

# Statistical Usage for Fostering Innovation & Decision Making in Construction Industry

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**Persidangan Statistik Malaysia Keempat (MyStats 2016)**

*15 November 2016*

*Sasana Kijang, Bank Negara Malaysia*





**Source of Authority**



**Decision Making  
using Facts & Figures**



**CIDB's  
Data Depository**



**Moving Forward**



**Presentation  
Flow**

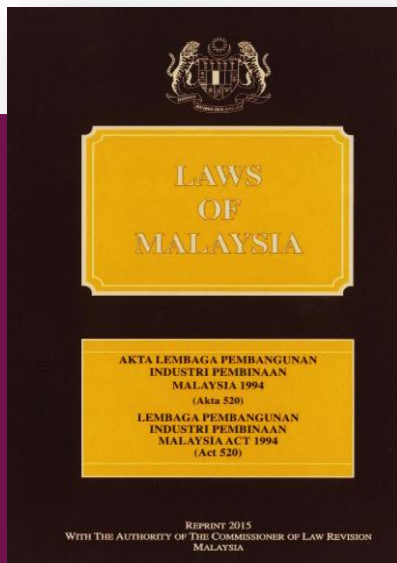
**01**

# Source of Authority



# Act 520

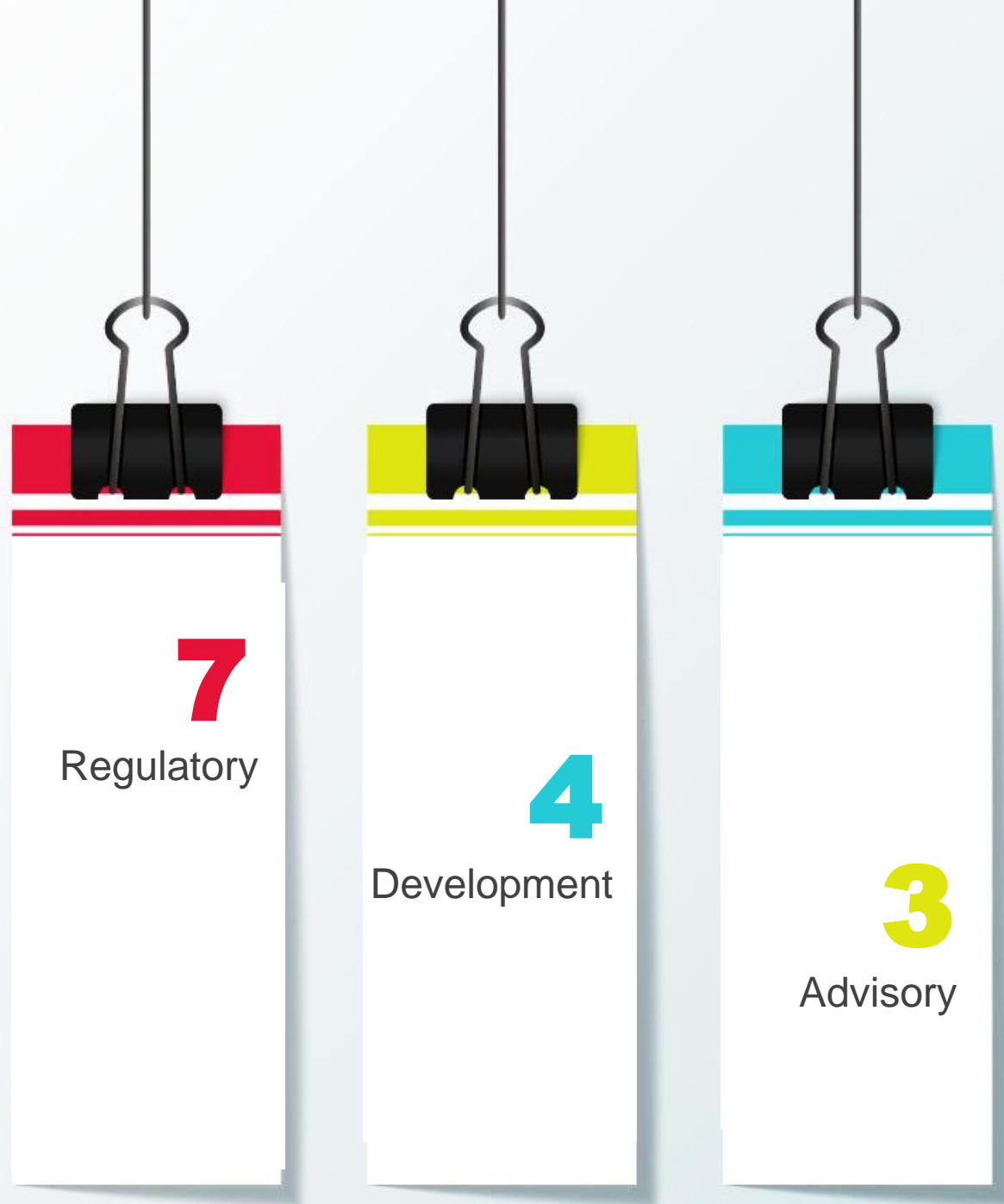
## Lembaga Pembangunan Industri Pembinaan 1994 (Amendment 2011)



CIDB Malaysia is a statutory body under the Ministry of Works, established under the Act 520 to develop and coordinate activities in the construction industry and increase its competitiveness.

# 14 CIDB's Function

Act 520  
(Amendment 2011)  
Section 4 (1)



1

To promote and encourage quality assurance in the construction industry

2

To regulate the conformance of standards for construction workmanship and materials

3

To register and accredit contractors, to impose and conditions of registration and accreditation of the contractors and revoke, suspend or reinstate the registration and accreditation

4

To register, accredit and certify construction personnel and to revoke, suspend or reinstate the registration, accreditation and certification of such construction personnel

5

To regulate the implementation of quality and safe construction works

6

To regulate the implementation of Industrialised Building System in the construction industry

7

To attend to and complaint or report made in relation to any failure of construction works or completed construction works which affects public safety and take appropriate actions to address it



Regulatory

1

To promote and stimulate the development, improvement and expansion of the construction industry

2

To promote, stimulate and undertake research into any matter relating to the construction industry

3

To promote, stimulate and assist in the export of service relating to the construction industry

4

To provide, promote, review and coordinate training in the construction industry



Development



Advisory

1

To advise and make recommendations to the Federal Government and the State Government on matters affecting or connected with the construction industry

2

To provide consultancy and advisory services with respect to the construction industry

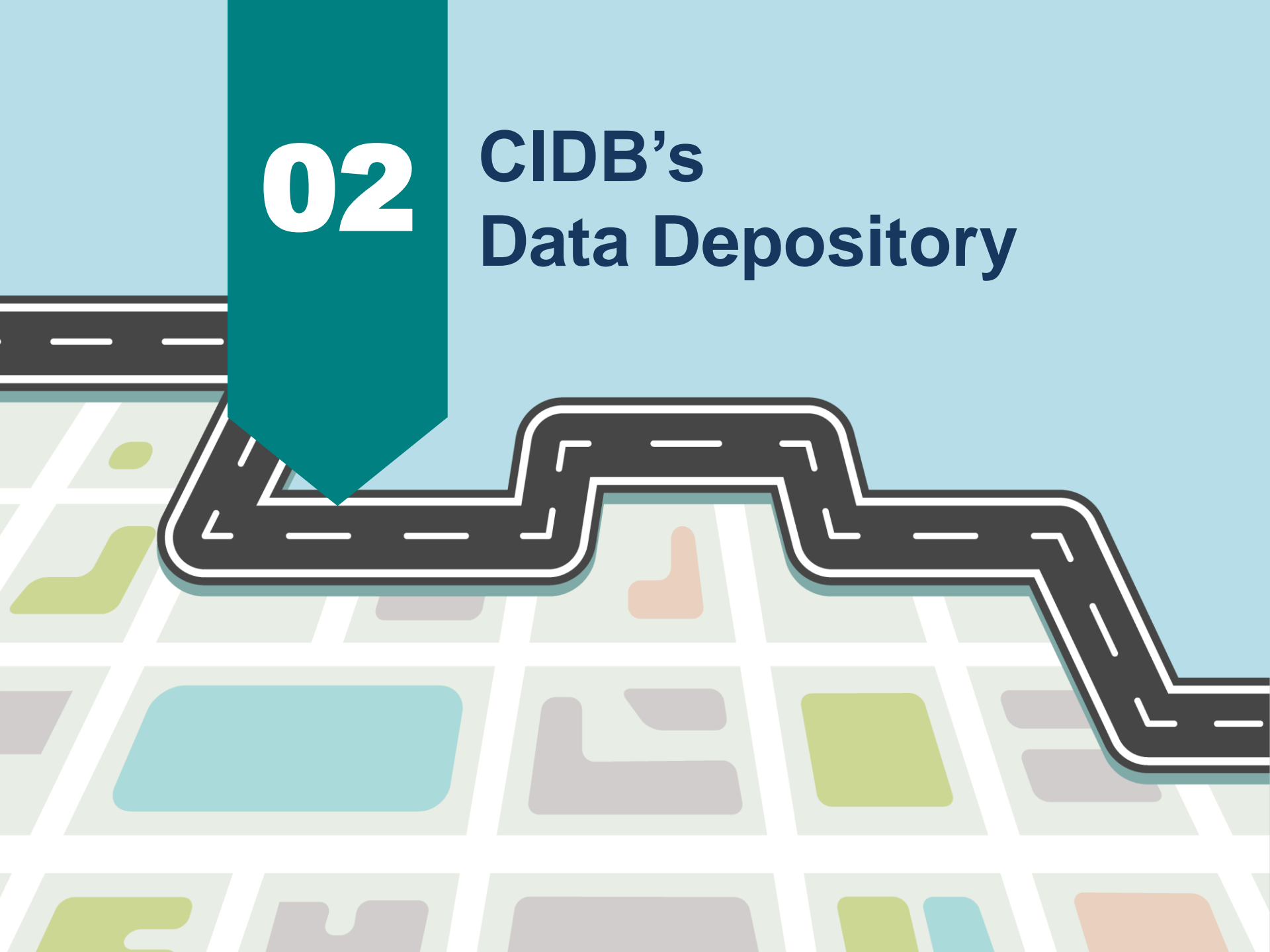
3

To obtain, publish, initiate and maintain information relating to the construction industry including the establishment of a construction industry information system



**02**

# **CIDB's Data Depository**



**Make available comprehensive construction related data for industry consumption**

**Regular data releases for informed policy formulation and decision making in business planning and investment**

**Enable better resource planning and longer term operational sustainability**

**Increase confidence level for making large capital investment including investing into new technology adoption**



**Why do we need data?**

01

Contractor's  
Profile

02

Projects  
Awarded

03

Construction  
Prices, Wages  
and Hire Rates

Construction  
Personnel  
Registered

Contractor &  
Personnel  
Trained

04

05

Export of  
Construction  
Services

Technology &  
Best  
Practices

06

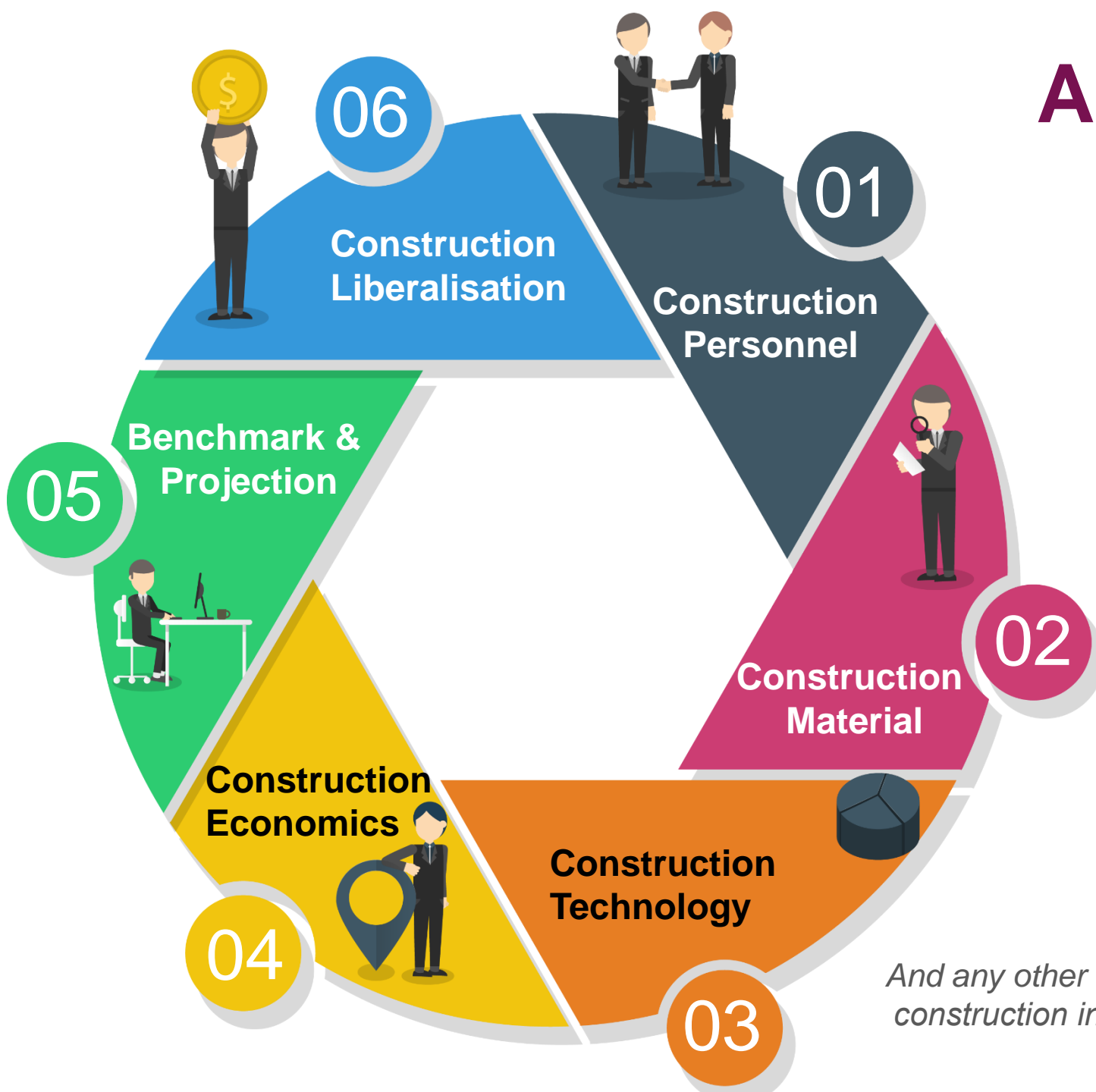
07

**03**

# Decision Making using Facts & Figures



# Advisory Area



*And any other areas related to construction industry ...*

# Construction Personnel Registered

Provide employment & increase local involvement

Advisory Area

Advisory Area

Control the admittance & reduce reliance on foreign workers

Advisory Area

Increase personnel skills & productivity

Practice quality & safety culture at site

Advisory Area

Advisory Area

Personnel supply & demand for business strategic planning

- Contractor's profile
- Projects awarded
- Number of man-power
- Graduate/ trained man-power
- Wage rates
- Man-power weightage
- Accident rate
- Importation

Data Required



# Advisory Area



02 Improving provision for variation of price (VOP) for government's projects

## Regulate Construction Material

01 To ensure quality of materials used in construction

Data Required

03 Liberalisation: Safeguard measures in import and export



- *List of construction materials that conform to prescribed standard*
- *Material prices and weightage*
- *Manufacturers & distributors (supply & demand)*
- *Construction cost*

## Quality, Safety & Environment Practices

(Qlassic, Shassic, myCREST, BIM, IBS, R&D, etc.)



01

Import Duty and Sales Tax for Heavy Machineries & Equipment



03

Technology for Business Strategic Planning



02

## Data Required

- Contractor's Profile
- Machineries rental rate, equipment purchase price & weightage
- Machineries sales & import tax
- IBS adoption rate
- Accident rate



# Economic Impact Analysis in Construction Sector

**GST  
Implementation  
to Construction  
Cost**



**Ringgit  
Depreciation  
to  
Construction  
Industry**



**Economic  
Benefit of  
Construction  
Services**



**Change of  
Fuel Price vs.  
Construction  
Materials**



**Data Required**

- Construction cost & weightage
- Material price & constant
- Exchange rate
- National balance of payment



# Benchmark & Projection

## Use Of Data

01

Appraise performance of construction market through major indicators

02

Forecast upcoming demand for construction resources

03

Enhance procurement process & tender evaluation

04

Informed decision making, business planning and investment

## Type Of Data

- *Projects awarded*
- *Construction material*
- *Construction personnel*
- *Project announced*
- *Contractor's profile*

## Bilateral FTAs

*Malaysia-Pakistan Comprehensive Economic Partnership Agreement (MPCEPA)*

*Malaysia-New Zealand Free Trade Agreement (MNZFTA)*

*Malaysia-India Comprehensive Economic Cooperation Agreement (MICECA)*

*Malaysia-Japan Economic Partnership Agreement (MJEPA)*

*Malaysia-Australia Free Trade Agreement (MAFTA)*

## Multilateral FTAs

*ASEAN-Australia/New Zealand (AANZFTA)*

*ASEAN-China Free Trade Area (ACFTA)*

*ASEAN Framework Agreement on Services (AFAS)*

*ASEAN-Korea Free Trade Area (AKFTA)*

*Trans-Pacific Partnership Agreement (TPPA)*

**Negotiation  
for  
Construction  
Liberalisation**



### Data Required

- *Involvement of foreign contractor in Malaysia*
- *Movement of construction professional and technical person*
- *Identified target market*

# Moving Forward

04



CIDB  
MALAYSIA



# CONSTRUCTION INDUSTRY TRANSFORMATION PROGRAMME 2016-2020

*Driving Construction Excellence Together*



[www.citp.my](http://www.citp.my)



QUALITY, SAFETY  
& PROFESSIONALISM

Quality, safety and professionalism to be ingrained in industry culture



ENVIRONMENTAL  
SUSTAINABILITY

Malaysia's sustainable construction to be a model for the emerging world



PRODUCTIVITY

More than doubling productivity, matched by higher wages



INTERNATIONALISATION

Malaysian champions to lead the change locally and globally

20 Initiatives

9 Thrust KPIs

110 Initiative KPIs

400+ Partners

# 20 CITP Initiatives to Transform the Construction Industry Across 4 Strategic Thrusts

## Quality, Safety & Professionalism



- Q1 Increase emphasis on quality and implement quality assessments
- Q2 Improve workplace safety and workers' amenities
- Q3 Improve ease of doing business by addressing regulatory constraints
- Q4 Promote and raise awareness of CITP initiatives
- Q5 Enhance integrity and increase governance (NEW)

## Environmental Sustainability



- E1 Drive innovation in sustainable construction
- E2 Drive compliance to environmental sustainability ratings and requirements
- E3 Focus on public projects to lead the charge on sustainable practices
- E4 Roll out technology Facilitate industry adoption of sustainable practices
- E5 Reduce irresponsible waste during construction

## Productivity



- P1 Continue investment in human capital development in construction
- P2 Enhance control and balance of workforce supply
- P3 Accelerate adoption of IBS, mechanisation and modern practices
- P4 Roll out technology advantage across project life-cycle
- P5 **Enhance availability of strategic information via NCIIC**
- P6 Advance SME / Bumiputera capacity and capability-building

## Internationalisation



- I1 Internationalise construction practices and standards
- I2 Strengthen access to financing for Malaysian champions going abroad
- I3 Support consortia formation and strengthen overseas market intelligence
- I4 Intensify contractor's capacity and capability building

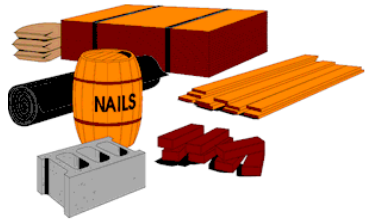
# Case for CHANGE

Lack of access,  
accuracy,  
breadth and  
depth of  
industry data

Opps..sorry, no  
data available!



Projection on material & workers



Personnel



Malaysian contractors overseas

QLASSIC & SHASSIC

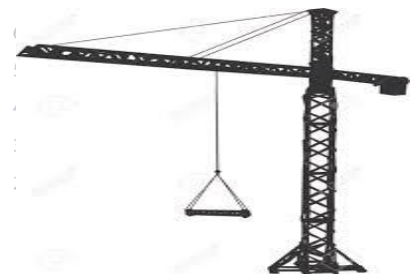
Projects awarded

Liberalisation

SCORE

MyCESMM

IBS

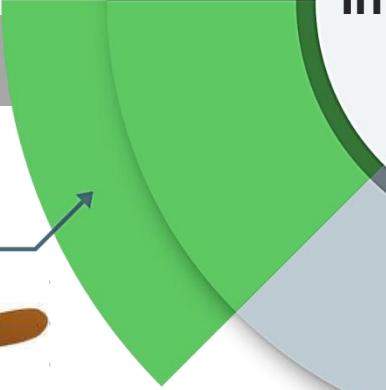
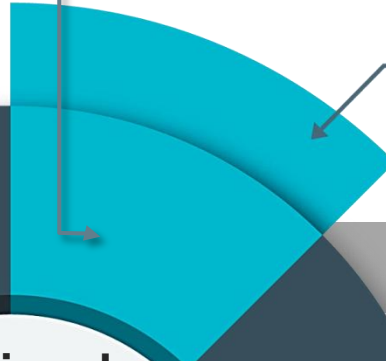
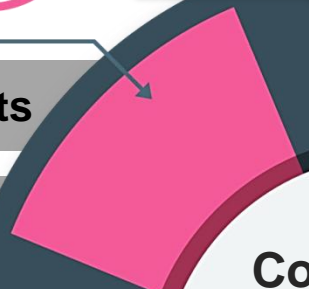


Construction economic reports



Professional & consultant

National Construction Industry Information Centre  
**NCIIC**  
portal



Upcoming construction projects

Construction cost & prices

Contractor

Construction material

Decided construction cases



by 2018



# IWG13 – NCIIC Memberships



# Conclusion



## Rapid Growth

Rapid growth of construction industry presently and in future



## Productivity

Integrated and comprehensive information to increase productivity



## Transformation

Together we transform the construction industry for the benefit of beloved nation

**THANK YOU**

