



HKU's Client Approach to MiC Pilot Projects

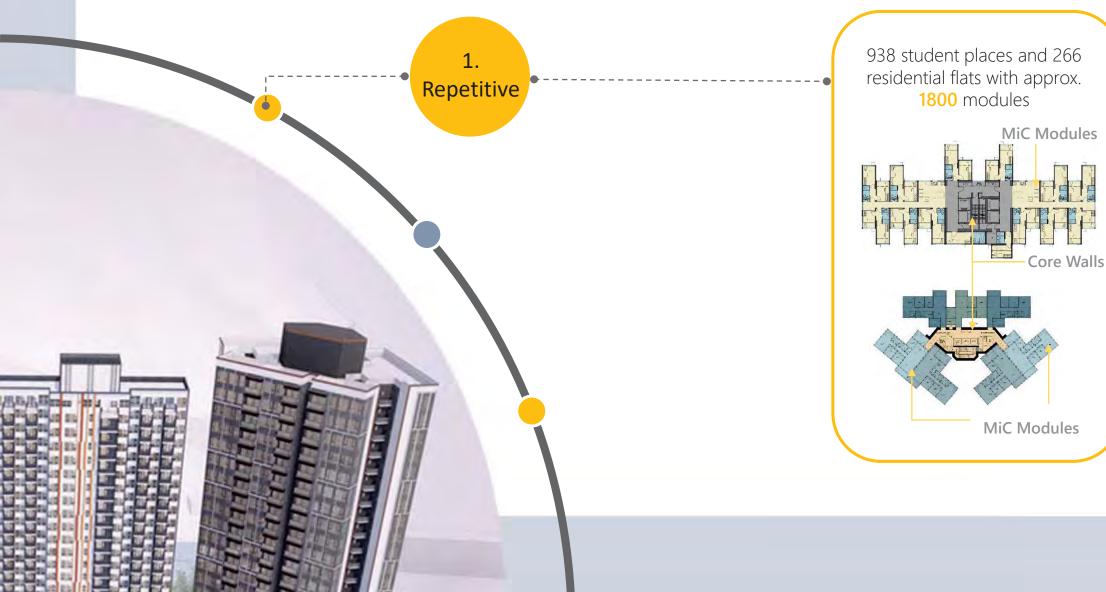
Presented by: Ms. Joey Loi Estates Office, The University of Hong Kong



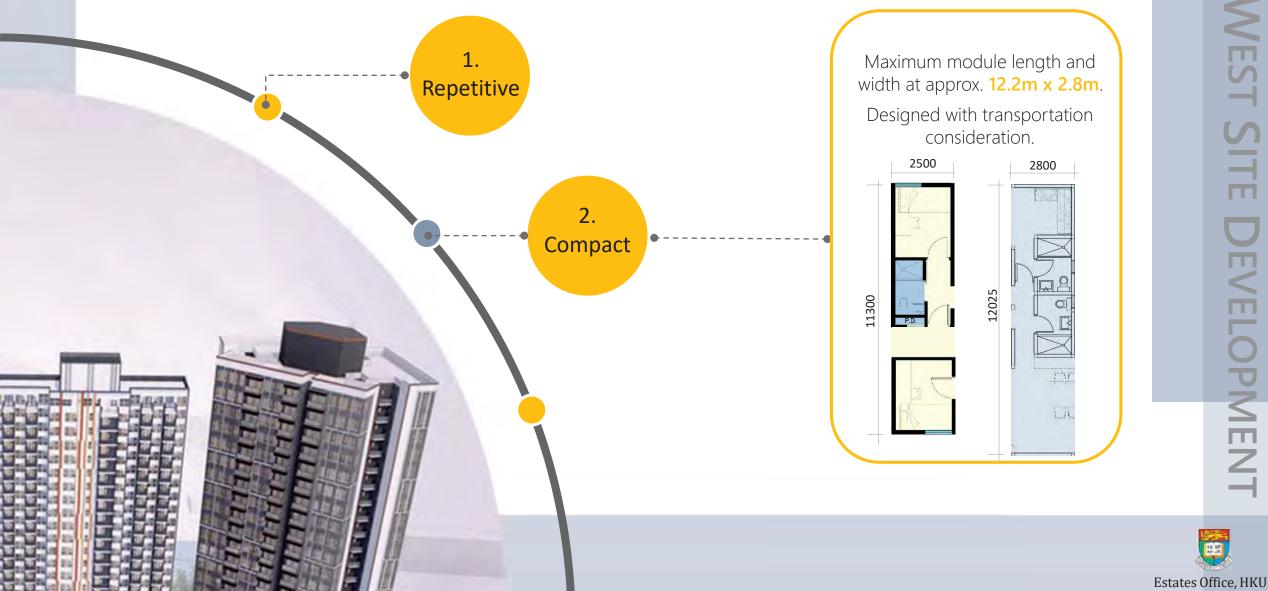


Understand the Fundamental Principles

Design Aspects What are our design considerations?



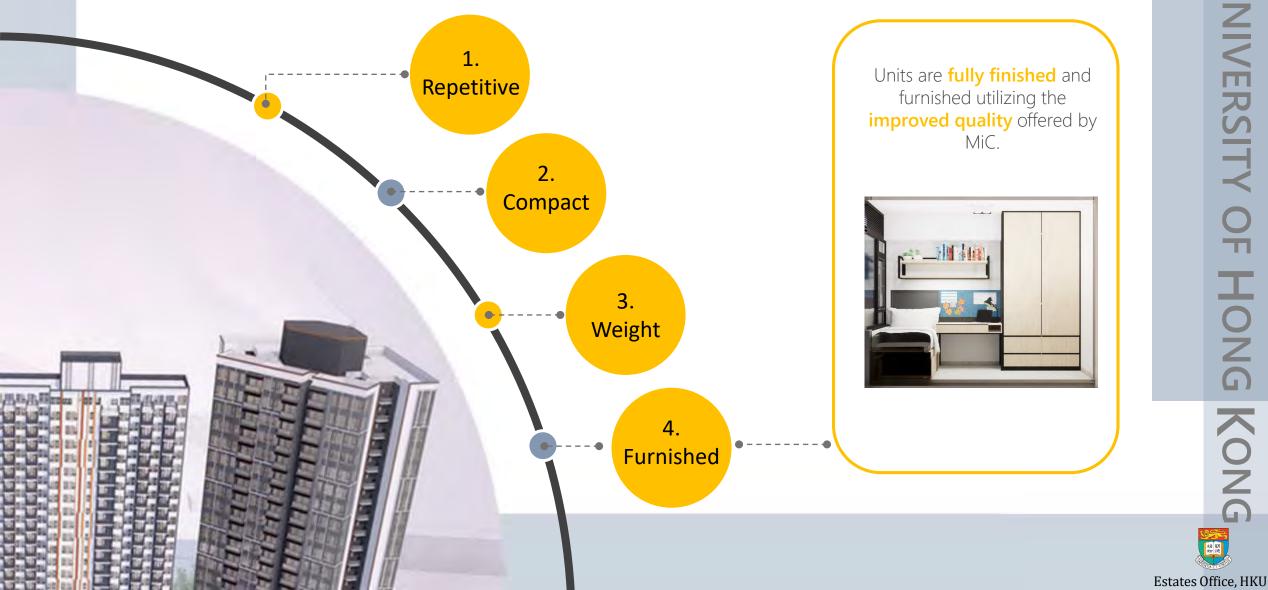
Design Aspects What are our design considerations?



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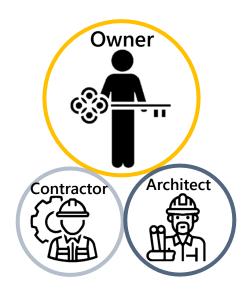


Design Aspects Basic principles when planning MiC



Responsibility & Planning Key Team Players

Responsibility & Planning MiC Knowledge is required for all parties



Site Selection

Appropriate site for logistic & module delivery

Project Scale

Module quantity for economical production

Project Type

Building typology with adequate repetition





Project Conception Stage

Project Programme

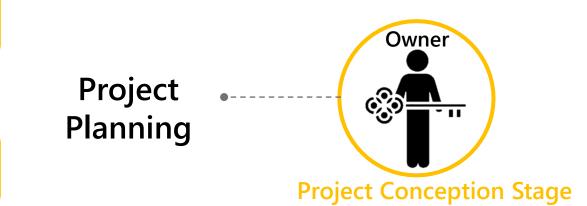
Identify the overall project programme and time frame

Consultancy Engagement

Consider the appropriate timing to engage consultants

Main Contractor Engagement

Engage main contractor & MiC supplier at appropriate time



Consultant Procurement

CITF application, liability differentiate & MiC Ready concept

Main Contract Procurement

Form of procurement for substructure & superstructure, DSC vs NSC MiC supplier

Supply & Material Procurement

Type of MiC (steel/ concrete/ hybrid) & degree of finishes Procurement Strategy



Project Conception Stage

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Planning MiC Knowledge is required for all parties

Design Solution

Should have a draft MiC Ready Design Solution

Design Study

Preliminary review study on unit size & weight

Logistic

Limitation on transportation restriction

Design ... Consideration



Project Conception Stage

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Design Consideration

Consultants On-board

Type of Module

Limited module type to generate max. repetition

Module Division

Min. external joints for better waterproofing

Material Selection

Appropriate material for weight consideration

Module Size

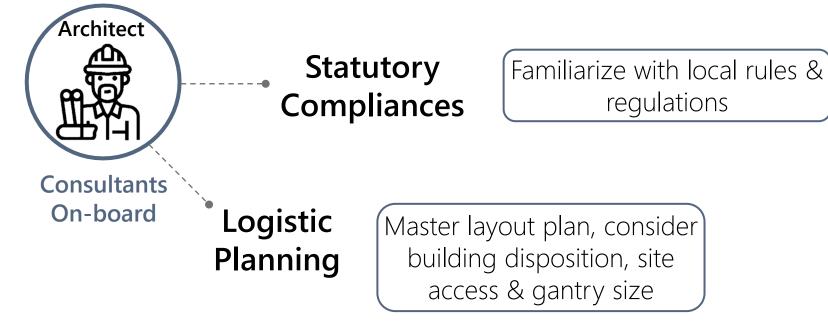
Proper module size with transportation restriction

Structural Issues

Structural core to cater for module installation

E&M Routing

Minimize in-situ installation & module crossing



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Planning MiC Knowledge is required for all parties

Transportation Consideration

Max. module that does not required wide-load permit

Delivery Programme

Deliver modules to suit manufacturing & installation

Means of Delivery

Decide routing & ways to maintain module integrity

Temporary Storage

Consider holding area or Justin-time delivery

Procurement Strategy

Boarder custom & material delivery



Contractor On-board



Know the details of factory assembly-line and method

Review production workflow and ensure QA&QC Contractor On-board



Manufacture •

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Planning MiC Knowledge is required for all parties

Site Planning

Crane displacement & allocation

Hoisting Safety

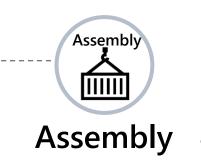
Design for safety & module integrity

Weight Consideration

Module weight limit for conventional crane

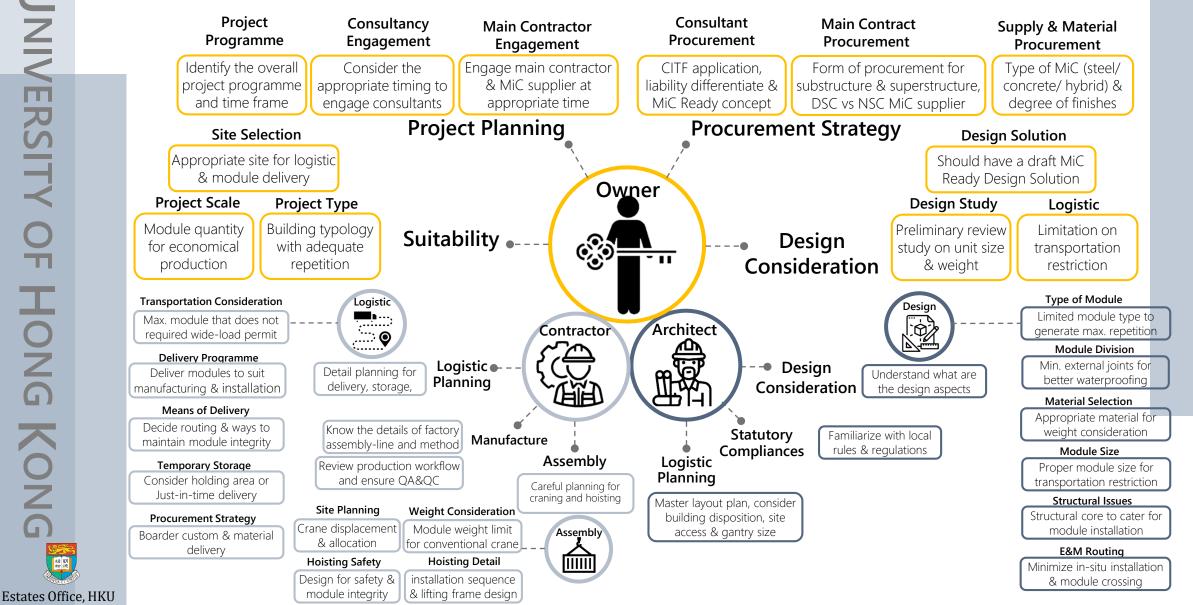
Hoisting Detail

installation sequence & lifting frame design

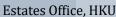


Contractor On-board

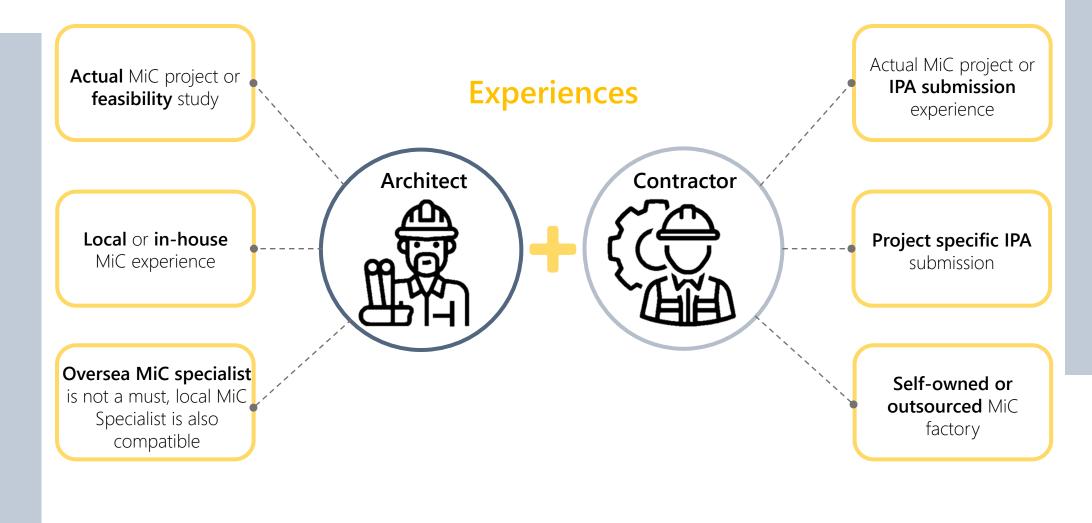




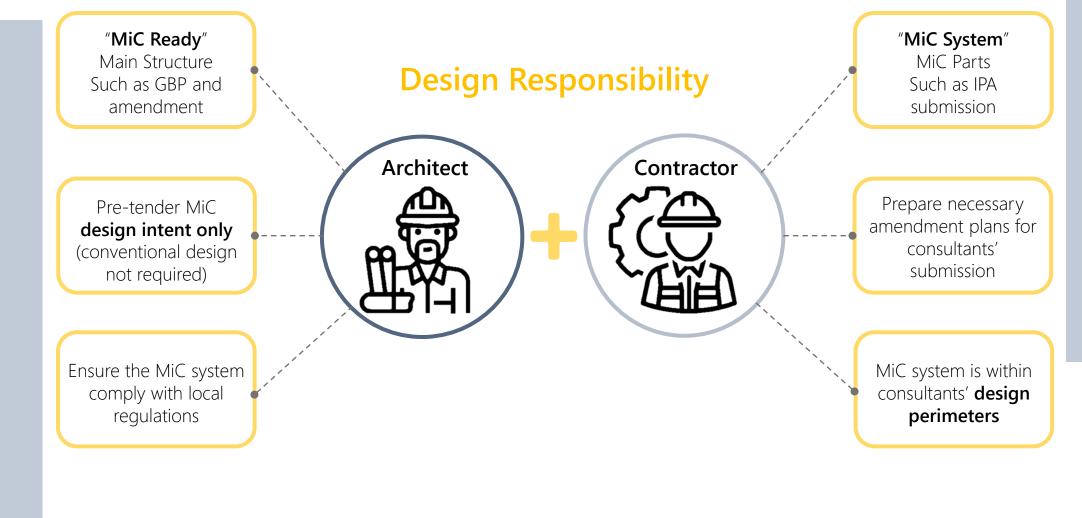
Requirements & Responsibility Consultant vs Contractor Procurement



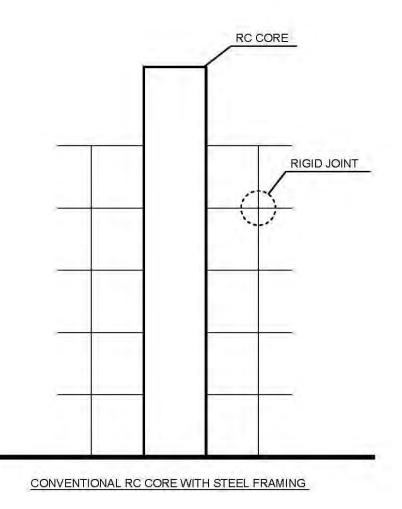
MiC Requirements Experiences

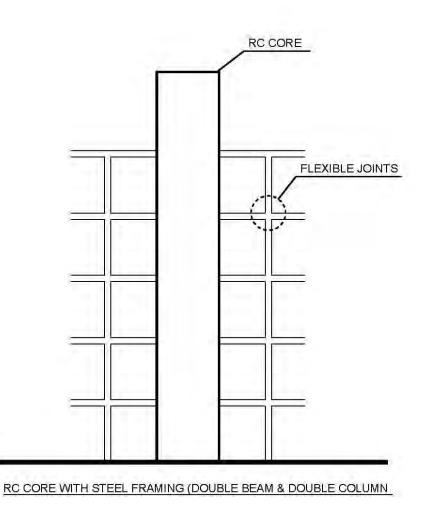


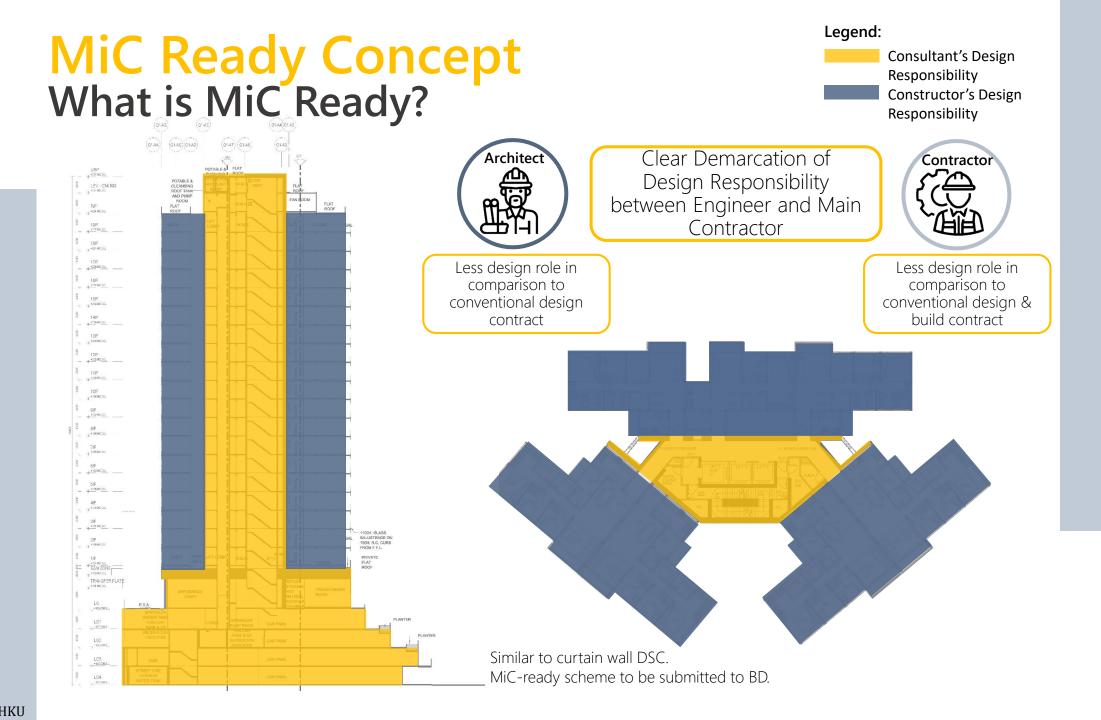
MiC Ready Concept Roles and Obligations



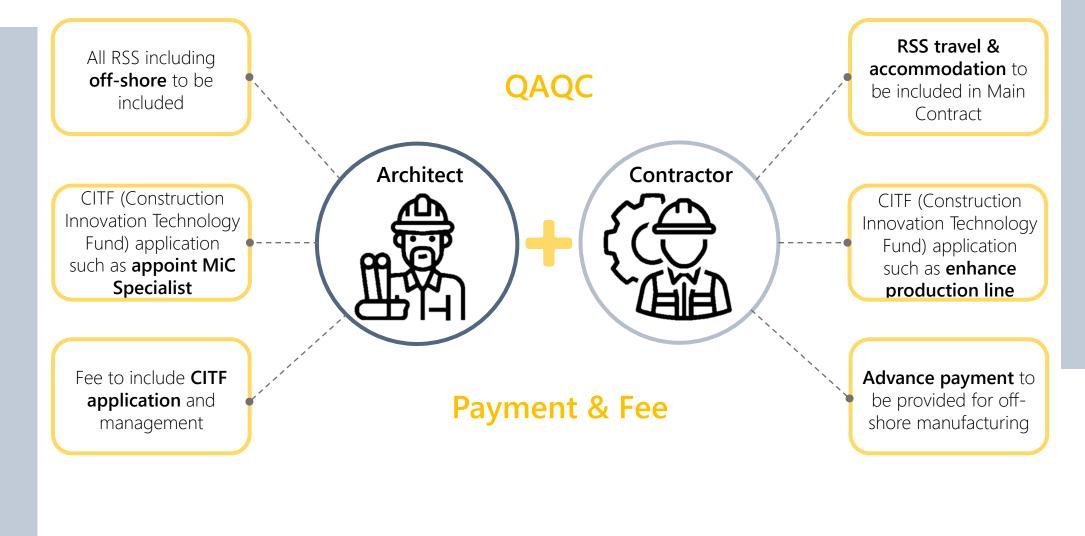
MiC Ready Concept What is MiC Ready?







MiC Ready Concept Quality Assurance & Quality Control



From Wong Chuk Hang to High West

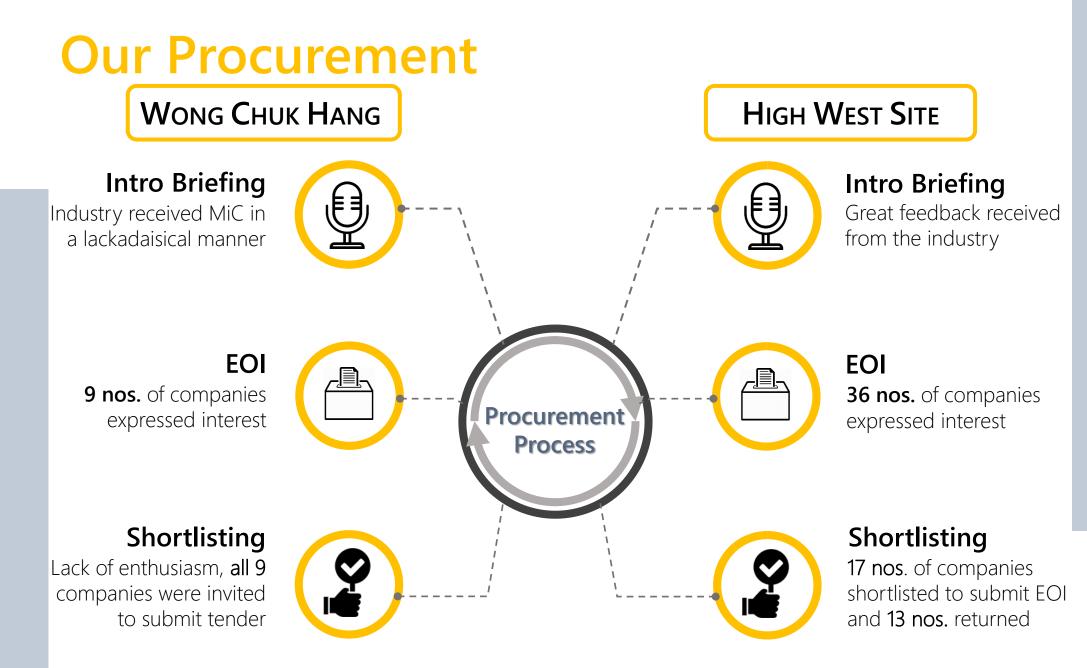
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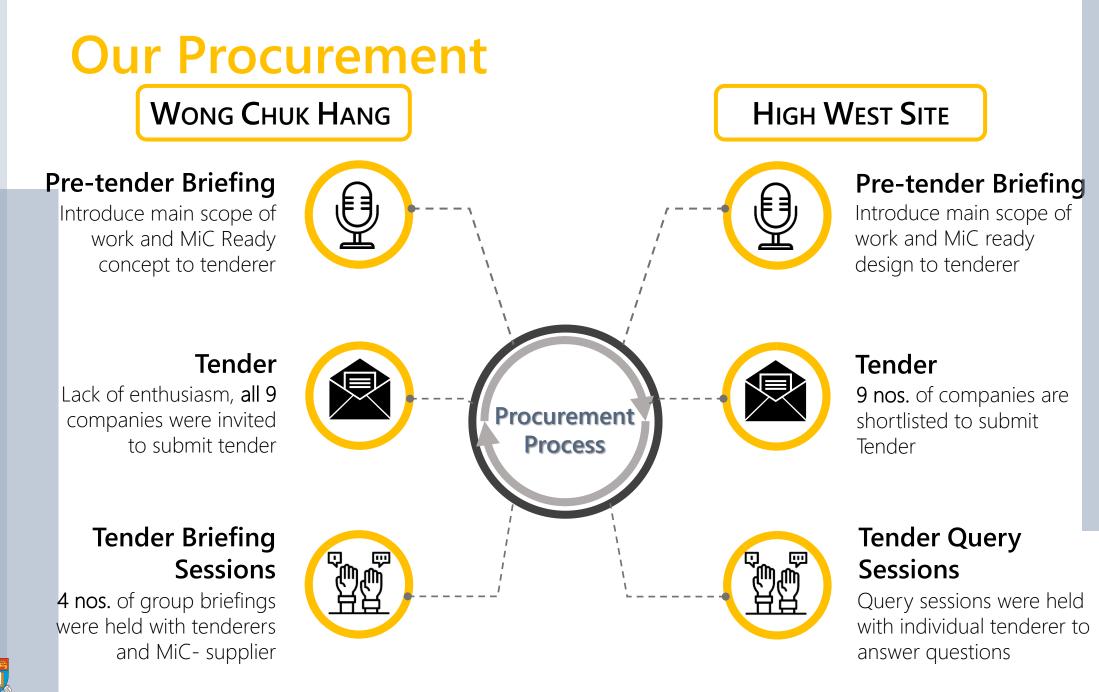
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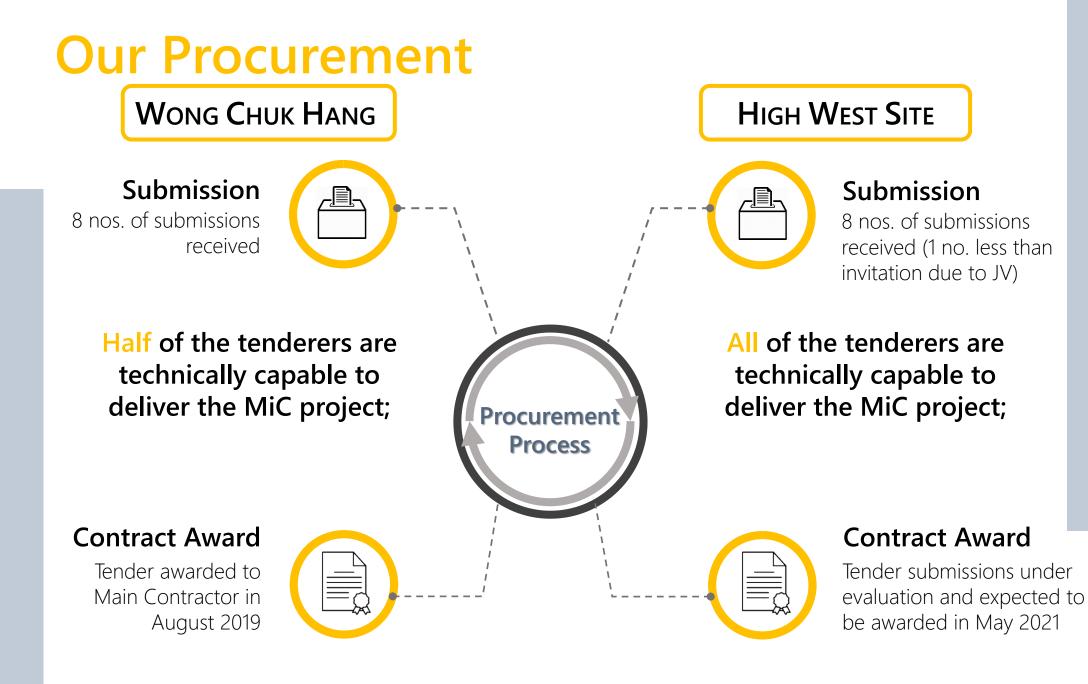
It is not just another MiC Project

The Outcome Between WCH and HW





(1) Т WEST — **EVELOPMENT**



NONG **HOK** AN G **TUDENT** HOSTE

Our Result For WCH

Cost Saving

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Based on our awarded MiC contract, there is a **7% saving** in comparison to conventional RC construction

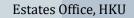






Better Quality

Improves construction accuracy via mass production and planning under a controlled environment



Our Target For HW

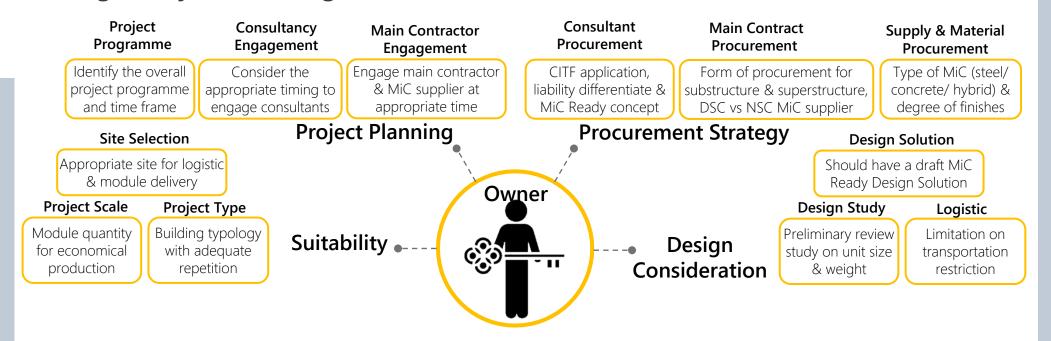
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Lime

With such great cost and time saving achievement for Wong Chuk Hang Student Hostel, we also expect saving at High West Site Development

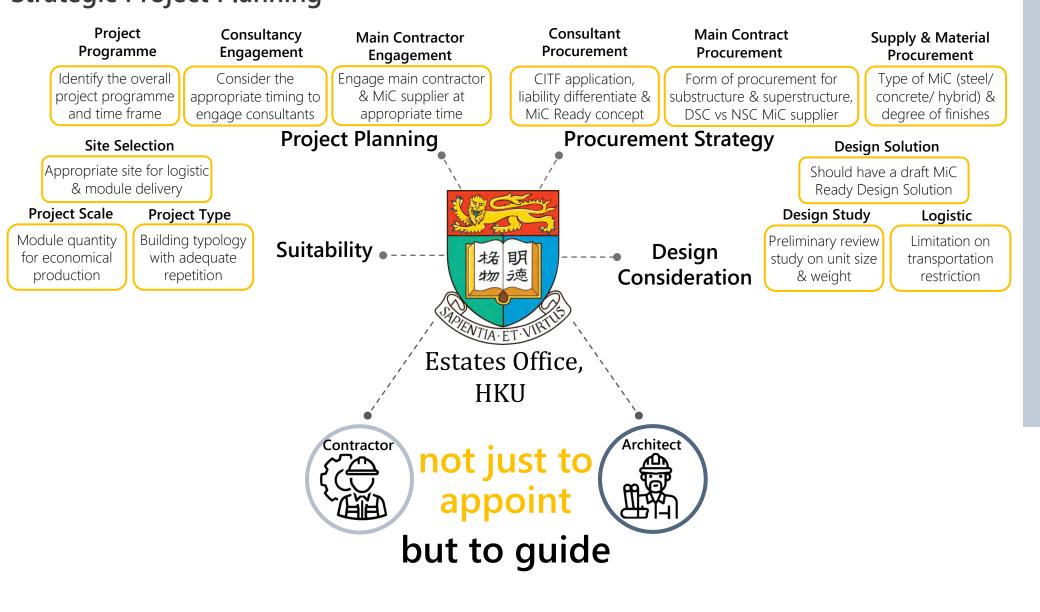


Guidance Strategic Project Planning



Owner should have knowledge in MiC because strategic planning starts right at the beginning

Guidance Strategic Project Planning



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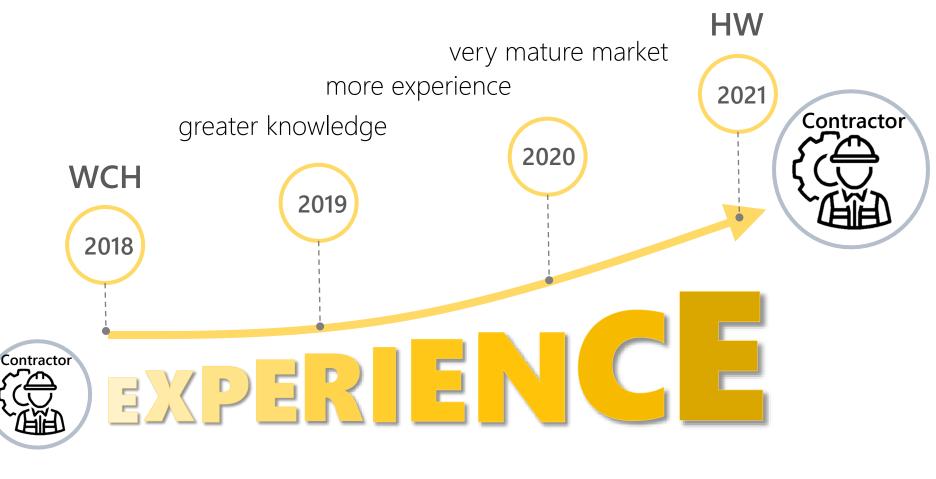
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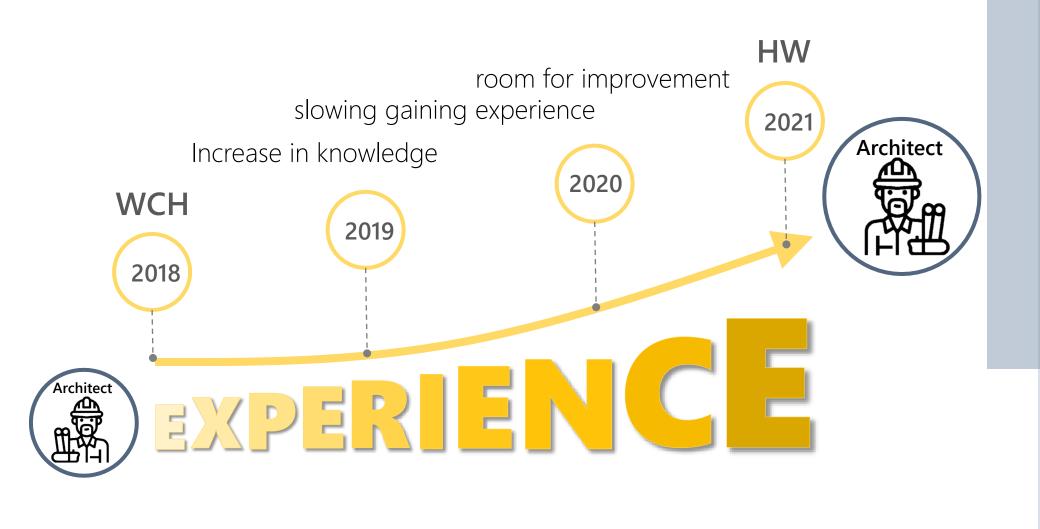
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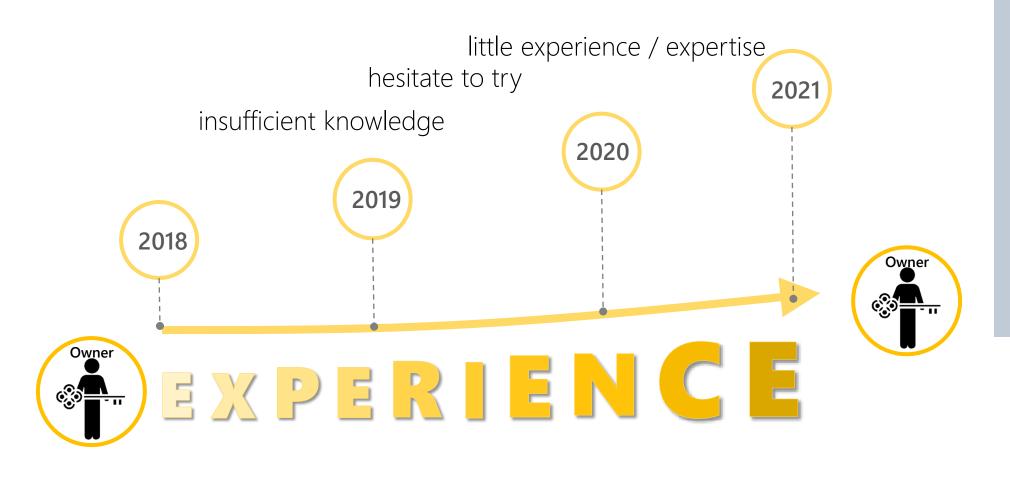
MiC Knowledge is required for all parties



MiC Knowledge is required for all parties

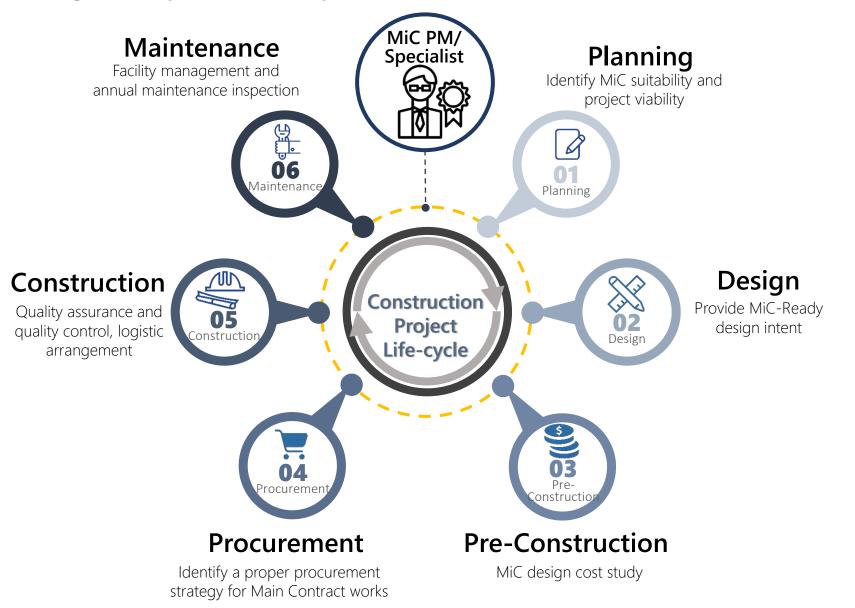


MiC Knowledge is required for all parties





The Market MiC Knowledge is required for all parties



MiC Knowledge is required for all parties

