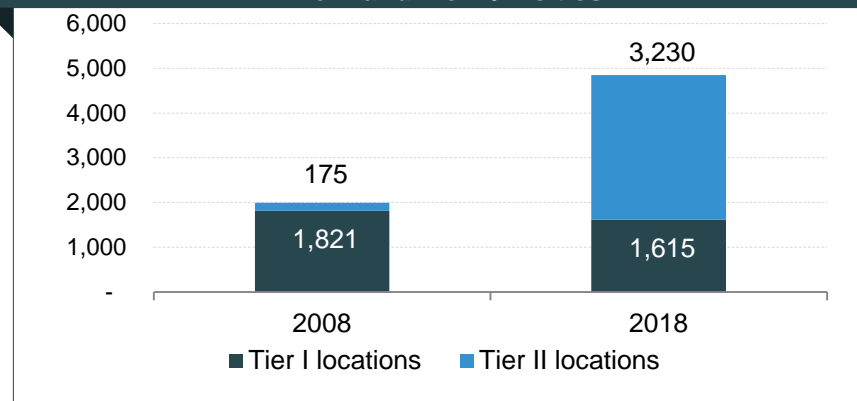


# SEZ'S TO DRIVE IT SECTOR; TIER II CITIES EMERGE AS NEW CENTERS

- IT-SEZs have been initiated with an aim to create zones that lead to infrastructural development, exports and employment
- As of November 2019, there were 417 approved SEZs across the country where 274 are of IT & ITeS and 143 are exporting SEZs.
- Over 50 cities already have basic infrastructure and human resource to support the global sourcing and business services industry. Some cities are expected to emerge as regional hubs supporting domestic companies
- Software Technology Parks of India (STPI) has set up 57 centres across the country which provide single window clearance and infrastructure facilities. Under STP scheme, STP units can avail Excise Duty exemptions on procurement of indigenously manufactured goods.

Parameters	STPI	SEZ
Term	<ul style="list-style-type: none"> <li>10 years</li> </ul>	<ul style="list-style-type: none"> <li>15 years</li> </ul>
Fiscal benefits	<ul style="list-style-type: none"> <li>100 per cent tax holiday on export profits</li> <li>Exemption from excise duties and customs</li> </ul>	<ul style="list-style-type: none"> <li>100 per cent tax holiday on exports for first 5 years</li> <li>Exemption from excise duties and customs</li> </ul>
Location and size restrictions	<ul style="list-style-type: none"> <li>No location constraints</li> <li>23 per cent STPI units in tier II and III cities</li> </ul>	<ul style="list-style-type: none"> <li>Restricted to prescribed zones with a minimum area of 25 acres</li> </ul>

IT sector employment distribution in Tier I and Tier II/III cities

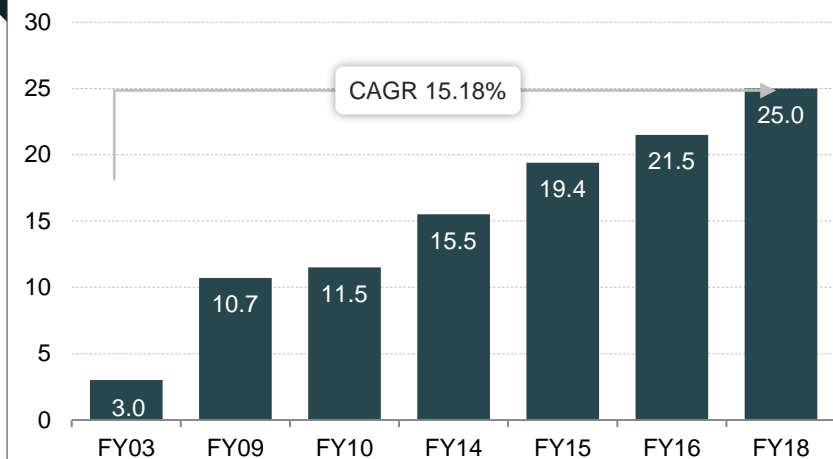


Note: SEZ – Special Economic Zone, STPI (Software Technology Parks of India)

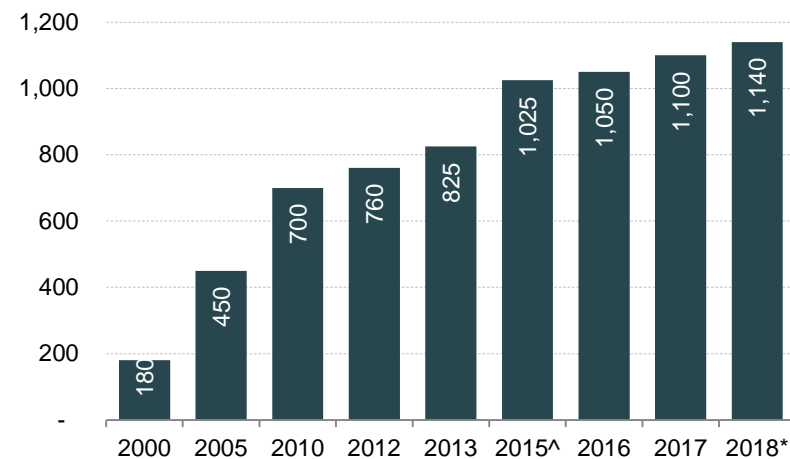
Source: EY, Nasscom

# TREMENDOUS GROWTH OF GLOBAL IN-HOUSE CENTRES

Revenue of GIC's in India



Number of GIC's in India



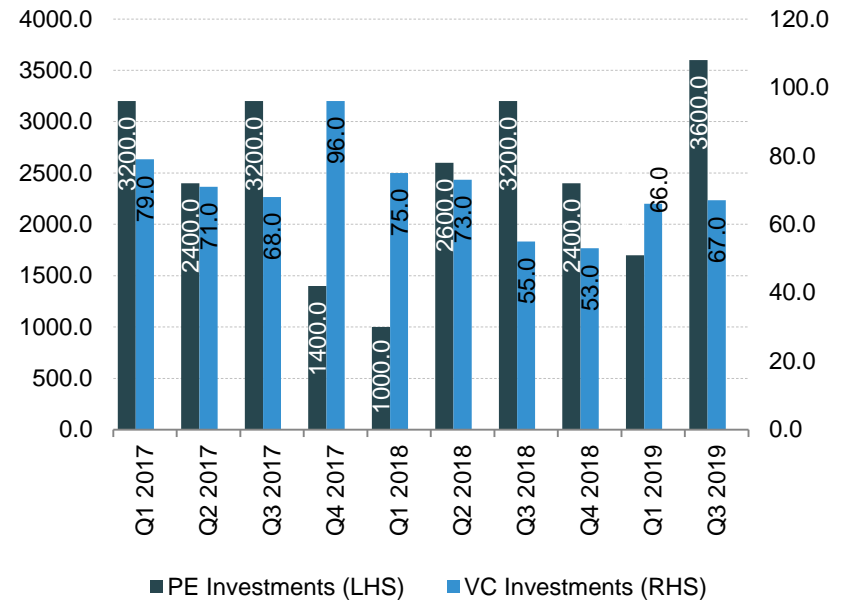
- Global In-House Centres (GIC), also known as captive centres, are one of the major growth drivers of the IT-BPM sector in India. They also operate in engineering services and software product development.
- By 2021, GICS' leasing to be in the range of 30-35 million sqft across the top six cities of Bengaluru, Chennai, Delhi-NCR, Hyderabad, Mumbai and Pune.
- As of March 2018, there were over 1,140 GICs operating out of India. Revenue of GICs of India has increased at a CAGR of 15.18 per cent between FY03-FY18 to touch US\$ 25.0 billion in FY18 and is expected to touch US\$ 50 billion by 2025.
- The impact of the segment goes beyond revenue and employment, as it helps in developing India as a R&D hub and create an innovation ecosystem in the country
- Within the captive landscape, Engineering Research and Development/Software Product Development (ER&D/SPD) is the largest sub-segment.
- As of FY18, GIC's employed 900,000 direct employees, according to a report by NASSCOM. India continues to attract international firms to expand their GICs in the country.

Note: 2018\* - Data taken from NASSCOM Strategic Review 2018, ^As of end of financial year  
Source: Zinnov, Nasscom

# IMPRESSIVE GROWTH PROSPECTS SUSTAIN PE AND VC INTEREST

- IT & ITeS is the leading sector in receipts of private equity (PE) investments in India.
- PE investments in the sector stood at US\$ 11.8 billion across 493 deals in 2019.
- Venture Capital (VC) investments in the IT & ITeS sector stood at US\$ 67.0 million during Q3 2019.
- Baring Private Equity Asia (BPEA) is going to acquire a 30 per cent stake in NIIT technologies Ltd for a consideration of Rs 2,627 crore (US\$ 375.88 million).
- TCS has made significant investments in building intellectual property in the digital assurance domain.

PE and VC investments in IT & ITeS (US\$ million)

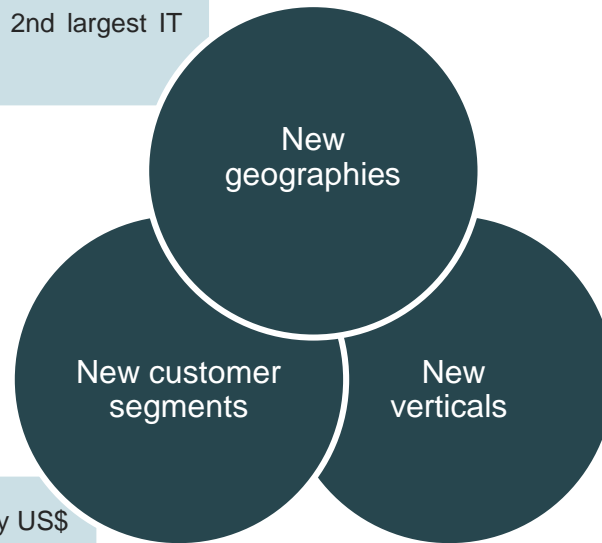


**Note:** Data for first quarter of both years has been calculated by deducting Q2 investments from H1 investments, LHS – Left Hand Side axis, RHS – Right Hand Side axis

**Source:** The Indian Private Equity and Venture Capital Association

# NEWER GEOGRAPHIES AND VERTICALS PROVIDE HUGE OPPORTUNITIES

- BRIC nations, continental Europe, Canada and Japan have IT spending of approximately US\$ 380–420 billion
- Adoption of technology and outsourcing is expected to make Asia the 2nd largest IT market



- SMBs have IT spend of approximately US\$ 230–250 billion, but contribute just 25 per cent to India's IT revenue
- The emergence of new service offerings and business models would aid in tapping market profitably and efficiently

- Government, healthcare, media and utilities together have IT spend of approximately US\$ 190 billion, but account just 8 per cent of India's IT revenue
- Non-linear growth due to platforms, products and automation
- Emerging verticals (retail, healthcare, utilities) are driving growth

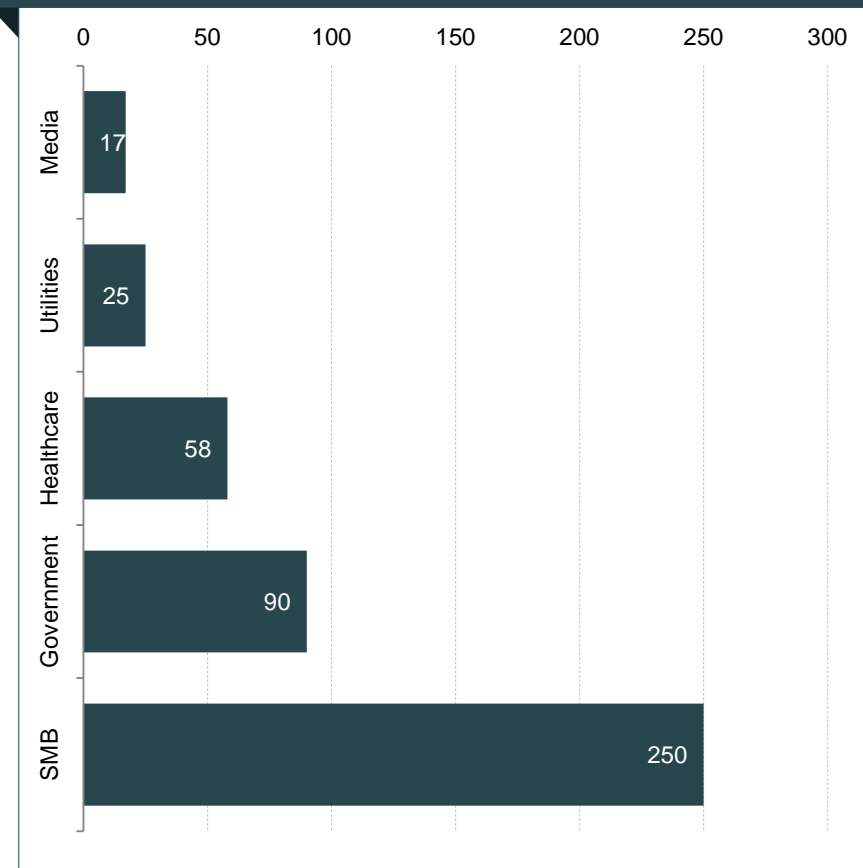
*Note: SMB - Small and Medium Businesses*

*Source: International Data Corporation (IDC), Nasscom*

# EXPANSION OF FOCUS AREAS TO AID FUTURE GROWTH ... (1/2)

- Technologies, such as telemedicine, health, remote monitoring solutions and clinical information systems, would continue to boost demand for IT service across the globe
- IT sophistication in the utilities segment and the need for standardisation of the process are expected to drive demand
- Digitisation of content and increased connectivity is leading to a rise in IT adoption by media
- RBI is executing a plan to reduce online transaction costs to encourage digital banking in India
- The rollout of Fifth Generation (5G) wireless technology by telecommunication companies is expected to bring at least US\$ 10 billion global business to Indian IT firms by 2019-25

Market size of other progressing verticals by 2020 (US\$ billion)



*Note: SMB - Small and Medium Business*

*Source: Nasscom, Gartner*

# EXPANSION OF FOCUS AREAS TO AID FUTURE GROWTH ... (2/2)

- Emerging geographies would drive the next growth phase for IT firms in India
- BRIC would provide US\$ 380–420 billion opportunity by 2020
- Focus on building local credible presence, high degree of domain expertise at competitive costs and attaining operational excellence hold key to success in new geographies
- Emphasis on export of IT services to current importers of other products and services

## Countries offering growth potential to IT firms

Country	IT spend	India's penetration	Key segments
Canada	US\$ 63 billion	~1.5 per cent	Enterprise applications, cyber security, healthcare IT
Europe	US\$ 230 billion	<1.5 per cent	IT sourcing, BPM, IS outsourcing, CAD
Japan	US\$ 235 billion	<1 per cent	CRM, ERP, Salesforce automation, SI
Spain	US\$ 26 billion	<1.5 per cent	IT sourcing, SI
Mexico	US\$ 29 billion	~4 per cent	IT sourcing, BPM
Brazil	US\$ 47 billion	~2 per cent	Low level application management, artificial intelligence, R D
China	US\$ 105 billion	<1 per cent	Software outsourcing, R D
Australia	US\$ 48 billion	~4 per cent	Procurement outsourcing, infrastructure software and CAD

Source: Nasscom

# KEY INDUSTRY ORGANISATIONS





## Ministry of Electronics and Information Technology (MeitY)

Address: Electronics Niketan, 6, CGO Complex,  
Lodhi Road, New Delhi - 110 003  
Phone: 91 11 2436 9191  
Fax: 91 11 2436 2626  
E-mail: [mljoffice@gov.in](mailto:mljoffice@gov.in)  
Website: <http://meity.gov.in/>

## National Association of Software and Services Companies (NASSCOM)

Address: International Youth Centre Teen Murti Marg, Chanakyapuri,  
New Delhi – 110 021  
Phone: 91 11 2301 0199  
Fax: 91 11 2301 5452  
E-mail: [info@nasscom.in](mailto:info@nasscom.in)  
Website: <https://www.nasscom.in/>

## Electronics and Software Exports Promotion Council (ESC)

Address: 155, Okhla Phase III, Okhla Industrial Area, New Delhi, Delhi –  
110 020  
Phone: 91 11 4748 0000  
E-mail: [info@escindia.com](mailto:info@escindia.com)  
Website: <https://www.escindia.in/>

## Software Technology Parks of India

Address: Ninth Floor, NDCC-II, Jai Singh Road (Opposite Jantar  
Mantar), New Delhi – 110 001  
Phone: 91 11 2343 8188  
Fax: 91 11 2343 8173  
Website: <https://www.stpi.in/>

# USEFUL INFORMATION



- APAC: Asia Pacific
- BFSI: Banking, Financial Services and Insurance
- BPM: Business Process Outsourcing
- CAGR: Compounded Annual Growth Rate
- C U: Construction and Utilities
- FDI: Foreign Direct Investment
- GOI: Government of India
- INR: Indian Rupee
- IT & ITeS: Information Technology-Information Technology Enabled Services
- NAC: Nasscom Assessment of Competence
- RoI: Return on Investment
- ROW: Rest of the World
- SEZ: Special Economic Zone
- SMB: Small and Medium Businesses
- STPI: Software Technology Parks of India
- T M: Telecom and Media
- T T: Travel and Transport
- US\$ : US Dollar
- UT: Union Territory
- Wherever applicable, numbers have been rounded off to the nearest whole number

# EXCHANGE RATES

## Exchange Rates (Fiscal Year)

Year INR	INR Equivalent of one US\$
2004-05	44.95
2005-06	44.28
2006-07	45.29
2007-08	40.24
2008-09	45.91
2009-10	47.42
2010-11	45.58
2011-12	47.95
2012-13	54.45
2013-14	60.50
2014-15	61.15
2015-16	65.46
2016-17	67.09
2017-18	64.45
2018-19	69.89

## Exchange Rates (Calendar Year)

Year	INR Equivalent of one US\$
2005	44.11
2006	45.33
2007	41.29
2008	43.42
2009	48.35
2010	45.74
2011	46.67
2012	53.49
2013	58.63
2014	61.03
2015	64.15
2016	67.21
2017	65.12
2018	68.36

Source: Reserve Bank of India, Average for the year

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