





 To drive for unity and excellence of the construction industry of Hong Kong.

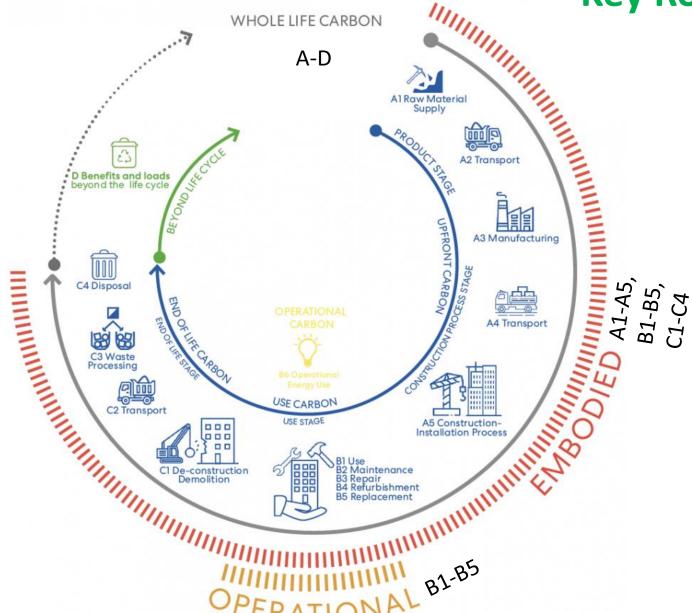


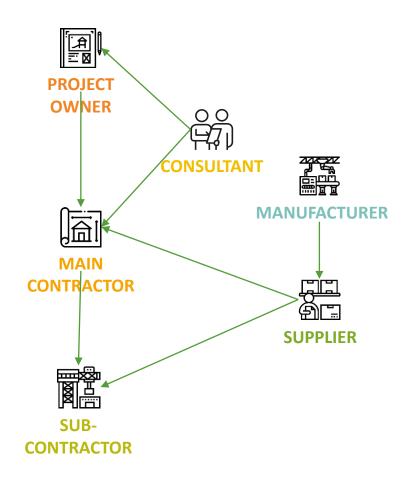




 To strengthen the sustainability of the construction industry in Hong Kong by providing a communications platform, striving for continuous improvement, increasing awareness of health and safety, as well as improving skills development.

## **Key Roles of Construction Supply Chain**





### **Sustainable Construction Video**



# CIC's Sustainable Initiatives

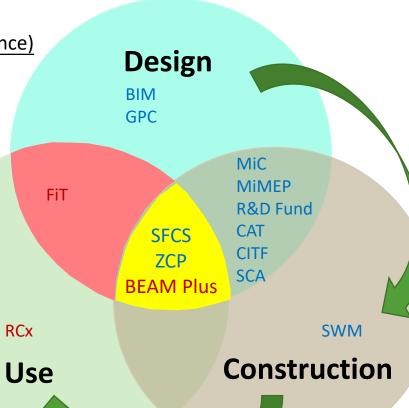


#### **Decarbonisation Initiatives Throughout Construction Life Cycle**

#### **Other Initiatives**

B1-B5 Building in Use (Energy Performance)

- Retro-fitting Guidebook (HKGBC) (Retro-commissioning)
- Smart Power Building Fund (HKE)
- Eco Building Fund (CLP)
- FiT (Feed-in Tariff from CLP)



#### **CIC Initiatives**

#### **Building Methodology and Material Design**

- MiC (Modular Integrated Construction)
- MiMEP
- BIM (Building Information Modelling)
- CAT (Carbon Assessment Tool)
- GPC (Green Product Certification)
- R&D Fund (Research and Development Fund)
- CITF (Construction Innovation and Technology Fund)

#### Site Impact

- SWM (Smart Waste Management)
- MiC (Building Information Modelling)
- MiMEP
- CAT ( Carbon Assessment Tool)
- R&D Fund (Research and Development Fund)
- CITF (Construction Innovation and Technology Fund)



# Modular Integrated Construction 「組裝合成」建築法





https://shroffed.com/2022/10/20/policy-address-2022-four-issues-that-concern-you-the-most/





#### **BIM & Construction Digitalisation**



**BIM** is a 'Vehicle' for both MiC & prefabrication



# Case Study Video: MiC & BIM application on InnoCell Project



# Application of MiC & BIM – InnoCell at Hong Kong Science Park



- 17-storey hostel
- Provides over 500 bedspaces
- 418 Steel MiC Modules
- Construction Cycle of Typical MiC Floor: 3 Days
- Completed in Oct 2020
- Advance completion by 5 months in an 18-month contract, i.e. 28% faster
- Reduce construction waste by 20%
- Reduce non-inert waste by 80%
- 50% reduction of total construction vehicle count
- Zero work injury and zero accident
- Better air quality level (50% reduction of the level of particulate matter (PM)



Main Contractor:
Hip Hing Engineering Company Limited

MiC Supplier: Guangdong CIMC Building Construction Company Limited (CIMC)



## **CIC Green Product Certification (GPC)**

- Officially launched in November 2019
- Evaluate environmental aspects







Credits attained under BEAM Plus New Building 2.0















CIC GREEN
PRODUCT CERTIFICATION

A primary and comprehensive building and

construction materials /

products certification

scheme in HK

http://cicgpc.hkgbc.org.hk/







Recyclability

## **CIC Carbon Assessment Tool (CAT)**

- Launched in 2019
- 1st online free carbon assessment tool for HK construction industry
- Evaluate carbon emission from A1–A5 in building life cycle
- Generate carbon emission report on design and construction phase of building projects
- Projects database for future benchmarking

+008

Construction

**Materials** 

50+

Supporting Organisations

Credits attained under BEAM Plus New Building













The Online Tool facilitates the construction industry to contribute to the carbon reduction goal.



## 251

CIC Sustainable Finance Certification Scheme 建造業議會可持續金融認證計劃

## **CIC Sustainable Finance Certification Scheme (SFCS)**



Verification
Against
International
Principles



Specific

Design for construction projects and industry players



Wide Scheme
Coverage

for common financial products adopted in the industry

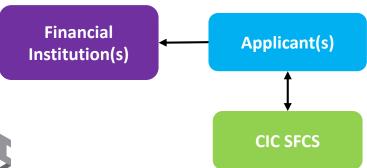


#### Recognition

A recognised external reviewer of HKMA Green and Sustainable Finance Grant Scheme

#### **4 Financial Products:**

- Green Loans,
- other Green Facilities,
- Sustainability-linked Loans,
- other Sustainabilitylinked Facilities











https://sfcs.cic.hk/









SCA 2023 Application
Opens in Jan 2023
Stay Tuned!

- CIC Sustainable Construction Award held in 2018 and 2020
- The Award recognises sustainability best practices among organisations and practitioners, in particular the young generation of the construction industry.

700+
Applications

300+

Construction Projects

2000+

Attendees

90million +

Newspaper and Social Media Coverage

#### **CIC Zero Carbon Park (ZCP)**

## **X** • To

## **CIC iHub Guided Tours**

To provide an opportunity for the students and practitioners to gain an insight into the world of **BIM-enabled modern construction practices** and **innovative technologies** through educational tours.

























# Thank you

