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## Contents

- Innovation Center Denmark In Brief...
- China's Transition: China Tomorrow
- Market Drivers & Developments
- "Building China"

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**Innovation Center Denmark** 

## Brief overview of the Innovation Centers

- New type of representation in international "hot spots". Facilitates access to innovation drivers like capital, networks, knowledge, technology, and markets.
- Centers in Silicon Valley (June 2006), Shanghai (September 2007), and Munich (June 2008).



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China's Transition: China Tomorrow

## Understanding "What is China"?

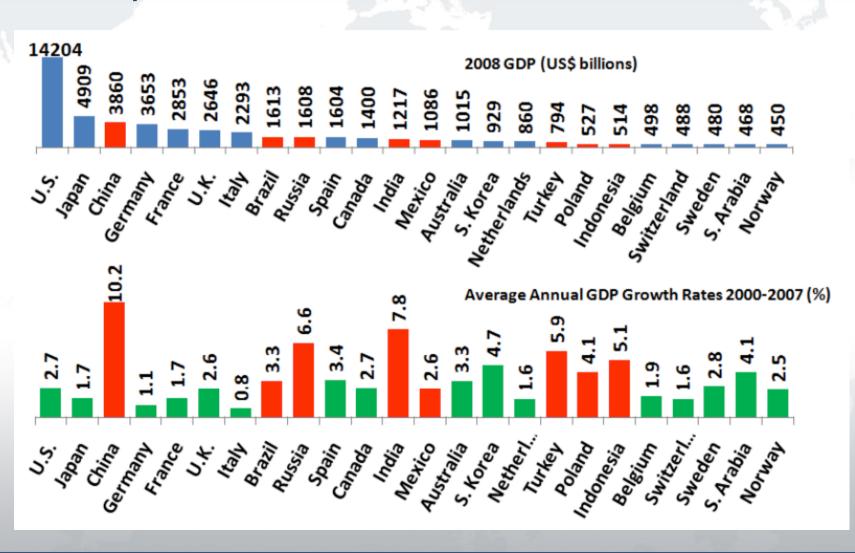
- Size equal to Europe
- Cultural differences
- Rich & Poor
- Brutal competition
- Rapid and significant changes



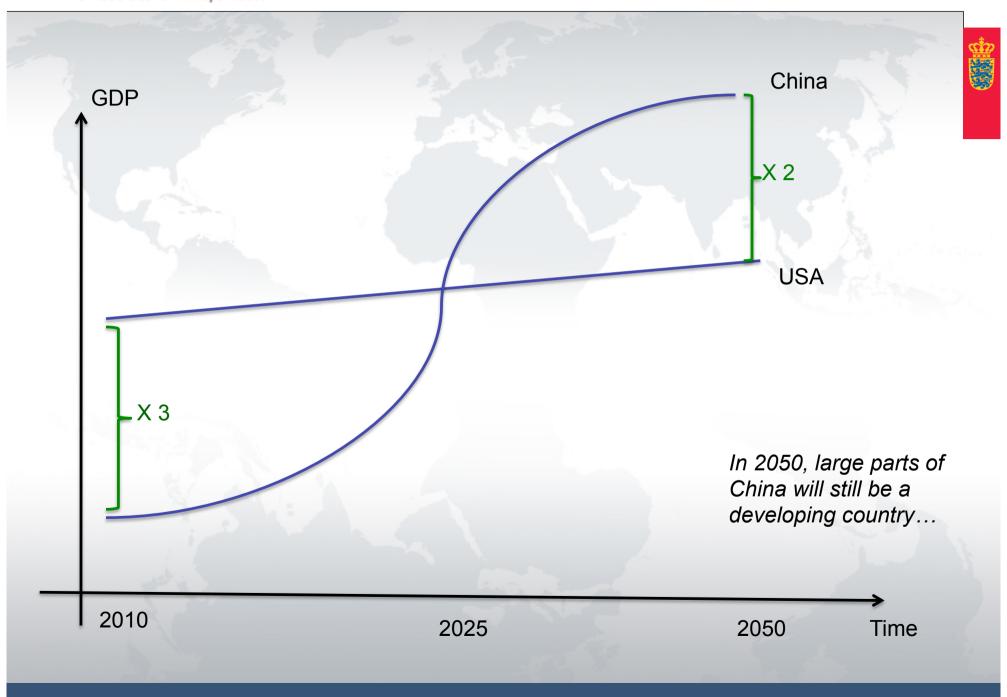
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## The Top 24 Economies in the World



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## Where China is Headed

- 1. World's largest economy by 2025
- 2. From Exports to Domestic Consumption
- 3. From Imitation to Innovation
- 4. More harmonious Society
- 5. From fragmentation to consolidation
- 6. From Domestic Players to Global Champions

Source: Insead

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# Shanghai, Pudong, 1990





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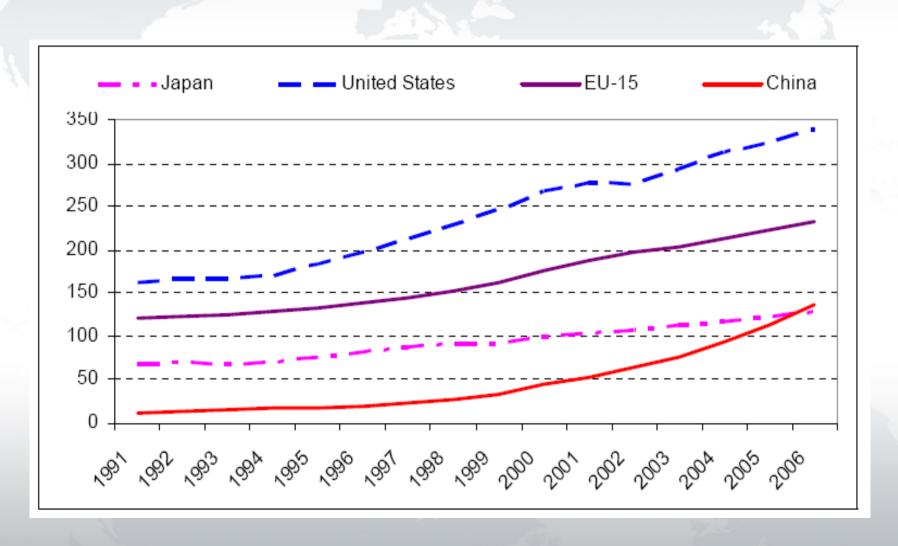
# Shanghai, Pudong, 2010





## Gross domestic R&D expenditure (bill. US\$)





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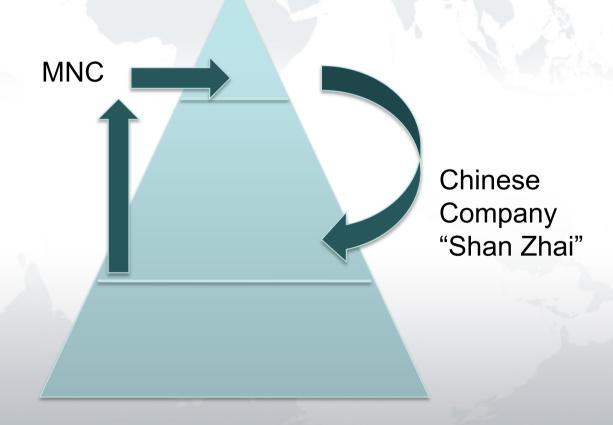
# China's Innovation System



Central indicators for China's innova	tion system			
	1997	2001	2005	2008
Total R&D investments(billion US\$)	6,1	12,5	30,1	66,5
R&D investments in % of gross domestic product	0,64%	0,95%	1,34%	1,54%
Private share of total R&D investments	55%	56%	66%	72%
Number of students enrolled in Universities (m)	3,2	7,2	15,6	20,2
Researchers (1000 man-years)	559	743	1,119	1,592
Patent Applications in China	114,208	203,573	476.264	828.328
Scientific publications (SCI)	35,311	64,526	153,374	196,629
Export of high technology in % of total export	8,9%	17,5%	28,6%	29,10%

Source: China Statistical Yearbook 2009, OECD 2009

## Imitation + Innovation = Imivation ??



Source: Innovation Center Denmark, Shanghai

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## Some of the Shan Zhai products









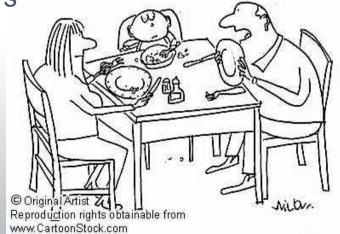




## So the Challenges are Also Present...

- Cultural differences / Language Barriers
- Market- & environment understanding
- Brutal Competition (hyper-growth, price, target marketing and speed to market)
- Intellectual Property Rights Imitators.
- Technology Transfer / Joint Ventures
- Knowledge about Chinese Innovation Clusters
- Recruiting and Retaining Qualified Staff
- How and where to get Started?

DID YOU KNOW in some cultures it's considered rude to Lick Your plate



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Market Drivers in China

## Energy, Environment, Clean Tech...



### Chinas priorities (with direct impact on Energy & Environment)

- Continue growth, control inflation, increase welfare and shrink the gap between poor and rich
- 2. Build up Green Tech business to support growth
- 3. Self sustainable within energy
  - Increase energy efficiency
  - Increase use of renewables
- 4. Improve the immediate environment (air and water)
  - Lower Nox, SO2 and COD
- 5. CO2-abatement

## **Building and Construction**

# Booming Urbanization

- Intelligent residence community shall grow by 30% in 5 years
- 3-500 million people relocates to the cities in the next 40 years.

# Improved Living Standard

 People is seeking for buildings more comfortable, convenient, intelligent, energy-saving and environmentally friendly

### Energy Strategy

 Government concerns on energy issue is the most robust booster for popularization of intelligent house

## Technology Useage

 More and more extensive application of information technology, control technology and networking

### Huge Investment

 Investment on intelligent building shall accounts for 5% to 8% of the total investment on building, some areas even 10%, with an approx. amount of 81 billion RMB

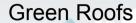
### Quality Control

 A lot of construction projects suffers from poor quality control and insufficient training of construction workers. Leading to poor quality constructions.

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## **Building China**

Aviation, Health, Public



Building project establishment

Industrialized constructions

Intelligent control systems

- Research and reports
- Sector specific events and conferences in China
- · Legal Requirements
- · On-going tech-scouting
- Promotion of Danish competences and Chinese requirements
- Mapping of dominant stakeholders in China
- Consortium with complimentary competences
- · 2 annual network meetings.
- Pass word protected portal

CONSORTIUM - project administration -

Intelligence Center

Sector specific project:

**Innovation Community** 



