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### CONTENTS

| * | Executive Summary            | 3  |
|---|------------------------------|----|
| * | Advantage India              | 4  |
| * | Market Overview and Trends   | 6  |
| * | Porters Five Forces Analysis | 17 |
| * | Strategies Adopted           | 19 |
| * | Growth Drivers               | 21 |
| * | Opportunities                |    |
| * | Success Stories              |    |
| * | Useful Information           |    |
|   |                              |    |



#### **MARCH 2017**



### **EXECUTIVE SUMMARY**

| <ul> <li>As of 2015, India is a prominent sourcing destination across the world, accounting for approximately 56 per cent market share in the global services sourcing business.</li> <li>India acquired a share of around 38 per cent in the overall Business Process Management (BPM)</li> </ul>   |
|--|
| sourcing market  |
| <ul> <li>India's highly qualified talent pool of technical graduates is one of the largest in the world,<br/>facilitating its emergence as a preferred destination for outsourcing, computer science/information<br/>technology accounts for the biggest chunk of India' fresh engineering talent pool, with more than<br/>98 per cent of the colleges offering this stream</li> </ul> |
| <ul> <li>The sector ranks fourth in India's total FDI share and accounts for approximately 37 per cent of<br/>total Private Equity and Venture investments in the country</li> </ul>   |
| <ul> <li>In FY16, revenues of Indian IT-BPM market is estimated to touch USD160 billion</li> <li>In 2015, Indian IT companies have helped clients to save USD200 billion in the last five years.</li> <li>India's IT-BPM sector includes 670 offshore development centres around 78 countries.</li> </ul>  |
| •  |

Source: NASSCOM, TechSci Research Notes: BPM – Business Process Management, USP – Unique Selling Proposition

### **MARCH 2017**





## **ADVANTAGE INDIA**



### ADVANTAGE INDIA

| FY16E<br>Industry<br>value:<br>USD160<br>billion | <ul> <li>Growing demand</li> <li>Strong growth in demand for exports from new verticals</li> <li>Rapidly growing urban infrastructure has fostered several IT centres in the country</li> <li>Expanding economy to propel growth in local demand</li> </ul> | <ul> <li>Global footprints</li> <li>IT firms in India have delivery centres across the world; as of 2015, IT firms had a total of 670 centres in &gt;78 countries</li> <li>India's IT industry amounts to 12.3 per cent of the global market, largely due to exports</li> <li>IT &amp; ITeS industry is well diversified across verticals such as BFSI, telecom &amp; retail</li> <li>Increasing strategic alliance between domestic &amp; international players to deliver solutions across the global</li> </ul>          |
|--|---|---|
|  |   | <ul> <li>Policy support</li> <li>Tax holidays extended to the IT sector</li> <li>More liberal system for raising global capital, funding for seed capital &amp; growth &amp; ease of doing business, etc. have been addressed</li> <li>USD0.17 billion have been allocated for raising global capital, start ups</li> <li>Income Tax cut on royalty fee on tech services to 10 per cent</li> <li>Cumulative FDI inflow in computer software &amp; hardware is USD22,831 million from April 2000 to December 2016</li> </ul> |

Source: Nasscom, TechSci Research

Notes: SEZ stands for Special Economic Zone, BFSI stands for Banking, Financial Services and Insurance, E stands for Estimate, F stands for Forecast

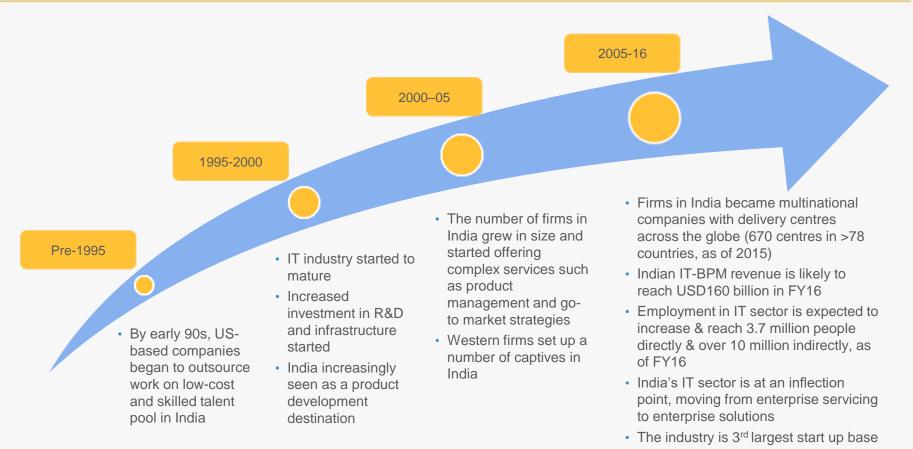




## MARKET OVERVIEW AND TRENDS



### **EVOLUTION OF INDIA'S IT SECTOR**

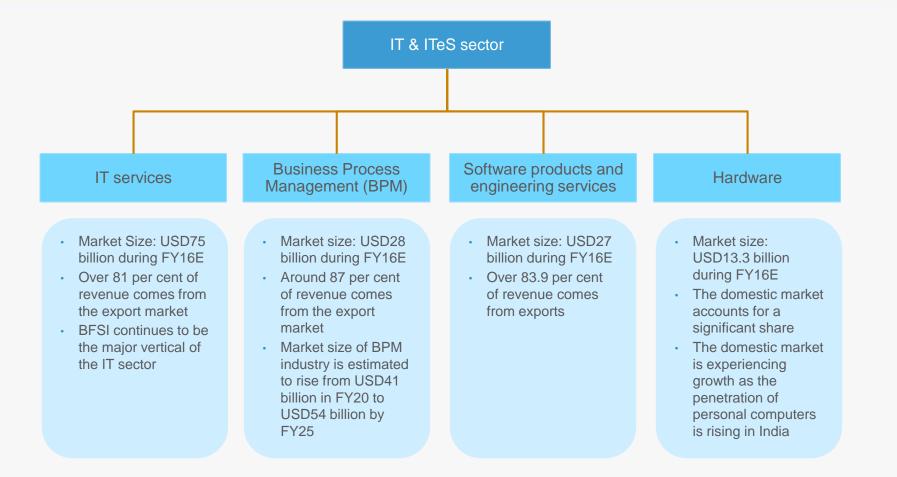


• In FY16, the IT industry supported over 4,200 new start ups





### SEGMENTS OF INDIA'S IT SECTOR



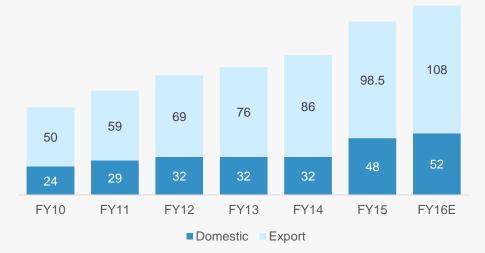
Source: Nasscom, TechSci Research Notes: FY16E – Figures for FY16 are estimated



### INDIA'S IT MARKET SIZE GROWING; TCS THE MARKET LEADER

- India's technology and BPM sector (including hardware) is likely to generate revenues of USD160 billion during FY16 compared to USD146.5 billion in FY15, implying a growth rate of 9.5 per cent
- The contribution of the IT sector to India's GDP rose to approximately 9.3 per cent in FY15 from 1.2 per cent in FY98
- TCS is the market leader, accounting for about 10.4 per cent of India's total IT & ITeS sector revenue in FY16
- ★ The top five IT firms contribute over 25 per cent to the total industry revenue, indicating the market is fairly competitive

#### Market size of IT industry in India (USD billion)

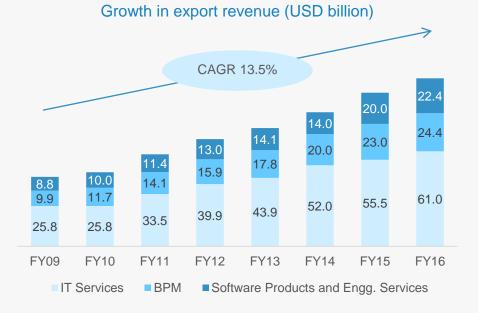


Source: Nasscom, TechSci Research Note: E - Estimates

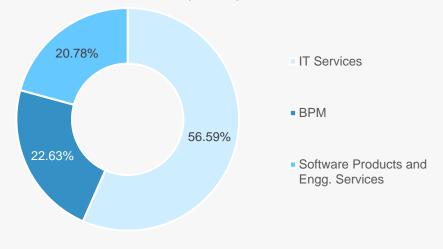


### IT AND BPM ACCOUNT FOR 79.7 PER CENT OF INDIA'S IT & ITES EXPORTS

- ★ Total exports from the IT-BPM sector (including hardware) were estimated to have been USD108 billion during FY16; exports rose at a CAGR of 13.5 per cent during FY09–16 despite of weak global economic growth scenario
- \* Export of IT services has been the major contributor, accounting for 56.59 per cent of total IT exports (including hardware) during FY16
- \* BPM accounted for 22.63 per cent of total IT exports during FY16



Sector-wise breakup of export revenue FY16



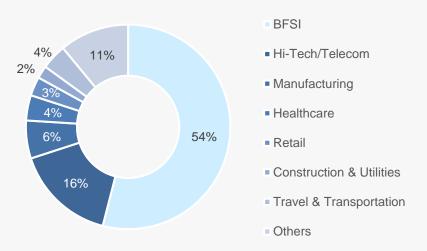
Source: Nasscom, Make in India, TechSci Research Note: E – Estimated





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

- ★ BFSI is a key business vertical for the IT-BPM industry. It is expected to generate export revenue of around USD58.32 billion by the end of 2016, accounting for 54 per cent of total IT-BPM exports from India
- \* Approximately 85 per cent of total IT-BPM exports from India is across four sectors: BFSI, telecom, manufacturing & retail. The hitherto smaller sectors are expected to grow
- \* With introduction of new policies for healthcare and retail, these sectors are expected to grow at a faster pace in coming years, thus accelerating revenue of IT enabled services for the sectors



#### Distribution of export revenue across verticals (FY16)

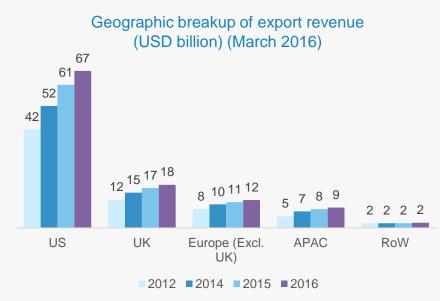
Source: MoRTH, TechSci Research, Department of Electronics and IT Annual Report Notes: BFSI - Banking, Financial Services and Insurance, \*Emerging- Retail, Utilities & Construction, Retail, Healthcare, Services, Transportation The figures mentioned are for IT and BPM only and do not include engineering services and hardware exports

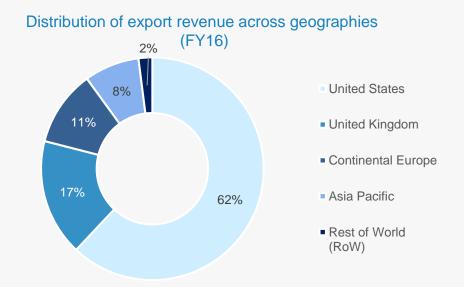
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### WITH OVER 62 PER CENT SHARE, US IS MAJOR IMPORTER OF IT SERVICES

- \* 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 FY16
- \* Non US-UK countries accounted for just 21.0 per cent of total Indian IT-BPM exports during FY16
- ★ Europe, one of the fast growing IT markets in 2015, is expected to emerge as a potential market as higher inclination towards offshoring firms would increase demand for IT services
- \* 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





Source: Nasscom, TechSci Research, Department of Electronics and IT Annual Report Note: ROW is Rest Of the World, APAC is Asia Pacific

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### IT-BPM SECTOR DOMINATED BY LARGE PLAYERS

| Category | Number of players | Percentage of<br>total export<br>revenue | Percentage of total employees | Work focus  |
|----------|-------------------|--|-------------------------------|---|
| Large    | 11                | 47-50%                                   | ~35-38%                       | <ul> <li>Fully integrated players offering complete range<br/>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> <li>Mid tier Indian and MNC firms offering services<br/>in multiple verticals</li> <li>Dedicated captive centres</li> <li>Near shore and offshore presence in more than<br/>30-35 countries</li> </ul> |
| Emerging | ~1,000-<br>1,200  | 9-10%                                    | ~15-20%                       | <ul> <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> <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, TechSci Research



### NOTABLE TRENDS IN INDIA'S IT & ITES SECTOR ... (1/3)

| Global delivery<br>model                 | <ul> <li>Indian software product industry is expected to reach the mark of USD100 billion by 2025.<br/>In India, the number of global delivery centres in the IT-BPM sector reached 670, spreading out across 78 countries, as of 2015</li> <li>New business models, technologies and addition of new markets is pushing growth; Infosys has opened a shop in Shanghai; TCS already has a big set-up in Uruguay</li> </ul> |
|--|--|
| Global sourcing hub                      | <ul> <li>India continues to maintain a leading position in the global sourcing market. Its market<br/>share increased to 55 per cent in 2015. India's IT industry amounts to 7 per cent of the<br/>global market</li> </ul>  |
| Engineering offshoring                   | <ul> <li>In 2015, India continued to be the most preferred location for global R&amp;D outsourcing, with a share of 56 per cent</li> <li>The sector includes 670 Offshore Development Centres (ODCs) around 78 countries</li> </ul>  |
| Most lucrative sector<br>for investments | <ul> <li>Increased focus on R&amp;D by IT firms in India resulted in rising number of patents filed by<br/>them. In 2016, Indian IT-BPM sector is expected to grow 9.2 per cent since last year and<br/>reach USD160 billion</li> </ul>  |

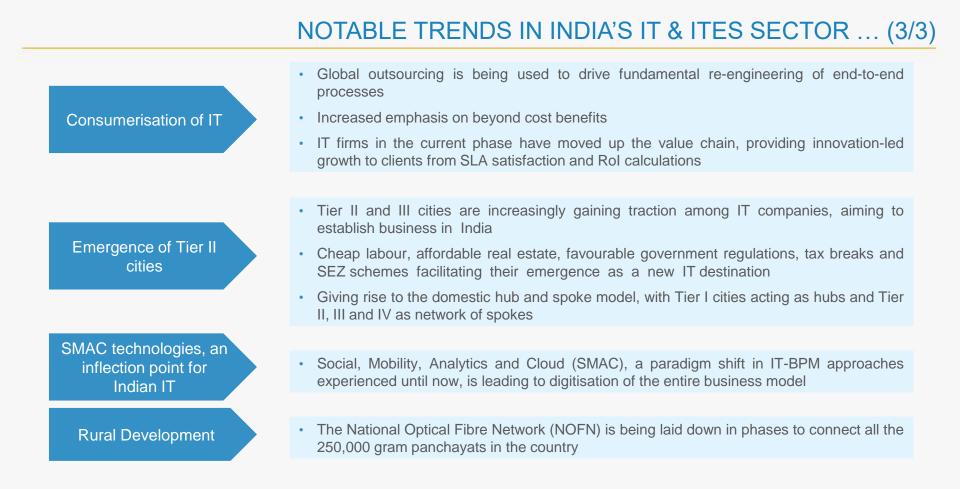
<sup>1</sup> - conducted by Nasscom



### NOTABLE TRENDS IN INDIA'S IT & ITES SECTOR ... (2/3)

| Changing business<br>dynamics      | <ul> <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 50,000, 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> |
|------------------------------------|--|
| Large players gaining<br>advantage | <ul> <li>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 &amp; consulting services</li> <li>Of the total revenue, about 80 per cent is contributed by 200 large and medium players</li> </ul>   |
| New technologies                   | <ul> <li>Disruptive technologies, such as cloud computing, social media &amp; data analytics, are offering new avenues of growth across verticals for IT companies</li> <li>The SMAC (social, mobility, analytics, cloud) market is expected to grow to USD225 billion by 2020</li> </ul>  |
| Growth in non-linear<br>models     | <ul> <li>India's IT sector is gradually moving from linear models (rising headcount to increase revenue) to non-linear ones</li> <li>In line with this, IT companies in India are focusing on new models such as platform-based BPM services and creation of intellectual property</li> </ul>  |





Notes: SLA - Service Level Agreement; Rol - Return on Investment





# PORTER FIVE FORCES ANALYSIS



### PORTERS FIVE FORCES ANALYSIS

| Competit  | ive Rivalry   |   |  |
|---|---|---|--|
| Intense competitive rivalry exists  | due to low switching costs  |   |  |
| <ul> <li>Most of the bigger Indian firms offer same services and there is little product differentiation</li> </ul>   |   | Threat of New<br>Entrants<br>(Medium)         |  |
| Threat of New Entrants  | Substitute Products   |   |  |
| <ul> <li>Easy entry as the capital required is low</li> <li>Large players, however, toughen prospects of small and medium players to win large deals</li> </ul> | <ul> <li>Threat is medium as new<br/>centres, such as Philippines<br/>and China, are fast gaining<br/>ground among investors due to<br/>their low cost advantages</li> </ul>                    | Bargaining<br>Power of<br>Customers<br>(High) |  |
| Bargaining Power of Suppliers   | Bargaining Power of Customers   |   |  |
| Bargaining power of suppliers<br>is less as most of their<br>businesses come from the<br>same geographies<br>Price taker rather than price<br>maker             | <ul> <li>Bargaining power is high as<br/>many IT firms fight for a similar<br/>project</li> <li>Firms are mostly dependent on<br/>same geography, which<br/>increases customer power</li> </ul> | Bargaining<br>Power of<br>Suppliers<br>(Low)  |  |





### STRATEGIES ADOPTED



### STRATEGIES ADOPTED

| Expanding in Tier II & III cities and externally | <ul> <li>Companies are expanding their business to Tier II &amp; III cities to have low cost advantage</li> <li>In 2016, Infosys bought two office space in Pune &amp; Bengaluru India. TCS is planning to expand in Mumbai</li> <li>Companies are expanding their business towards emerging economies of East Europe and Latin American countries</li> </ul>   |
|--|---|
| Movement to SMAC & digital space                 | <ul> <li>Social Computing, Mobility, Analytics and Cloud (SMAC) is taking significant leaps</li> <li>Companies are getting into this field by offering big data services, which provides clients better insights for future cases</li> </ul>  |
| Product and Pricing<br>differentiation           | <ul> <li>Most of the IT companies have been offering similar products and services to their clients</li> <li>The companies are working towards product differentiation through various other services by branding themselves, e.g. Building Tomorrow's Enterprise by Infosys</li> <li>Indian IT firms have started to adopt pricing strategies to compete with Global firms like IBM and Accenture</li> </ul> |
| Promotion of R&D                                 | <ul> <li>Companies are now investing a lot in R&amp;D and training employees to create an efficient workforce, enhancing productivity and quality</li> <li>R&amp;D forms a significant portion of companies' expenses, which is critical when margins are in pressure, to promote innovations in the changing landscape</li> </ul>  |
| Fast-growing sectors within the BPM domain       | <ul> <li>Knowledge services, data analytics, legal services, Business Process as a Service (BPaaS),<br/>cloud-based services</li> </ul>   |

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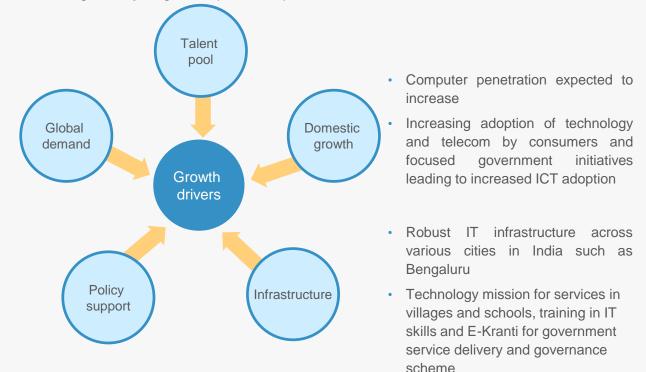


# **GROWTH DRIVERS**



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

- 6 million graduates are estimated to have been added to India's talent pool in FY16, wherein, IT-BPM employees are estimated to reach 3.7 million.
- · Strong mix of young and experienced professionals



Source: Nasscom, TechSci Research

Notes: 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

 Global BPM spending estimated to rise by 4.4 per cent and reach USD2.7 billion in 2015

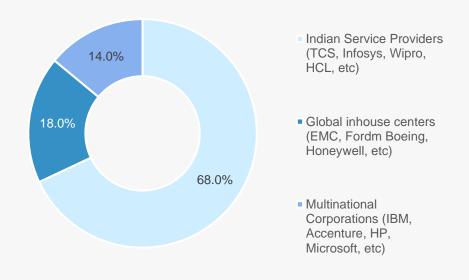
- Tax holidays for STPI and SEZs
- More liberal system for raising capital, seed money and ease of doing business.
- As a part of Union Budget 2016-17, the government has made changes in custom & excise duty of IT hardware products

### **MARCH 2017**



### TECHNOLOGY – A KEY INFLUENCER FOR DOMESTIC IT SERVICES ... (1/2)

- Indian IT companies like TCS, Tech Mahindra Limited, Mphasis, HCL Technologies Limited, Larsen & Toubro Infotech Limited, Wipro Technologies Limited, Oracle Financial, Infosys Technologies Limited are expanding their footprint in order to meet client's requirements globally
- Indian firms have started adopting the global delivery model to cater to the local market and for taking advantage of low cost
- Tech Mahindra has entered into a strategic alliance with Metric Stream, a US-based firm, with an aim to provide governance, risk and compliance (GRC) solutions across the world
- Reliance IoT unit Unlimit, partnered with US based Cumulocity, to deliver IoT solutions in India. Partnership between the firms will facilitate customers to benefit from sensor & device integration & data collection, rapid machine & real-time analytics for condition monitoring.



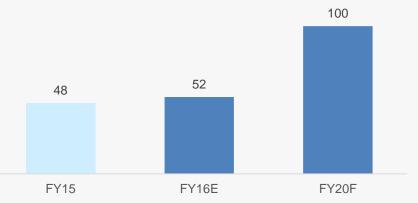
IT Sector Segmental Breakup - By Companies (FY15)

Source: Nasscom, Assorted News Articles, TechSci Research



### TECHNOLOGY – A KEY INFLUENCER FOR DOMESTIC IT SERVICES ... (2/2)

- Introduction of large e-Governance projects to provide better services through IT and focus on the formation of the cyber policy led to higher demand for IT and hardware from the government
  - The Central Government and State/UT Government allocated 0.9–1.2 per cent and 2.8–3 per cent, respectively, of total budget for IT spend under the 12<sup>th</sup> Five Year Plan
- Strong consumer demand for IT service and products:
  - \* Advent of smartphones, tablets and iPads
  - Industry leaders are stressing the need for promoting support start-ups
  - **\*** Rising computer literate population
  - \* Enhanced internet and mobile penetration
  - Growing disposable income strengthening consumer purchasing power
  - Emerging verticals (retail, healthcare, utilities) are driving growth above 14 per cent



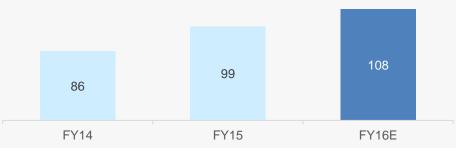
Domestic revenue from IT and BPM (USD billion)

Source: Nasscom, TechSci Research Notes: UT - Union Territory, E:Estimated F - Forecasts

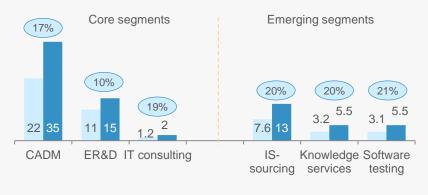


### EXPORTS TO REMAIN ROBUST AS GLOBAL IT INDUSTRY MAINTAINS GROWTH

- In FY16 the estimated revenue from exports of IT and BPM sector was USD108 billion. Global IT-BPM spending (excluding hardware) has grown 0.4 per cent over 2015 to nearly USD1.2 trillion
- India's IT industry amounts to 4.26 per cent of the global market, largely due to exports as of 2015. In the year 2015 India comprised of around 500 BPM players generating a revenue of USD23 billion, which is expected to rise and reach 50 billion in 2020
- During FY17 the country's revenue growth in IT exports is expected at 10 per cent
- Emergence of SMAC would provide USD1 trillion market by 2020
- Emerging economies are likely to be a major contributor to IT spend growth
  - IT spend in emerging economies to grow 3-4 times faster than advanced economies
  - The BRIC IT market is estimated at USD380–420 billion by 2020
- Stable tax regime, reducing litigation related to tax and providing conducive environment for start-ups will improve the business environment



#### Core and non core segment's growth prospects



FY13E FY16F

Source: Nasscom, TechSci Research, Budget 2015-16 Notes: UT- Union Territory, E - Estimated

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#### Export revenue from IT and BPM (USD billion)



### INDIAN TALENT POOL READY TO TAKE IT SECTOR TO THE NEXT LEVEL ... (1/2)

- Availability of skilled English speaking workforce has been a major reason behind India's emergence as a global outsourcing hub
- During FY10-16, no of graduates addition to talent pool in India grew at a CAGR of 8.4 per cent
- India added more than 6 million graduates to the talent pool during FY16
- ✤ Growing talent pool of India has the ability to drive the R&D and innovation business in the IT-BPM space
- According to India Hiring Intent Survey 2017, 5 to 10 per cent increase in hiring by BPO/KPO and ITES companies in Karnataka, is anticipated in the coming years

#### Graduates addition to talent pool in India (in millions)



Source: Nasscom, TechSci Research Note: Graduates includes both graduates and post graduates



### INDIAN TALENT POOL READY TO TAKE IT SECTOR TO THE NEXT LEVEL ... (2/2)

- \* About 2 per cent of the industry revenue is spent on training employees in the IT-BPM sector
- \* USD1.6 billion is spent annually on training workforce and growing R&D spend
- **\*** Forty per cent of total spend on training is spent on training new employees
- \* Numerous firms have forged alliances with leading education institutions to train employees

Source: TechSci Research



### NASSCOM'S PLAN TO INCREASE EMPLOYABILITY OF INDIA'S TALENT POOL

|             | Objectives  | Initiatives   |
|-------------|---|---|
| Short term  | <ul> <li>Enhance overall yield of employees</li> <li>Improve employability</li> <li>Expand to Tier II cities to reduce operating costs</li> <li>Low skill dependence</li> </ul> | <ul> <li>Industry to enhance investment in training</li> <li>Use NAC and NAC – Tech to assess<br/>employability of talent pool</li> <li>Identified new tier II locations</li> </ul>   |
| Medium term | <ul> <li>Reduce investment on training</li> <li>Develop specialist and project management expertise</li> <li>Develop a robust and credible information repository</li> </ul>    | <ul> <li>Launched the National Faculty Development<br/>Programme to increase suitability of faculty</li> <li>Aiding industry access to specialist<br/>programmes offered by independent agencies</li> <li>NASSCOM, in partnership with the industry,<br/>has developed a unique initiative 'National<br/>Skills Registry' a national database of<br/>registered and verified knowledge workers in<br/>the industry</li> </ul> |
| Long term   | <ul><li>Expand education capacity</li><li>Promote reforms in education</li></ul>  | <ul> <li>Expansion of higher education infrastructure;<br/>20 new IIITs to be set up by the government</li> <li>Programme to increase PhDs in technology</li> </ul>   |

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Notes: NAC - Nasscom Assessment of Competence, IIIT - Indian Institutes of Information Technology

Source: Nasscom, TechSci Research



### SEZ'S TO DRIVE IT SECTOR; TIER II CITIES EMERGE AS NEW CENTERS ... (1/2)

- IT-SEZs have been initiated with an aim to create zones that lead to infrastructural development, exports and employment
- \* As on 2<sup>nd</sup> September 2016, there are over 186 operational SEZs across the country

#### SEZ **STPI Parameters** 10 years 15 years Term 100 per cent • 100 per cent tax holiday on tax holiday on exports for first export profits Fiscal five years Exemption • benefits Exemption from excise from excise duties and duties and customs customs • No location Restricted to constraints Location and prescribed • 23 per cent zones with a size STPI units in restrictions minimum area tier II and III of 25 acres cities

Source: Nasscom, TechSci Research, STPI (Software Technology Parks of India)

#### Characteristics of STPI and SEZ in India

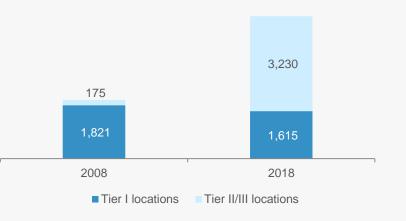


### SEZ'S TO DRIVE IT SECTOR; TIER II CITIES EMERGE AS NEW CENTERS ... (2/2)

#### Trends in tier II and III cities

- Cost in newer cities is expected to be 28 per cent lower than that in leading cities
- Lower cost & attrition, affordable real estate & support from local government, such as tax breaks, STPI & SEZ schemes, are facilitating this shift of focus
- 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
- In December 2016, vocational education programme was introduced in Odisha's 208 secondary schools. The programme includes 4 vocational streams, including IT & ITeS, travel, retail & tourism, Banking, Financial Services & Insurance (BFSI). The initiative was taken to educate students & to enhance growth in these sectors.
- Odisha Government signed a MoU with Software Technology Parks of India (STPI) for setting up 4 software technology centres
- ★ To encourage cash less economy, the government to distribute free Wi-fi service to more than 1000 gram panchayats in remote areas
- Persistent Systems based in Pune, secured development rights from The United Services Automobile Association (USAA), to develop a few patented innovations for enhancing security of financial services.

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



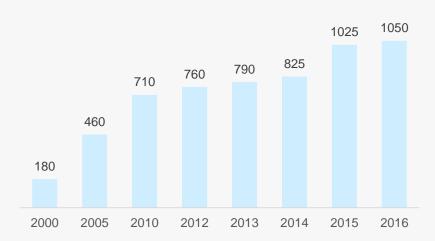
Source: Nasscom, E&Y, TechSci Research



### TREMENDOUS GROWTH OF GLOBAL IN-HOUSE CENTRES

#### Key highlights

- 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.
- In March 2016, there were over 1050 GICs operating out of India, contributing almost 20 per cent share in exports. The total GICs in the country generated a revenue of almost USD22 billion and employed a total of more than 0.79 million manpower
- The impact of the segment goes beyond revenue and employment, as it helped in developing India as a R&D hub and create an innovation ecosystem in the country
- Within the captive landscape, Engineering Research & Development/Software Product Development (ER&D/SPD) is the largest sub-segment
- Companies from North America and Europe are major investors in the captive segment in India, accounting for over 90 per cent of captives in the country



Number of GIC's in India

Source: Zinnov, Nasscom, TechSci Research

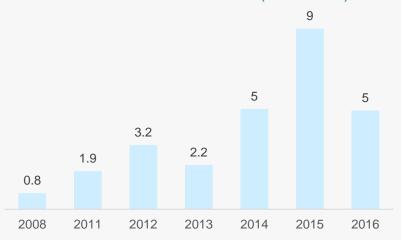




### IMPRESSIVE GROWTH PROSPECTS SUSTAIN PE AND VC INTEREST

- ★ Total P/E investments in FY16 were observed to be USD5 billion, which increased at a CAGR of 25.7 per cent from USD0.8 billion in FY08
- ★ Total number of P/E investment deals increased from 235 in FY15 to 294 in FY16

PE-VC investments in IT & BPM (USD billion)





Share of IT-BPM in PE-VC investments

Source: Venture Intelligence, Nasscom, TechSci Research Notes: CAGR – Compound Annual Growth Rate

### **MARCH 2017**

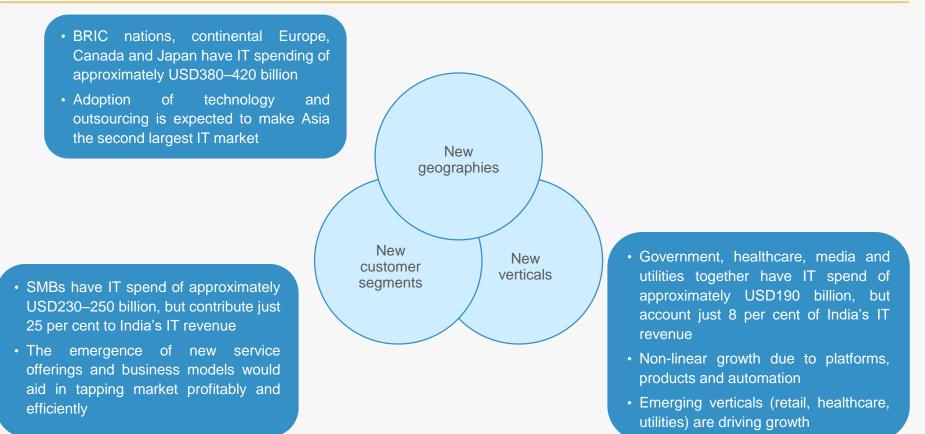




## **OPPORTUNITIES**



### NEWER GEOGRAPHIES AND VERTICALS PROVIDE HUGE OPPORTUNITIES



Source: All the figures are taken from International Data Corporation (IDC) and Nasscom and are FY10 estimates Note: SMB - Small and Medium Businesses

### **MARCH 2017**

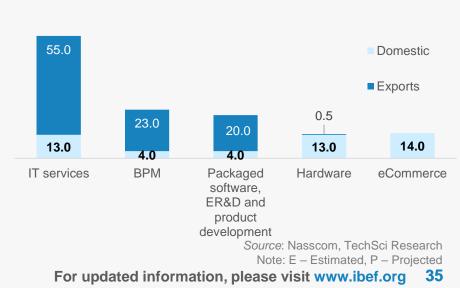


### EXPANSION OF FOCUS AREA TO AID FUTURE GROWTH ... (1/4)

- \* Traditional verticals, i.e. BFSI, telecommunication and manufacturing, continue to remain the largest in terms of IT adoption and are expected to grow at an average of 15 per cent
- \* Implementation of cloud environment and mobility is the way forward for traditional verticals
- + Emphasis on other emerging verticals (e.g. education, healthcare and retail) to aid growth in IT firms in India
- \* Shift from IT adoption infrastructure, automation and digitisation to smart IT marks future trend of services in emerging verticals
- \* Other untapped sectors like Education and utilities has a huge potential for IT & ITes to grow into



#### IT-BPM Exports Revenue (USD Billion)



#### Indian IT-BPM (Domestic and Export) Revenues (2015)



### EXPANSION OF FOCUS AREA TO AID FUTURE GROWTH ... (2/4)

- Govt. sectors have a huge potential for IT enabled services, as \* IT penetration is low in the sector. Increasing digitalisation will lead to growth in revenues for IT sector in coming years
- Technologies, such as telemedicine, health, remote monitoring \* solutions & clinical information systems, would continue to boost demand for IT service across the globe
- IT sophistication in the utilities segment & 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
- Companies to focus on local problems & find engineering \* solutions
- As on December 8, 2016, the Indian Government & Intel \* initiated development of online water and air quality monitoring system. Funds worth USD5.04 million have been allocated for the implementation of the project.
- \* RBI is executing a plan to reduce online transaction costs to encourage digital banking in India
- In March 2017, the government set a target of achieving 25 \* billion digital transactions for banks with the help of PoS (Point of Sale) machines, transactions enabled & merchants, which have been added in firms.

#### Media 17 Utilities 25 Healthcare 58 Government 90 SMB 250

Source: Nasscom, TechSci Research Note: Small and Medium Business

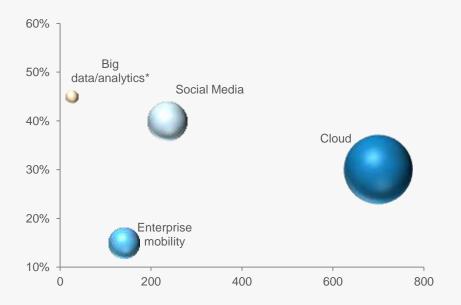
### **MARCH 2017**

#### Market size of other progressing verticals by 2020 (USD billion)



## EXPANSION OF FOCUS AREA TO AID FUTURE GROWTH ... (3/4)

- Emerging technologies present an entire new gamut of opportunities for IT firms in India
  - \* SMAC provide USD1 trillion opportunity
- Cloud represents the largest opportunity under SMAC, increasing at a CAGR of approximately 30 per cent to around USD650–700 billion by 2020
- Social media is the second most lucrative segment for IT firms, offering a USD250 billion market opportunity by 2020



#### Growing technologies future growth

Source: Nasscom, TechSci Research Note: Size of bubble indicates market size, \*CAGR and market size for Big data/analytics is till 2015



## EXPANSION OF FOCUS AREA TO AID FUTURE GROWTH ... (4/4)

- \* Emerging geographies would drive the next growth phase for IT firms in India
- ✤ BRIC would provide USD380–420 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    | USD63 billion  | ~1.5 per cent       | Enterprise applications, cyber security, healthcare IT         |
| Europe    | USD230 billion | <1.5 per cent       | IT sourcing, BPM, IS outsourcing, CAD                          |
| Japan     | USD235 billion | <1 per cent         | CRM, ERP, Salesforce automation, SI                            |
| Spain     | USD26 billion  | <1.5 per cent       | IT sourcing, SI  |
| Mexico    | USD29 billion  | ~4 per cent         | IT sourcing, BPM   |
| Brazil    | USD47 billion  | ~2 per cent         | Low level application management, artificial intelligence, R&D |
| China     | USD105 billion | <1 per cent         | Software outsourcing, R&D                                      |
| Australia | USD48 billion  | ~4 per cent         | Procurement outsourcing, infrastructure software & CAD         |

Source: Nasscom, TechSci Research





# SUCCESS STORIES

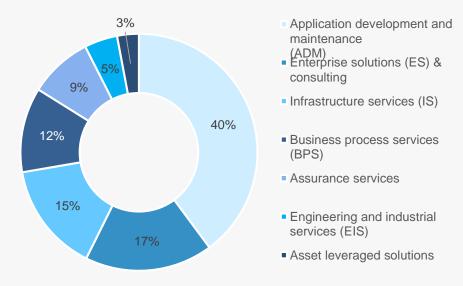


## TCS: AN EMERGING GLOBAL IT MAMMOTH ... (1/3)

Established in 1968, Tata Consultancy Services (TCS) is an Information Technology (IT) services, consulting & business solution company. The company provides end-to-end technology & technology-related services to global enterprises. The company's business is spread across the Americas, Europe, Asia-Pacific & Middle East & Africa (MEA)

#### **Achievements:**

- ★ 2016: Won 3 Silver Stevies at 14<sup>th</sup> Annual American Business Awards
- ★ 2015: Gold, Silver & Bronze Stevie<sup>®</sup> Winner at the American Business Awards
- ★ 2014: Gold & Silver Stevie<sup>®</sup> Winner at the American Business Awards
- ★ 2013: Won Best Performing Consultancy Brand Award in Europe
- ★ 2013: Received Red Hat North America Awards for System Integrator Partner of the Year



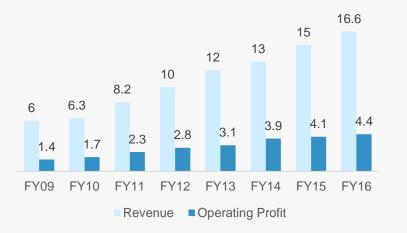
Segment-wise revenue breakdown (FY16)

Source: TCS website and Annual Report, TechSci Research



## TCS: AN EMERGING GLOBAL IT MAMMOTH ... (2/3)

Financial performance (USD Billion)



#### Number of Customers



■FY13 ■FY14 ■FY15 ■FY16

## ✤ TCS accounts for nearly half of the Indian IT industry's combined market capitalisation

During the second quarter of FY 2016-17, the company reported a net profit of USD 989 million, showing a growth of 8.4 per cent.

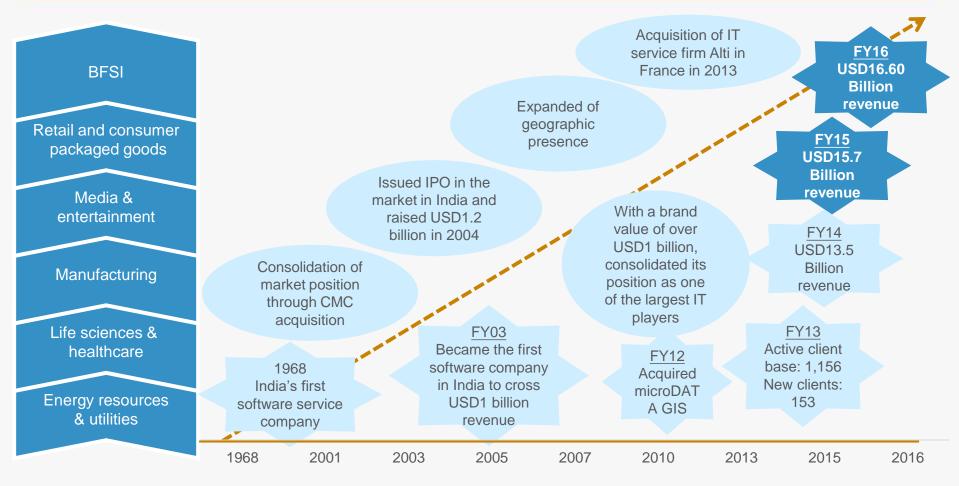
#### Leading IT players by revenue (FY16)

| Company name  | Revenue (USD billion) |
|---------------|-----------------------|
| TCS           | 16.6                  |
| Infosys       | 9.5                   |
| Wipro         | 7.8                   |
| HCL Tech      | 4.7                   |
| Tech Mahindra | 4.04                  |

Source: TCS website and Annual Report, TechSci Research



## TCS: AN EMERGING GLOBAL IT MAMMOTH ... (3/3)



Source: TCS website and Annual Report, TechSci Research

### **MARCH 2017**

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## HCL: GROWING BY LEAPS AND BOUNDS ... (1/3)

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Segment-wise revenue breakdown (March 16)

Source: HCL Technologies website and Investor Presentation, TechSci Research

Established in 1991, HCL Technologies Ltd is an IT services company providing enterprise and custom application, business transformation, infrastructure management, business process outsourcing and engineering services. The company's network of 26 offices is spread across the US, Europe and Asia Pacific

#### Achievements:

- 2015: Won Golden Peacock Award for Occupational Health & Safety
- ★ 2015: Winner of CII National Award for Excellence in Energy Management
- \* 2015: Wins 2 CA Technologies Partner Awards
- 2014: Received Best Governed Company Award from Asian Centre for Corporate Governance & Sustainability
- ★ 2013: Won IT Europa, European IT Excellence Awards and Asia Pacific Enterprise Leadership Award 2013



## HCL: GROWING BY LEAPS AND BOUNDS ... (2/3)



Financial performance (USD Million)

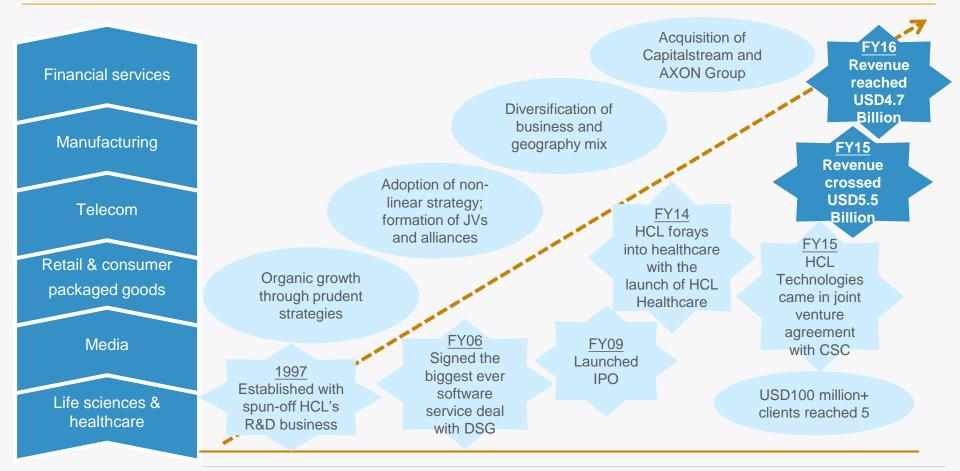
Number of customers



Source: HCL Technologies website, HCL Annual Report, HCL Investor Presentation, TechSci Research



## HCL: GROWING BY LEAPS AND BOUNDS ... (3/3)



1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016

Source: HCL Technologies website and Annual Report, TechSci Research



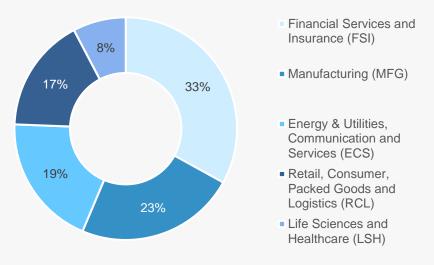


### INFOSYS: EMERGENCE OF AN INDIA-BASED MNC ... (1/3)

Established in 1981, Infosys Limited is engaged in consulting, engineering, technology and outsourcing services. The company's end-to-end services include consulting and system integration. Infosys operates through 30 offices across India, the US, China, Australia, the UK, Canada and Japan

#### Achievements:

- ✤ FY16: Revenue crosses USD9.5 billion
- FY15: Revenue crosses USD8.7 Billion
- 2016: Infosys was recognised with "Corporate Citizen of the Year" at 2015 Economic Times Award
- ★ 2015: Infosys would offer software solutions on Verizon Cloud for the U.S. Bank
- ★ 2015: Infosys completed the implementation of Smart Oilfield Services Solutions for FTS International
- ★ 2014: Infosys secured the "Green Energy Award" and "Gold Award" at the International Ashden Awards Ceremony
- ★ 2013: Ranked first in the annual Euromoney Best Managed Companies in Asia survey



Segment-wise revenue breakdown (FY16)

Source: Infosys website and Annual Report, TechSci Research

46

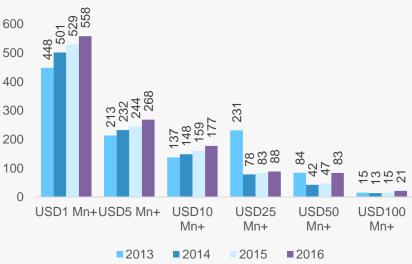
In November 2016, Infosys invested around USD4.89 million in a venture fund, Stellaris Venture Partners, so as to gain access to new & innovative technology offered by upcoming enterprises.



## INFOSYS: EMERGENCE OF AN INDIA-BASED MNC ... (2/3)

9.5 8.7 8.3 7.4 7.0 6.0 5.0 4.8 2.6 2.3 2.0 2.0 1.9 1.8 1.7 1.6 **FY09 FY10** FY11 **FY12 FY13 FY14 FY15 FY16** Revenue Operating Profit

Financial Performance (USD Billion)



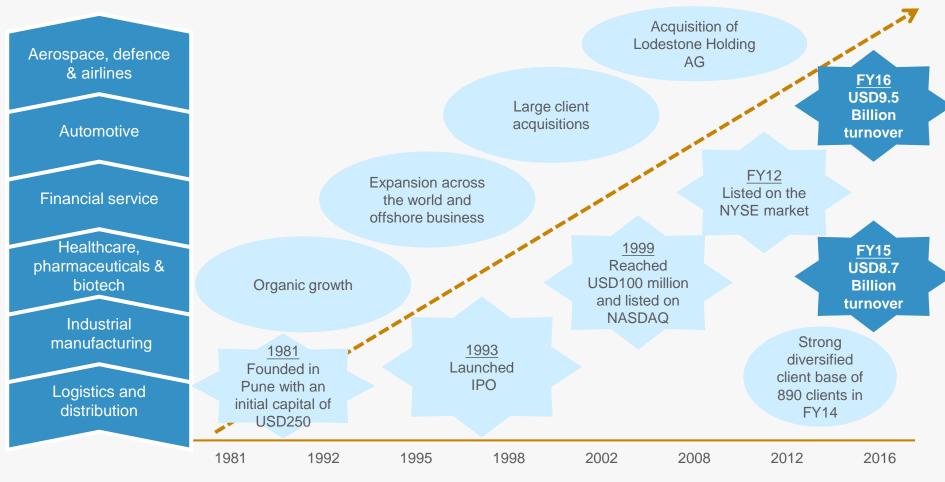
Number of Customers

Source: Infosys website and Annual Report, TechSci Research





## INFOSYS: EMERGENCE OF AN INDIA-BASED MNC ... (3/3)



Source: Infosys website and Annual Report, TechSci Research

### **MARCH 2017**

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# **USEFUL INFORMATION**



## INDUSTRY ASSOCIATIONS

#### 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





## GLOSSARY ... (1/2)

- **APAC:** Asia Pacific
- **BFSI:** Banking, Financial Services and Insurance
- **BPM:** Business Process Outsourcing
- \* CAGR: Compounded Annual Growth Rate
- **C&U:** Construction & 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
- **k** Rol: Return on Investment
- **ROW:** Rest of the World
- \* SEZ: Special Economic Zone
- **SLA:** Service Level Agreement





## GLOSSARY ... (2/2)

- \* SMB: Small and Medium Businesses
- **STPI:** Software Technology Parks of India
- \* T&M: Telecom & Media
- **T&T:** Travel and Transport
- \* USD: US Dollar
- **\* USP:** Unique Selling Proposition
- **WIT:** Union Territory
- \* Wherever applicable, numbers have been rounded off to the nearest whole number



## **EXCHANGE RATES**

#### Exchange rates (Fiscal Year)

| Year        | INR equivalent of one USD |
|-------------|---------------------------|
| 2004–05     | 44.81                     |
| 2005–06     | 44.14                     |
| 2006–07     | 45.14                     |
| 2007–08     | 40.27                     |
| 2008–09     | 46.14                     |
| 2009–10     | 47.42                     |
| 2010–11     | 45.62                     |
| 2011–12     | 46.88                     |
| 2012–13     | 54.31                     |
| 2013–14     | 60.28                     |
| 2014-15     | 61.06                     |
| 2015-16     | 65.46                     |
| 2016-17 (E) | 66.95                     |

#### Exchange rates (Calendar Year)

| Year            | INR equivalent of one USD |
|-----------------|---------------------------|
| 2005            | 43.98                     |
| 2006            | 45.18                     |
| 2007            | 41.34                     |
| 2008            | 43.62                     |
| 2009            | 48.42                     |
| 2010            | 45.72                     |
| 2011            | 46.85                     |
| 2012            | 53.46                     |
| 2013            | 58.44                     |
| 2014            | 61.03                     |
| 2015            | 64.15                     |
| 2016 (Expected) | 67.22                     |

Source: Reserve bank of India,





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