

18th Asia Construct Conference
Marina Bay Sands
Singapore
10-11 October 2012



18th Asia Construct Conference

Sustainable Practices In Construction

**INITIATIVES TOWARDS SUSTAINABLE CONSTRUCTION
PRACTICES: MALAYSIA'S PERSPECTIVE**

DR. GERALD SUNDARAJ

Senior Manager

Safety, Health, Environment & Quality Division

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Presentation Outline



- Snapshot of the Malaysian Economy
- Policy Initiatives
- Sustainable construction practices
- GreenPASS
- SHASSIC & QLASSIC
- IBS Roadmap
- Conclusions

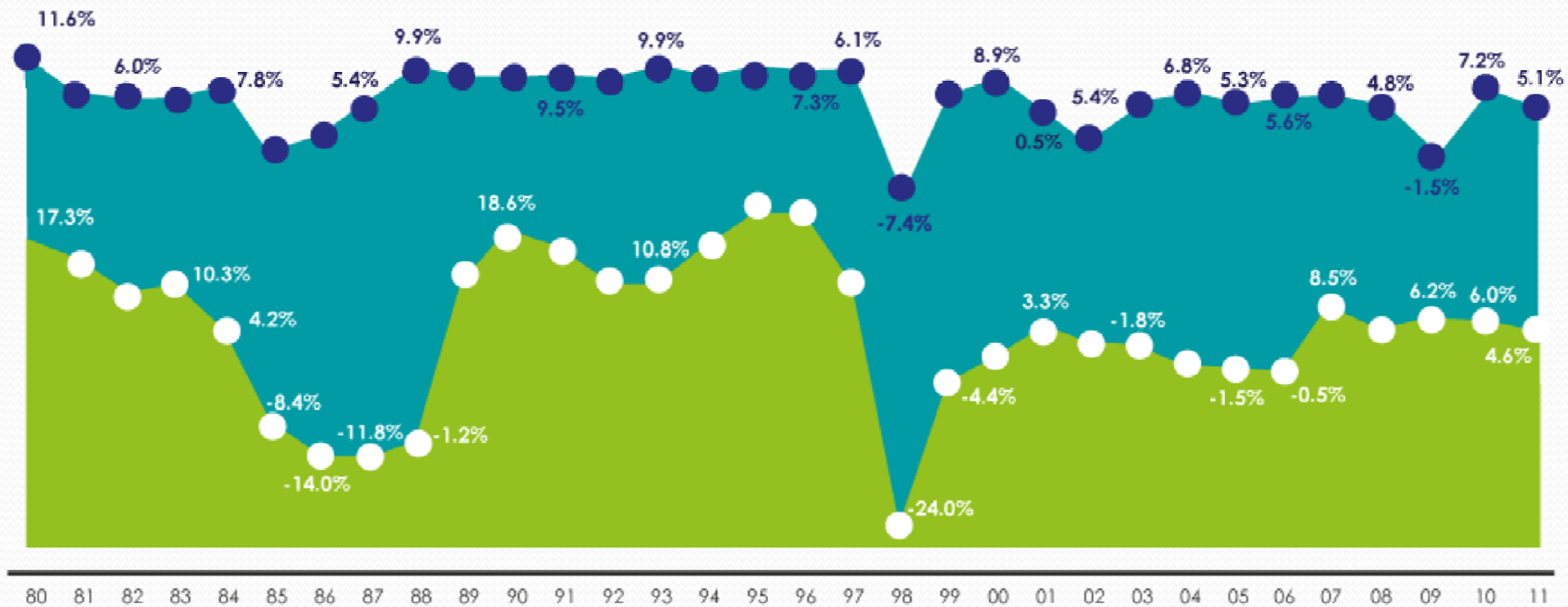


Snapshot of the Malaysian Economy



- Overall GDP
- Construction Sector GDP

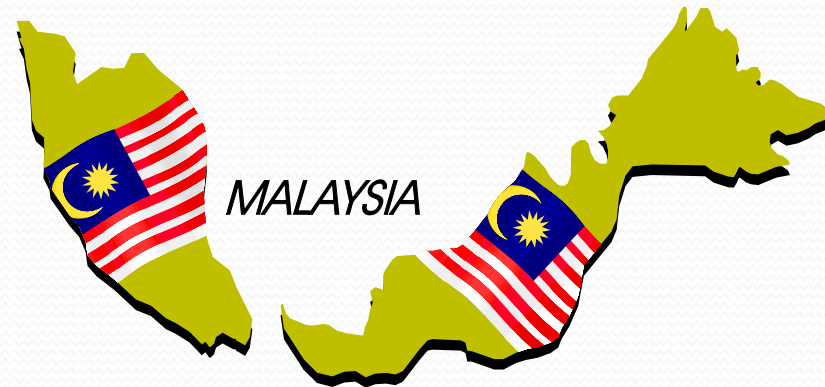
GDP Growth 2006 - Q2 2012								
	2006	2007	2008	2009	2010	2011	Q1 2012	Q2 2012
Overall GDP	5.6%	6.3%	4.8%	-1.5%	7.2%	5.1%	4.7%	5.4%
Construction Sector GDP	-0.5%	8.5%	4.4%	4.2%	6.0%	4.6%	15.5%	22.2%



Snapshot of the Malaysian Economy



- 2011: 5.1%: 4.6%
- 2012
 - Q1: 4.7%: 15.5%
 - Q2: 5.5%: 22.2%
- Domestic consumption
 - Strong dependency
 - Main economic growth

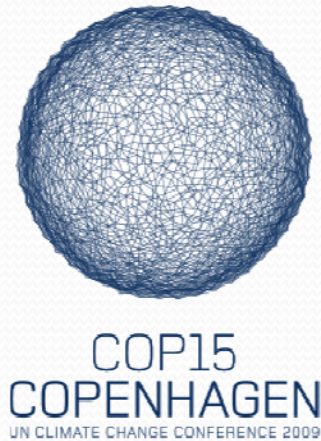


Policy Initiatives

- International Level
 - Rio Declaration on Environment & Development
 - Stockholm Convention
 - Montreal Protocol
 - Basel Convention
 - Rotterdam Convention
 - Kyoto Protocol
 - Cartagena Protocol
- Regional Level
 - Regional Initiatives on Environment and Health
 - United Nations Environment Program (UNEP)



Policy Initiatives



United Nations Climate Change Conference 2009, Copenhagen



Speech quotation by Datuk Seri Najib Tun Razak, Prime Minister of Malaysia:

“...Malaysia is adopting an indicator of a voluntary reduction of up to 40% in terms of emissions intensity of GDP by the year 2020 compared to 2005 levels.”

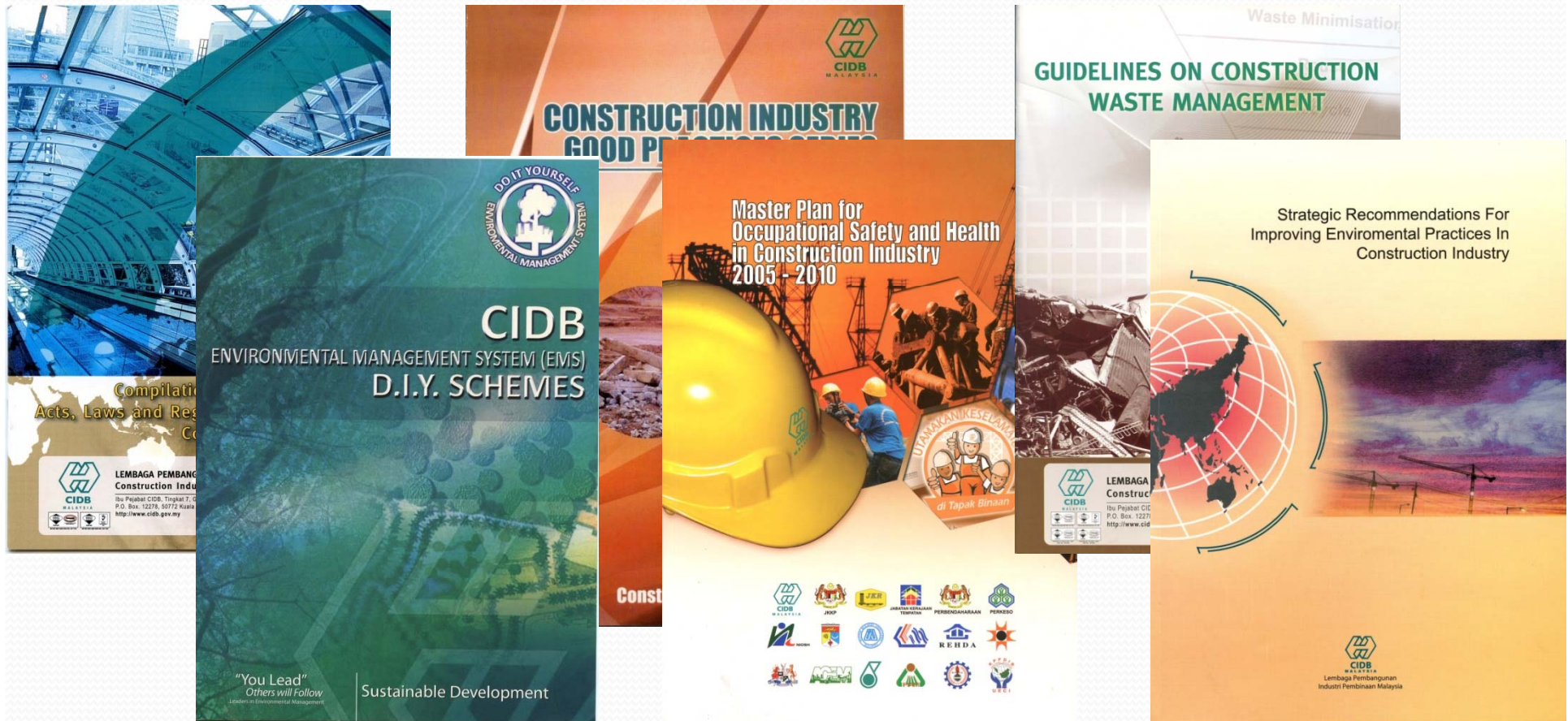
Sustainable Construction Practices

- Technical Committee on Good Environmental Practices
 - 6 Working Groups (WG)
- Research & Development Projects
 - Estimated at RM 2 Million
- Training
 - CCD
 - CPD
- Resource Centre
 - Knowledge Management



Sustainable Construction Practices

- Publications of Standards, Guidelines & Manuals

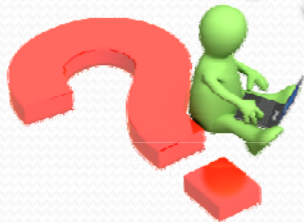


GreenPASS

- Green PASS
is a Green
Building
Rating Tool

- Green PASS estimate
the carbon emission
from building
construction works
and building
operations

The application of
Green PASS is for:
1) Building
Construction; and
2) Building
Operations

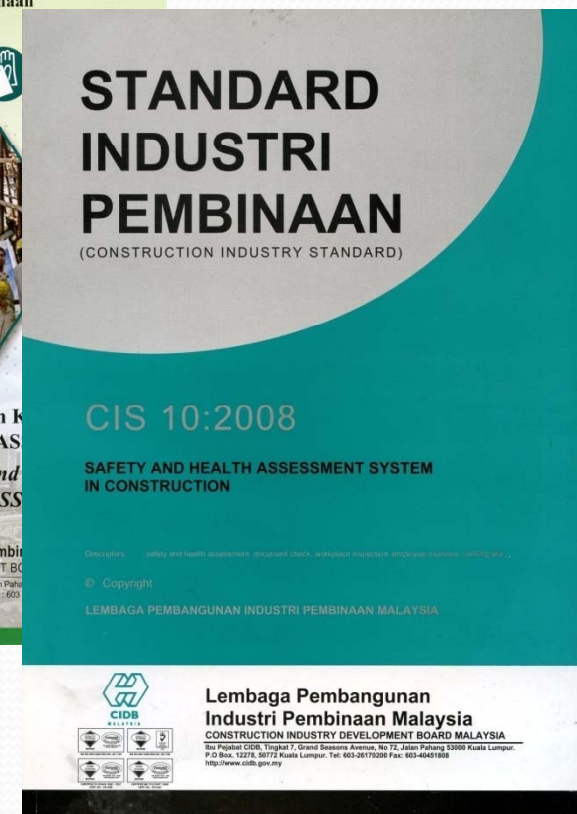
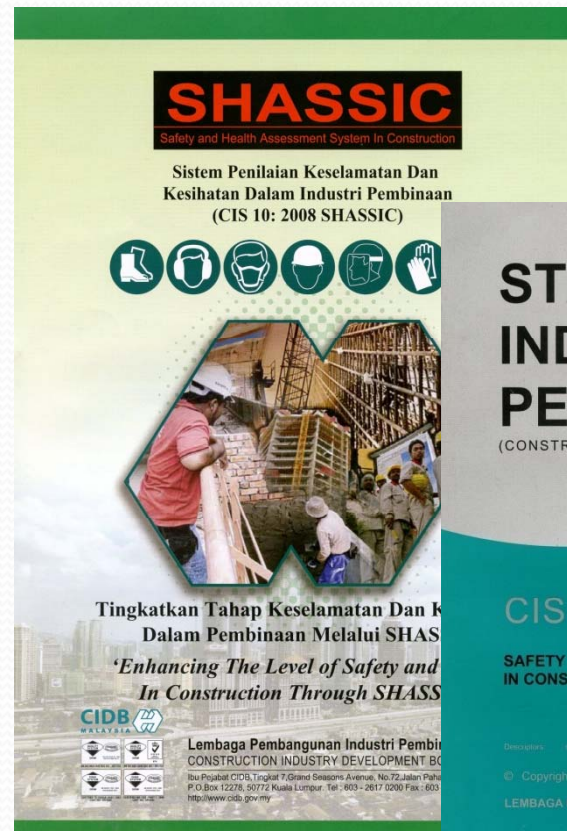
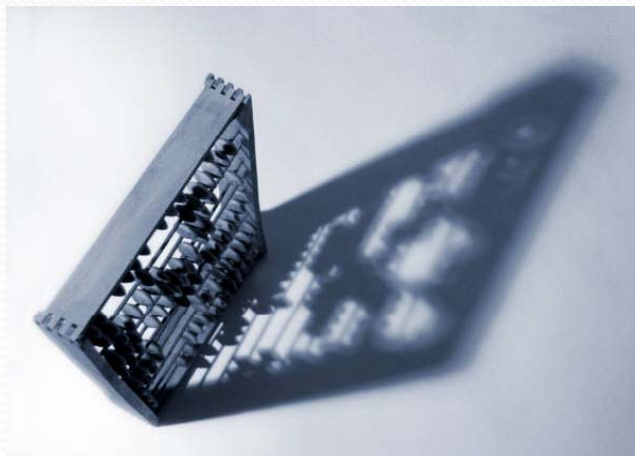


SHASSIC & QCLASSIC



- SHASSIC

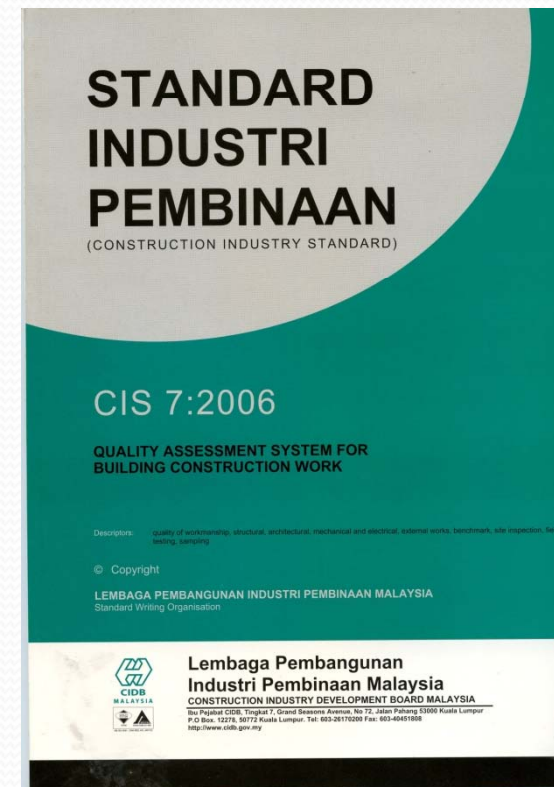
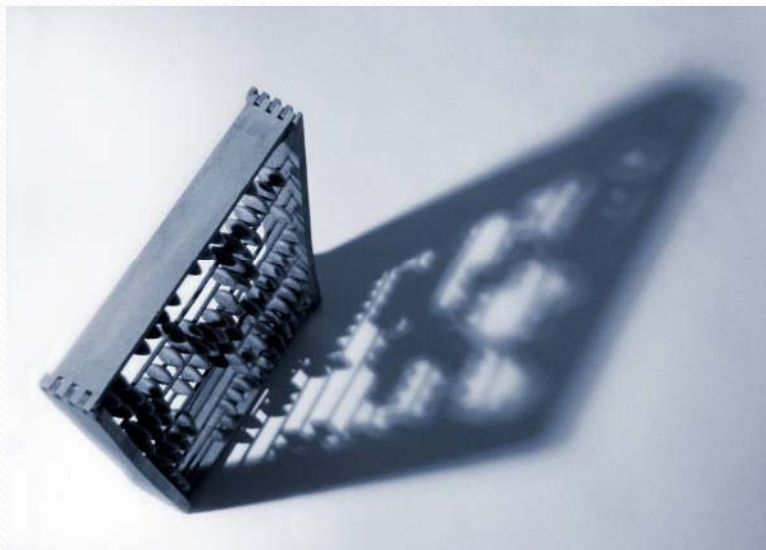
- Benchmark tool
- Standard system
- Assessment system
- Evaluate performance
- Monitoring mechanism
- Data compilation



SHASSIC & QCLASSIC



- QCLASSIC
 - Benchmarking tool
 - Standard system
 - Key Performance Indicator
 - Data compilation



IBS Roadmap 2011- 2015



- Quality
- Faster Completion Time
- Fewer Site Workers

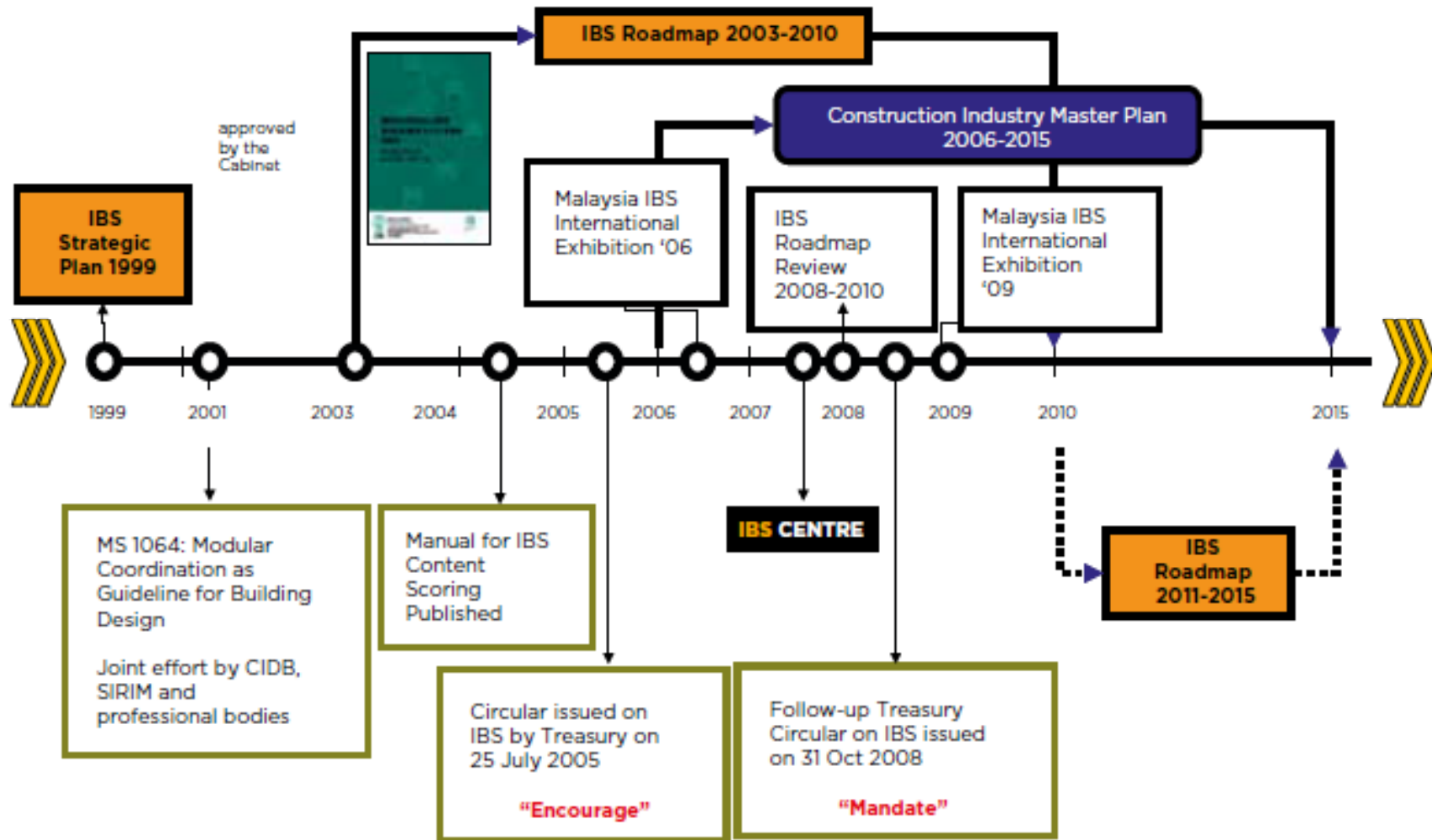


Roadmap for
Industrialised
Building
System
(IBS)
in Malaysia 2011-2015



Ministry of Works, Malaysia

IBS Roadmap 2011-2015



IBS Roadmap 2011- 2015



Figure 2.1 Public Sector Projects Using IBS Under the 9th Malaysia Plan

Analysis of Public IBS Construction Projects

	JKR	Non JKR	Total
No.of Projects	115	176	291
Value of Projects (In RM)	5,987,972,657	4,041,748,421	10,029,721,078
Average Size of Projects (In RM)	52,069,327	22,964,480	34,466,395
<i>Share of Total (by number of project)</i>	40%	60%	
<i>Share of Total (by value)</i>	60%	40%	

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Breakdown of Public IBS Projects by Ministries (by project value in RM)

Ministries	JKR	Non JKR	Total
1 Kementerian Pelajaran	51,545,185	2,373,558,449	2,425,103,634
2 Jabatan Perdana Menteri	1,552,327,472		1,552,327,472
3 Kementerian Pengajian Tinggi	1,263,816,000	66,717,400	1,330,533,400
4 Kementerian Kesihatan	1,193,760,000		1,193,760,000
5 Kementerian Perumahan & Kerajaan Tempatan		1,154,100,000	1,154,100,000
6 Kementerian Kewangan	481,520,000	20,672,572	502,192,572
7 Kementerian Kerja Raya	482,500,000	4,800,000	487,300,000
8 Kementerian Belia & Sukan	227,000,000	40,000,000	267,000,000
9 Kementerian Pembangunan Wanita Keluarga & Masyarakat	209,500,000		209,500,000
10 Kementerian Pertahanan	60,000,000	129,500,000	189,500,000
11 Kementerian Pertanian & Industri Asas Tani	57,494,000	130,900,000	188,394,000
12 Kementerian Sains Teknologi & Inovasi	128,300,000		128,300,000
13 Kementerian Wilayah Persekutuan & Kesejahteraan Bandar		121,500,000	121,500,000
14 Kementerian Sumber Manusia	116,210,000		116,210,000
15 Kementerian Pelancongan	85,000,000		85,000,000
16 Kementerian Pengangkutan	49,500,000		49,500,000
17 Kementerian Perusahaan Perladangan & Komoditi	21,500,000		21,500,000
18 Kementerian Kemajuan Luar Bandar & Wilayah	8,000,000		8,000,000
Total	5,987,972,657	4,041,748,421	10,029,721,078

RM 10b

Conclusion

- Challenging and demanding
- Role of R&D
- Mechanization
- Unlearn and Relearn
- Capacity building
- Impact of the definition **“GREEN”**



Ponder !





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**THANK YOU
TERIMA KASIH**



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