

## India's IT Presence in the Asia Pacific Region





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### Structure



- 1. Asia Pacific IT Landscape
- 2. Indian IT Industry
- 3. India IT presence in Asia Pacific
- 4. NIIT's presence in Asia Pacific
- 5. Opportunities for the region



## Asia Pacific IT Demographics



#### 1999 estimates

Country	Popul ation Statist ics (M)	GDP Statistics (\$B)	No. of PCs (M)	PC / Population %	Internet Users	Internet PC %
Australia	19	422	8	43	3.8	47
China	1263	1064	12	2	2.4	20
HongKong	7	162	4	30	0.7	21
India	1012	432	3	0.3	0.5	19
Indonesia	207	156	3	1	0.3	11
Korea	47	413	20	44	3.3	16
M alaysia	23	79	2	7	0.4	29
Philippines	7.5	75	2	2	0.3	14
Singapore	4	85	1	40	0.6	41
Taiwan	22	280	4	20	1	23
Thailand	63	123	1	2	0.3	28
A sia	2721	3271	59	2	14.5	24
Japan	127	4267	31	5	12.1	39

Source: Goldman Sachs - Asia Internet Report



## Asia Pacific e-Commerce Scenario



#### **Asian e-Commerce market**

- •US \$700M (1998) expected to grow to \$32B (2003) implying a CAGR of 145%
- •In contrast US online markets are growing from 55% to 97% CAGR across industry segments

### **High Growth Potential Countries**

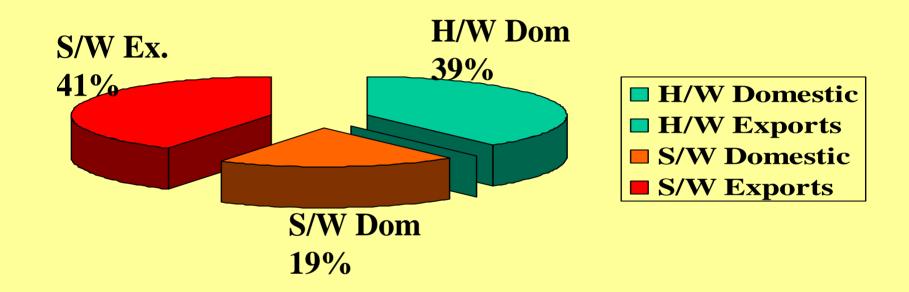
- •Australia (Largest): \$430M (1998) to \$9B (2003)
- •South Korea: \$5B by 2003
- •China & India (Highest growth expectations): 243% and 246% to reach \$4B & \$2B respectively

Source: Goldman Sachs-Asia Internet



## Indian IT Industry 1998-99





**Total IT Industry Size USD 6,400 Million** 

Hardware: US \$ 2,500 Million

Software: US \$ 3,900 Million

350,000 technical and managerial personnel

**Source: MAIT** 



## **Indian IT Industry**



PC penetration: 3 per 1000 people

PC Sales (1998-99): 1 Million Units;

Telephone Density: 2 per 100

No. of registered ISPs: 150 +

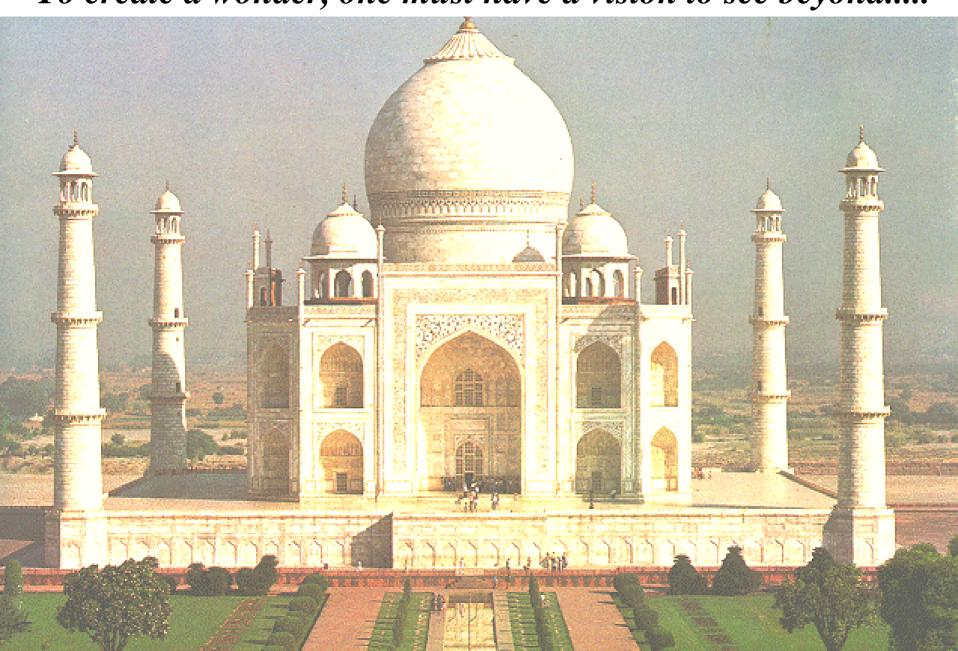
**☞ Internet Connections: 500,000** 

National Internet Backbone

Booming market:

**Source : MAIT** 

"To create a wonder, one must have a vision to see beyond...."





## And The Wise Men said ....



**Identifying India's IT potential** 

- World Bank study on Software, DoE 1992

"Software Industry is the only Industry from India which can destabilize an industry anywhere else in the world".

- C K Prahalad, 1994

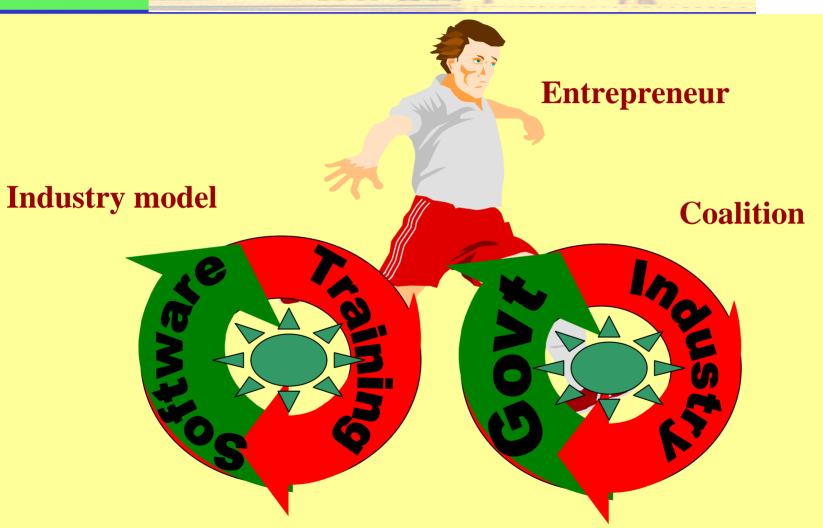
"India is likely to be the next software superpower"

- Bill Gates of Microsoft (at Davos - 1998)



## The Indian IT Juggernaut





India's Three pronged formula for Success....



## Partnerships with India



#### **Modes Of Entry**

#### Subsidiaries

- Hewlett Packard
- Motorola
- Silicon Graphics
- Compaq
- Microsoft
- Apple
- LG

## • Joint Venture Indian Partner

- IBM

#### Licensing of Technology

- Citizen
- Oki
- Epson

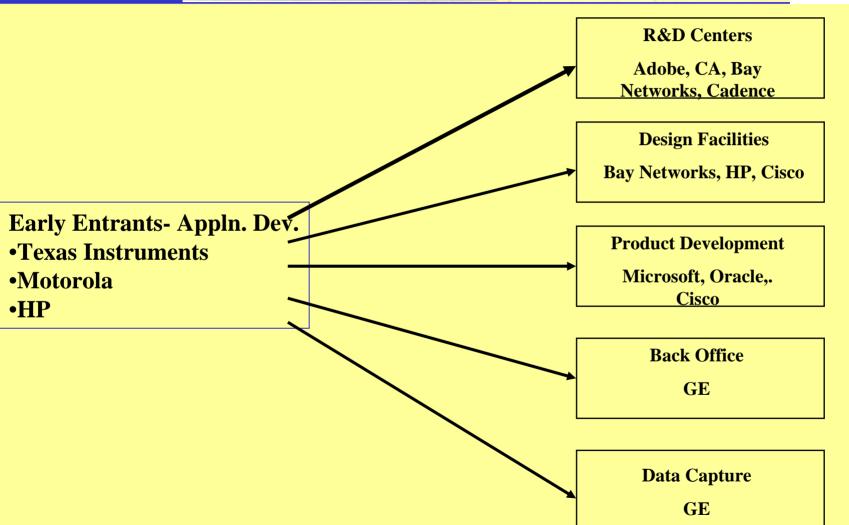
#### • Marketing/Distribution Arrangement

- Microsoft
- Intel
- Compaq
- Apple
- Lotus



## Foreign Investment in IT Services

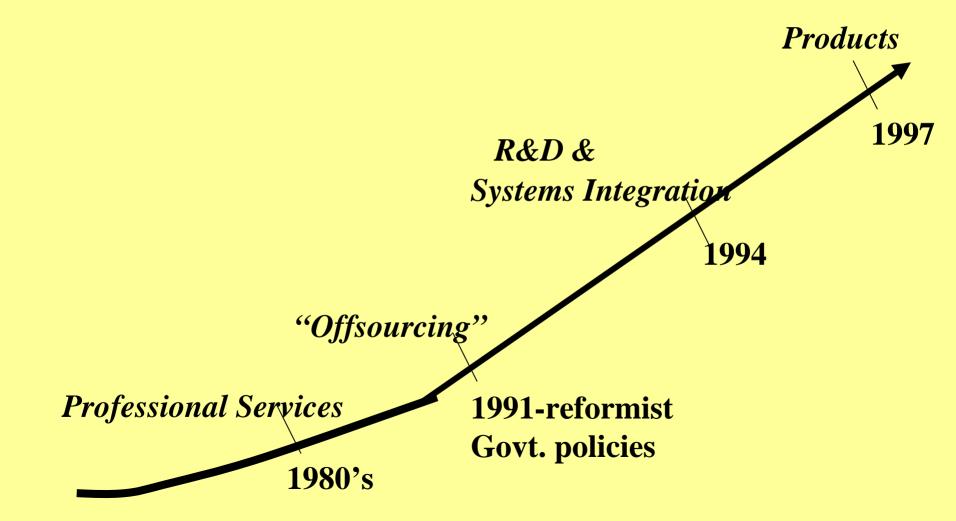






## Indian Software Export - Evolution



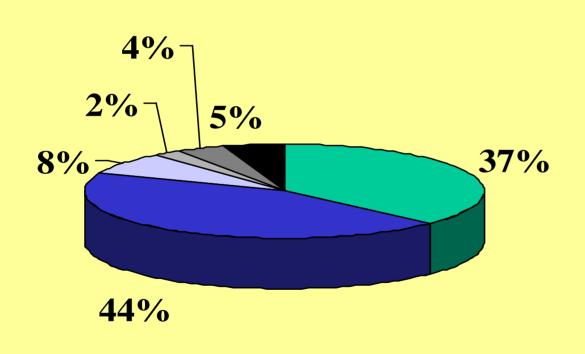




## India's IT Services Exports



### **Activity Break-up**



- Projects
- Professional Services
- Products & Packages
- **■** Training
- Support & maintenace
- IT enabled services



## Indian IT Education Competitiveness



	India	U.S.A
Population	945 Mn	269 Mn
English speaking Technical labor force (worldwide ranking)	2 <sup>nd</sup>	1 <sup>st</sup>
Computer Engineering Graduates, annual	61,000	30,000

Source: BT Alex Brown Research

India had universities like Nalanda and Takshashila, metropolises like Pataliputra and Ujjaini, emperors like Chandragupta Maurya and Samrat Ashoka, scholars like Pannini and Kautilya



## **India's Training Model**



# Value Added

#### Web-Based

- Greater usage and Accessibility
- Storage capacity
- •Immense potential & most effective

#### **Multimedia**

- •Self-paced instruction & Interactive learning
- Cost efficient

#### **Automated**

- Cost efficient
- •Video based, CDs, etc.

#### **Class-Room**

- •Traditional learning paradigm
- •The economics of filling 'seats'

#### Moving Up The Value Chain



## Industry - Government Interaction



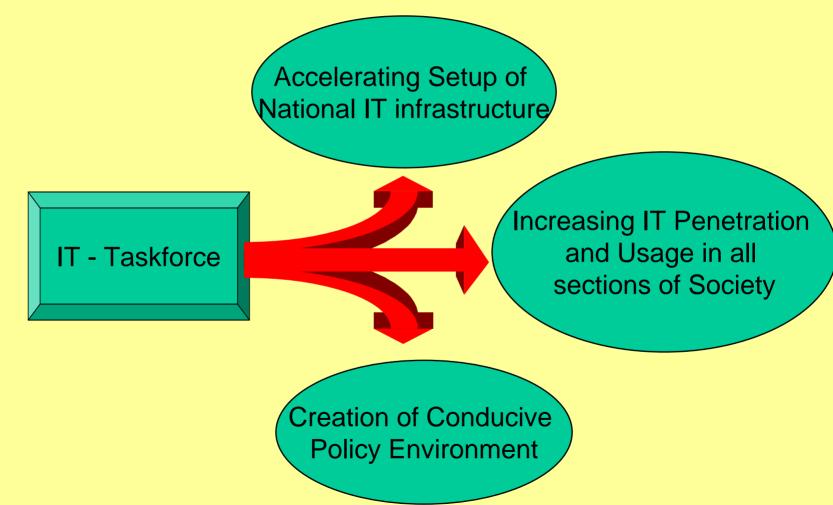
#### From Control to Co-operation

Do not walk in front of me,
For I may not follow;
Do not walk behind me,
For I may not lead;
But walk beside me and be my friend,
And we shall accomplish many things together



## IT Taskforce- Three Pronged Strategy







## National IT Task Force Major Recommendations



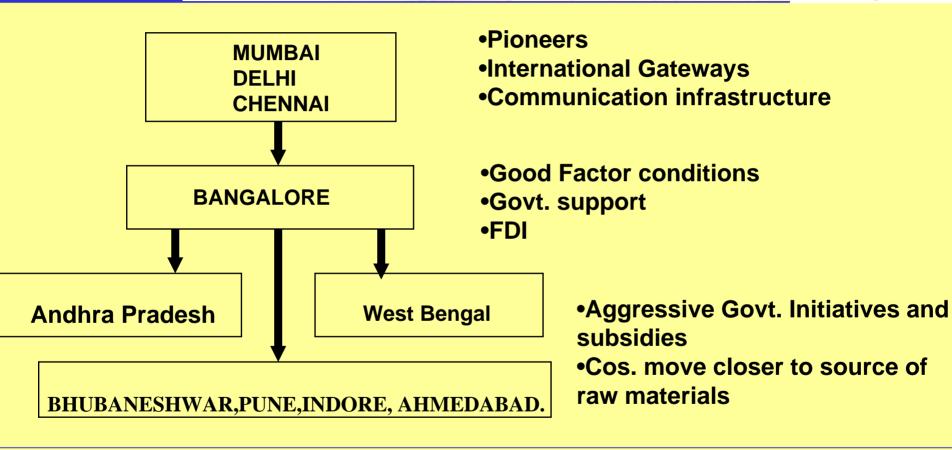
- 108 point Action Plan
  - Infrastructure drive
  - Target IT exports: \$10 B by 2002, \$50 B by 2008
  - IT education for all by 2008
- 84 point Action Plan for Hardware
  - PC penetration from 3 to 10 per thousand : over 200% growth
  - H/W and IT design to grow to US \$5B by 2005 and US \$10B by 2008
  - Export investment and RBI issues
  - IT product design and development



### **State Level Initiatives**

THE RESIDENCE





#### **CONSIDERATIONS:**

-Education Infrastructure
-Communication infrastructure

-Transportation

- Basic Infrastructure
  - Power, Roads, Housing etc.



## The India Advantage



- Language Advantage: English is the language of business
  - Second largest "English Speaking" nation
- Human Advantage: Well developed educational system
  - Formal sector
    - 320 Universities , 700+ private institutions
    - Over 60,000 qualified graduates every year
  - Non Formal IT Training
    - Trains over 250,000 people per annum
    - Covers Literacy, Career and Skills upgrade
- Size Advantage
  - Resource pool of over 240, 000 software professionals
  - One of the largest Educational Multimedia facilities



## The India Advantage



#### Quality Advantage

- 150 companies with ISO 9000 / SEI -CMM certification<sup>1</sup>
  - Including 6 Cos assessed at SEI\_CMM Level 5

#### Productivity Advantage

 'India has the highest software cost/productivity ratio in the world'<sup>2</sup>

#### Track Record

- Wide acceptance by 250 and more large global corporates
- 1.25 % of global market share in project outsourcing and maintenance contracts.

Most Importantly the increased and continual support by the Government

Source: NASSCOM



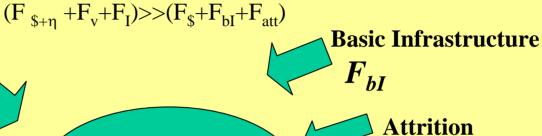
### **Forces Determining India's** Competitiveness-Newton Revisited





**Salaries** 





#### **Indian IT Industry**

The Ball is Rolling



**Knowledge Infrastructure** 

- •Communication Infrastructure
- •Education infrastructure

**Moving up the Value Chain** 

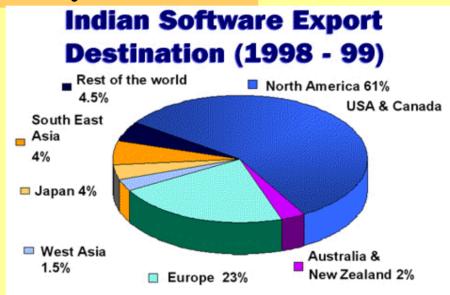
**Dollar - Rupee Parity Productivity** 



## India's IT Trade with Asia Pacific



#### **Exports – predominantly IT Services**



- S/W exports nearly \$265M to Asia Pacific

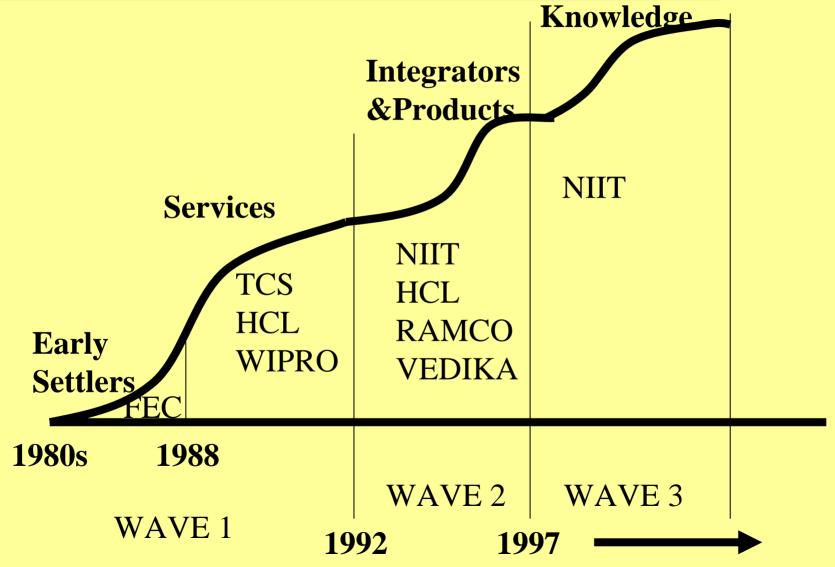
#### **Imports – predominantly Hardware**

- •Imports from Asia Pacific are nearly \$1.5B
- •Main sources are Taiwan, Japan, Korea, HongKong and Singapore



### Indian IT Presence in Asia







### **NIIT's Contribution**



### .. now with SEI CMM L5 capability



Cocos Is. -



## NIIT Projects in APAC



### .....touching people in everyday life

- Ministry of Community Development, Singapore
- Inland Revenue Authority
- Singapore Sports Authority
- UNITAR, Malaysia
- Smart Schools project, Malaysia



Start |

## NIIT's Contribution to APAC





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### **NIIT's Contribution to** APAC









**Ordinary Hirer Registration** 

Singaporeans and Singapore permanent residents, please enter NRIC No. Foreigners please enter Passport No.

All fields are mandatory

NRIC Passport No. :	
Name :	
Email Address :	

Submit

SSC HOME i Book HOME **BOOKING RULES** 

ABOUT & Book RATES & CHARGES | CUSTOMER SERVICE

FA.Qs FEEDBACK FORM

## Opportunities for the future



Industrial Era to Knowledge Era

**ATOMS** 

BITS

5 Ms to 4 Ms

Man

Money

**Method** 

**Machine** 

Mind

**Material** 

Focus: the MIND

Logic

Intuition

**Thoughts** 

**Feelings** 

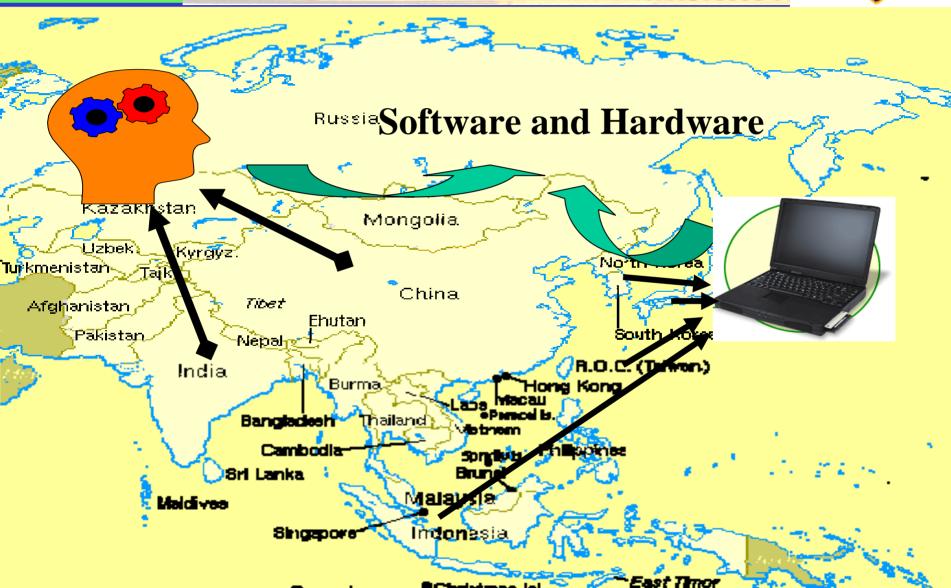
**Cold Bits** 

**Warm Bits** 



## Asia Pacific Competitive Advantage







## Ingredients for success



- Policy
- •Physical Infrastructure
- •Knowledge Infrastructure
  - Content
  - Education

## Literacy needs redefinition



## Minimally Invasive Education







## ...and finally



Give a person a fish and feed him for a day Teach a person to fish and feed him for a lifetime ....