### MiC Adoption in Government Pilot Project

"B2B" Event on MiC in HK, CIC

### Innovative Construction at ArchSD

**Pak Shing Kok Disciplined Services Quarters** 

Michael LI, Architectural Services Department

6 November 2018

### **Policy Address 2017:**

#### **Adoption of:**

"113. The construction industry has been facing the challenges of high construction costs and labour shortage in recent years. Hence, the Government is proactively promoting the adoption of technology and innovative construction methods to improve productivity and cost-effectiveness. ......"

### **Policy Address 2018 & Budget 2018-2019:**

- \$1 billion Construction Innovation and Technology Fund to encourage wider adoption of innovative technologies such as BIM, steel reinforcing bar products and Modular Integrated Construction (MiC)
- The Government will take lead in piloting MiC in public projects

### Policy Address & Budget

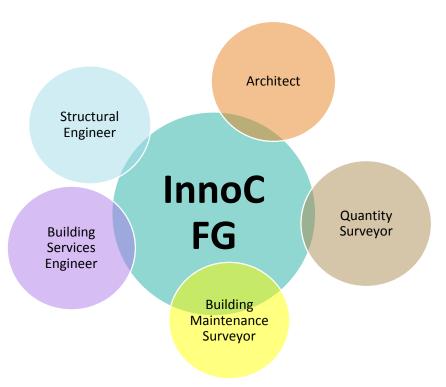


#### **Construction industry in Recent Years**

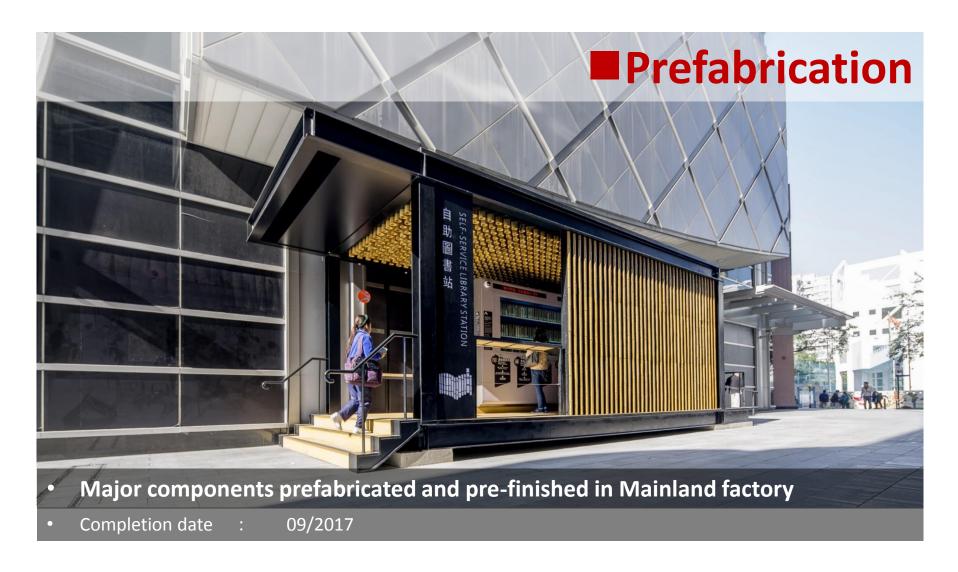
- Challenges of high construction costs
- Labour shortage
- Adoption of technology and innovative construction methods
- Improve productivity and effectiveness

# Innovative Construction at ArchSD

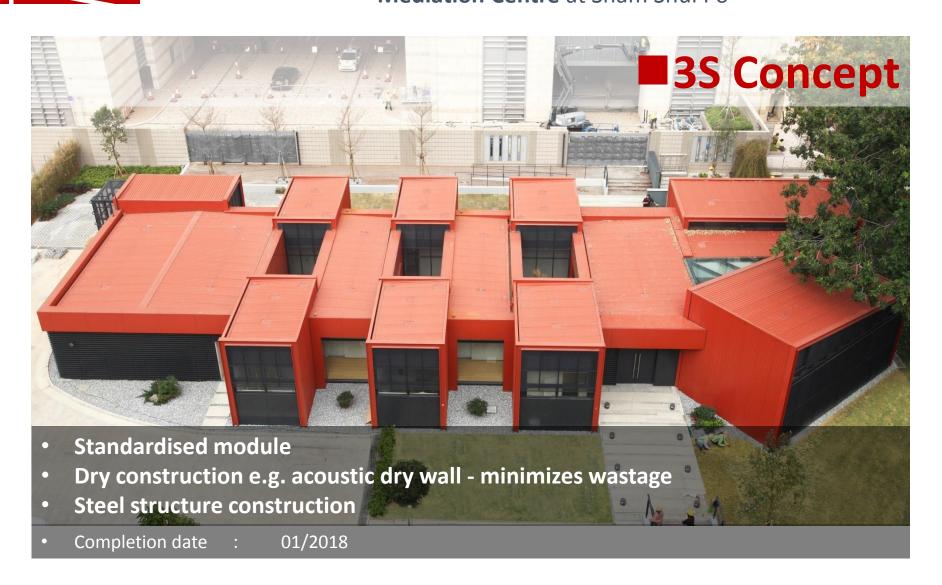
### ■ Innovative Construction Focus Group (InnoC FG)



- Focus Group on Innovative Construction
- Meeting with industry stakeholders



# Innovative Construction ArchSD | Minor Works Project Mediation Centre at Sham Shui Po















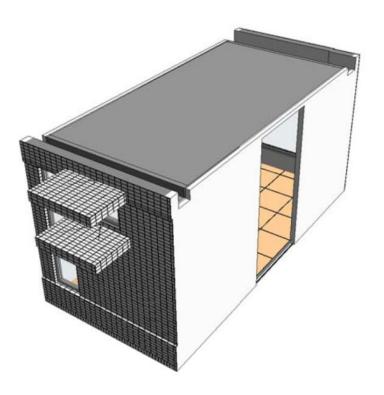




# What's Next?

## **Innovative Construction**



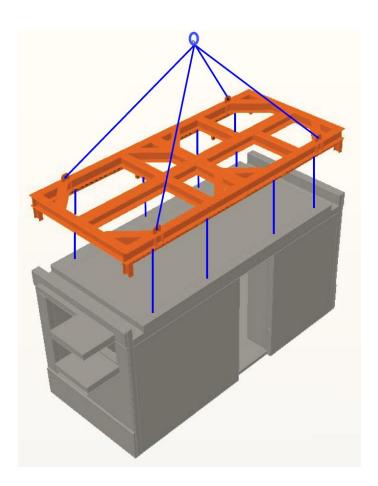


# What is Modular Integrated Construction (MiC)?

- Free-standing volumetric modules
- Complete with finishes, fixtures, fittings etc.
- Manufactured off-site
- Transported to site for installation

### The Benefit of MiC

- Improve site safety and reduce accident
- !mprove quality
- Improve efficiency and shorten construction period
- Reduce construction waste
- Reduce worker demand and increase effectiveness
- Improve working environment to attract younger generation





#### Disciplined Services Quarters at Pak Shing Kok Under Development

**Site Area** 1.24 ha

Location Area 106, Pak Shing Kok, Tseung Kwan O

**Scope of Works** 

1. Quarters for FSD 648 Grade "H" 3-Bedroom (50 sq. m.) units

2. Car park 101 private car parks

3. Loading/Unloading Bay 5

4. Ancillary Facilities Management office

Multi-purpose room

Outdoor children and landscaped area

### **Innovative Construction**

#### **Construction industry in the Future?**

- Automation, Al
- Free from transportation limitation
- Robotics

"Nothing great will ever be achieved without great men, and men are great only if they are determined to be so" – Charles de Gaulle

"It always seems impossible until it's done" – Nelson Mandela

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### Innovative Construction at ArchSD

**Pak Shing Kok Disciplined Services Quarters** 

### **Thank You**