2022 SEAISI STEEL MEGA EVENT & EXPO (TECHNOLOGY, SUSTAINABILITY, CONSTRUCTION)

CONSTRTUCTION 4.0 STRATEGIC PLAN (2021-2025):

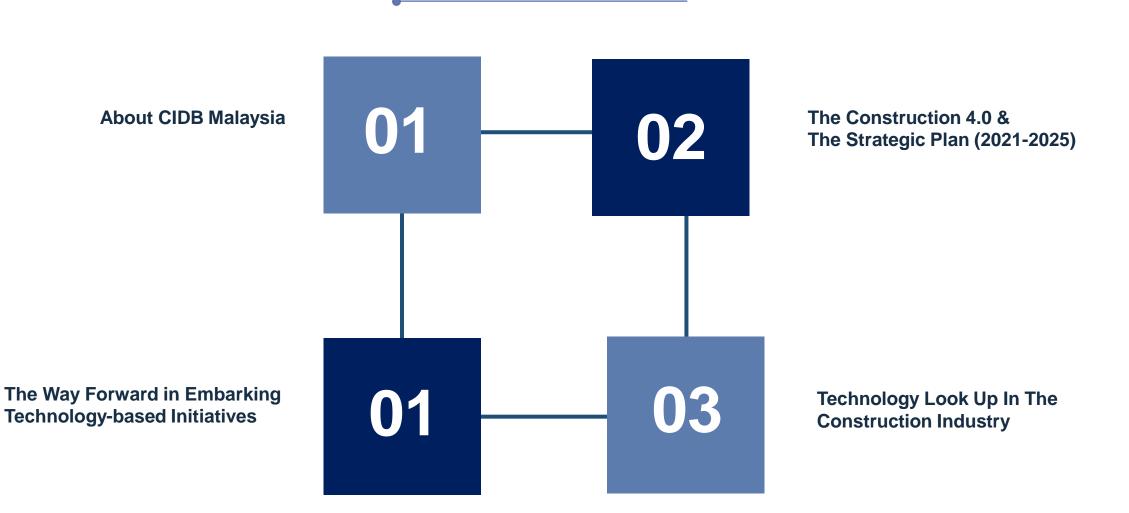
THE ADOPTION OF TECHNOLOGY IN THE CONSTRUCTION INDUSTRY IN MALAYSIA

General Manager Technology Development Sector, CIDB Malaysia

15 NOVEMBER 2022 I SUNWAY PYRAMID CONVENTION CENTRE



CONTENTS OF THE PRESENTATION





THE MISSION



To regulate, develop and facilitate the construction industry by inculcating professionalism in delivering quality, productive and sustainable built environment.



CIDB MALAYSIA
STRATEGIC
INSPIRATIONS

To be an esteemed organization that delivers construction excellence in Malaysia.

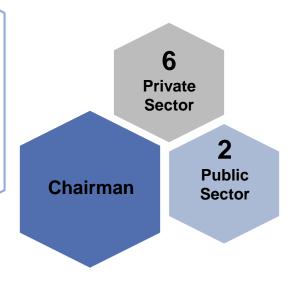
THE VISION



CIDB MALAYSIA BOARD OF DIRECTORS



Appointment of Board of Directors based on Act 520:



CHAIRMAN

YB. Ir. Hj. Yusuf Bin Hj. Abd. Wahab





Dato' Ir. Soam Heng Choon President of Real Estate & Housing Developers' Association (REHDA)

Tan Sri Sufri bin Hj. Mhd Zin
President of Master Builders Association
Malaysia (MBAM)



Datuk Nik Airina Binti Nik Jaffar UEM Group Berhad



Tn. Hj. Ir. Alhadi Bin Ibrahim Representative from Sarawak











THE ROLES OF CIDB: 14FUNCTIONS UNDER ACT 520



ROLE

01

ADVISORY

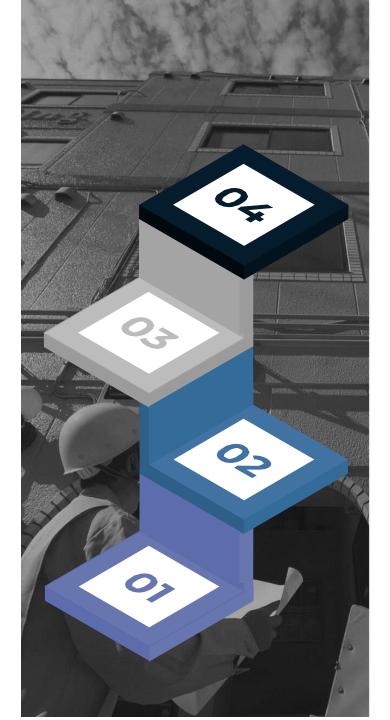
COMPRISES IN

ADVISORY?

WHAT

Provide consulting and advisory services

Manage complaints or reports made in respect of any failure of construction work



Advise and recommend to the Federal and State Governments

To promote and stimulate the development, improvement and expansion of the construction industry ROLE **02**

REGULATORY

Regulate the implementation of the **Industrial Building**System in the construction industry

Registration & Accreditation
Of Personnel Contractors

WHAT
COMPRISES IN
REGULATORIES?



Regulate the implementation of quality and safe construction work

Regulate compliance with standards for construction work and building materials

Registration & Accreditation Of Contractors

ROLE 03

DEVELOPMENT

Advancing & Promoting quality assurance

Establish, develop, review and coordinate training of construction personnel & contractors in the construction industry

WHAT
COMPRISES IN
DEVELOPMENT?



Advancing & assisting in the **export of services**

Promoting Technology, Developing & Conducting Research

Provide & maintain Industrial Information System Construction



In line with national policies such as the Five Year Malaysia Plan, Dasar Pembinaan Negara (DPN) 2030 and Wawasan Kemakmuran Bersama (WKB) 2030 to make the construction industry more productive and competitive









CIDB Strategic Plan (2021-2025)



Construction 4.0 Strategic Plan (2021-2025)



CIDB ICT Strategic Plan (2020-2025)



Organisational Anti-Corruption Plan (2021-2025)



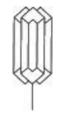
on:

17 November 2020

By Senior Works Minister, YB Dato' Sri Haji Fadillah Haji Yusof

LAUNCH OF **CONSTRUCTION 4.0 STRATEGIC PLAN** (2021-2025)



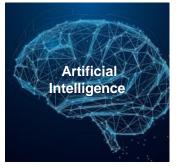


CONSTRUCTION 4.0

VISION & MISSION

Transform the Malaysian construction industry by empowering smart construction for future society





Advanced Building Materials





Building Information Modelling (BIM)



THE 12

EMERGING TECHNOLOGY

Augmented Reality & Virtualisation

3D Scanning & Photogrammetry





Internet of Things





IMPLEMENTATION PHASE

MEDIUM TERM IMPLEMENTATION (<3 YEAR)

- Big Data & Predictive Analytics
- Internet of Things

SHORT TERM IMPLEMENTATION (<1 YEAR)

- Prefabrication & Modular Construction
- Autonomous Construction
- Cloud & Realtime Collaboration
- Building Information Modelling
- Augmented Reality & Virtualisation
- 3D Scanning & Photogrammetry

LONG TERM IMPLEMENTATION (>5) YEAR)

- Advanced Construction Materials
- Blockchain
- Artificial Intelligence
- 3D Printing & Additive Manufacturing



STRATEGIC THRUST 1

BUILDING CAPACITY



STRATEGIC THRUST 2

RESEARCH,
INNOVATION,
COMMERCIALISATION
&
ENTREPRENEURSHIP
(RICE)



STRATEGIC THRUST 3

SMART INTEGRATED TECHNOLOGY, INNOVATION & INFRASTRUCTURE



STRATEGIC THRUST 4

ENHANCED BUSINESS ENVIRONMENT



Preparing future workforce for Construction 4.0

Create mechanisms to support innovators and technology adopters

Strengthen Quadruple Helix partnership

Driving research and innovation in Construction 4.0

Improve government policy intervention in applying specific technology

Enhance collaboration of disruptive technology and data centre repository

Enhance stakeholders' local and international partnerships to increase the business growth of the construction industry

Creating collaborative governance ecosystems through government intervention

Promote the role of foreign direct investment or collaboration

ENABLERS





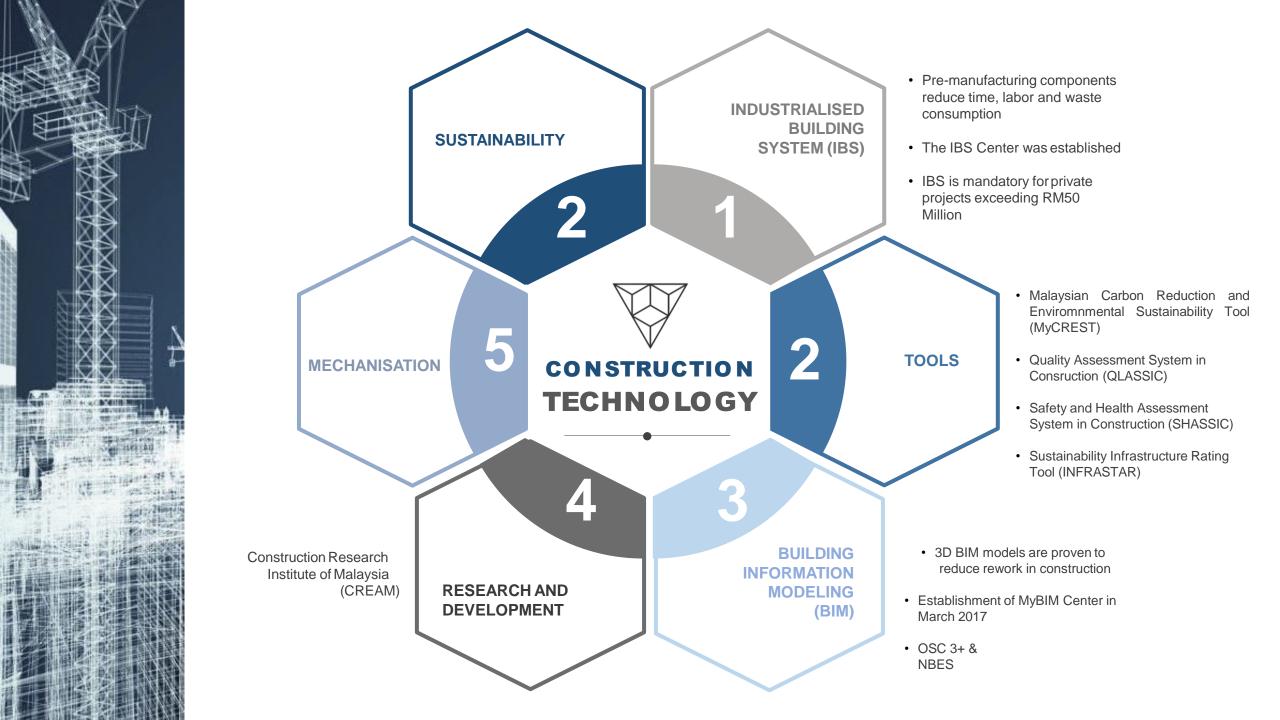






STRATEGIC THRUST

FOR CONSTRUCTION 4.0







EMBRACING QUALITY

LEVERAGING PRODUCTIVITY

PROMOTING INNOVATIONS

STRENGTHENING DIGITALISATION





