# Jobs and Skills: The Imperative to reinvent and disrupt

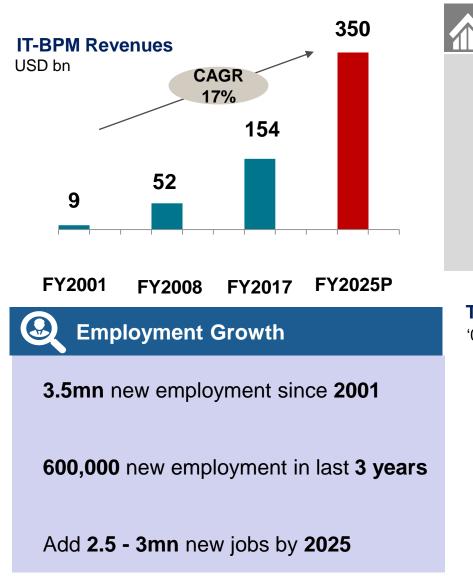
## 18 May 2017

## High Impact Sector of India

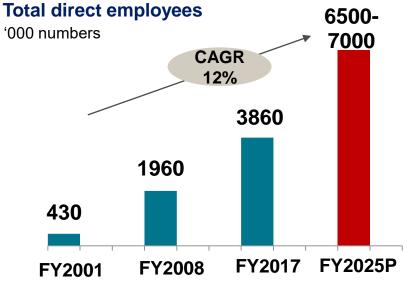
| <b>3.9</b> mn  | <b>\$154 bn</b>  |
|--|--|
| Largest private sector employer  | <b>Growth sector</b> – 3<br>sub sectors with<br>revenues of over \$ 20<br>bn |
| 1/4 <sup>th</sup><br>Share in total services<br>and merchandise<br>exports | Created<br>technology brand<br>for India globally                            |
|  |  |

#### **Multiple Inflection Points for the sector**

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## Alarming Scenario Projected: Bitter truth or Bizarre Fiction?

## Automation, slowing growth push IT lay-offs



## Layoff time: Techies branded non-performers to cut costs IT to layoff up to 200,000 engineers for next 3 years

IT and the story of pink slips IT layoffs: Are slow growth and automation responsible for mass job cuts in the sector?

A warning from IT

Protectionism & automation make skilling India vital

Why being a techie in India is no longer cool

IT jobs crisis: Automation, skill standards, ageism all play a part

continue for 1-2 yrs

**TECH CHECK** A double whammy of automation as well as lack of key skills among those fired may result in many of the them being unemployed for a while

**Experts See Bleak Future** Layoffs in Indian IT may for Sacked IT Employees

## Layoff Crisis in IT may be **Bigger than 2008 Recession**

## Key Facts

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- Reports of mass layoffs in the sector are categorically rejected. NASSCOM and top industry leaders have said this and reiterate it.
- 2 Hiring continues across the sector. FY 2017 saw 1,70,000 added; Q4 FY 2017 alone saw gross hiring of over 50,000 by top 5 companies;
- 3
- Performance linked workforce realignment impacting 0.5 3% of the talent pool remains key competitive strategy. No change in current year.
- Industry will remain a major net hirer in FY 2018; There is a continuing
  gentle deceleration in net hiring growth rate (but with a growing base) as industry focuses on innovation, enhanced efficiencies and lower attrition
- 5

Emphasis shifting from scale to skills. In demand: technical competencies (especially in new technologies) & soft skills; Automation cannibalizing some jobs and creating new ones, net impact positive due to growth

**6** Industry investing heavily in reskilling its workforce; half the workforce covered by reskilling. NASSCOM creating collaborative skilling platform

7 Huge untapped opportunity ahead – this can be the next growth wave for the sector – companies and employees – need to tackle skilling challenge

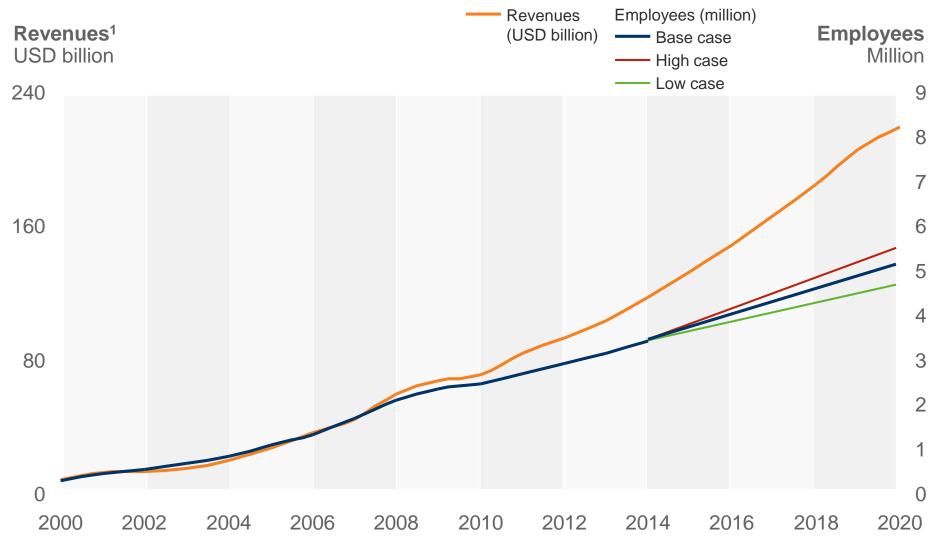
#### FY 2017 Indian IT-BPM Skills Landscape



| TALENT POOL    |                                 | HIRING MODELS |                        |
|----------------|---------------------------------|---------------|------------------------|
| 3.9<br>million | Largest private sector employer | 4-5%          | Contract employees     |
| ~1.7<br>lakh   | Net addition                    | ~40%          | Lateral hires          |
| ~12<br>million | Indirect Employment             | >130+         | Nationalities employed |

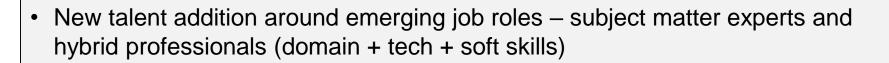
| RISE OF TECHNOLOGISTS |  | IMPROVING PERFORMANCE METRICS |                                       |
|-----------------------|--|-------------------------------|---------------------------------------|
| ~30%                  | Tech talent in BPM; technical career tracks in companies | ~10%                          | Increase in utilization in 5 years    |
| ~10%                  | Hires are domain experts                                 | ~9%                           | Growth in revenue/employee in 5 years |
| ~5%                   | Hires among end-users are tech                           | ~5%                           | Decrease in industry attrition        |

## Decoupling of revenue and headcount likely to accelerate over next few years



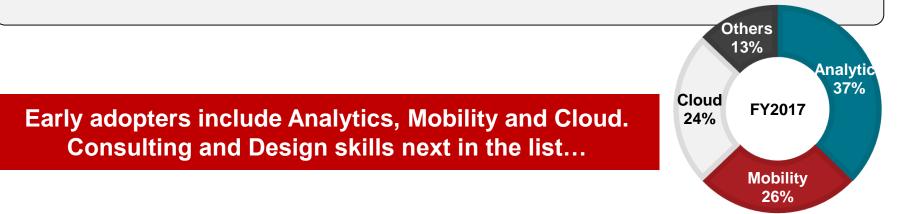
1 Includes revenues (domestic and export) from software products and services, BPM, ER&D and IT hardware

#### **Over 50% of employees from leading companies already trained in Digital technologies**



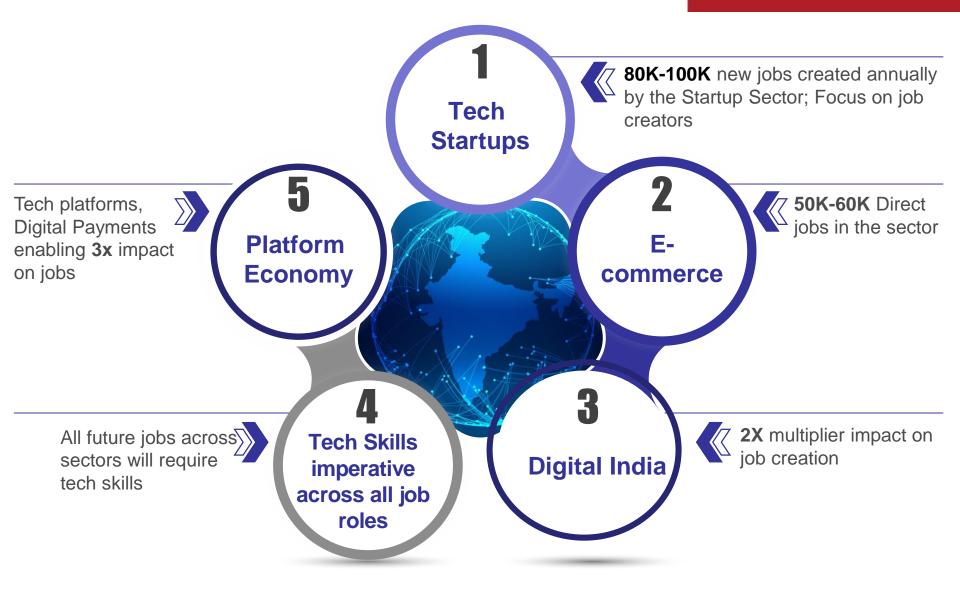
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- **New job roles:** Cybersecurity, mobile app development, new user interfaces, social media, data scientists, platform engineering
- **New skills:** Big data analytics, cloud & cybersecurity services, IoT, service delivery automation, robotics, Al/machine learning/NLP, etc
- **Subject matter experts**: Graphic designers, humanities, sociology, security, finance, payments

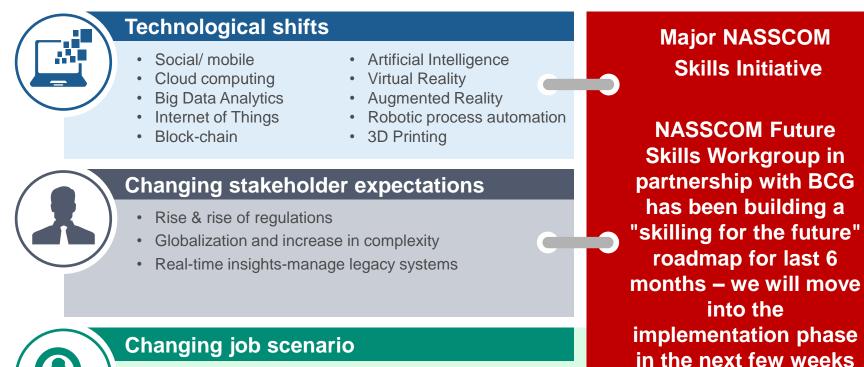


#### Technology as Enabler creating new job opportunities

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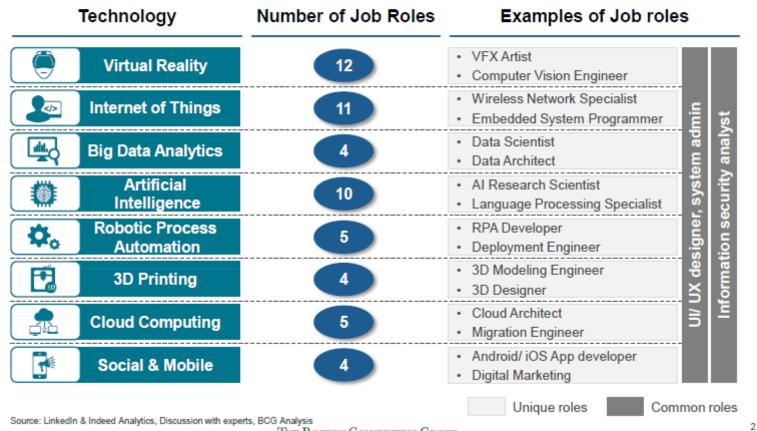


## ...however Employees and Employers will need to prepare themselves to adapt to the changing job environment



- New areas of work are opening up (as technology embeds itself more deeply within different industries)
- Existing service lines are being transformed through increasing intelligent automation
- ~50-60% jobs would require new skills

#### 55 new job roles identified across 8 technologies



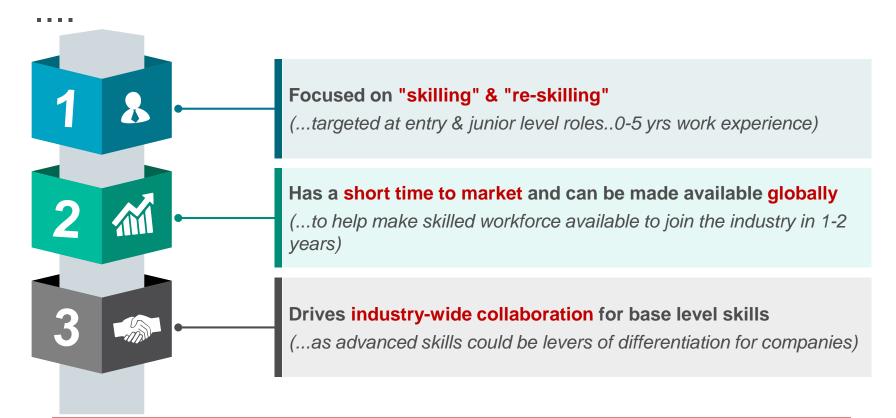
THE ROOTON CONSTRUCTION CROWN

Source: NASSCOM

### **NASSCOM Skills Initiative**

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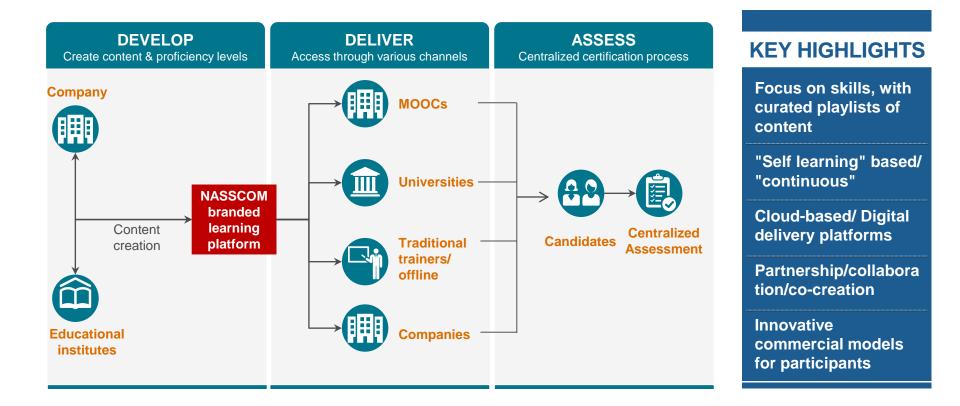
# A collaborative learning ecosystem being put in place jointly by NASSCOM and Member firms...



This skilling/ re-skilling initiative will translate into **1.5-2M** people working on next-gen technologies in India within 4-5 years



## .... that is primed for the future



The initiative is backed by member firms including TCS, Infosys, Accenture, Genpact, Google, Quatrro, NIIT, and ITC Infotech

#### Learning the Right Lessons from Two Major Recent Episodes in the Sector



| Episode  | Wrong Lesson   | Right Lesson  |
|--|--|---|
| Rumours of<br>"Mass Layoffs" in<br>IT Sector         | "How can we stop workforce<br>realignment by resort to<br>regulation, employee<br>activism, etc."<br>(Impact: Decline in<br>competitiveness, potential<br>loss of existing jobs) | Focus on new age skills that<br>are in demand globally –<br>continuously refresh skills<br>and fill the growing global skill<br>gap<br>(Impact: Accelerated growth,<br>greater value add &<br>revenues) |
| Recent Cyber<br>Security Incident<br>from "WannaCry" | "It did not have much impact<br>in the country - we are safe<br>and secure and don't need to<br>act"   | This is a low cost wake-up<br>call. We need to urgently<br>focus on cyber security: skills,<br>technologies, practices and<br>research. If not, we will be<br>badly hit sooner or later                 |

Learning the right lessons is essential for continued global growth and domestic security

#### **Skills are the New Currency**

Change is happening at an unprecedented scale and the lifecycle of skills is shorter than ever. Reskill or Perish is the mantra for the future – for both companies and employees

"If you have the right skills, you will not be looking for a job, the job will be looking for you"



## Thank you