

## Ageing Smart in Smart City: Experiments of JCDISI in Tackling Double Ageing

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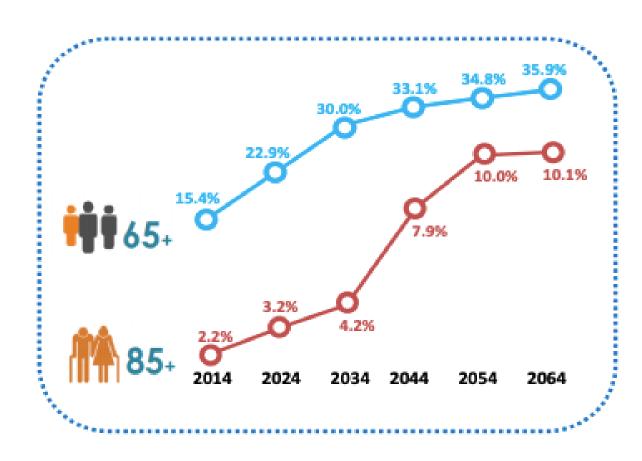
**Adjunct Professor, HKU & CUHK** 



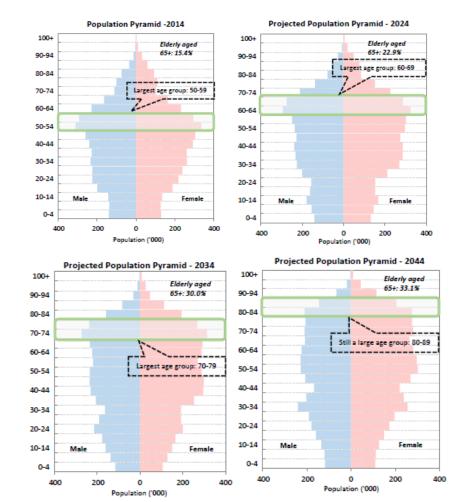


## "Double Aging" Phenomenon - an issue forewarned in HK2030+

## **Population Ageing**



## ☐ The bulge of the largest age cohort is projected to move upwards, from age cohort (50-54) to (80-84)







## "Double Aging" Phenomenon - an issue forewarned in HK2030+ Building Ageing

**Unique Complexity in Hong Kong Context** 

- Ultra-high building density
- Stratified ownership

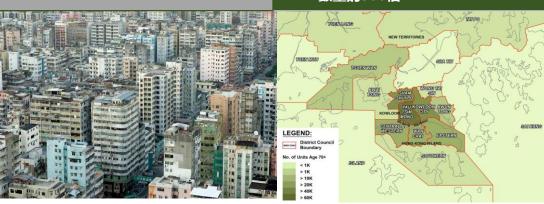
aged 70+ by 2046

☐ Age-friendly adaptation difficult

326,000 private housing units



2046年樓齡為70年或以上的私人 差不多相當於2015年同齡單位 住宅單位將達326,000個 數量的300倍















The 1956 legislation .... permit the buildings to cantilever over the street pavement or sidewalk and then rake back a maximum of 76 degrees as they rose .... This led to potential plot ratio of up to 20 in some spots.

Page 114 in "The Making of Hong Kong: From Vertical to Volumetric" by Barrie Shelton, Justyna Karakiewiz and Thomas Khan



Source of Photo: "Building Codes and Postwar Reconstruction in Hong Kong" by Prof. YC Richard Wong published in Hong Kong Economic Journal on 20 May 2015

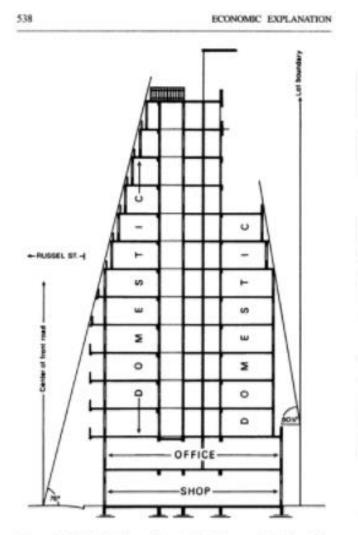
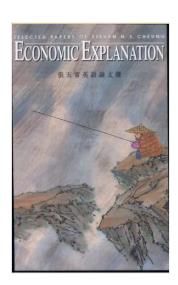


Figure 1: The Set-Back as Illustrated in Proposed Building Plan for Site 1.L. 29, Sec. X, Russel Street



19

Rent Control and Housing Reconstruction: The Postwar Experience of Prewar Premises in Hong Kong\*





## **Problems of Ageing Building Stock**



- Weakened and deteriorated building structure
- □ Serious problem of Illegal additions and alterations
- ☐ Poor management, lack of maintenance, poor sanitation
- ☐ Lack of elevator services among old buildings with seven to nine storeys
- ☐ The emergence of large amount of subdivided flats affects building safety
- ☐ Disappearing neighborhood network
- ☐ Lack of financial incentives for full reconstruction





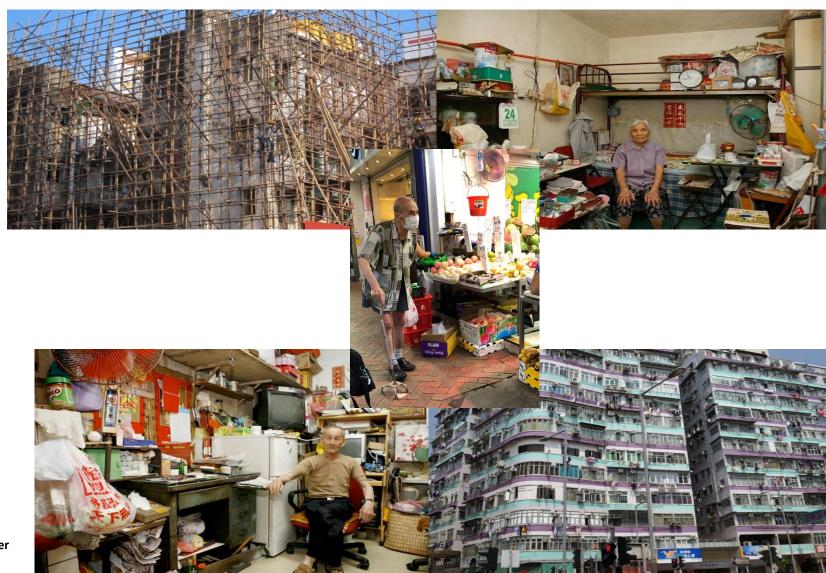


- ☐ Ageing is a long process.
- ☐ To a person, it is a process of diminishing functional abilities for self-care.
- ☐ To a building, it is a process of declining functional performance for its inhabitants

## Paradigm Shift -

Ageing should not be regarded as destructive tsunami

Enable Healthy Ageing of people and buildings opens opportunities for sustainable development of cities



KK Ling & Karen Lee, "Tackling Doubling-ageing with Double-smart", December 2019, Planning & Development, Hong Kong Institute of Planners





# Conceptual Framework for Implementing "Double-smart" Approach

## 實踐「雙智慧」 的概念框架

KK Ling and Karen Lee (2019) Tackling Double Ageing with Double Smart, HKIP Journal,

https://www.researchgate.net/publication/341270546 Tackling Double Ageing with Double Smart

#### Individuals 個人

Product & Service providers 產品及服務供應商

#### Developer 發展商

Estate Management 物業管理者

#### Developer 發展商

Government 政府

#### Government 政府

Participatory planning 參與式規劃

#### Smart Home 智能家居

- Smart design 智能化設計
- Assistive technology 輔助性科技
- Intergenerational co-living 跨代共居



#### Smart Building 智能建築

- Elderly-friendly design 長者友善設計
- Localised WELL Building standards WELL 健康建築標準
- Estate management 樓宇管理



Age-friendly Technology & Design 長者友善技 術及設計

#### Smart Neighbourhood 智能小區

- Neighbourhood walkability 提升小區易行度
- Public space reinvention 重塑公共空間
- Elderly-centric spatial distribution of amenities and services 以長者為本的設施及服務空間佈局



Smart mobility 智慧出行

#### Smart Community 智能社區

 Age-friendly Hong Kong Planning Standard and Guidelines 長者友善規劃準則



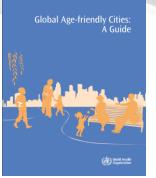
Key:

Hardware 硬件措施 Software 軟件措施











## 賽馬會齡活城市 Jockey Club Age-friendly City

Provided the most comprehensive district-base benchmark assessment and action plans to make Hong Kong an age-friendly city



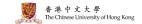




Initiated and funded by:



香港賽馬會慈善信託基金 The Hong Kong Jockey Club Charities Trust 网心同步问题 FIIDING HIGH TOGETHER Project partners:







香港大學秀圃老年研究中心

Sau Po Centre on Ageing









## POLYU JOCKEY CLUB OPERATION SOINO

理大賽馬會社創「騷·In·廬」





ONE FROM HUNDRED THOUSAND 「十萬分一」社創研討會





### **Role of JCDISI**

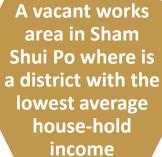
- ➤ Take Double Ageing as strategic focus
- Advocate Double Smart approach for action
- Knit network for transdisciplinary and crosssectoral collaboration
- Carry out social experiments from bottom up





## **Transitional Social Housing**

Three Selected Sites with different physical and social environment



Ma Wan Old
Village where
residents had
been relocated
but abandoned
village houses
reminded



An abandoned primary school in Stanley where is dominated by high income housing



- Breaks the dichotomy of private and public housing
- Beneficial use of idle land and housing resources
- Trans-disciplinary and cross-sectoral co-creation process
- Integrates the needs of residents and neighbourhood
- Pivotal element for community revitalization











## **Transitional Social Housing Action Project:**

Ma Wan Old Village











**Feasibility**: Can Ma Wan Old Village be revitalized not only just another "tourism and entertainment" project but a community development project for Hong Kong?

**Responses to Social Needs**: How can the reborn of Ma Wan Old Village be responsive to the pressing needs of both the society and its community?

**Sustainability**: With conservation and community building in mind, how can transitional social housing be a positive element to inject life and vibrancy in Ma Wan Old Village to rebuild a sustainable community?





### 原則及策略 Principle and Strategy









## Participatory Social Innovation and Cross-disciplinary Collaboration









## 為馬灣舊村注入新的社區形態 Inject New Form of Community

**Inject New Form of Community in Ma Wan Old Village** 

過渡性社會房屋/ 青年住宿 TRANSITIONAL SOCIAL HOUSING/ YOUTH HOSTEL 文化歷史步行徑

CULTURAL AND HERITAGE WALKWAY 藝術文化村

ART AND CULTURAL VILLAGE 可持續社區

SUSTAINABLE COMMUNITY 新增開放空間

CREATION OF NEW OPEN SPACE 下舖上居

SHOPHOUSE COMMUNITY FACILITY

社區設施







#### 建議總綱發展藍圖 Proposed Master Layout Plan

漁民新村的復修和古蹟保育:藝術村及漁民生活體驗館

Heritage Conservation and Restoration of the Ma Wan Fisherman's Village:

Artist Village and Fisherman Life Experience Centre



垂直分佈土地用途 (下舖上居) Vertical Land Use Mix (Shophouse)

加強連接性:

步行徑及觀景平臺

Connectivity Enhancement:

Walkway and Viewing Deck

新興組裝合成建築物 和社區空間

MiC New Building and Community Space

古蹟保育及地方營造: 九龍關遺址

Heritage Conservation and Placemaking:

**Commemorative Tablet** 



親水商業用途

Water-friendly Commercial Uses





**Ten Guiding Principles on Planning and Design of TSH Projects** 

CARE FOR THE NEEDS USERS

- ☐ Functionality
- Practicality
- **☐** Aesthetics
- Decency

**CULTIVATE SOCIAL** 

☐ Inclusive

CAPITAL

Neighbourhood

- ☐ Community Integration
- ☐ Cohesive Effort

OPERATION **SOIN (1)** 理大賽馬會社創「騷・In・廬」

POLYU JOCKEY CLUB

1·2·3

過渡性社會房屋 行動項目報告

TRANSITIONAL
SOCIAL HOUSING
ACTION PROJECT
REPORT







Transforming the deserted Ma Wan Old Village into a vibrant mixed-use community rather than just another business, tourism, entertainment and recreation project to be operated on "commercial basis"

**CONSIDER LONG-**

**TERM BENEFITS** 

**□** Sustainability

**☐** Relocatability

☐ Flexibility



An alternative planning scheme revitalising Ma Wan Old Village into a sustainable and vibrant community and a prototype for revitalising other deserted villages in Hong Kong







## **Elderly-friendly Work Environment**

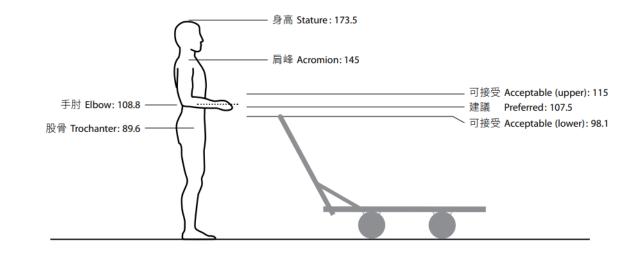
- **→** 3D (Dirty, Dangerous and Demeaning) jobs
- Empathy and care to elderly workers
- Listen to their pain points
- Design with grass root workers
- Safety, dignity and recognition





## **Waste-pickers**

- Age range: 60 to 90
- Meager income from collecting and re-selling recyclables
- Iron trolley
  - Bending over the backs often
  - Heavy
  - Insufficient loading space
  - No safety measures



大部份的文獻都建議把手的高度等於大約手肘高度 6 Most literature suggested that handle height should be around the height of elbows 6





參加者在分享自己的創新想法 Participants shared their innovative ideas



參加者用木板製作一個新手推車的原型 Participants uses plywood board to create a trolley prototype





### The New Trolley for Waste-Pickers

- □ Ergonomic consideration
- **■**More labour-efficient
- **☐**More safe
- **□**Easier control
- ☐Increase storage









## An inter-disciplinary design team







https://www.bbc.com/zhongwen/trad/chinese-news-50683765

本約三



### 老齡化香港的縮影:拾荒者蘭姐的故事

## ☐Ms. Wong

□Aged 68

## ☐ Intensely participated in co-design process

- > First-hand knowledge
- **▶** Pain points sharing
- > Testing the prototypes
- **≻** Constructive feedback

## Ms. Wong Waste Picker in Sheung Shui









月開展項目,着手設計和改裝回收手推車, 好販長者的勞動強度。關厚經落區截原,與





## Make the Kitchen as an elderlyfriendly workplace

- ☐ TWGH Chan Un Chan Third Age Volunteers
  Centre cum Community Kitchen
- ☐A community kitchen for the needy neighborhood
- ☐ Serving 100 to 200 meals per day for dine-in and deliver away
- □Operated by Third-aged workers and volunteers, enjoyed by Third-aged users











## **Co-creation Process**

Social Design Students, Professors, Practitioners, and Professional Design Consultant explore with kitchen workers, volunteers, service users, social workers and centre manager

## **Outcome**

Eight areas, over 100 items to improve the working conditions, operation process and services

**□**Layout & Furnishing

**□**Operational Routing & Logistics

**□**Labels & Signage

**□**Equipment

**□**Training

☐ Inspections & Records

☐ Menu and Recipe

**□**Incentives









凌喜勤在擔任規劃署署長期間,制定出 凌喜勤認為,若只把解決舊樓間

《香港 2030+ : 跨越 2030 年的規劃遠景與第 題的責任放在政府上,亦無助解決

略》・為香港長遠的土地及基建發展和自然環境 問題、「舊樓重建點都跟唔上老化速



人口居所「雙老化」「雙智慧」解決

前規劃署長獻計 活用科技新思維營運

經理鄭依依(左下)、社工徐 葉駿(右上)及服務助理池金

計院社會項目經理鄭依依,及其研究團隊便藉考察白田邨的社區廚房 運作,對改善膳深軒工作條件提出切實可行的設計建議,最終得出《年齡友善的社 區廚房實用指南》,期望為整體飲食業面對員工老齡化的挑戰帶來啟發,並減少長 者僱員未來在廚房工作釀成工傷的風險,學者建議香港二百多個社區經營的熱食服 務點及安老院舍參考採用

針對長者設計餐具設施 共建年齡友善廚房

理大賽馬會社創考察社區廚房「膳深軒」

■ 社會 05:31 2020/12/07 **並設好 0** 

(A+) (A-) (●) (● 闘注文章) (■ 儲存文章)















₩ 話者港人口老化,除了一些口號式的呼 因此由他帶領的香港理工大學賽馬會社會創 新設計院(JCDISI)以「雙老化」作為策略性工 署署長凌嘉勤認為,人口老化、建築物老化 作重點,提出以「雙智慧」,即「智慧安 問題人所皆知,但往往只作為兩個獨立議題, 老」和「智慧城市」,自2018年開展

忽略兩者帶來的複合效應「雙老化」,「居 「騷 • In • 廬」項目,並在白田邨 住環境同時影響長者生活質素」。現在的他 試行「社區廚房」,探索如何應對 希望化身倡議者,推動社會各界共同探討雙 問題(見另文)。

■本報記者 蘇文軒

個人 智慧家居

• 智能設計 •輔助技術

雙智慧概念

框架

以上」: 而本港樓齡在70年以上的私人住宅單 隨時間而改變的需求 位・將會在 2046 年増加 300 倍・主要集中在油 慧」方針・利用「智 尖旺、中西區、東區、深水埗等,同樣是居住人 及「智慧城市」應對 化」的嚴峻挑戰。智 技·延長長者自我照真

「由『大哥大』演像原

訓練管理員,協助看作

廬」其中一個關注項目是「關注長者就業」,項目研究選址 於深水埗白田邨「膳深軒」,並開發出「年齡有善的社區廚 房實用指南」,希望其他社區廚房採用外,亦希望餐飲業可作參 考,方便日益年長的員工繼續工作。凌嘉勤笑言,過程中發現原 來「不能直接話(年老)員工唔做得」,因此其學生要透過設計

白田「膳深軒」方便老友記工作

居長者家中可否安裝! 是結合建築物老化及人口老化的例子。

去8條人命的大火,亦再次揭露「三無大魔」, 要應引起討論,「好』為大前提,首要確保安全性,防止工傷意外及勞損,並根據經驗綜合成

膳深軒兼職員工池金玲是退休人士,現年60歲的她退休前亦是從事 嘢無 (工具) 幫手 | , 但現在 膳深軒經計劃提議改善, 例如開工前會有

建議食堂布局亦變得寬敞,亦特意為老年食客提供年齡友善餐具,包 括可豐曲的餐具、帶有輔助夾的筷子等。好

賽馬會伙理大生改造社區飯堂 設年齡友善餐具及坐 助飯友員工



社會新聞

撰文: 黃詠榆 () 2020-12-07 08:00 最後更新日期: 2020-12-07 08:00

▲ (程志遠攝)

理大賽馬會社創「騷·In·廬」其中一個關注項目是「關注長者就業」,項目研究選址於深水埗白田邨「膳深 軒」,並開發出《年齡有善的社區廚房實用指南》,希望其他社區廚房採用外,亦希望餐飲業可作參考,方便日益

### 口老化的舊區・他形容這是一個驚人增長。

保育,提供最新的發展策略。而他正是於研究過 度」。

程中・首次意識到人口與居所「雙老化」問題・

「到 2064 年·85 歲或以上人口(估算)會增 加5倍,即每10個香港人就有一個人屬85歲

居住在舊殘的建築物,好多都無電梯、走廊亦都 仍未算普及,凌以手机 狭窄得連輪椅無法推入,更莫說要面對漏水, 石屎剥落等問題。」不少人視為安居樂業的居 智能電話」、相信只備 所·隨時變成晚年的負擔。與此同時·按《香港 調空間。 2030+》推算。到 2026 年獨居長者住戶會增加 到整體的 23%,即佔全港四分一住戶,而安老 服務供不應求將進一步加劇・26年將會有1.8 萬個社區照顧服務短缺。因此「雙老化」帶來的 原則外·在樓宇營運 雙重影響,產生的是一個愈趨緊迫及嚴峻的社會

老化的創新解決方案。

凌嘉勤指出,一般私人樓宇是建築物老化 直接連接管理處?長 問題的癥結所在,「公共屋邨或大型私人屋苑, 立即跟進」。他強調 會有定期的維修保養,問題不大,但私人樓字缺 術,只待探討是否適合 乏全翰規劃」·在樓宇結構弱化·欠缺足夠財政 誘因全面重建等因素下、最終日久失修。

業權分散等問題,有意見要求政府加強跟進,惟 做唔到,應該攞出嚟棚 119 項短、中、長期建議。

智慧城市方面

凌嘉勤承認,如 難以避免會引發爭議

概念滿足員工實際需求。

#### 開發實用指南 設計保安全防工傷

白田邨是屬舊區之一,由1969年入伙至今已有51年,而根據

膳深軒是邨內的社區飯堂,主要由年長職工及第三齡義工

JCDISI 社會項目經理鄭依依表示,據 2019 年香港職業安全狀況統 計,餐飲業雖沒出現致命個案,但受傷個案就錄得4.425 宗,是各行業 舊棲問題向來複雜,最近油區地唐樓一場奪 私隱,財政問題,但 工業意外最多的工種。因此在項目上設計方向,以便利職員及義工工作

> 餐飲業,深諳餐飲業對年長職工的不便,「地面濕滑唔多講,有時搬重 熱身運動舒展,又加設通道扶手、改善送餐流程,大大減少受傷情況。

膳深軒社工徐葉駿亦大讚指南實用,除方便員工工作外,因應學生





## **Re-imagining Elderly Service Centre**

- > Paradigm Shift -- transform social welfare facility to social club?
- > Meet NOT ONLY the needs of the present elderly but also prepare for future elderly
- > Co-creation with elderly users with support by design anchors

香港聖公會麥理浩夫人中心林植宣博士老人綜合服務中心 HKSKH Lady MacLehose Centre Dr. Lam Chik Suen **District Elderly Community Centre** 



基督教靈實協會靈實長者地區服務 Haven of Hope District Elderly **Community Service** 



### 東華三院方肇彝長者鄰舍中心 TWGH Fong Shiu Yee Neighbourhood **Elderly Centre**







**Co-creating New Possibilities** of Elderly Centres

**Expect the co**creation process and the product outcome may be replicate for other elderly service centres



Trans-disciplinary and Inter-generational Collaboration

- **□ Elderly Centres Operators**
- **□** Social workers
- **□** Elderly members
- ☐ Professionals
  - IT experts, designers, architects
- **□** Enthusiastic youths





## 全方位活動報名及推廣電子平台

AN ONLINE PLATFORM THAT FACILITATES EVENT REGISTRATION AND PROMOTION

此長者中心經常發展創新活動,除了區內長者,亦希望招募其他地區的長者參與。不過,由於中心現有的宣傳手法未能有效接觸到他們的目標年輕長者,很多適合的長者都無法獲取這些創新活動資訊,或對這些他們未接觸過的活動作進一步查詢。共創團隊的預定設計方向是發展一個更配合現今長者行動習慣的宣傳和溝通平台,吸引他們留意中心創新活動的資訊。

This Elderly Centre often develops innovative activities. In addition to the elders in the district, it also targets elders from other regions in their recruitment. However, the current promotion method is not effective for the Centre to reach its target young-olds. Many elders who may be interested in the innovative activities are not exposed to the information. Therefore, the direction for Group A is to develop a platform for the Centre to advertise their programmes and communicate with potential users, encouraging them to join the innovative activities.

#### 設計觀點:長者中心需要有效宣傳、推廣和讓會員查詢活動的方案,因為:

- 1. 長者中心向現有會員發放資訊的手法不夠全面
- 2. 現時中心接觸不到需要創新活動的長者
- 3. 部分長者未有發現自己對創新活動的期望和需要

#### Design Point of View:

The elderly centre needs an effective platform for promoting their activities because

- current approach of distributing information to members is incomprehensive,
- 2. the Centre cannot reach elders who want innovative activities, and
- 3. some elders fail to discover their expectations and needs for innovative activities.

#### A斜

### SoMeLa

全方位活動報名及推廣電子平台

如何吸引新會員,從而:

(長者)知道何時可以報名、名額(有無位)、容易找 到自己感興趣的活動

(同工)不用逐個長者及放訊息(WhatsApp)、知道 宣傳成效、可以讓長者分享內容

#### 目標對象需求

對象:50-75歲/活躍/行動能力高/有動力學習

宣傳(Competition Event) / 有趣 / 新鮮課程 / 找不到自己感興趣的活動 / 不用親到中心才知道幾時可以報名和有無位

#### 測試過程及發現

#### 測試/反應:

QR Code -> Facebook (成功)/長 者用手機及QR Code的情況(fb不是 大部份長者都用,未必有QR Code Scanner / T-shirt 設計+海報設計 (加入文字在QR Code旁,加入公仔)

#### 新發現:

- (1)要有Landing Page,多方法獲 取資料
- (2)可利用年青人(孫)幫助宣傳
  --> T-shirt Competition Event

#### 這個方案改變了什麼?

年輕長者能被教育使用社交平台影 響長者使用智能電話

創新地方:

線上線下參與平台









## Outcome: Aged-friendly digital platform







## 便利會員自發組織活動的機制

A MECHANISM THAT ASSISTS MEMBERS IN **SELF-ORGANISING ACTIVITIES** 

#### 設計觀點:

長者中心需要促進長者參與組織中心活動的方案,因為中心能夠透過 長者的自發組織活動,建立良好社區連繫網絡,舉辦更貼切長者需要 的服務。

#### Design Point of View:

The Elderly Centre needs a solution that can facilitate members to organise activities for their own. This can help building social connection among the elders in the community, and enable the centre to provide elders activities that suits their needs better.

## 活動搞手試煉場



- 未來的長者教育水平提升、能力改善,所以要求更高。
- 口味多元化,從長者的角度去滿足長者更為有效 長者能找到定位,發揮所長,繼續為社會作出貢獻

#### 中心需求:

- 長者數目增加,口味更多元性,更需要由長者自發適合自己
- 希望鼓勵長者由被動接受服務的角色變為主動策劃籌辦活動
- 透過中心能令長者發揮所長,積極老年化

- 現時來中心的長者習慣參加活動而並非組織活動
- 無論對中心職員或長者會員,自發組織活動的方法和機制不清晰
- 長者自發組織活動的能力和信心不足

#### 測試過程及發現



勝初雲機制 (idea) 製作2 帳短片 ● 到中心向15位會員 (委代) 分享短片 以小組形式 (focus group) 診鎖收集對











但希望中心有多些支援



- 3) 需加強中心與委代之溝通 • 雲明確中心的定位及方向
- 4) 増加了雙核心的溝通 (feedback loop) 中心同事共同商討和確定服務定位及共同
- 中心難目和為委代(會員)定期進行會議

#### 這個方案改變了什麼?

#### 1) 長者/會員自發活動

-不草是服務使用者,還可以是有言意 -建立相向開放性美速氣氛 幫助會員和中心有更良好薄瘦 使會員直接關係更融洽 亦使中心職員能共同討論願景及精神。 建生理想中心 : 鹽中心有 "家" 的感管

"雙核芯灣這模式" (Feedback Loop) 整個過程不斷消過・反思・改良的方案



#### 最後方案和實行計劃的步驟(時間表)









ORDINAMENT.











FEEDBACK 演 LOOP

●共同建構顯景Shared Vision(1月)

健明∞ 歩曲 8 STEPS

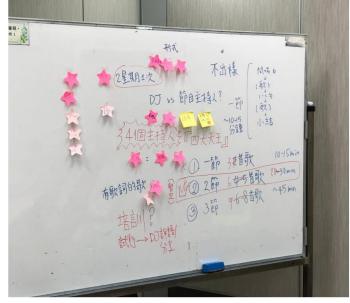
- ●委任Deployment (3月)
- 宣揚Promotion (4-5月) ●策劃Planning (4-5月)
- (第一期8-10月·第二期11-下午3月)
- ●雙核心溝通Feedback loops (第一期8-10月·第二期11-下午3月)





**Outcome:** An online radio programme hosted by the elderly members









## 促進中心與會員溝通的方案

### A STRATEGY THAT PROMOTES THE COMMUNICATION OF **MEMBERS AND STAFF**

長者中心會負責把不同政府部門和計福機構的最新服務資訊或相關資源,發放給會員和所屬地區的長者。 不過,這些服務資訊或資源的發放並不定時,很多時未能配合中心的月會或通訊發佈日程,而且只有很短 的時間讓中心宣傳。加上中心大部份年老會員仍未有使用智能手機的習慣,中心難於透過網上平台讓他們 堂握最新資訊。共創團隊的預定設計目標為創造簡單而有效的資訊發放方案,針對宣傳時間較短的事務, 避免這批年老長者錯過合適活動和服務的機會。

The Elderly Centre is responsible for disseminating latest information about activities and related resources from the Government and other NGOs to members and elders living in their areas. However, this kind of information usually releases irregularly. It cannot be released together with the monthly magazine of the Centre, leaving very limited time for advertising work. In addition, since most of the members in the Centre are not used to smartphones, building an online platform can hardly assist them in receiving the latest news. Therefore, the direction for Group E is to design a solution that is simple and effective for releasing both regular and urgent information to elders, so that they will not miss the activities and services that are suitable for them.

#### 設計觀點:

長者中心需要更有效發布資訊的渠道,因為會員未必經常到長者中心閱讀最新服務海報。

#### Design Point of View:

The elderly centre needs an effective channel for distributing information because members may not visit the Centre and read the latest posters frequently.

## 宣傳易

將現有事物重新整合,便能大大提升宣傳效 力,達到"宣傳一大步"!

#### 日極對象

- 鐵字及不識字







會員及中心職員: 1) 清晰集中的活動資訊展示方式 2) 簡單有效的宣傳位置

不識字的會員: 非文字的活動資訊的發放方式

中心職員

發放消息的主要渠道有限: 欠缺位置欄放所有活動資訊

政府部門和其他中心的活動宣傳期很短,展示期較緊急,難以安排

中心大部分年老會員未有使用智能手機習慣

#### 測試過程及發現

#### 如何測試 · 兩款海報設計配置

- 中心内的不同位置: 總·權面·電視機

- <u>測試結果</u> ・大海報較吸引長者閱讀
- 圖畫顯示活動資訊
- 日期置於左上角有助閱讀 活動名稱及性質為主要資訊
- 一張海報顯示一個活動資訊最為簡潔

#### 震要尼修改的地方

- 宣傳海報設計:
- 白底、颜色具鲜明對比 增加文字行距
- 活動展示方式及位置
- 張贴高度廣為胸口以上 茶水間位置張贴活動資訊
- 放置月會通訊於接待處,以留空位置
- 緊急活動資訊張貼於通道位置

作非文字·多感官·互動宣傳方式

重新編排電視機版面,吸引會員注目



MAC ST STREET

#### 這個方案改變了什麼?

清晰的分類去展示海報・以突顯活動的緩急 節省漢誦時間·滅低工作量

#### (B) 老友記行為

- 清晰知道活動資訊所在: 易歸 易搵 易問活動資訊
- ·感到有趣·從而增加詢問的自發性

- 宣傳渠道: 多元化・多感官
- 運用吉祥物·容易令用家(長者)喜愛
- 鼓勵長者自發查詢

#### 最後設計









#### 海報設計

· 多圖少字 · 一目了然

集中・分類・張貼在注目位置

利用其動態畫面及顏色·突顧重要活動

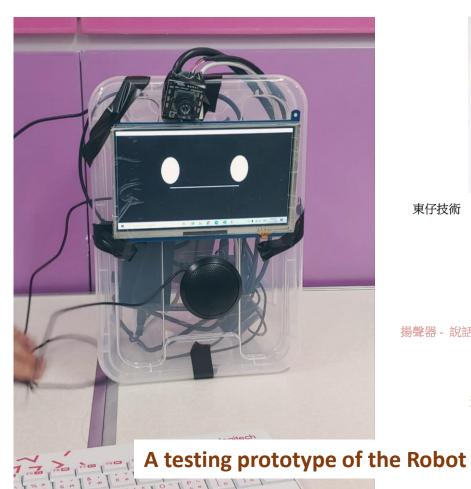
互動公仔・提升注意度・多感官接觸・令不

識字的長者能接收活動資訊・減省人手



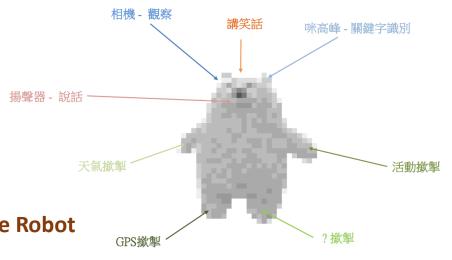


## **Outcome: A communicative robot** with characters to build the rapport











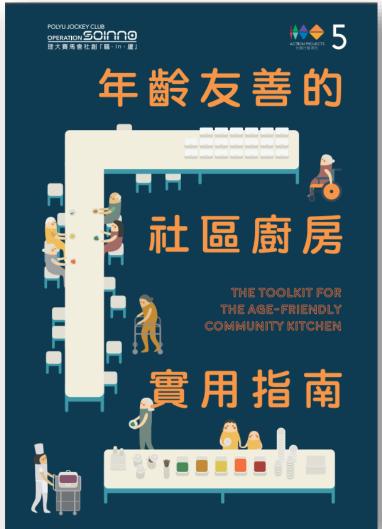
**Elderly members co-created** the appearances of the Robot

















## **Create Intergenerational Play Space:**Support Ageing in Place, Active and Healthy Ageing

- ☐ Improve Public Space as a Social and Public Health Investment
- Advocate a change to design and management mindset from age segregation to age integration
- Encourage outdoor physical activities for elderly
- ☐ Trans-disciplinary and cross-sectoral collaboration:Play + Health + IoT
- ☐ Enable carrying out of longitudinal research on physical and mental wellbeing of elderly





Human-centric Design

IG play park design concept

Participatory
Co-design

Multi-disciplinary

Smart Ageing & Smart City

Knowledge Transfer









## <u>6</u>

## Design Considerations for "Intergenerational Play Space"

## IG Play Space Co-creation workshops & Symposium 2019

### 1 SPATIAL INTEGRATION

Integrate play equipment designed for users of different ages in the area. Replace hard boundaries with soft boundaries, such as replacing fences with colours.

## 2 "AGE-NEUTRAL" DESIGN

The use of multi-purpose, age-neutral design will increase the facility provision and promote intergenerational interaction and more efficient use of space.

## 3 INTERGENERATIONAL PLAY EQUIPMENT

Encourage intergenerational interaction with equipment combining elderly fitness and children play.









## 4 MAKE USE OF UNIQUE SPATIAL CHARACTERISTICS

Interactive features such as chalkboards can be integrated into vertical walls; nets and climbing rocks can be placed between winding trails to offer more opportunities for interaction.

## 5 MAKE USE OF AVAILABLE TECHNOLOGY

Users of all ages can benefit from technology such as digital and interactive games, health tracking or augmented reality (AR).

## **6** USER-CENTRIC MANAGEMENT

Understand the community's needs to enable more considerate public space management and design.

















行動項目協辦機構



### **Entries Breakdown**

### **Professional Category**

- 18 teams
- 83 participants
- 6 final submissions

### **University Category**

- 59 teams
- 286 participants
- 34 final submissions

## **Most Popular Entry by Public Voting**

- Public voting period: 19th-26th October, 2020
- 10,833 votes (95% online votes, 5% resident votes)

< BACK



### **Intergenerational Play Space Design Competition**

#### **Professional Category Public Voting**

Please select your favourite design scheme. The design scheme with the most votes in EACH category will be awarded the "Most Voted Award" certificate. You may vote ONCE in the Professional Category and ONCE in the University Category.

Voting Mechanism: Online Public Voting x50% + Vote from PG residents x50% = Total Vote

#### **Public Voting Rules**

- Vote will not be counted towards the total vote if it has not been submitted before the end of voting period.
- The result of the public voting will only indicate public interest in any given proposal. Voter shall not guarantee the design will be delivered, and that JC and HKHS shall not be responsible for the subsequence funding.
- · In case there is any dispute, the competition organiser reserves the rights of final decision.



P101

"Under the Same Roof" -Connected Intergenerational Play



P102

Imagine with Senses - The Play Space of Serendipity



P103

crXscape Park at Prosperous Garden



Ripple - Theater of Life



Play Space ALIVE



P106

We-semble







- ☐ Create a park environ to increase elderly users' confidence and incentivise them to take more outdoor physical exercise
- ☐ Reinforce the positive behaviour of the elderly users by showing evidence of their improvement
- ☐ Turn undulating terrain a positive element by design
- ☐ Produce a prototype for implementation at site and replication in other parks



Existing outdoor fitness equipment to be replaced / upgraded









## **Concluding Remarks:**





## J.C.D!Si 實際社會創新設計院 is carrying out a series of social experiments --

- Design thinking-led
- > Evidence-based
- > Deploy trans-disciplinary knowledge
- > Engage cross-sectoral collaboration
- > Advocate mindset change and policy change
- > Prototype innovative and pragmatic solutions
- Pursue implementation, replication and scalingup





## Conceptual Framework for **Implementing** "Double-smart" Approach

實踐「雙智慧」 的概念框架

KK Ling and Karen Lee (2019)

## Tenalised WELL Building standards WELL 健康建築標準 TenantK管理OU

