Designing Age-friendly Cities

Archi-puncture for Ageing-in-Community, Active Living and Dementia Inclusivity

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Singapore University of Technology and Design (SUTD)

The Singapore University of Technology and Design (SUTD) is Singapore’s fourth public university, established in collaboration with the Massachusetts Institute of Technology (MIT) to advance knowledge and nurture technically-grounded leaders and innovators to serve societal needs. Also in collaboration with Zhejiang University and Singapore Management University, SUTD, a research-intensive university and a pioneer in design-centric, interdisciplinary education, is focused on identifying and analyzing real-world problems, and coming up with comprehensive, systematic, and practical solutions.

Led by Associate Professor Dr. Chong Keng Hua, Social Urban Laboratory (SOULab) is a design research lab based in SUTD, focusing on evidence-based design for health, equity, agency and life, through investigating the relationships between people and the environment. Our research interests include demographic shift, healthy longevity, placemaking, place-keeping, asset-based community design, and other emerging urban phenomena. Based on extensive design ethnographic studies and participatory action research, we aim to develop a new design framework that shift the paradigm from urban design to “urban life design”, towards a long-term vision of social sustainability.
1 in 4 Singaporeans will be seniors aged 65 and above by 2030.
1 in 3 Singaporeans will be seniors aged 65 and above by 2050.
Please return my flowers that you had taken. Otherwise something will happen to you.

Thank you.

Please don't take away any plant from here.
Research & Design Framework

- Asset-Based Development
- Design Ethnography
- Social Architecture
- Community Design

- Place-making
- Co-Creating
- Place-keeping

- Qualitative Studies
- Data Analytics
- Participatory Analytics
- Co-Learning
Design Ethnography
Case Studies

CREATIVE AGEING CITIES
PLACE DESIGN WITH OLDER PEOPLE IN ASIAN CITIES

Edited by
Keng Hua Chong and Mihye Cho

Singapore
Japan
South Korea
Design Ethnography

Uncovering the New 5Cs that Seniors Need (Scharlach, 2016)

- **Continuity**: Maintain established social patterns
- **Compensation**: Meet basic health & physical needs
- **Connection**: Meaningful interpersonal interactions
- **Contribution**: Make positive impacts on others
- **Challenge**: More physical, intellectual & social stimulations

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Ageing-in-Place | Age-friendly | Active Ageing

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- Home-bound Independence
- Universal design Design *For*
- Community-enabled Interdependence
- Adaptive design Design *With*
Smart Void Deck
HDB Community Living Room
New Horizon
ADA Dementia Day Care
Design Approach
For Ageing-in-Community

**DE-INSTITUTIONALISE**
Bring healthcare down to community level

**DE-LOCALISE**
Break away from location-based, move towards more interest- or cause-based social spaces

**DIFFERENTIATE**
Segment personal care from medical care, create new living models within community

**DEVELOPMENT**
Focus on self-development & growth, mutual support among seniors and across generations
“ARCHI - PUNCTURE”
TOUCHpoint
Archi-puncture for Ageing-in-Community

1. Blurring of indoor and outdoor spaces
2. Adaptable pockets for changeable programs
3. Open 24/7 to allow continuation of everyday life
4. Transforming carparks into community garden
PROJECT 1

TOUCHpoint
Archi-puncture for Ageing-in- Community

Photo: Oddinary Studio
### Pelatok Art Farm
Archipièce for Mental Wellbeing

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<th>SOFTWARE</th>
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PROJECT 2

Pelatok Art Farm
Archi-puncture for Mental Wellbeing

[Images of people engaging in outdoor activities, including gardening and art projects.]
Lighthouse
Archipi-ncure for Dementia Inclusivity

Uncle Lim, 84
Lives with his wife and helper
Used to do tai chi at the park
Was a hawker for 25 years

Mrs Tan, 60
Lives with her husband, son & helper
Was a successful salesperson

Madam Quek, 70
Lives with her daughter
Has stayed in her flat for 40 years, hardly leaves home

Madam Lee, 76
Lives with her helper
Worked as an accounts assistant before retiring in 80s

Mrs Goh, 76
Lives with her husband
Downsized to current flat 5 years ago

Madam Tay, 83
Lives with 2 helpers and children will rotate staying over daily, fluent in Malay

Madam Poh, 80
Lives with daughter & helper
Housewife for decades Quiet & introverted

Madam Chan, 82
Lives with her daughter in a multi-generational home Likes to be physically active

Madam Ho, 82
Lives with grandson & helper
Volunteered at AWWA for 8 years

Madam Wee, 76
Lives alone
Diagnosed 3 months ago Remains independent

*Names have been changed to protect the privacy of the interviewees
Lighthouse
Archi-puncture for Dementia Inclusivity

- Safe
- Legible
- Familiar
- Accessible
- Purposeful
- Delightful
- Choice
- Adaptable
- Companionable
- Engaging
- Comfortable

Essential Prerequisite of Neighbourhood Perception
Mental Map of Paths of Least Resistance
Attractors to Come Out of the House
Enablers to Live in the Moment
Reasons to Carry On
Lighthouse
Identify purposeful and familiar community spaces that are engaging and make them even more adaptable and delightful for PLWDs and caregivers.

Buoy
Create accessible pockets of comfort at selected decision points e.g. junctions, that aid legibility and sense of safety.
Lighthouse
Identify purposeful and familiar community spaces that are engaging and make them even more adaptable and delightful for PLWDs and caregivers.

Buoy
Create accessible pockets of comfort at selected decision-points e.g. junctions, that aid legibility and sense of safety.
PROJECT 4

Recharge
Arch-i-puncture for Active Living
Recharge
Archi-puncture for Active Living

Transform waiting time into 20-30 minutes active time per day

Desired outcome: to achieve 150-300 minutes of moderate activity in a week

*Weekly recommended guidelines by Health Promotion Board 2022
You have completed 80% of your exercise daily goal

Daily Challenge

Insights

My Vouchers

$5 Fairprice voucher
$5 coins

$5 Fairprice voucher
$5 coins

$5 Fairprice voucher
$5 coins
Thank you!

Research & Design Team:
Sofia Foo, Natasha Yeo, Lim Aunn Ning, Lun Ci Min, Cheng Sin Mei, Summer Ha, Denise Nicole Lim, Neo Sze Min, Kanchana, Sokkalingam, Yohei Kato, Chloe Gao Tongchaoran, Tan Zi Hua, Low Si Hong, Diane Lee, Kang Fong Ing

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