

#### Half Day CONFERENCE at The University of Hong Kong on:

18 January 2011, Hong Kong

Wang Gungwu Theatre, Graduate House, The University of Hong Kong, HK

You are cordially invited to participate in the above event organised by the **Centre for Infrastructure & Construction Industry Development** (CICID) of **The University of Hong Kong**. This event will be an important milestone in a research project on '**Evaluating Construction Industry Development**', supported by the Hong Kong Research Grants Council, and launched **in parallel with comparative studies in Singapore and UK**.

This half day conference brings together industry experts to provide a panoramic overview of construction industry development in Hong Kong and the way forward. These will be juxtaposed against overviews of construction industry developments in Singapore and UK.

Join us in a morning of knowledge exchange & dissemination blending Hong Kong highlights with international insights into initiating, propagating, nurturing and benefiting from construction industry development initiatives. Refer programme below for details on presentation topics and speakers.

PROGRAMME			
08.30 - 09.00	Registration & Refreshments		
09.00 - 09.10	Welcome Address & Introduction	Prof. Albert Kwan Head of Dept. of Civil Eng., The Univ. of Hong Kong, HK	
09.10 - 09.30	Key Note: Construction Industry Development – Vision, Actions & Achievements	Ir Christopher To Executive Director, Construction Industry Council, HK	
09.30 - 09.50	Key Note: A Robust Construction Industry-The Government's Role and Perspective	Ir Enoch T.S. Lam, JP Deputy Secretary (Works), Development Bureau, HK	
09.50 - 10.10	Key Note: Dynamics, Concerns and Challenges for Construction Industries	Mr Chew Tai-chong Projects Director, MTR Corporation Ltd, HK	
10.10 - 10.30	Key Note: Free Market and Construction Industry Development	Ir Billy Wong Wing-hoo, JP General Manager, Henderson Land Development Co. Ltd., HK	
10.30 - 10.45	Q & A		
10.45 - 11.00	Refreshment Break		
11.00 - 11.30	Construction Industry Development - a Hong Kong perspective	Prof. Mohan Kumaraswamy The University of Hong Kong, HK	
11.30 - 12.00	Developing the Construction Industry in Singapore	Prof. George Ofori National University of Singapore, Singapore	
12.00 - 12.30	Construction Sector Reform in the UK	Prof. Stuart Green University of Reading, UK	
12.30 - 12.45	Q & A		
12.45 - 13.00	Closing Remarks	Ir C.K. Mak, GBS, JP Vice Chairman, CICID, HK	

#### REGISTRATION

- Conference Registration is FREE
- Registrants are entitled to receive ATTENDANCE CERTIFICATES
- Places are limited and registration is on 'FIRST COME' basis.

Please visit http://hkuems1.hku.hk/hkuems/ec\_regform.aspx?guest=Y&UEID=15121 for registration

Enquiries: Ms. Bridget Lam by email at ppps@hku.hk, or by phone at (852) 2859 2666.





# **Construction Industry Development - Comparison and Acceleration**

18 January, 2011

Wang Gungwu Theatre, Graduate House, The University of Hong Kong, Hong Kong



# Symposium Organising Committee

Chairman	Prof Mohan Kumaraswamy
Depty-Chairman	Dr Gangadhar Mahesh
Vice-Chairmen	Ir Sam Chan, Dr Jacky Chung
Secretaries	Ms Brenda Xie, Ms Junqi Zhang
Committee members	Mr Yat-wah Fong, Ms Bridget Lam, Mr Scott Pu, Mr Ricardo Ramirez,
	Mr Kelwin Wong, Mr Joe Zou
Acknowledgement	Civil Engineering Society, HKU

# **Construction Industry Development – Vision, Actions & Achievements** Ir Christopher To Executive Director, Construction Industry Council, HK

A Robust Construction Industry–The Government's Role and Perspective Ir Enoch T.S. Lam, JP Deputy Secretary (Works), Development Bureau, HK

# **Dynamics, Concerns and Challenges for Construction Industries** Mr Chew Tai-chong Projects Director, MTR Corporation Ltd, HK

Free Market and Construction Industry Development Ir Billy Wong Wing-hoo, JP General Manager, Henderson Land Development Co. Ltd., HK

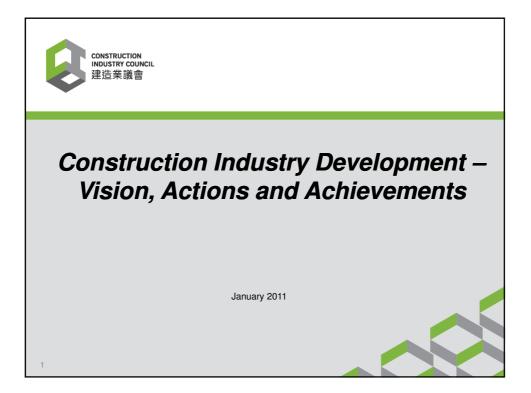
### **Construction Industry Development - a Hong Kong perspective**

Prof. Mohan Kumaraswamy The University of Hong Kong, HK

#### **Developing the Construction Industry in Singapore**

Prof. George Ofori National University of Singapore, Singapore

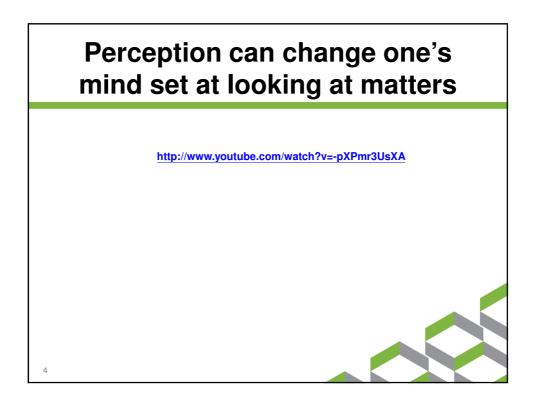
**Construction Sector Reform in the UK** Prof. Stuart Green University of Reading, UK **Construction Industry Development – Vision, Actions & Achievements** Ir Christopher To Executive Director, Construction Industry Council, HK



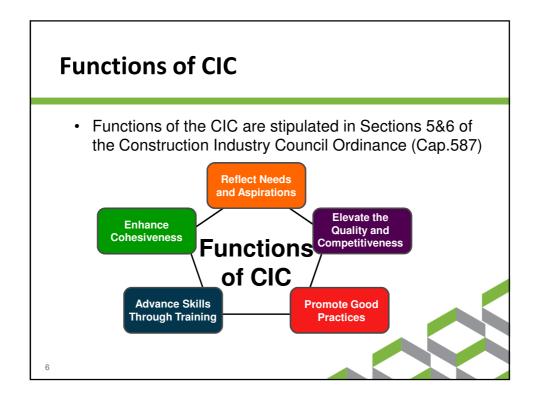


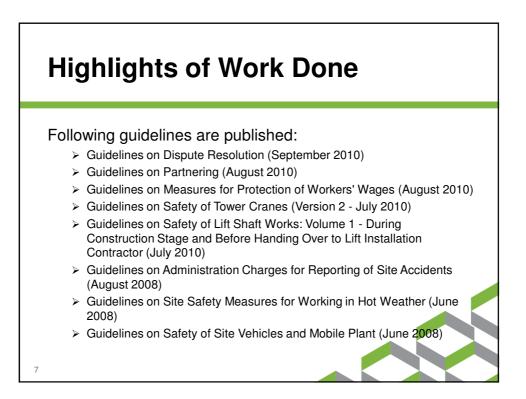
# Global Issues which the Construction Industry is now facing and the Challenges ahead

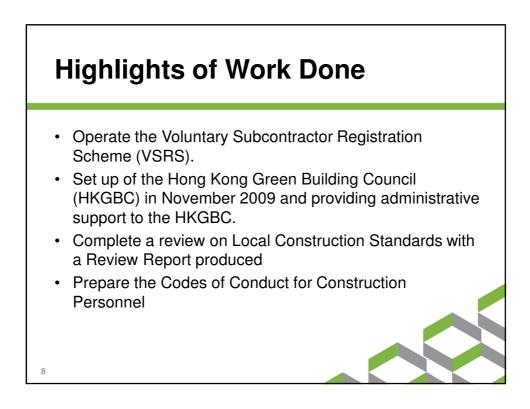
- Regulations
- Risks
- Governance
- · Operations Productivity
- Strategy and Growth
- Talent
- Innovation and Technology
- Sustainability and Climate Change

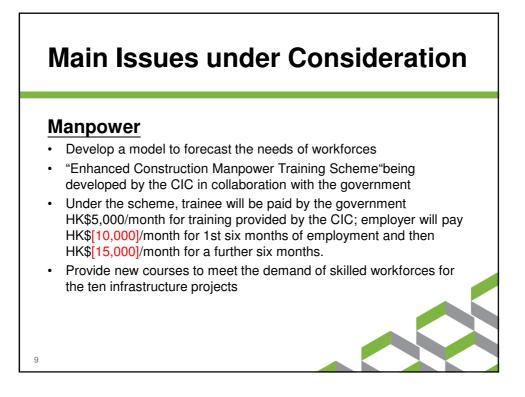


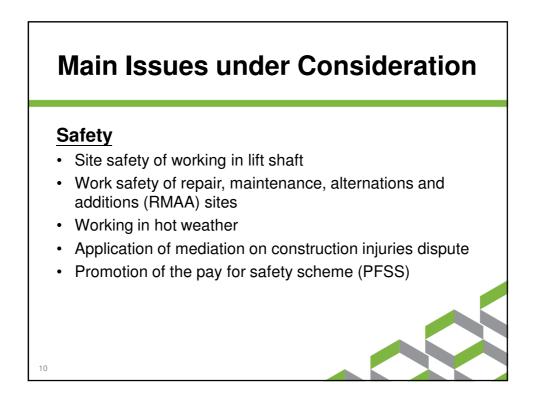


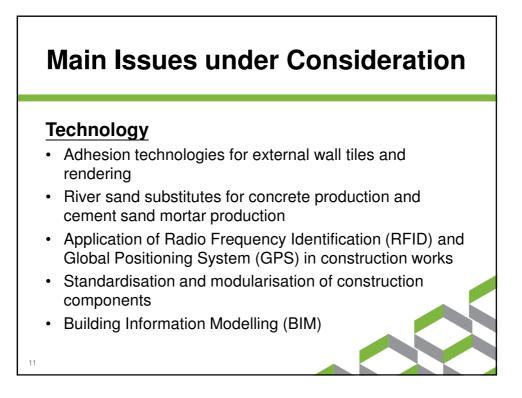


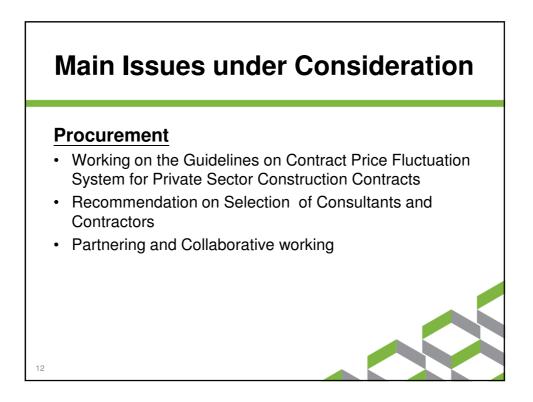


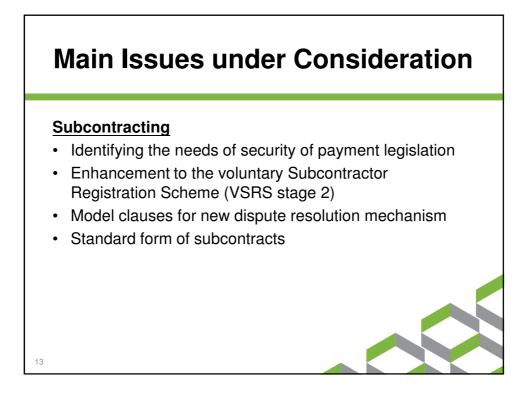


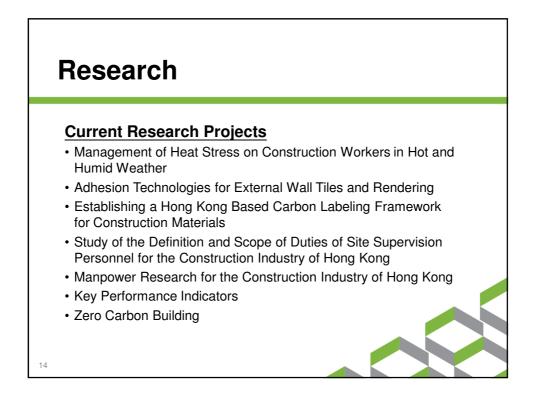














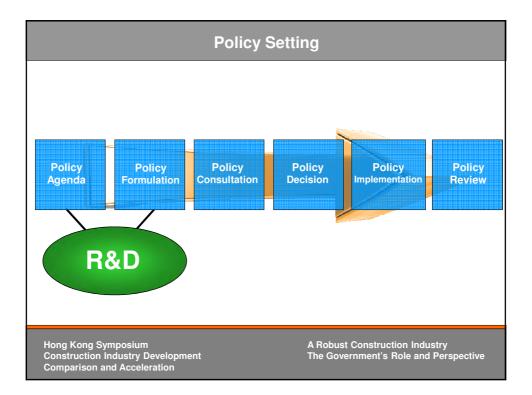


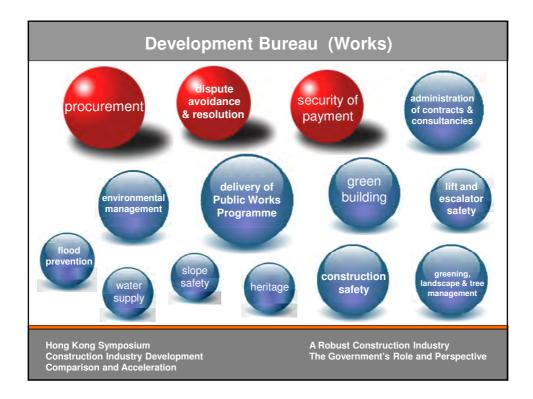
A Robust Construction Industry–The Government's Role and Perspective Ir Enoch T.S. Lam, JP Deputy Secretary (Works), Development Bureau, HK

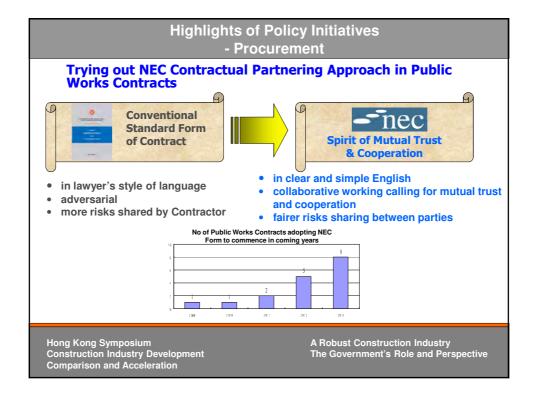


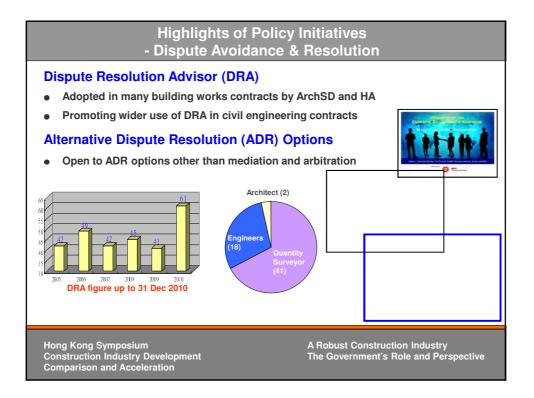




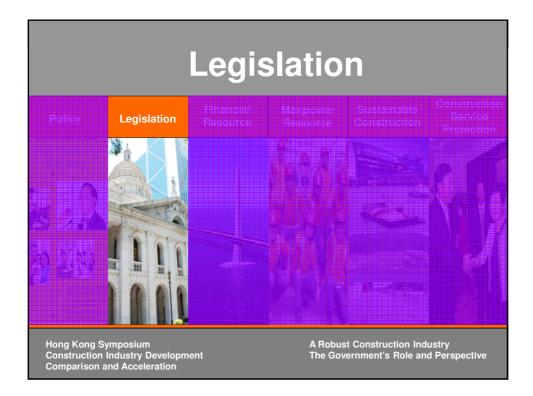




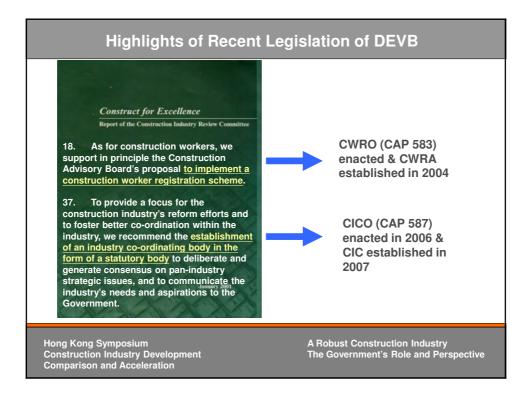


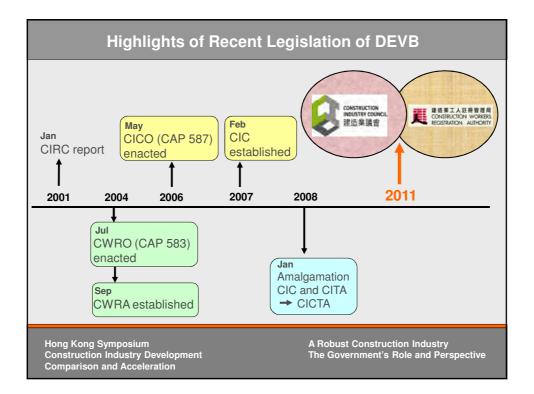


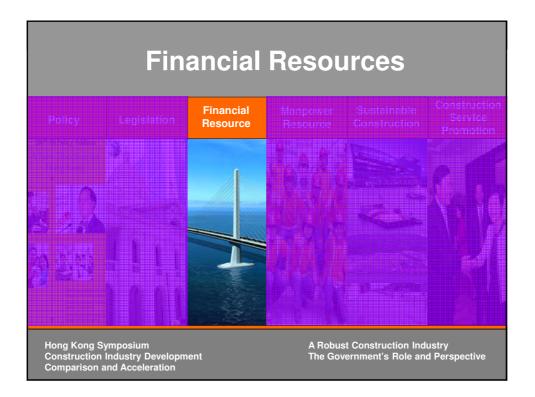
Highlights of Policy Initiatives - Security of Payment			
Carry out Industry-wide Survey on Payment Practice of Construction Industry			
To ascertain magnitude of payment problems			
<ul> <li>To seek views on measures to improve Security of Payment in construction industry</li> </ul>	COLOR D		
Overseas Security of Payment Legislation (United Kingdom, Australia, Singapore & New Zealand)			
Rights to progress payments			
Rights to adjudication			
Prohibit "pay if paid" and "pay when paid" terms			
Rights to suspend work in the event of non-paym	ent		
Hong Kong Symposium Construction Industry Development Comparison and Acceleration	A Robust Construction Industry The Government's Role and Perspective		

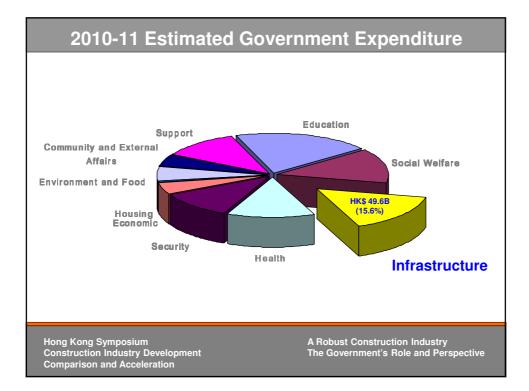


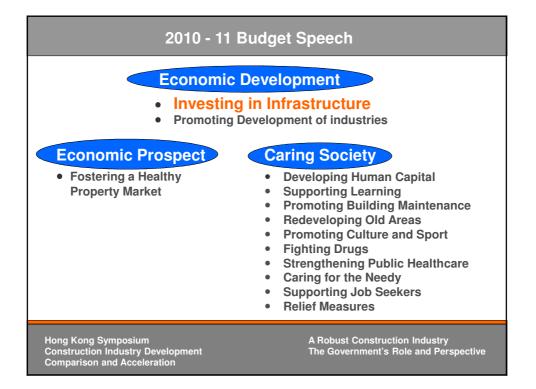


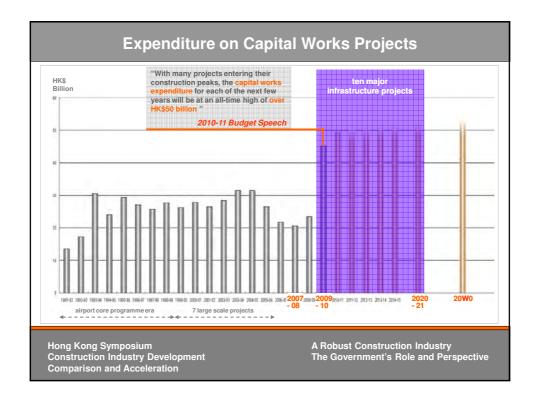


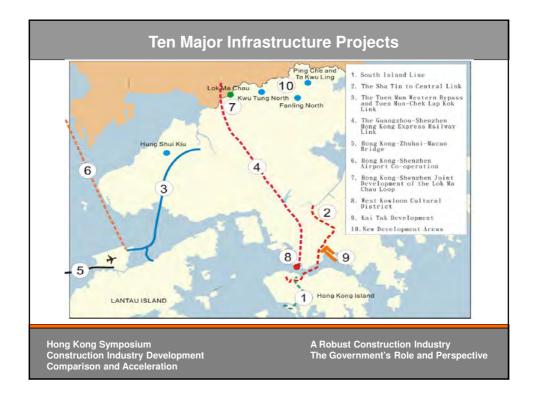


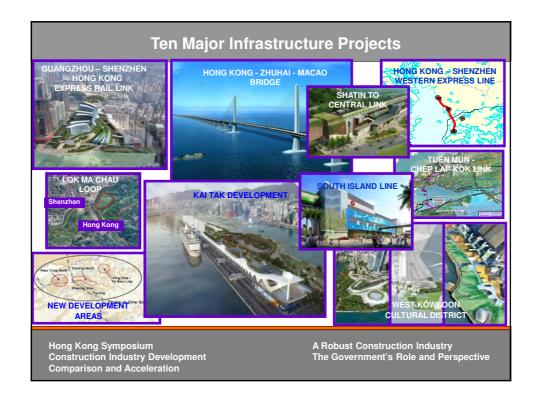




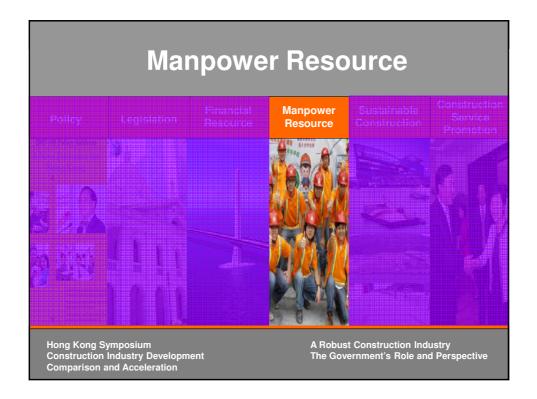


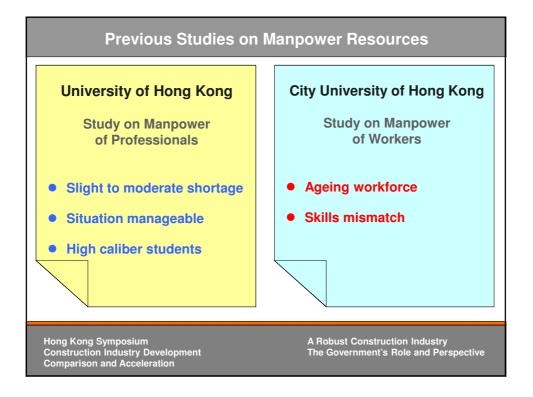


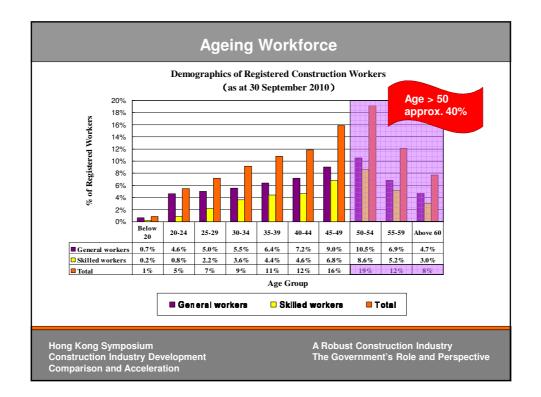


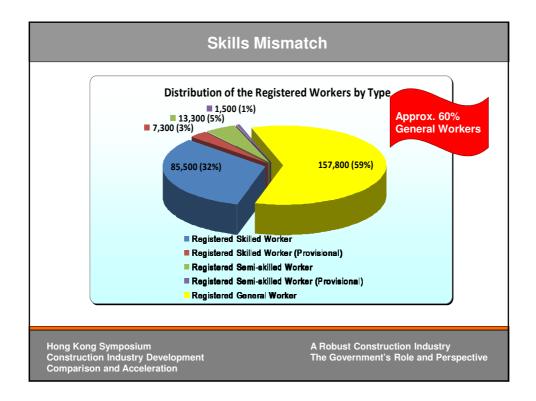


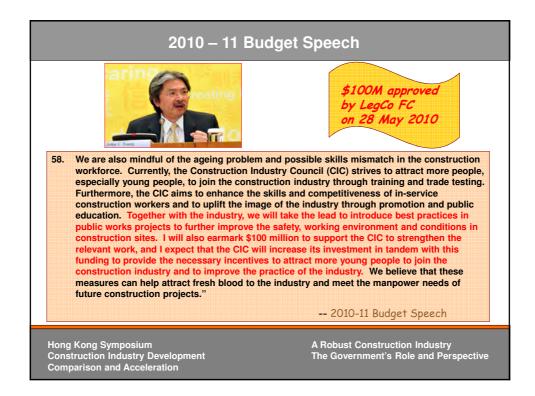


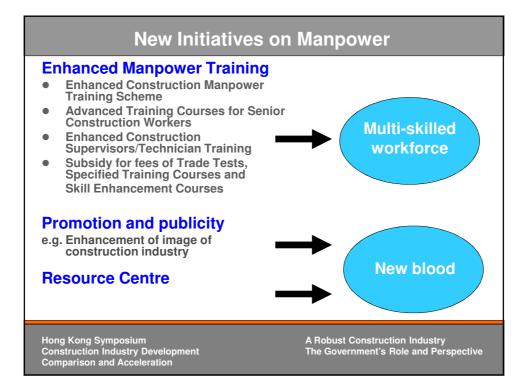






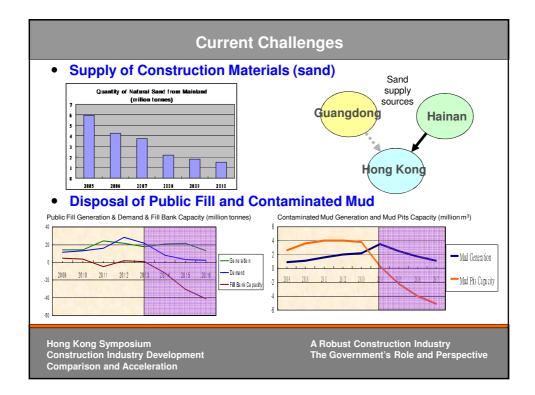




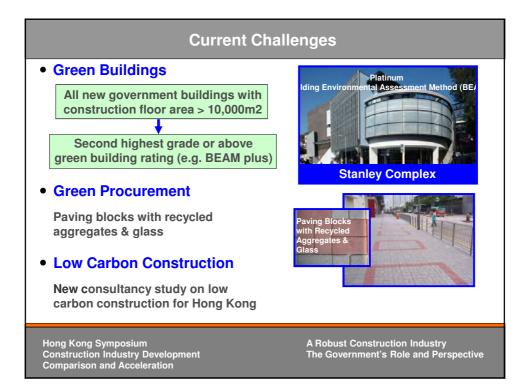








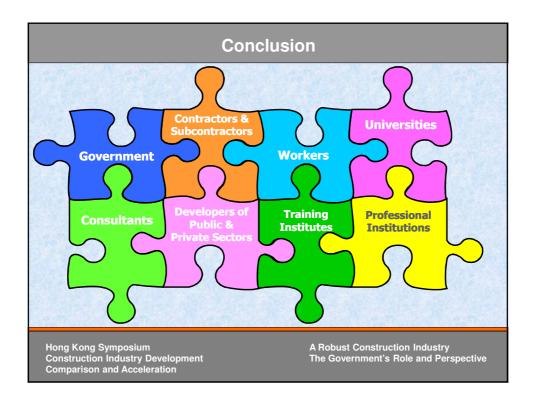
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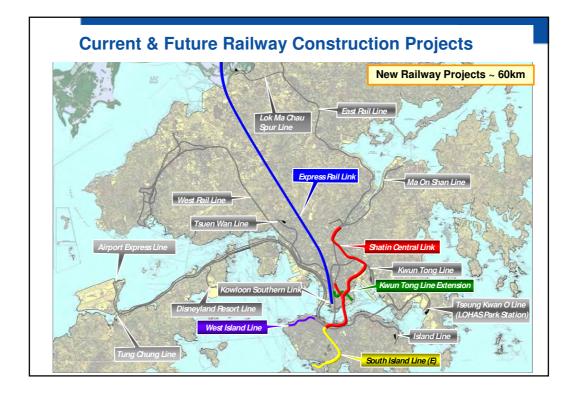




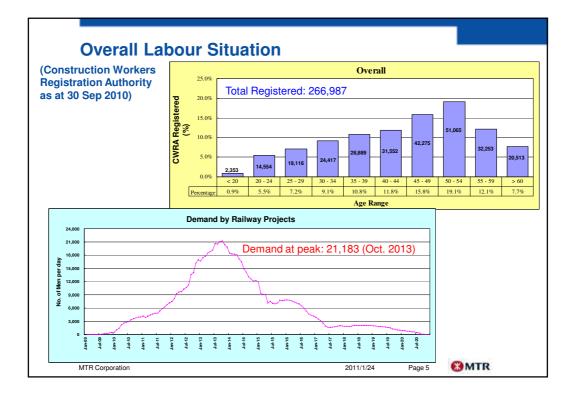
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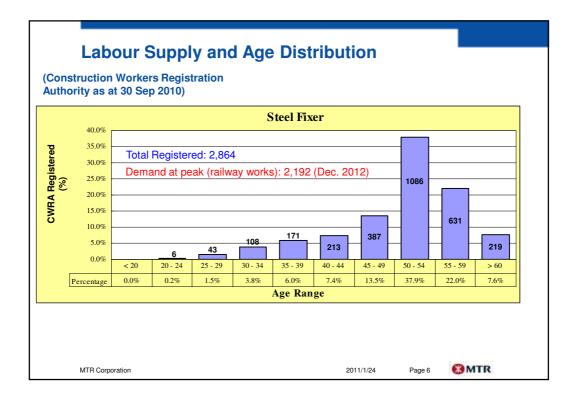




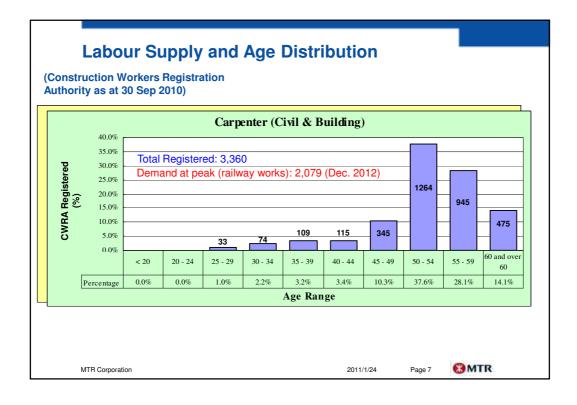


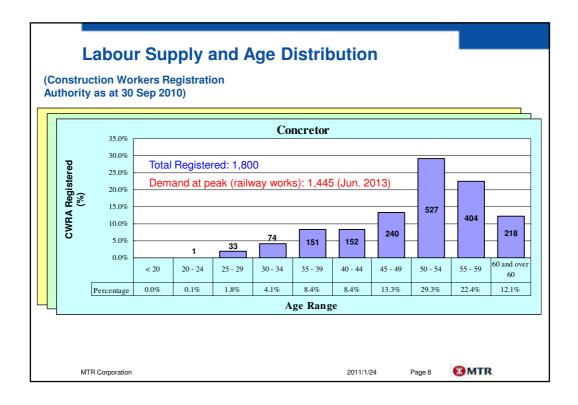


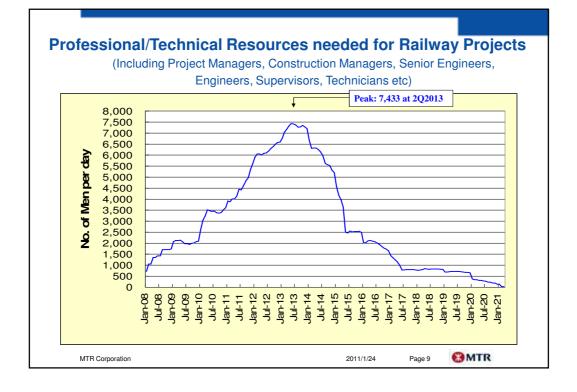


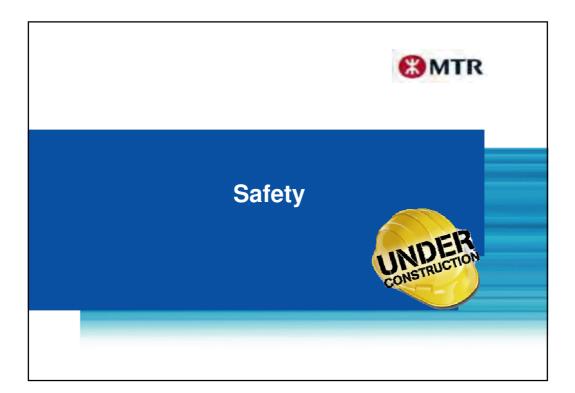


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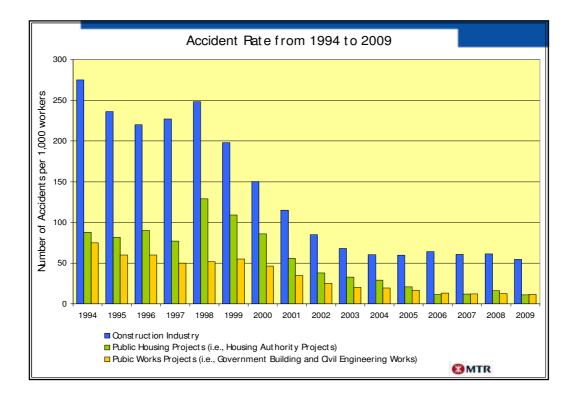


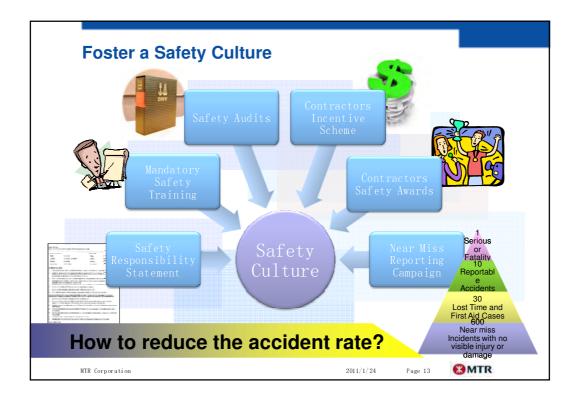




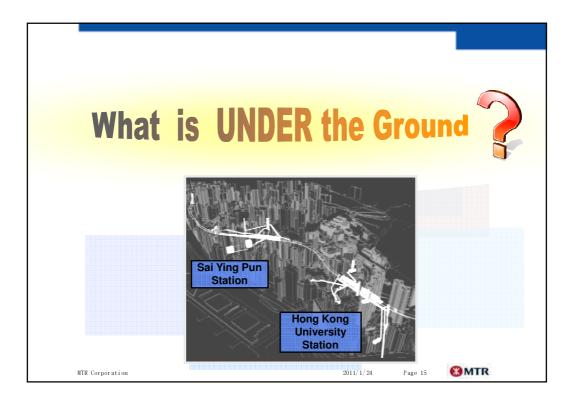




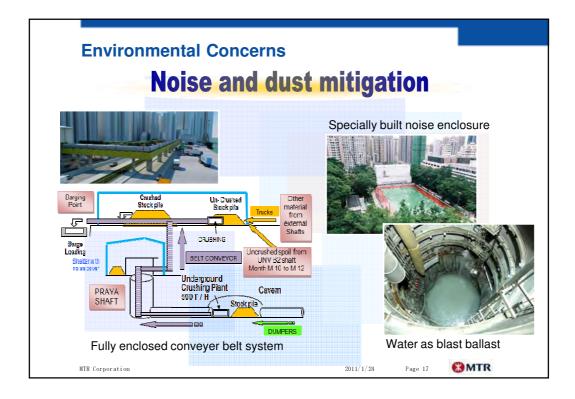






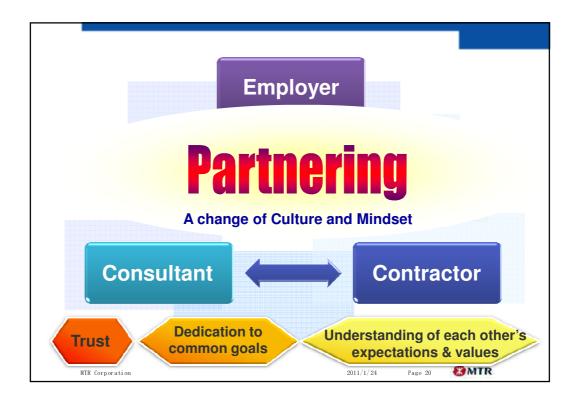


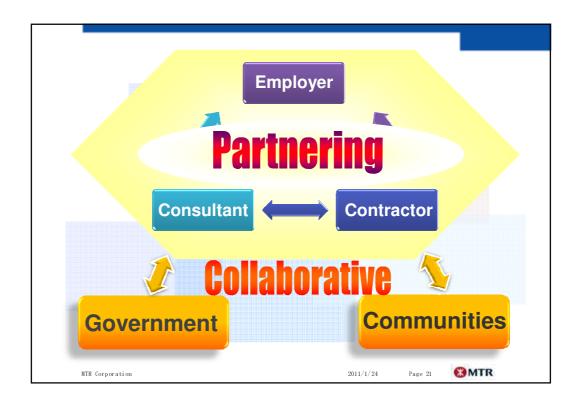






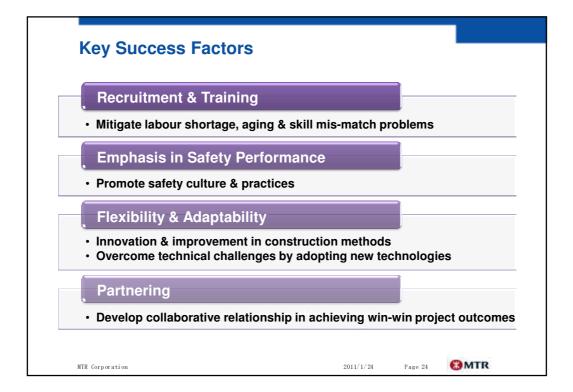
















Free Market and Construction Industry Development

Ir Billy Wong Wing-hoo, JP General Manager, Henderson Land Development Co. Ltd., HK

# Free Market & Construction Industry Development

## **Definition**

An Economic System in which prices and wages are determined by unrestricted competition between businesses, without government regulation or fear of monopolies.











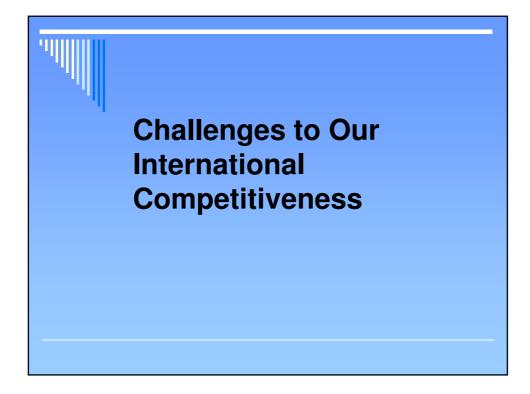












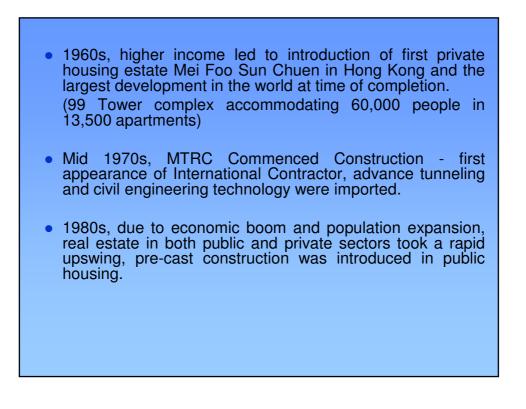


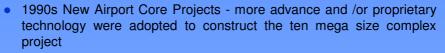




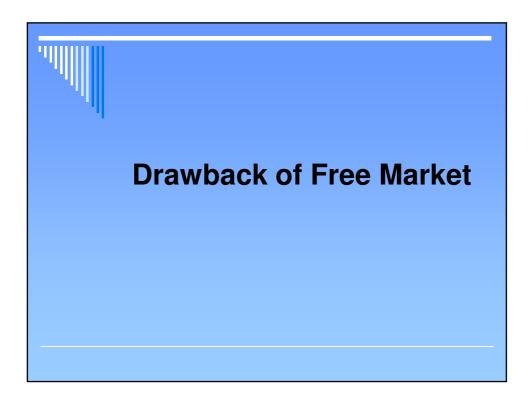
## Technology Transfer

- Late 1940s, skills and capital brought in by immigrants from Mainland China, especially from Shanghai to HK.
- Many foreign firms and shanghai Construction Company (Paul Y, Hsin Chong, Sun Fook Kong, John Lok, Ngo Kee etc.) relocated their offices from Shanghai to Hong Kong. The Shanghai construction companies brought in advanced construction technology contributing to a rapid growth in Hong Kong construction industry.
- 1950s, Shek Kip Mei Multi-storey reinforced concrete buildings Resettlement Estate were built after the big fire of squatter settlement marked
  - the commencement of Government's mammoth public housing program
  - the beginning of the high rise buildings.

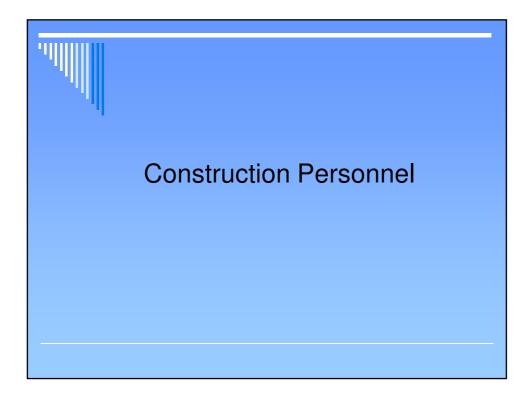




- such as the construction of the Tsing Ma 6 lanes double deck suspension bridge and Ma Wan 6 lanes double deck cablestayed bridge serving vehicles and the Airport Express Rail.
- Hong Kong benefit from foreign imported capital and instant construction technology/techniques.
- Lead to fast grow and development of construction industry.
- Opportunity to upgrade its construction management system, safety & quality management system to international standard.
- Hong Kong is now exporting construction services to other places such as Mainland China, Macau, Middle East etc.



- Some HK Companies may not be able to have a share during the booming period but could suffer from high cost of inflation.
- Free market is market driven that runs on supply and demand and cannot be planned in advance, when demand are small in the free market, the construction industry will suffer tremendously like a few years ago.



- Closed Labour Market
- 1970s 1990s
   Construction Industry relied on influx of new immigrants from Mainland China.
- The New Airport Core Projects and 85,000 units had geared up HK construction industry of maximum output in later 1990s.
- Winding down of New Airport Core Projects, 911 terrorist attach follow by SARS and Bird Flu Pandemic in early 2000s, HK construction market shrunk considerably resulting in huge unemployment rate in construction industry.
- Skilled workers left the industry for other service sector jobs.

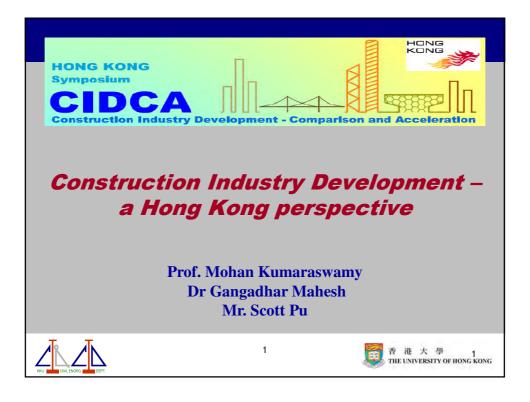
- Without new comer, aging of existing workers will further worsen the imbalance of supply & demand of construction workers for the already started 10 large scale infrastructure projects.
- Lack of construction workers in next few years will lead to
  - higher construction cost
  - longer construction programme
- The HK government has reserved HK\$100 million in government's budget for training of construction workers and collaborating with Construction Industry Council (CIC) and the industry in implementing various training schemes and programs in meeting the imminent labour shortage issue.

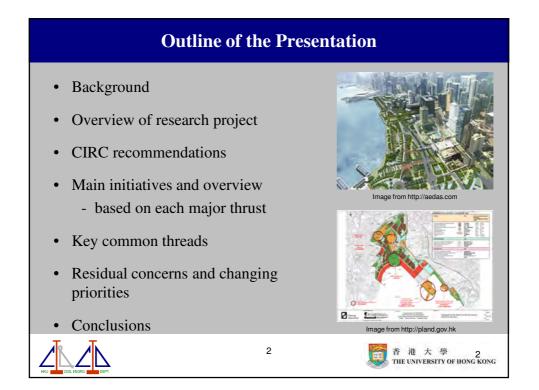
### Conclusion

- Consistently rated the world's freest market by the Heritage Foundation and Fraser Institute of Canada.
- Hong Kong is more liberalized in construction field than other neighboring countries.
- Foreign contractors subject to the same set of laws, rules and regulations as local contractors.
- Hong Kong continue traditional openness to trade and foreign investment after return sovereignty to Mainland China.
- Hong Kong enjoys economic growth and rapid construction technology advancement under the free market.

**Construction Industry Development - a Hong Kong perspective** 

Prof. Mohan Kumaraswamy The University of Hong Kong, HK



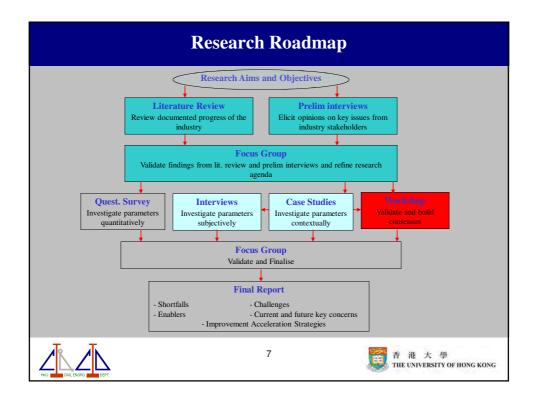


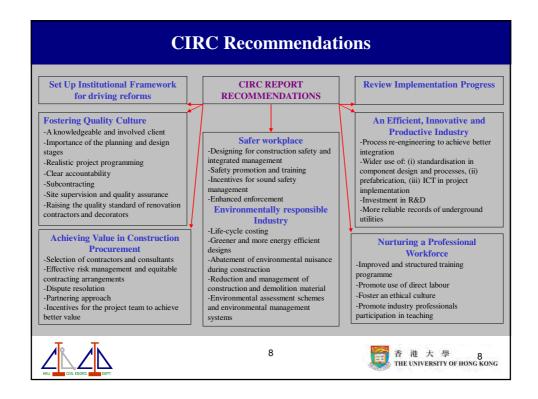


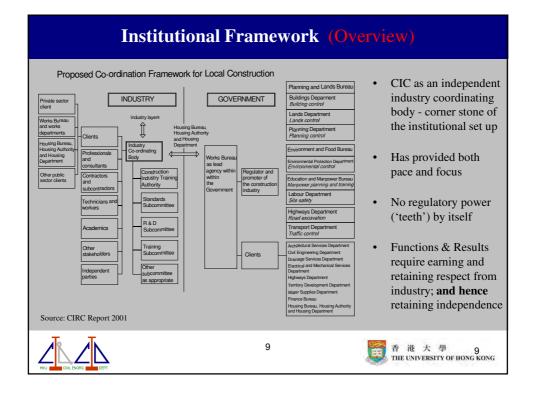


<b>Research Overview</b>				
Aim:				
•	Independent assessment of <b>Industry Improvement trajectories</b> - following (but not limited to) CIRC recommendations			
Overall Objectives summary:				
•	<ul> <li>To evaluate effectiveness of industry improvement programmes against original objectives</li> <li>while allowing for (i) inherent industry development trends that may have continued without reform inputs and (ii) changing aspirations, priorities and concerns</li> </ul>			
•	<ul> <li>To unravel reasons for any perceived shortfalls in above implementation and unearth any root causes</li> <li>with particular reference to relevant public agencies <i>and</i> private organisations</li> </ul>			
•	• To learn lessons - to help to improve future industry development agendas and re-align current development trajectories			
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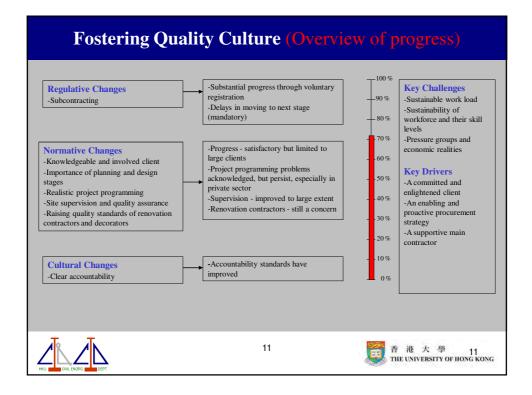
Research Philosophy				
• Industry development initiatives depend on stakeholder institutions for implementation				
• Institutional behaviour is influenced by prevalent (1) regulative framework, (2) industry norms and (3) culture - Three Pillars of Institutional Theory				
• Industry development initiatives should trigger changes in above three 'pillars' to influence desired institutional behaviour				
• Regulation is (in this context) usually a last resort and the aim of the regulation should be to shape the industry norms and culture appropriately				
Desi vironme, Foster and agate De, Results				
Regulative Framework         Industry norms         Industry Culture				
Industry Development Initiatives				
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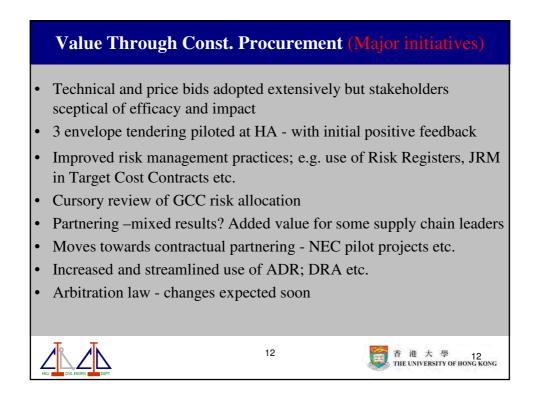


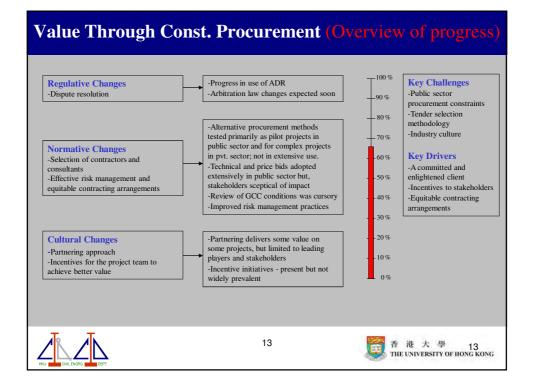


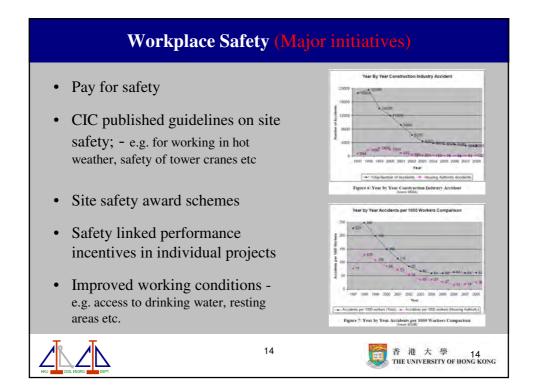




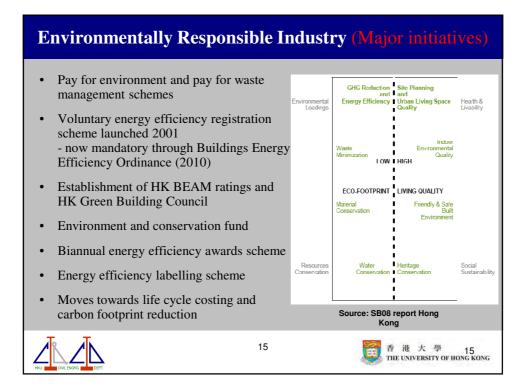


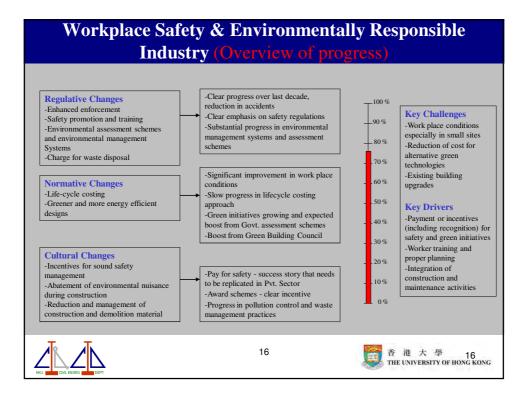




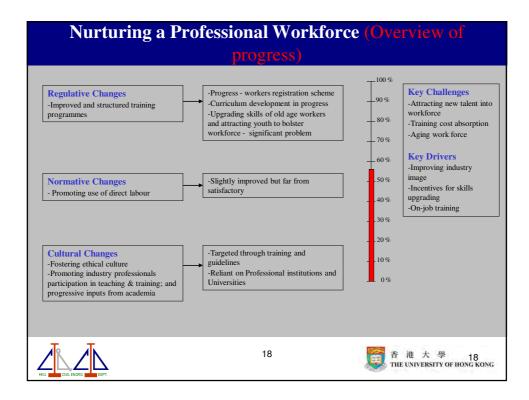


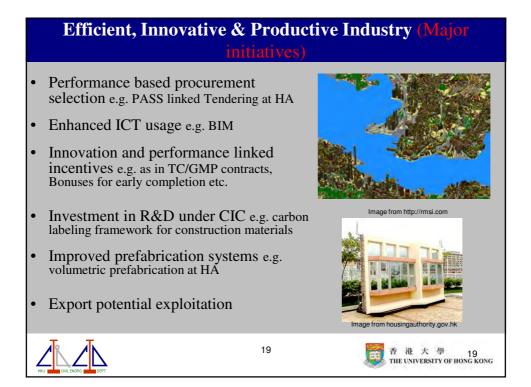
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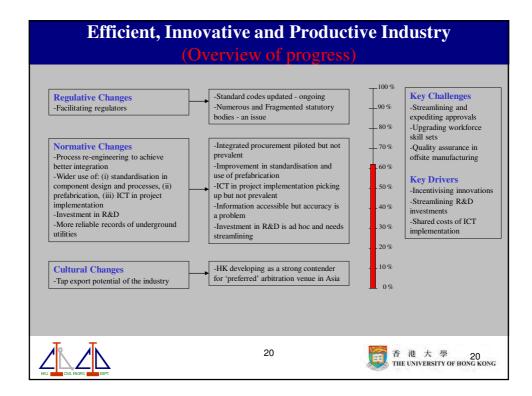


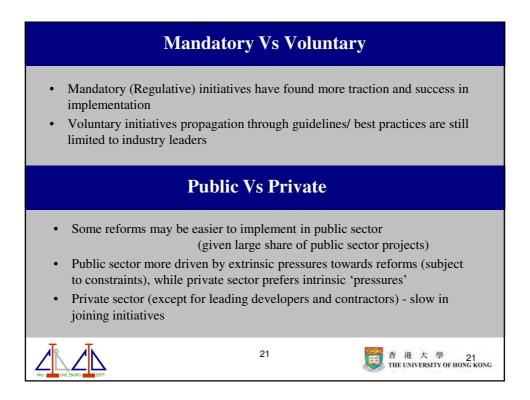


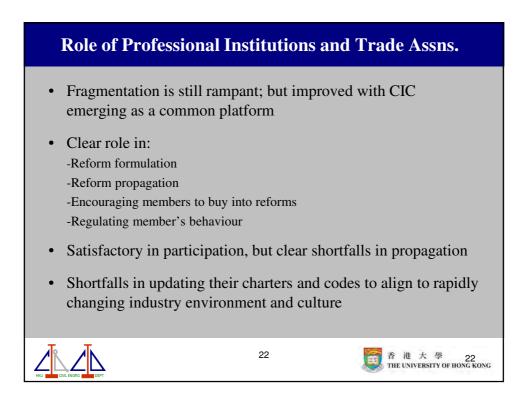








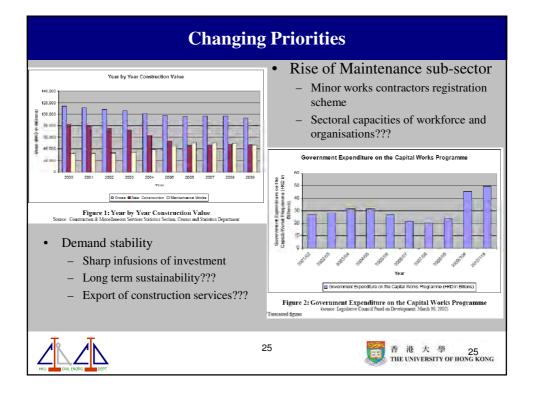


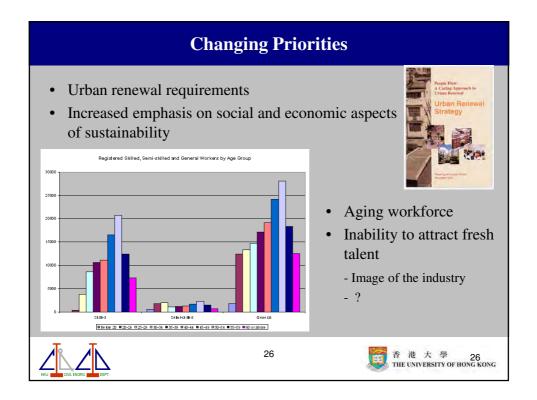




Residual Concerns				
• Failure to cross-pollinate industry improvement initiatives across public to private sector and vice-versa				
<ul> <li>Lukewarm response to improvement initiatives which are voluntary</li> </ul>				
• Inertia/ difficulties in improving industry norms and culture; hence <b>over reliance</b> on regulatory changes				
• Inequitable risk allocation practices				
Inadequate workforce training provisions				
• Difficulties in improving image of the construction industry				
• Payment security				
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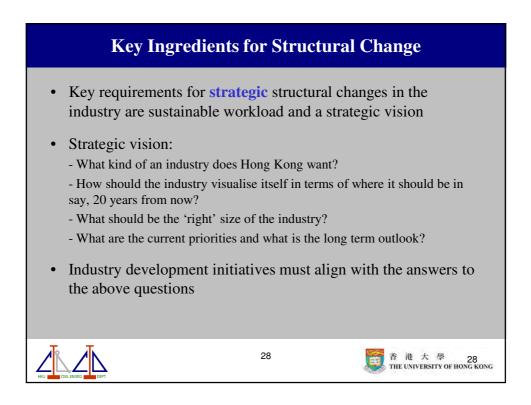


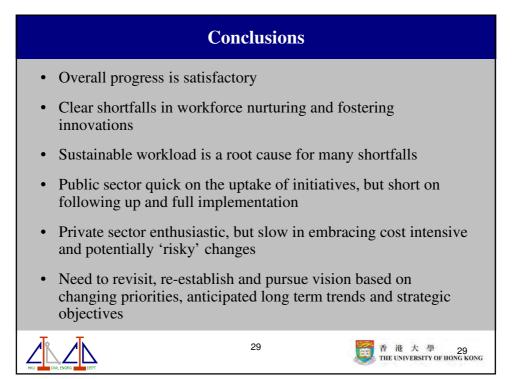


## **Key Concerns and Issues**

- Sustainable workload
- Improved image of the industry
- Attracting new entrants to work force and upgrading skill sets of existing workforce
- Protecting local industry
- Payment security
- Speedy dispute resolution (Amendments to arbitration clause)
- Regulating renovation contractors
- Sustaining alternative procurement initiatives
- Promoting cross pollination of industry improvement initiatives









Developing the Construction Industry in Singapore Prof. George Ofori National University of Singapore, Singapore

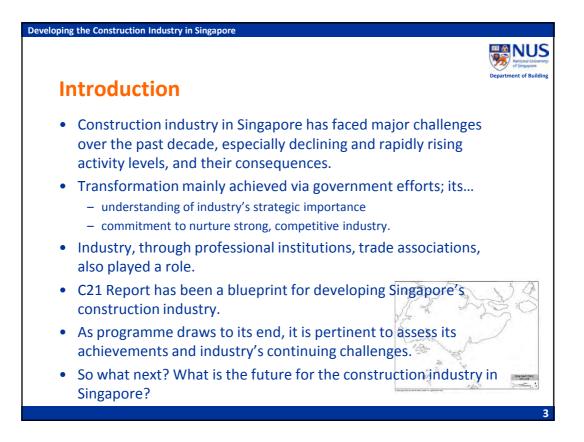


## DEVELOPING THE CONSTRUCTION INDUSTRY IN SINGAPORE



Professor George Ofori Dr Evelyn Teo Dr Imelda Tjandra







<b>Overview of the Research</b> A Decade of Change and Improvement? Construction Industry Development Programmes in Hong Kong, Singapore and United Kingdom			Department of Bu
	Vision	Strategic Thrusts	Time Frame
UK Egan Report 1998	"A modern construction industry (the need for a new way of working, such as lean production, standardisation, partnering)" "Adoption of the model of performance improvement that other industries have followed with such success"	Five key drivers of change: 1. Committed leadership. 2. A focus on the customer. 3. Integrated processes and teams. 4. A quality driven agenda. 5. A commitment to people.	10 years
Singapore Construction 21 1999	"To be a world class builder in the knowledge age"	<ol> <li>Enhancing professionalism of industry.</li> <li>Raising the skills level.</li> <li>Improving industry practices and techniques.</li> <li>Adopting an integrated approach to construction.</li> <li>Developing an external wing.</li> <li>Collective championing effort for construction industry.</li> </ol>	5-10 years
Hong Kong Construct for Excellence 2001	"An integrated construction industry that is capable of continuous improvement towards excellence in a market-driven environment"	<ol> <li>Fostering a quality culture.</li> <li>Achieving value in construction procurement.</li> <li>Nurturing professional workforce.</li> <li>Developing an efficient, innovative, productive industry.</li> <li>Improving safety and environmental performance.</li> <li>Devising a new institutional framework to drive the industry.</li> <li>Implementation of a change programme for industry.</li> </ol>	2-5 years

## Developing the Construction Industry in Singapore

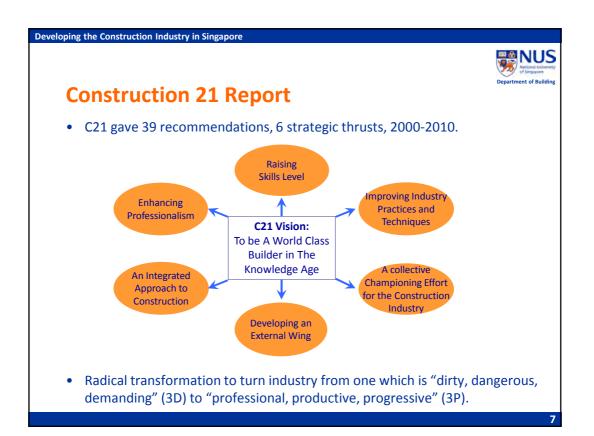
**Overview of the Research** 

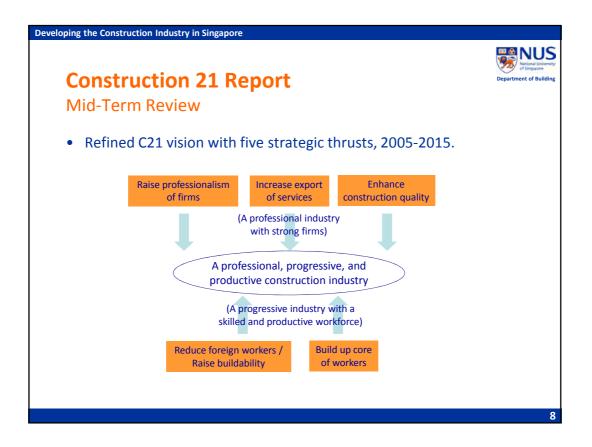


A Decade of Change and Improvement? Construction Industry Development Programmes in Hong Kong, Singapore and United Kingdom

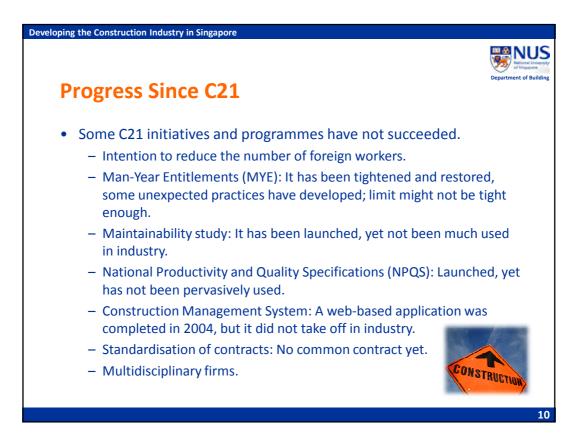
- Worthwhile to compare implementation of change programme in Singapore with those in Hong Kong and UK which had a common aspiration.
- The 3 jurisdictions have common industry structure, practices, thus, useful to...
  - ascertain how (differently?) each has developed.
  - paint a scenario with possible "meeting points" which can be drawn upon.
  - consider possible common lessons.





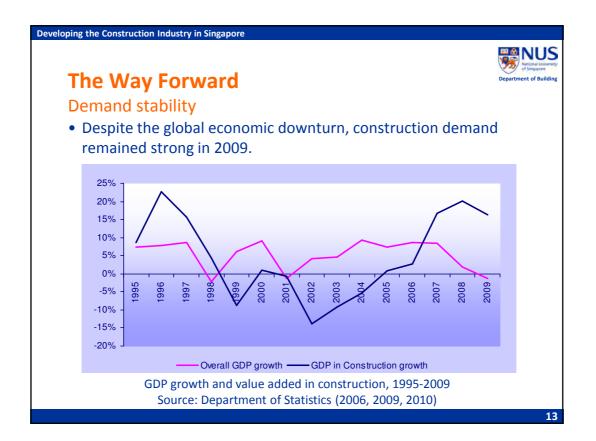




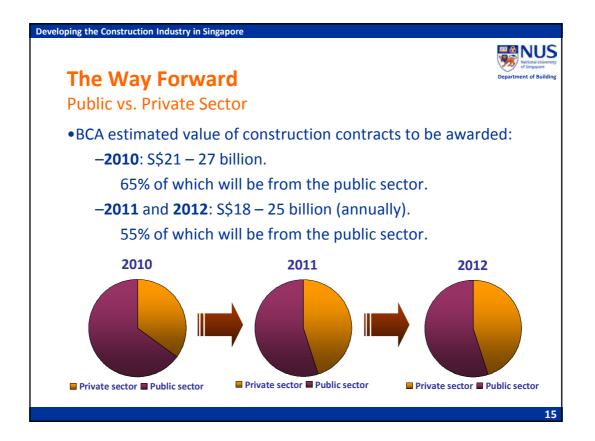












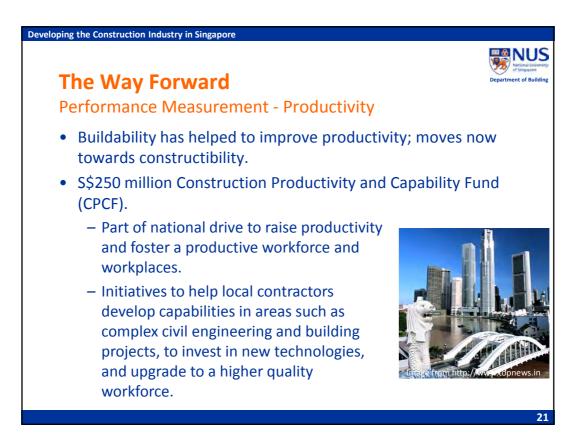


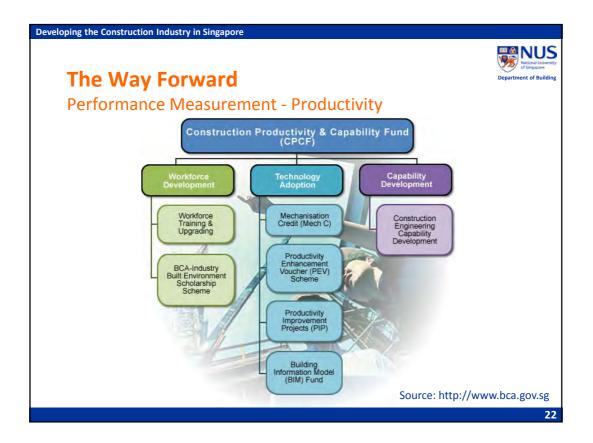


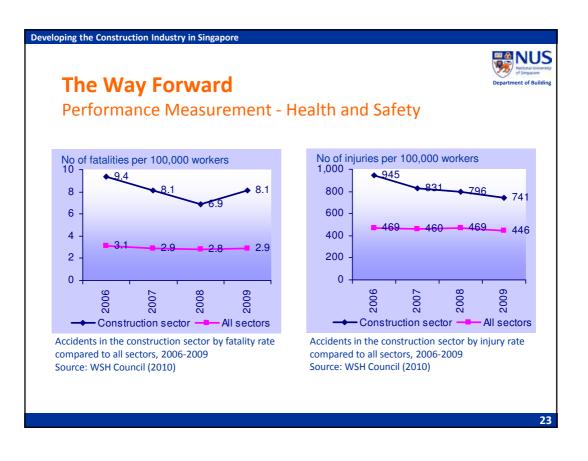


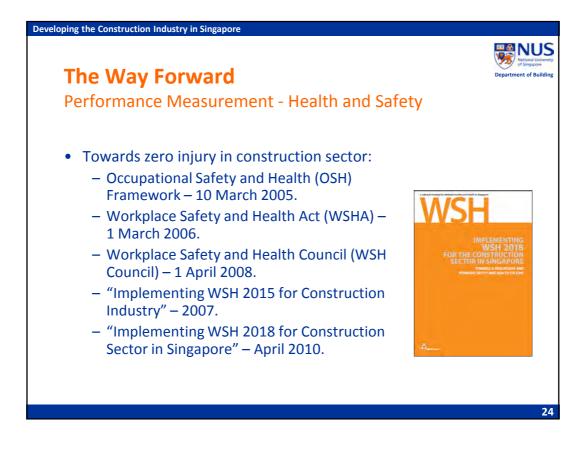




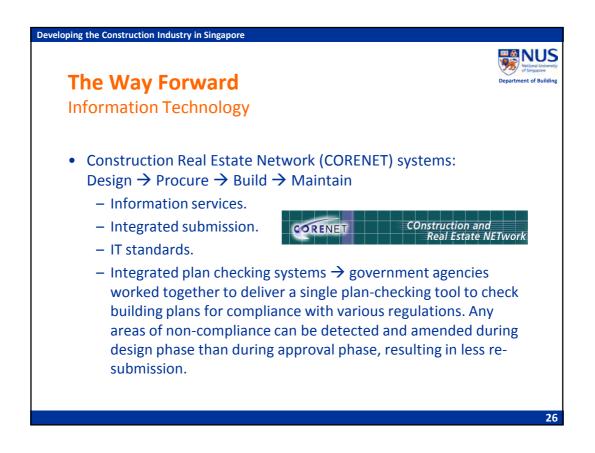


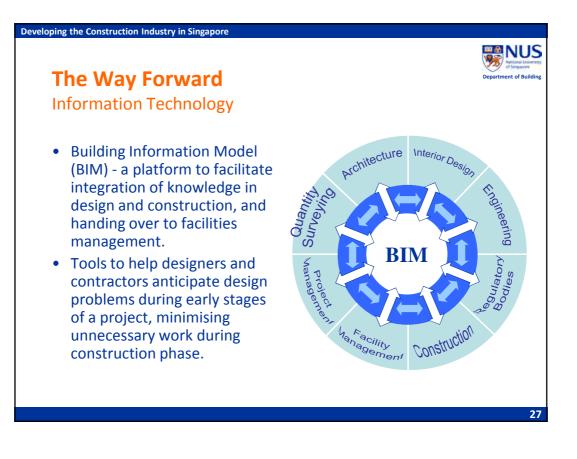


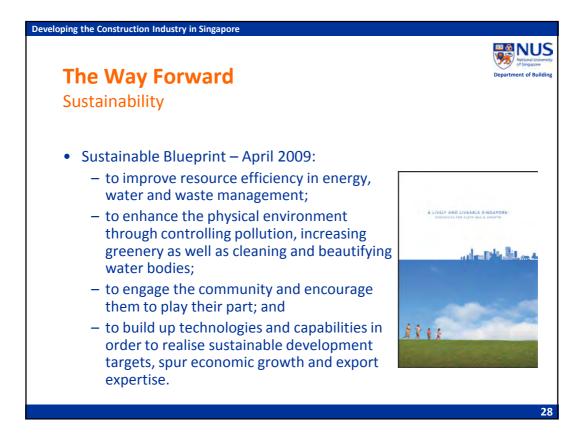
























## **Construction Sector Reform in the UK**

Prof. Stuart Green University of Reading, UK



