



Gerontechnology in Medical-Social Collaboration: Present and Future

Dr Vivian W.Q. LOU

Director, Sau Po Centre on Ageing Associate Professor, Department of Social Work and Social Administration The University of Hong Kong

AGENDA

01 SUPER-AGEDHONG 02 STRATIFIED CARE NEEDS



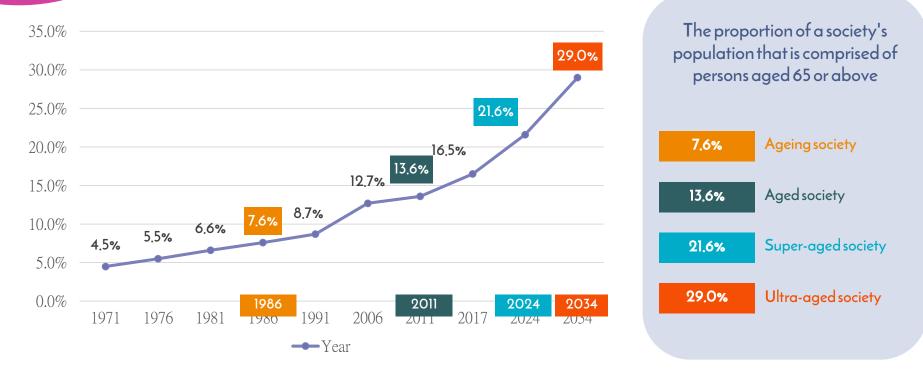




Ol Population Ageing in Hong Kong



Towards Super-aged & Ultra-aged Hong Kong



Source:

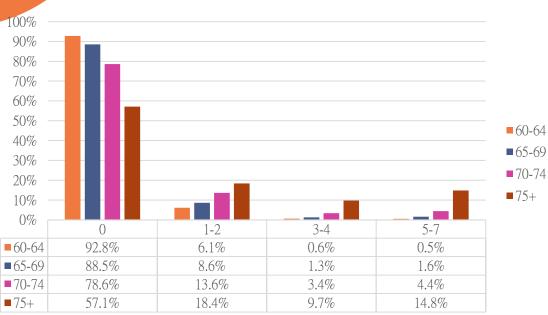
Census and Statistics Department. (1991). Hong Kong 1991 Population Census. Retrieved from Hong Kong: https://www.statistics.gov.hk/pub/hist/1991_2000/B11200711991XXXXE0100.pdf Census and Statistics Department. (2007). Hong Kong Population Projections 2017-2036. Retrieved from Hong Kong: https://www.statistics.gov.hk/pub/B102007XXXB0100.pdf Census and Statistics Department. (2020). Hong Kong Population Projections 2020-2069. Retrieved from Hong Kong: https://www.statistics.gov.hk/pub/B102015082020XXXXB0100.pdf O Connor, S. (2014). World will have 13 super-aged nations by 2020. Financial Times. Retrieved from Https://www.ft.com/content/f356/8a0-1d8c-11e4-8f0c-00144feabdc0



02 Stratified Needs



Health conditions and Independent living



Older persons by level of IADL impairment and age

Instrumental Activities of Daily Living (IADLs)

- Using the telephone
- Shopping
- Preparing food
- Housekeeping
- Doing laundry
- Using transportation
- Handling medications
- Handling finances



Health conditions and self-care capability

65-69

-75+

100% 90% 80% 70% 60% 50% 60-64 40% 30% ■ 70-74 20% 10% 0% Level 1 Level 2 Level 3 Level 4 60-64 98.70% 1.00% 0% 0% 65-69 0% 96.90% 1.80% 0.90% ■ 70-74 95.20% 2.80% 0.80% 1.30% **75**+ 85.20% 9.20% 1.90% 3.70%

Older persons by level of ADL impairment and age

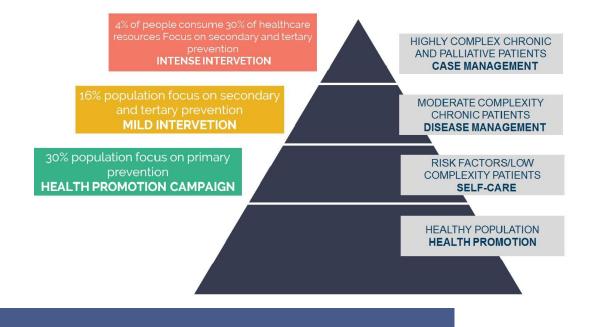
Level of ADL impairment	Number of ADL that could not be performed independently
Level 1	0
Level 2	1-2
Level 3	3-4
Level 4	5-6

Activities of Daily Living (IADLs)

- Feeding
- Continence
- Transferring
- Toileting
- Dressing
- **B**athing



Needs Stratification Strategy in Medical-Social Collaboration

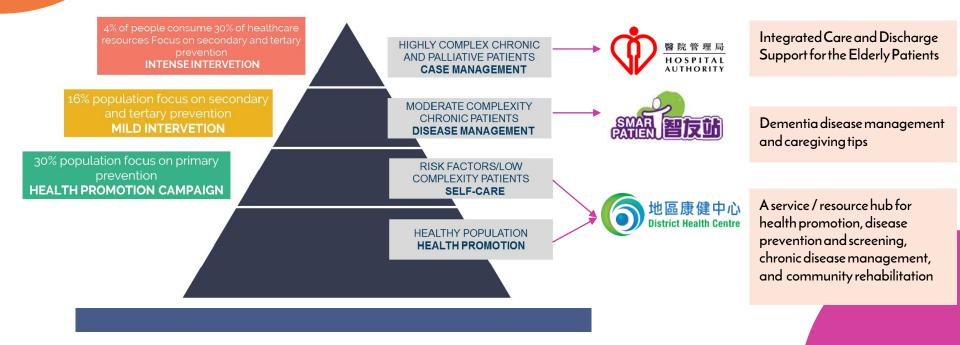




O3 Tech-enabled Medical-Social Collaboration

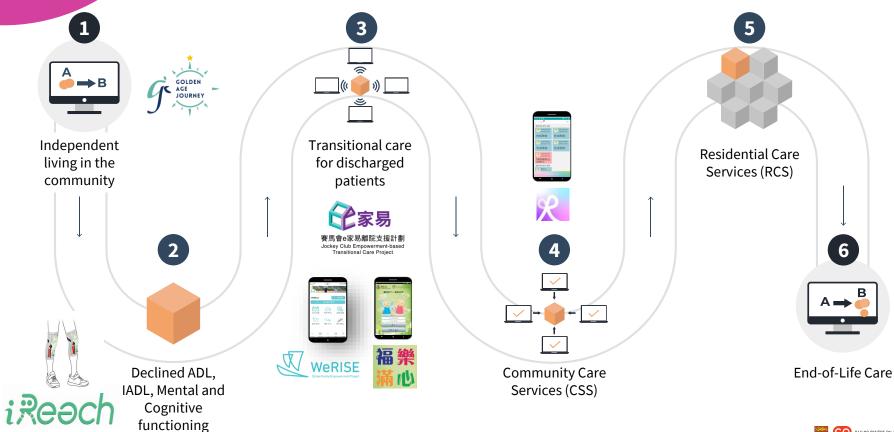


Risk Stratification Strategy in Medical-Social Collaboration





From Self Care to Shared Care



SAU PO CENTRE ON AGEING, HKU

Shared Care - Intelligent Robotics for Elderly Assistance



A Novel Development Approach: User-Centric Co-Creation (UC³)

User centric

Matching user needs in the physicalpsycho-social context



Co-creation

Multidisciplinary team co-creates with users of older adults and caregivers



Iterative cycles

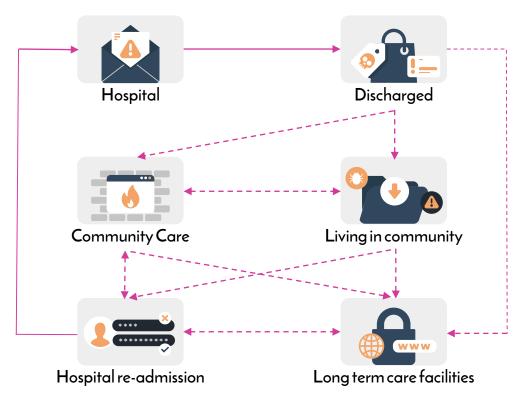
Iterative process of need assessment, engineering development, and user evaluation





Transitional Care

Promote safe and timely passage of patients





計劃內容

香港是全球預期壽命最長的地區。 年齡指長或多或少伴随急性 或慢性疾病,相對增加長者的住院風險。研究發現,反時及有 針對性的難院支援計劃不僅能強化康復,還能避免不必要的重 複入院,減輕醫療及家庭負擔,提升生活品質。在香港要馬會 慈善信託基金的揭助下,香港大學秀國老年研究中心聯同三閣 非牟利社福機構(基督款靈寶協會、香港聖公會麥理浩夫人中 心、香港書康老人福利會),推行「壽馬會e家易聽院支援計 劃」。本計劃致力透過嶄新的服務模式,全方位協助離院長者 及其家庭照顧者,為其提供專興的社區復康支援,以違至最佳 的照顧安排。

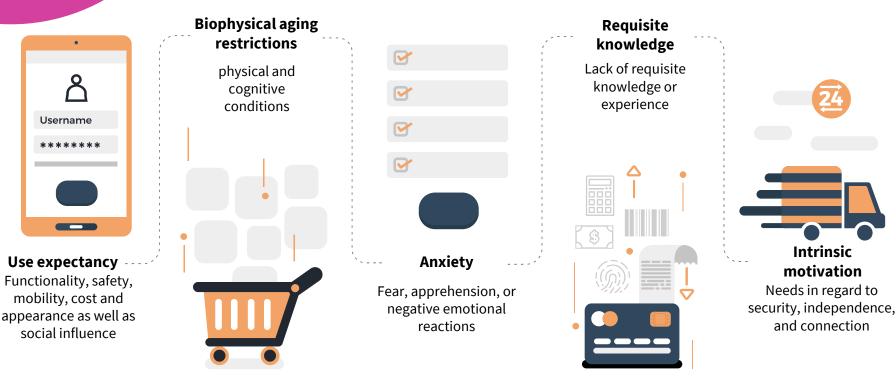
https://jcetc.hk/



O4 Looking Forward



Major Factors Influencing Attitudes Towards and Intention to Use the LDC technologies





THANKS



SAU PO CENTRE ON AGEING, HKU 香港大學秀圃老年研究中心



2/F, The Hong Kong Jockey Club Building for Interdisciplinary Research, 5 Sassoon Road, Pokfulam, Hong Kong



(852) 2831 5210



<u>ageing@hku.hk</u>



ageing.hku.hk

