

Technological and Higher Education Institute of Hong Kong 香港高等教育科技學院



Feasibility Study for the Relocatable Modular Integrated Construction in Facilitating the Redevelopment of Public Rental Housing

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INTRODUCTION

Projection of PRH estates' age from 2024 to 2034



CASE STUDY	Selected Case	Reason
	Nam Cheong 220	First relocatable MiC project in HK
	Pak Tin Estate (Older Part)	Real redevelopment project for reference
	Choi Hung Estate	Hypothetical project for the feasibility study



Fig 1: Projection for PRH estates' age from 2024 to 2034

Fig 2: Relocatable MiC module in Nam Cheong 220

Aging of Public Rental Housing (PRH) Estate will become a critical problem in the next 10 years. However, slow progress of redevelopment is always criticized by public. Building relocatable modular integrated construction (MiC) in open spaces can facilitate the redevelopment process.

OBJECTIVES

(1) To identify the difficulties and challenges of redevelopment of PRH

- (2) To examine the demand of tenants in redevelopment
- (3) To investigate the applicability of relocatable and

DESKTOP STUDY

- 8 8-8 INTERVIEW
- Maintenance Surveyors from Housing Department

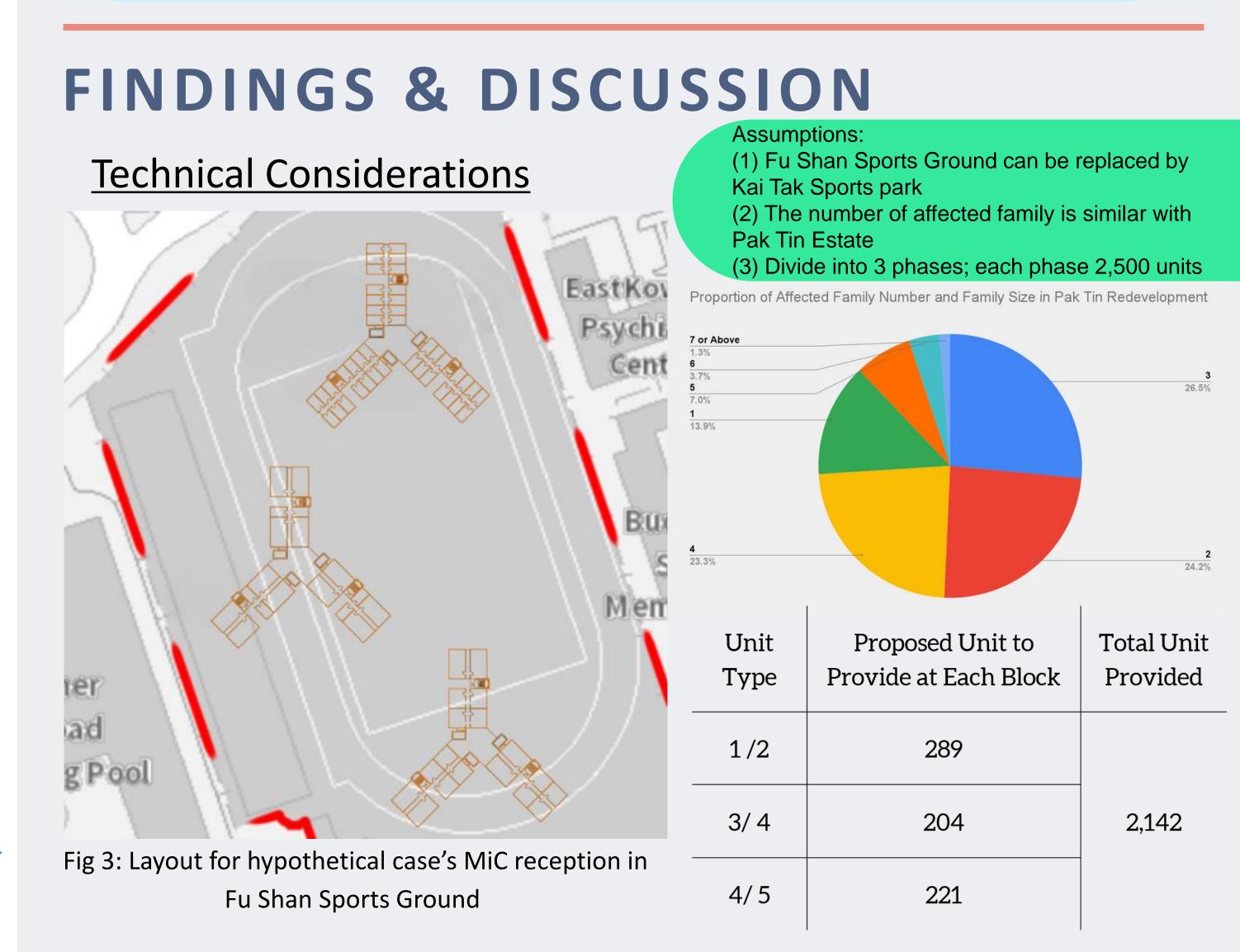
• Webinar by professional institutes in the related topic

1 Project Manager from POLYU JCDISI

• Facts from news and reports by scholars

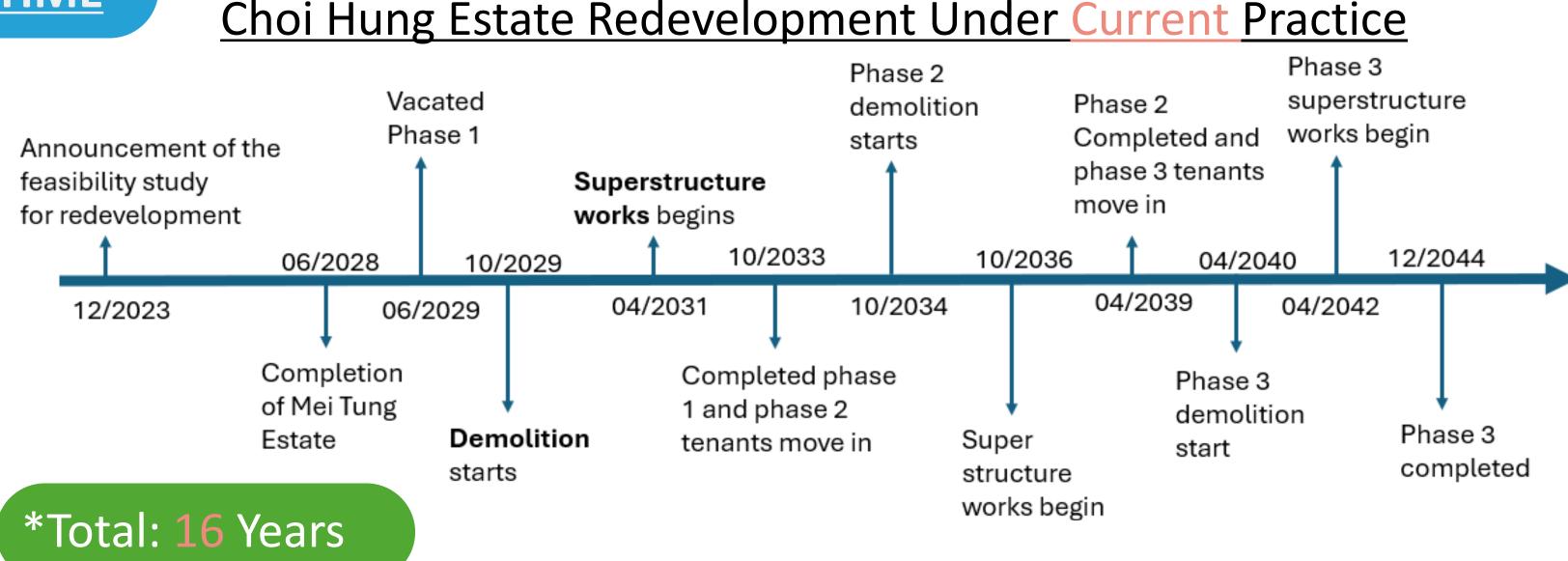
• Project data from the authority

Rounds of Interview conducted if necessary

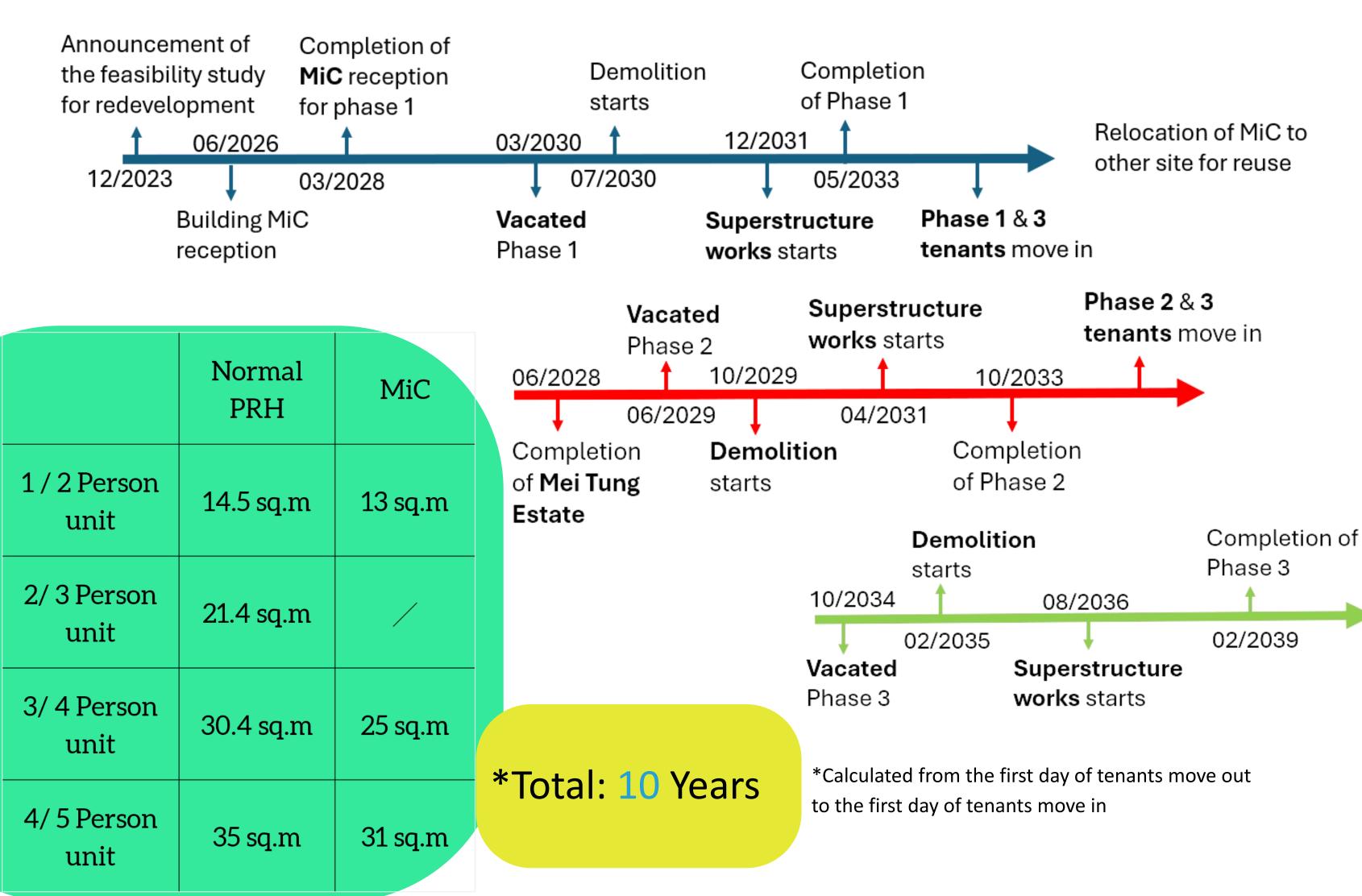


reusable MiC in the redevelopment of PRH estate in 4 aspects - (i) Time, (ii) Technical, (iii) Tenant Management and (iv) Cost Effectiveness

TIME



Choi Hung Estate Redevelopment Under Proposed Practice



POTENTIAL BENEFITS

- Building foundation can be reused for future new sports stadium or other development
- Large extent of building parts are relocatable

DIFFICULTIES AND LIMITATIONS







Objection by Public in Use of Open Space Deep Foundation but Temporary Use

dation but Construction Noise ary Use for Tenants

OTHER POSSIBLE WAY TO FACILITATE PRH

REDEVELOPMENT



Lower discount of Home Ownership Scheme
Free rent for elderly who are 65-years old
above if they agreed to move
Stronger check on tenants' assets

CONCLUSION

To conclude, relocatable MiC is feasible and able to speed up the time for redevelopment of PRH. However, there are still issues which may require further research.

