ICT Professional Services The Next Stop for Thai ICT Industry

By Jumrud Sawangsamud Director of RFID Institute The Federation of Thai Industry

Singapore Infocomm Development Agency Vision

"Infocomm-savvy workforce and globally competitive infocomm manpower to drive national economic competitiveness"

Target

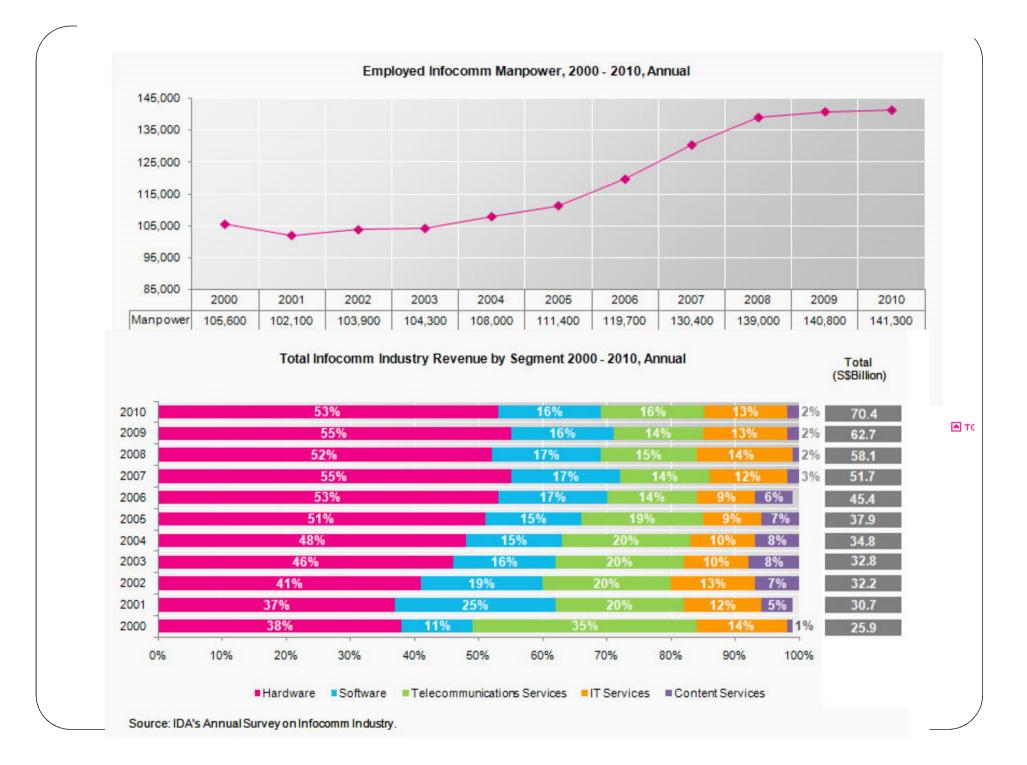
- Boost the number of infocomm jobs by 55,000 to about 170,000 by 2015.
- This is expected to generate another 25,000 non-infocomm jobs in the infocomm industry, to bring the number for such jobs to about 70,000.

In total, the number of new jobs created would be about 80,000





Beacon of the Singapore Infocomm Industry



About Malaysia

28.3 million

Population Total Fertility Rate (TFR) Per Capita income Pre-crisis GDP growth Revised GDP Growth World Competitiveness Unemployment rate Consumer Price Index Literacy

2.2 (below replacement level) USD7,760 (RM25,866) 5.7% (2006-2008) 2.0% (2009-2010) 10th position 3.6% (low unemployment) 2.8% (low inflation) 93.1% (high literacy)

Sabah



QUALITY POPULATION THROUGH ICT

- Research
- Development
- Innovation
- Knowledge worker
- Knowledge Economy
- Knowledge Society
- Innovative Economy
- Digital Economy

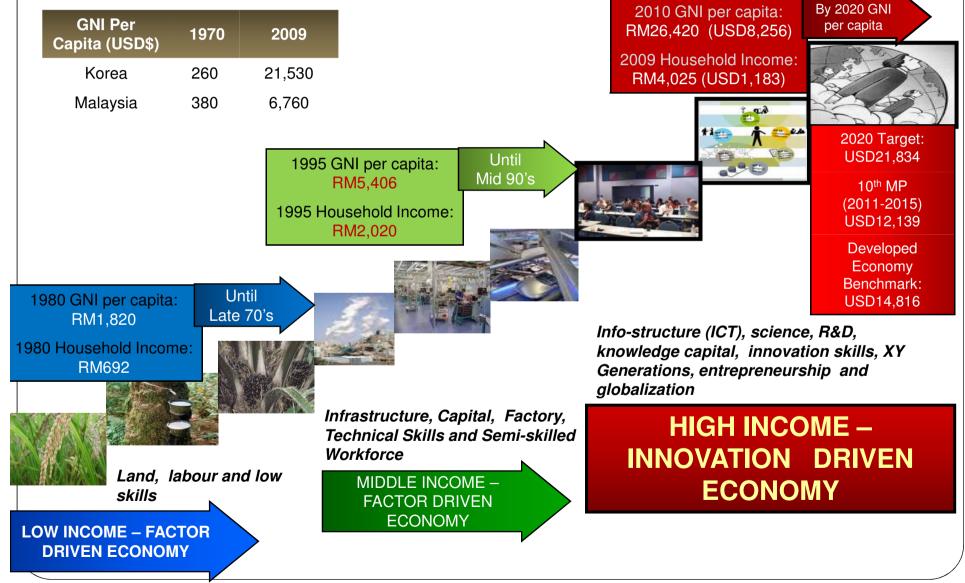


MALAYSIA

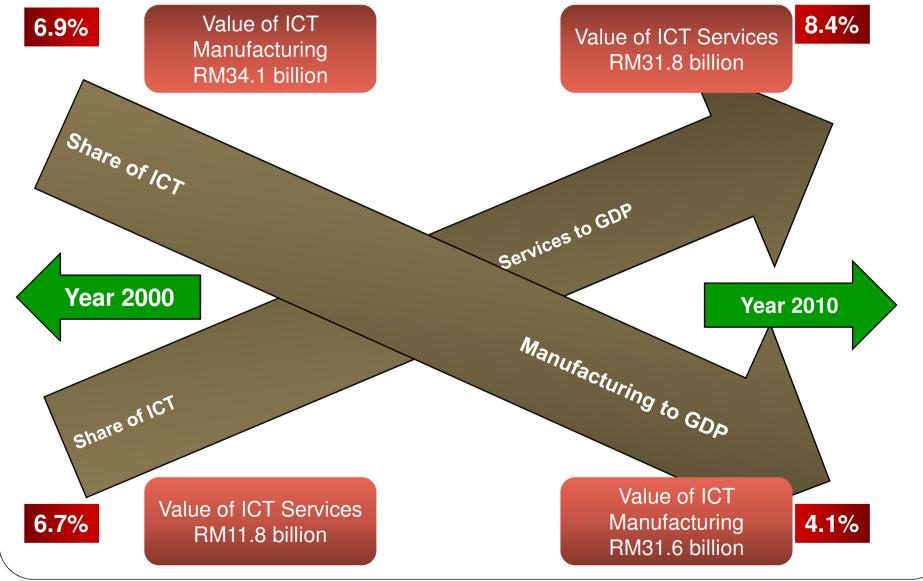
South China Sea

Kuala Lumpur

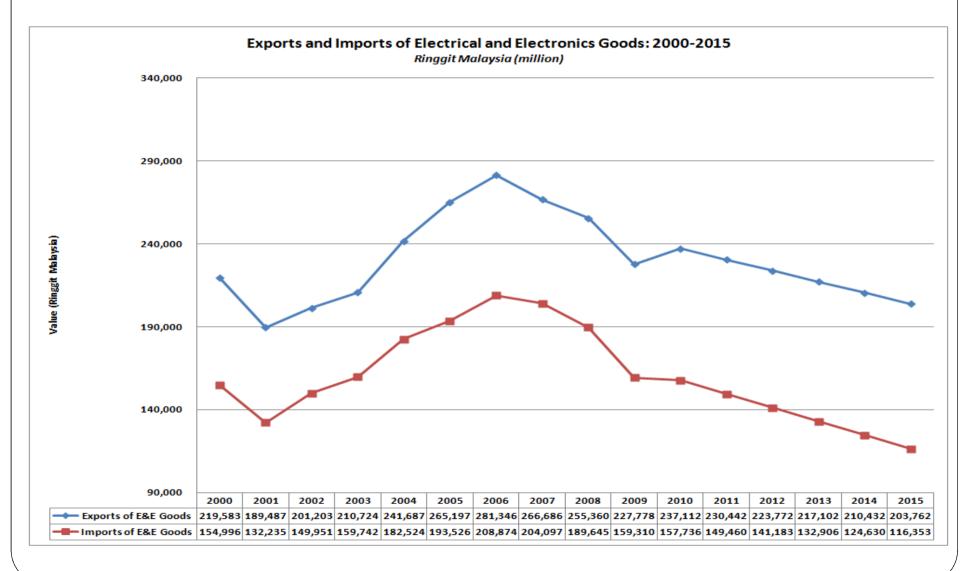
New Economy Model Proposition: Higher Value Adding / Higher Income Nation



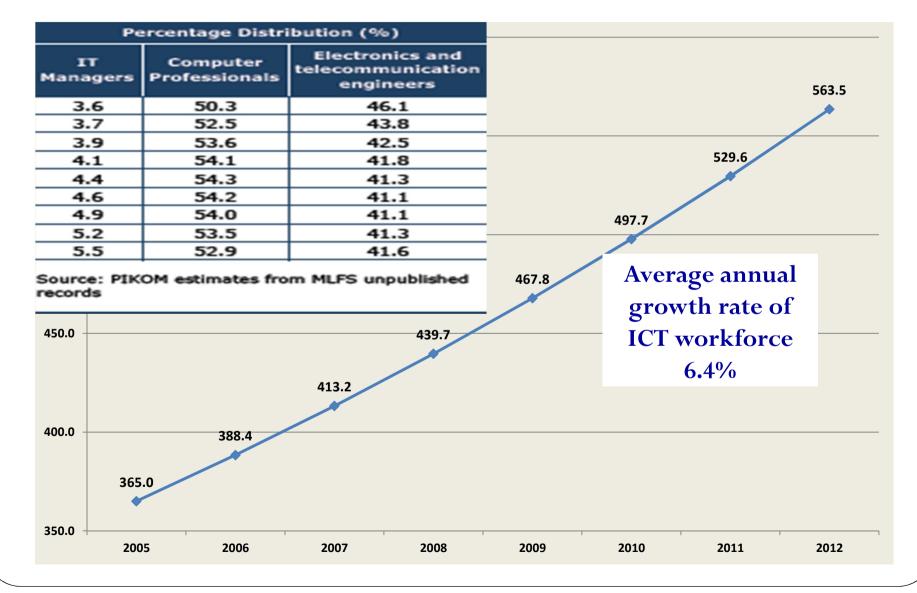
Trend # 1: Structural changes in ICT Sector



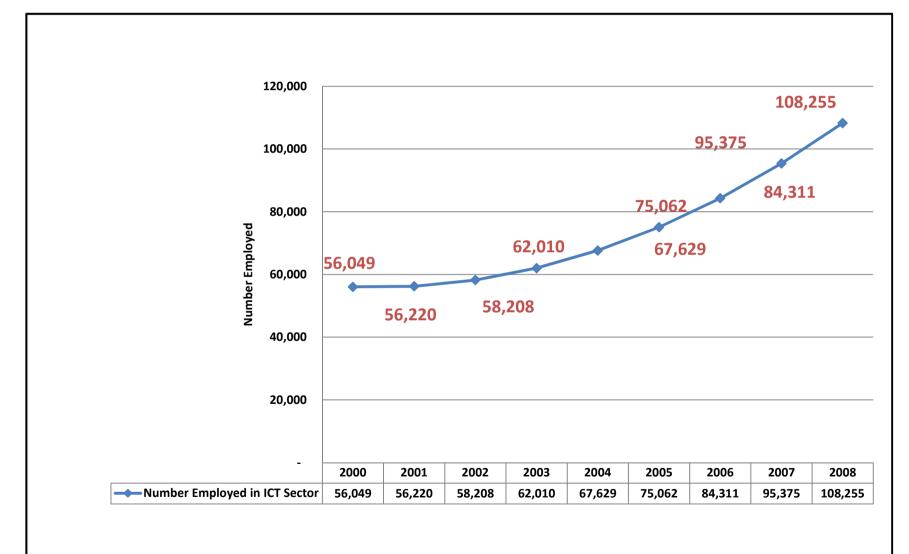
Trend # 2: ICT Trade grew during industrial era , now declining



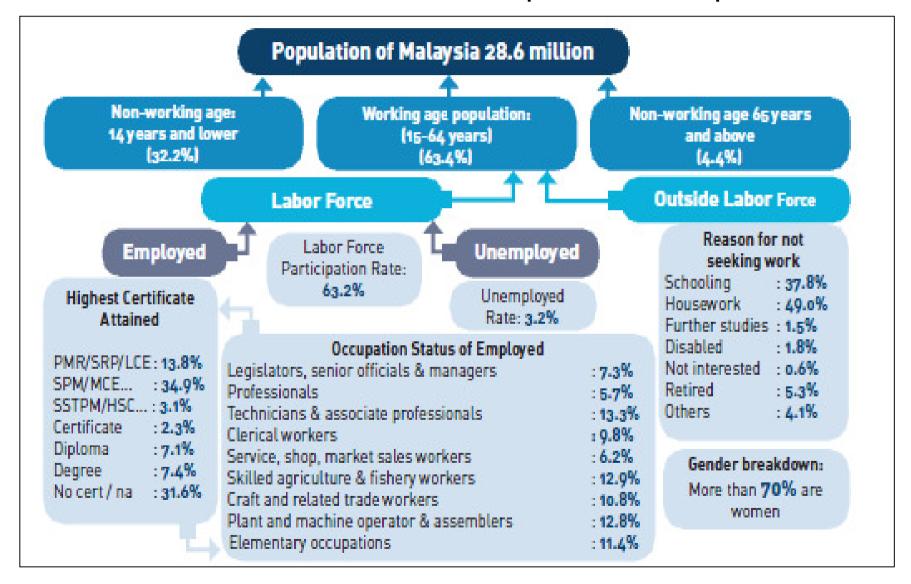
Trend # 3: Share of Computer Professionals are increasing in the ICT workforce



Trend # 4: 3 out of 4 ICT Graduates employed in ICT User Industries



Trend # 5: Professional workforce at 13% poised to expand



Human Capital Development

In the past years Outsourcing Malaysia subsidised 65% of the Certified Outsourcing Professional (COP) through MIDA's SSCDF Fund. A total of 70 people participated in the program. The COP Master Class, which focuses on Project Management training designed for the Outsourcing Industry, is currently the only training program recognised by the MDeC's CDP

Professional Development. OM has also initiated an assessment program, the National Standard of Employability (NSE), to identify and measure the skills gap in the employable talent pool against the expectations of the industry. By identifying the skills gap, specific remedial training program can be identified and recommended to train and upgrade the employable talent pool with the necessary skills crucial in supporting the growth of the outsourcing industry and ensuring our global competitiveness.



Vietnam Software and Service Revenue

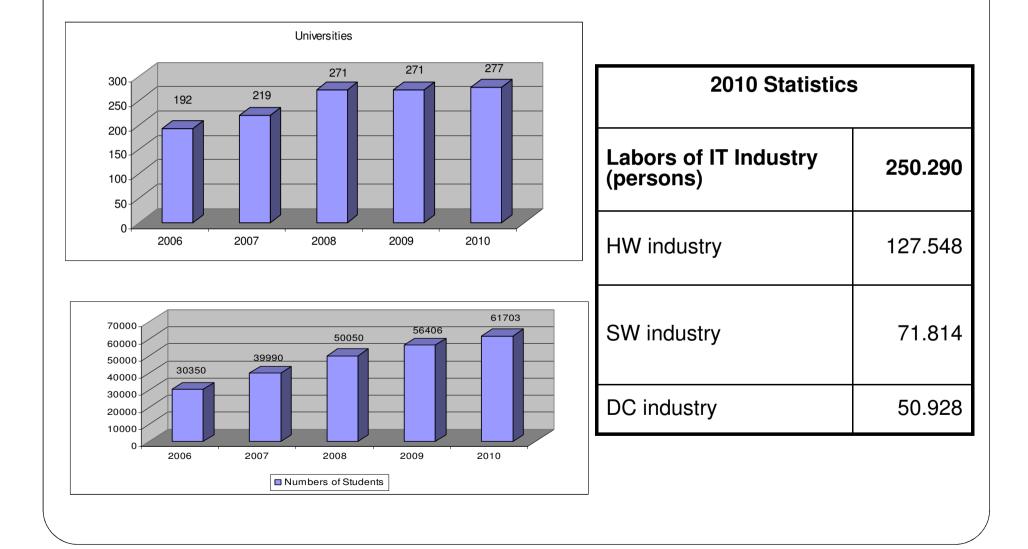
Special Report

2011 Statistics			
Total Revenue (Millions USD)	2,300		
Software (million USD)	1,200		
Digital Content (million USD)	1,100		
Number of Employees (persons)	120,000		
Average of revenue per employee (USD/person/year)	15,000		

Top 50 Emerging Global Outsourcing Cities

Rank 2009	City	Country	Region	Rank 2007	Rank 2008
1	Cebu City	Philippines	Southeast Asia	4	1
2	Shanghai	China	East Asia 8		2
3	Beijing	China	East Asia 10		3
4	Kraków	Poland	Eastern Europe	16	5
5	Ho Chi Minh City	Vietnam	Southeast Asia 6		4
6	Buenos Aires	Argentina	South America	South America 14	
7	Cairo	Egypt	Middle East and Africa	11	7
8	São Paulo	Brazil	South America	15	8
9	Shenzhen	China	East Asia	13	10
10	Hanoi	Vietnam	Southeast Asia	12	11
11	Curitiba	Brazil	South America 17		13
12	Dalian (Dairen)	China	East Asia 18		16
13	Chandigarh	India	South Asia 9		12
14	Prague	Czech Republic	Eastern Europe 20		14
15	Kolkata	India	South Asia 5		6
16	Santiago	Chile	South America 19		18
17	Colombo	Sri Lanka	South Asia 7		19
18	Coimbatore	India	South Asia 21		17
19	Johannesburg	South Africa	Middle East and Africa 25		20
20	San José	Costa Rica	Central America	29	27

ICT Human Resource in Vietnam



Vietnam IT Human Resource

- Human resource is a key competitive advantage of Vietnam software industry.
- 90 million population, of which 65% are young people under 35 of age.
- Science based subjects: first choice (83%) at Vietnamese Universities
- The new enrolment of IT students in universities increases 25-30%/year and reached 50,000 new IT students in 2011
- > 277 universities/colleges with ICT education in the country.
- Ambitious target of education of 1 millions new IT workers by 2020.

Incentives from Government for IT development

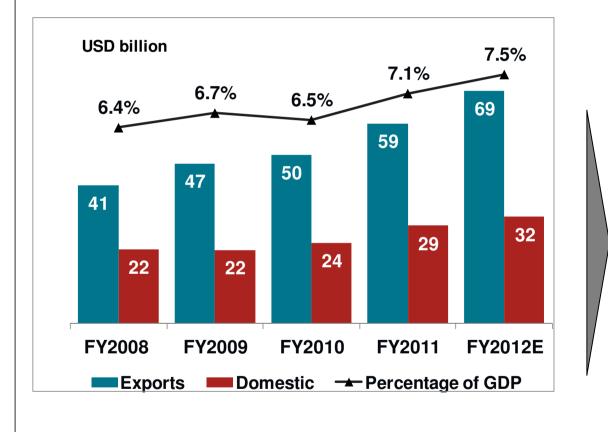
- Income tax incentive:
 - No income tax for the first 5 years
 - 10% income tax for the next (9 years while other industries 25%)
- Support IT companies to get CMMi with up to 25,000 USD
- Prime Minister agreed to be the Chairman of National Commission on ICT

Target to 2020

Vietnam is in top ten of best software outsourcing and digital contents countries.

- By 2020, IT will take 8 10% of GDP
- 1 million IT engineer by 2020
- 80% IT Students get global quality
- Internet user: 70% of total population
- The Revolution #4 in Dec. 2012: ICT as an Infrastructure of the countries

Indian IT-BPO industry revenue crosses USD 100 billion

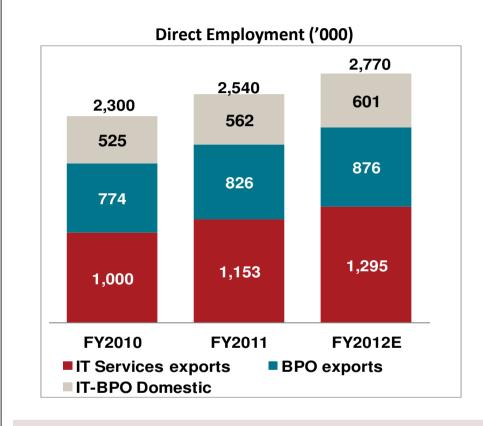


IT-BPO revenue aggregate¹

- Total revenue: ~USD 101 billion
- Relative to India's GDP: ~7.5 per cent
- Relative to merchandise exports: $\sim 25\%$
- Value add: 60-70 per cent
- Exports CAGR: 17 per cent for last 5 years
- Domestic CAGR in USD: ~10 per cent – reflects impact of variable rupee

Note: 1) Exports (IT services, software products, OSPD, ER&D, BPO, hardware); Domestic (Hardware, IT services (incl. ER&D), S/W products, BPO) E: Estimate Source: World Bank, NASSCOM

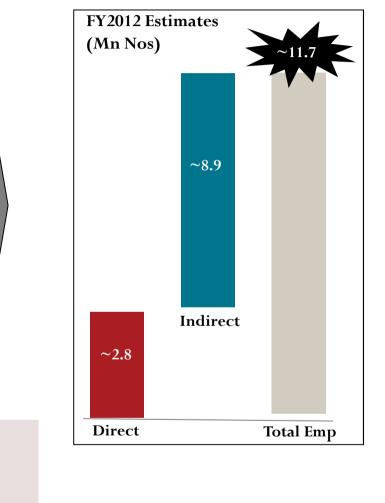
The industry to provide employment to about 12mn people in FY2012

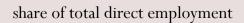


• IT-BPO industry expected to employ around 2.8 million professionals

(growth rate of 9 per cent) in FY 2012

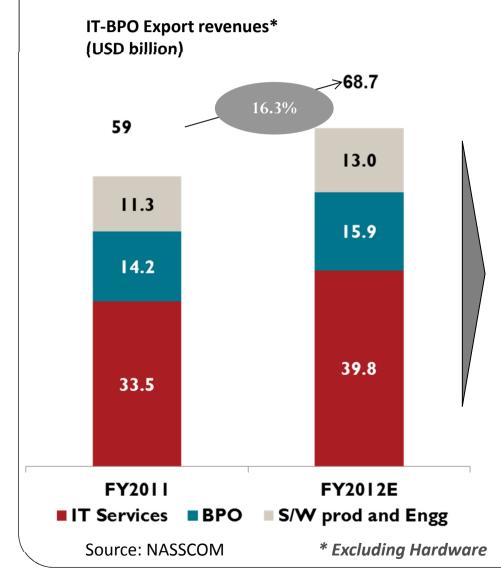
• IT service exports remains the largest employer, with around 47 per cent





*Excluding Hardware Source: NASSCOM

Indian IT-BPO exports continues on the growth path in FY2012

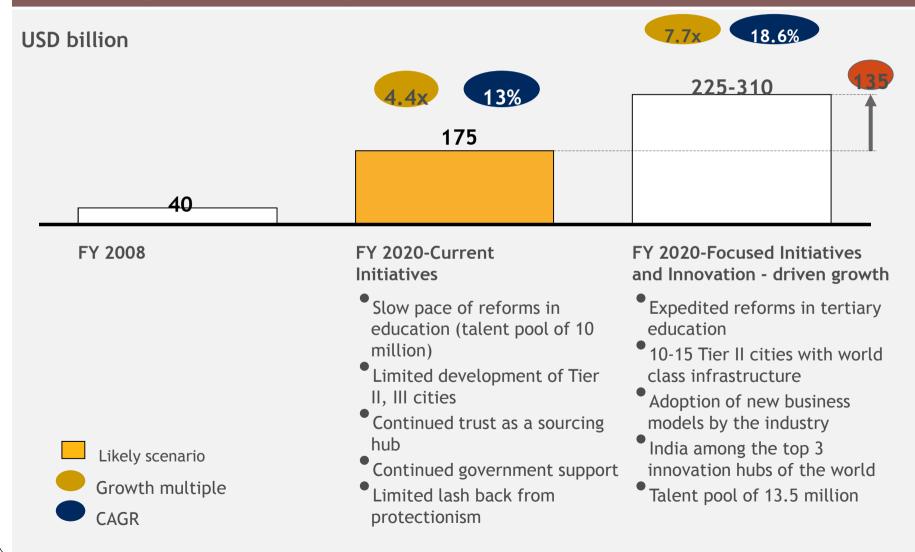


• India's share in global sourcing - 58 per cent in 2011, up from 55 per cent in 2010

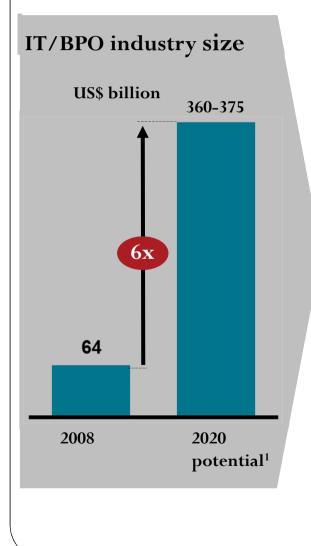
• IT services exhibiting fastest growth at 19 per cent, BPO growing by 12.2 per cent, and Software Products & ER&D by 15 per cent

- Transformation, new business models, driving organisation wide efficiencies
- Services around disruptive technologiescloud, mobility, analytics, social media
- Flexible product portfolios, verticalised solutions

India's technology and business services export market in 2020 - scenarios*



By 2020, this industry can become a strategic growth engine for India



Areas	Contribution by 2020
Economy	 ~10% of annual GDP 18-20% of annual exports
Employment	 30 million employment opportunities (direct and indirect) Job creation in rural and non-metro areas - 20-fold increase in the number of employees operating from tier 2/3 locations Increased diversity (women are 50% of the total workforce) Significant global career opportunities due to
Balanced Regional Growth	 location-independent models 8-10 satellite townships around Tier-I cities 10-15 Tier-II cities with upgraded basic and business infrastructure
Reduced fiscal burden	• ICT can provide solutions at a fraction of the cost of traditional solutions
Globally reputed innovative solutions	 Innovation driving additional GDP contribution of ~2%

Comprehensive Plan for making India's large talent base "employable"

	Objectives	Initiatives
hortTerm	 Enhance overall yield Improve employability Expand to tier 2 locations Lower skill dependence 	 Industry to enhance investments in training Entry-level assessment for BPO and IT, finishing schools : Through NAC, NAC-Tech New locations identified; govt's engaged
Aedium Term	 Lower training investment Enhance specialist and project management expertise 	 Faculty Development Program: to increase the suitability of teachers Facilitating industry access to specialist programs offered by independent agencies
Long Term	 Add education capacity Promote education reform 	 Expansion of higher-education infrastructure: government to set-up 20 new IIITs Program to increase PhDs in technology NASSCOM VC fund focused on technology innovation

Recognizing this imperative, the industry is proactively working on several initiatives to strengthen India's long-term cost advantage

Thailand has adequated human resources BUT...

- Ministry of ICT conducted a report of "ICT Human Resource Development Plan during 2010-2013 and found that Thailand has graduated ICT related student from 2003-2012 at 585,926 people and trend of number is still growing
- But the ICT Industry is growing at level 10-15% a year and especially Software Industry had a low level of growing compared to other AEC countries

Year	2007	2008	2009	2010	2011	2012(F)
Growth Rate	13.1%	11.2%	2.3%	12.5%	10.1%	17.2%

• By the large number of graduated student every year while industry growing at lower rate, Thailand need an urgent development plan to move Thai ICT industry to step-in ICT Professional Services industry.

Question & Answer Thanks