

CRAZY RICH

LESSONS FROM SINGAPORE



Design for Aging

 AIA Knowledge Community

The mission of the AIA **Design for Aging** (DFA) Knowledge Community is to foster design innovation and disseminate knowledge necessary to enhance the built environment and quality of life for an aging society.

CONTINUING EDUCATION CREDITS

Earn 1 AIA LU/HSW

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QUESTIONS?

Submit your questions through the Q&A pod at the bottom of your screen.

Content-related questions will be answered during the Q&A portion as time allows. Any questions not answered during Q&A, will be answered and posted online within two (2) weeks.

Tech support questions will be answered by AIA staff.

AGENDA

- Introduction
- Singapore
- Kampung Admiralty
- Smart Cities
- Bringing Intergenerational Living to the U.S.



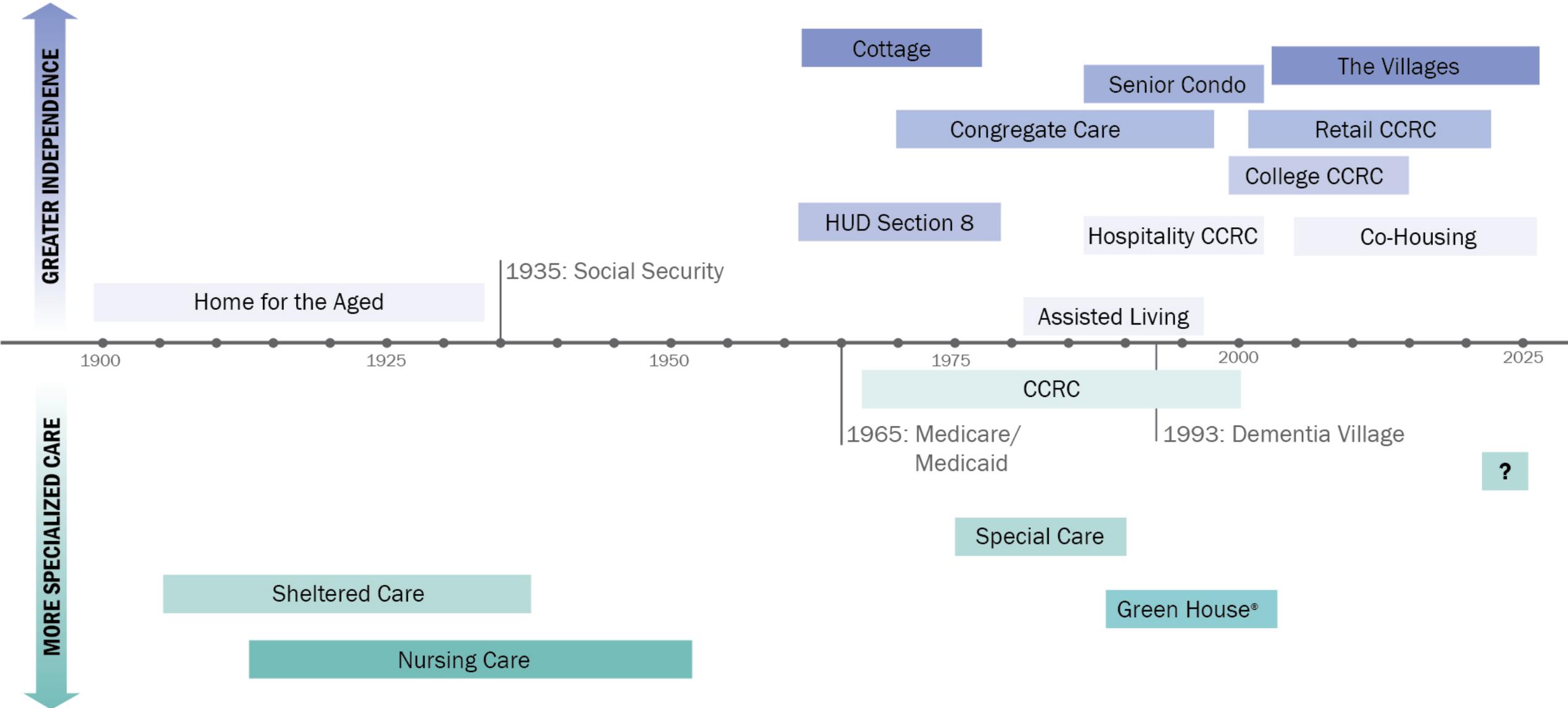
LEARNING OBJECTIVES

1. Learn how Kampung Admiralty revitalized the traditional “village” typology to create an innovative and new kind of senior living community in Singapore.
2. Identify the specific program elements combined in Kampung Admiralty that make it a stellar example of successful urban planning, social engineering, and biophilic design.
3. Hear about how the world’s smartest city helps take care of its aging population through use of cutting-edge technology and innovative problem solving.
4. Analyze how the lessons learned from Kampung Admiralty can be translated to the United States

SPEAKER INTRO



HOW THE SECTOR HAS EVOLVED



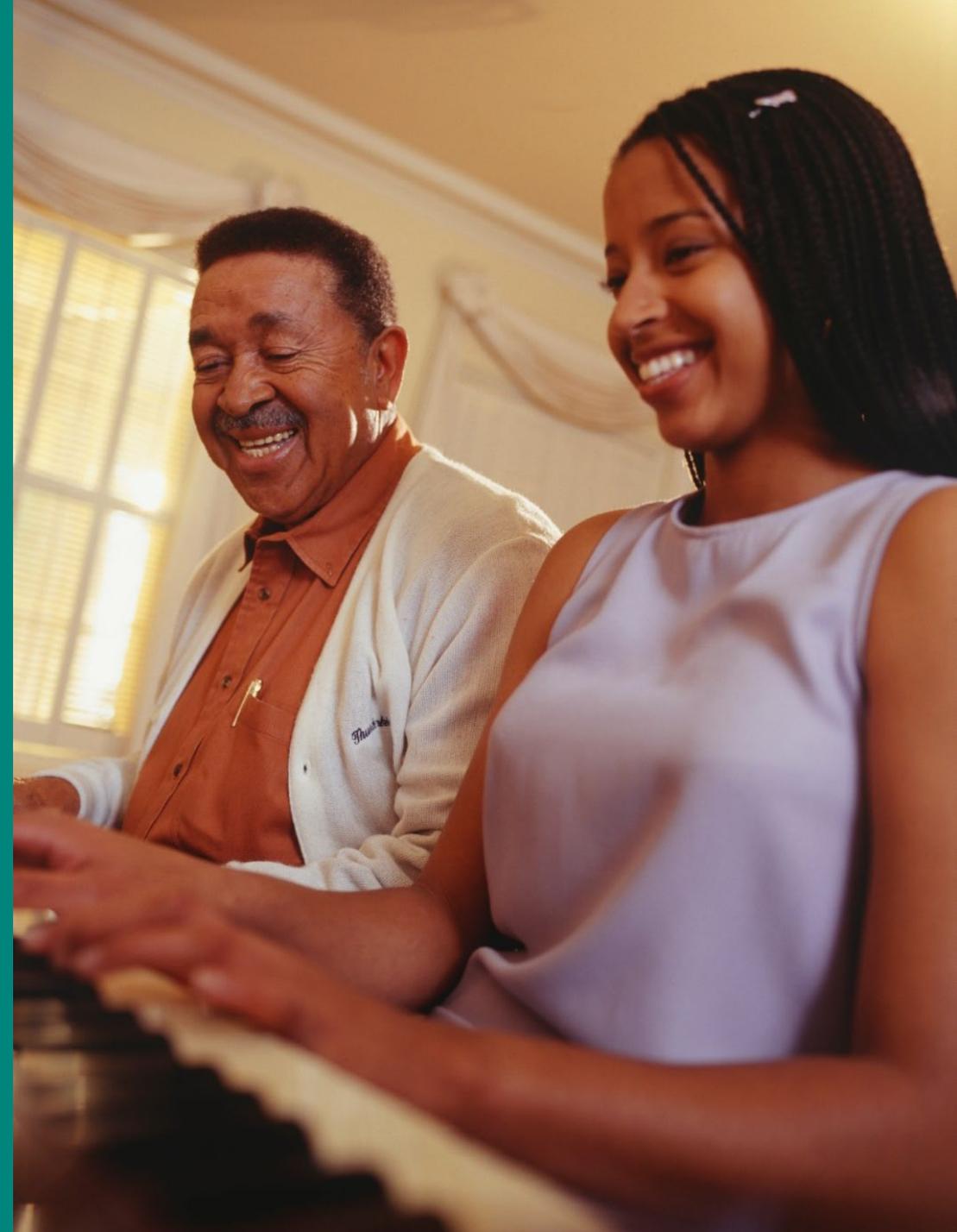
RE-THINKING DESIGN FOR OLDER ADULTS

... Who wants to enter the golden years surrounded by only old people?

-- Karrie Jacobs, *The New York Times*

BENEFITS FOR ELDERS

- Improved self-esteem
- Provides a sense of purpose
- Diminishes loneliness and boredom
- Receive assistance with everyday tasks or chores
- Encourages activity and improved fitness
- Builds lasting and stable friendships
- Provides love, affection, and comfort



BENEFITS FOR YOUNGER ADULTS AND KIDS

- Younger adults have an opportunity to serve others
- Builds lasting and stable friendships
- Provides love, affection, and comfort
- Improved self-esteem
- Improved understanding of elders to combat ageism
- For kids, reinforces the idea that they can contribute to the community in a meaningful way by helping those who need assistance
- Improved school performance and attendance
- Less likely to start using drugs and alcohol

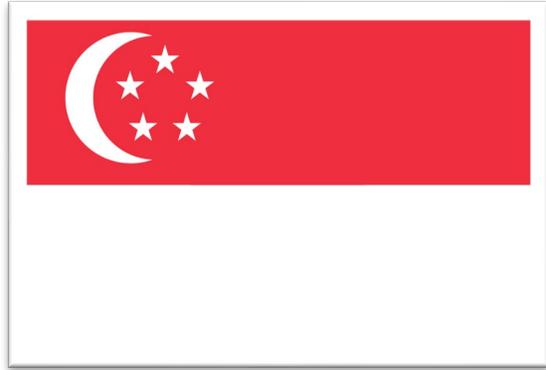


A MORE RESILIENT SOCIETY

- Building relationships across generations helps to combat loneliness and social isolation
- Providing more choice for all ages
- Building better communities
- Families can live reasonably close together and get to each other without driving long distances or flying



SINGAPORE: A FEW BACKGROUND FACTS



- Singapore is a city and a country, having gained independent sovereignty in 1965
- Unitary parliamentary republic led by a Prime Minister and a President
- Population = 5.8 million
- Heavily urbanized peninsula of 276 square miles (almost the same size as NYC)
- Diverse ethnic groups and religions live harmoniously
- World's most expensive city to live
- Smartest city in the world since 2019
- Limited natural resources drive sustainable approaches to all aspects of living

TYPICAL HDB FLATS



HDB housing in Bishan Town. Photo by Terence Ong

Many HDB flats have a store room, which, in all apartments built since 1996, has become a bomb shelter with reinforced concrete walls and a massive steel door to protect the occupants in case the Republic is attacked. Illustration by Josh Kramer

HOUSING TODAY



KAMPUNG ADMIRALTY



KAMPUNG ADMIRALTY

- First purpose-built public intergenerational project
- Awarded “World Building of the Year” in 2018
- Seven government agencies involved in development
- Intergenerational, community-based programs
- Exemplary sustainable and biophilic design throughout



ALL-IN-ONE VILLAGE

This integrated development next to Admiralty MRT combines housing, health-care and care facilities, and shops amid lush greenery in a bid to be a 'modern kampung'

Studio apartments

- Two blocks with about 100 units, up for sale in the July Build-To-Order exercise
- New features: induction stoves, "resilient flooring" with a parquet design and retractable racks for easier drying of laundry

GREEN FEATURES

Pneumatic waste conveyance system

- Household trash will zoom through vacuum pipes underground into a sealed container which will be collected by trucks

Bioswales

- Rainwater will be filtered through these sloping stretches of plants and soil on the ground floor

Solar panels

- The apartment blocks will be topped with solar panels to power common lighting, for instance

Community park

- Features fruit trees such as rambutan and kaffir lime
- Includes a three-generational playground for both young and old

Community farm

Residents can grow vegetables, herbs and ornamental plants

Eldercare and childcare centre

- Located side by side to promote bonding between generations
- The eldercare centre has space for about 100 seniors, and the childcare centre will offer 200 places

Admiralty Medical Centre



- Spans two levels with an area of 8,500 sq m
- Offers outpatient consultation, day surgery, rehabilitation and diagnosis

Hawker centre

- Will have 50 cooked food stalls and about 900 seats



Community plaza and shops

- An airy space for community activities, from National Day dinners to cultural performances
- Grassroots organisations will provide feedback on what the 20 shops and two or three food and beverage outlets should offer

Supermarket

- After feedback from residents that supermarkets in the area were too small, the new one will cover 1,000 sq m

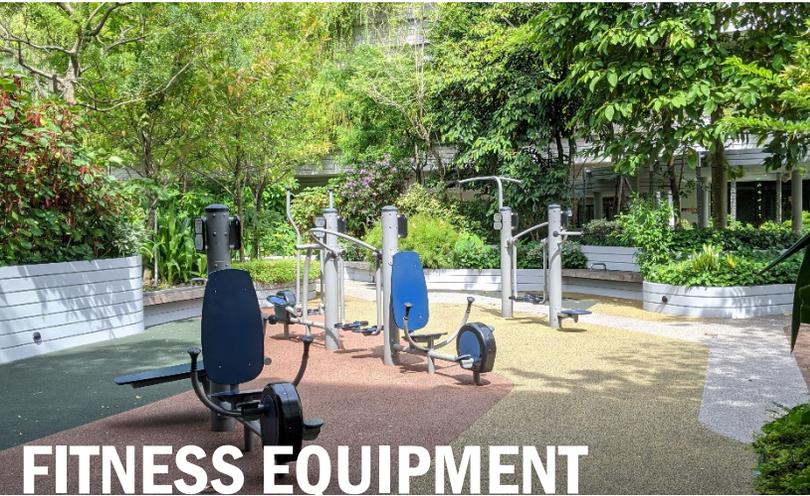
Basement carpark and bicycle parking

- Two basement floors will house the carpark and a mechanical bicycle parking system which can store 500 bicycles

KAMPUNG ADMIRALTY

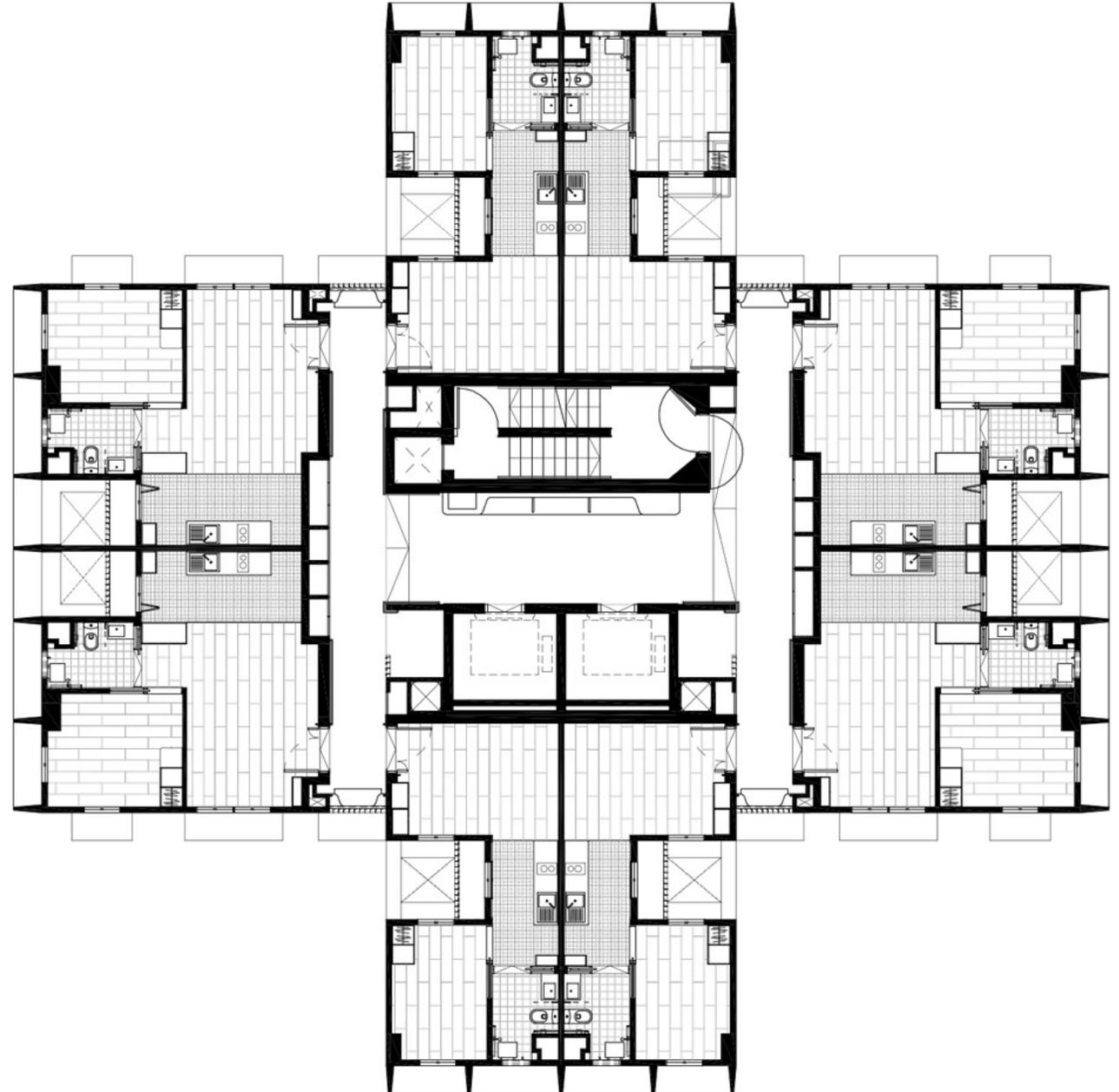


KAMPUNG ADMIRALTY



THE APARTMENTS

- 100 units in two towers, only two unit types
- Buddy Benches
- Moveable Cabinets + Work Surface
- Retractable Drying Rack
- Barrier Free Design
- Induction Cooktop
- Slip Resistant Flooring
- Relatively modest, durable finishes
- Private Elevators to public amenities
- Windows have low sills for more light and better visibility



APARTMENT IMAGES



ACTIVE AGING HUB

- Four primary goals for users:
 - Stay in good health
 - Stay independent
 - Stay connected and purposeful
 - Build a Kampung community through volunteering
- Physical Therapy
- Medical office on site offers various preventative screening



INTERGENERATIONAL PROGRAMS

- Active Aging Hub and child daycare share two levels and have daily intergenerational programs and activities
 - Reading and storytime together
 - Seniors supervise children on the playground
 - Seniors test new video games and then teach children how to play



COMMUNITY PARTICIPATION

- Partnership with community for active programs: dance, tech, art
- Hawker Center: bringing families and neighbors together to share meals, which are inexpensive, varied, healthy
- Ground floor retail and adjacent transit center ensure steady flow of visitors and connects residents to community
- Social surveillance: Feeling safe
- Rooftop community garden and public park attract neighbors



INTEGRATED FITNESS

- Fitness equipment strategically placed along walking paths
- Benches and tables to rest
- Ramps require walking with additional effort (but less than stairs)



NATURE & BIOPHILIA

- Integrated planting and green plaza help reduce heat island effect
- Native plantings increases local bio-diversity
- Bioswales/water filtration system
- Ecopond
- Medical center looks into garden to help calm nervous patients
- Community garden
- Public park



KAMPUNG ADMIRALTY: MEETING THE RESIDENTS



KAMPUNG ADMIRALTY: KEY TAKEAWAYS

- Urban setting
- Transit-oriented mixed-use means visiting the building is not a “destination,” it’s part of people’s every day movements
- Programming, programming, programming!
- Strategic partnerships
- Promote Human interaction across all ages, but can’t force it
- Innovative design features to help improve people’s health
- Connection to nature
- Synergy between government initiatives and private sector



DIGITAL SOCIETY | DIGITAL ECONOMY | DIGITAL GOV'T



<https://youtu.be/vMqkKYb7VYc>

MAINTAINING INDEPENDENCE THROUGH SMARTER SMART CITIES



HBD's Elderly Monitoring System is part of the Smart Enabled Home initiative. The system learns the daily habits of seniors through the help of motion sensors and alerts family or other caregivers in times of need or when irregular patterns in behavior are detected (ie if no movement is detected for a period of time).



INTERGENERATIONAL LIVING IN THE US



UNIVERSITIES & SENIOR HOUSING



Merrill Gardens at the University in Seattle, Washington
By Runberg Architecture Group



Mirabella at ASU in Tempe, Arizona
By Ankrom Moisan



Lasell Village in Auburndale, Massachusetts
By Perkins Eastman

BRIDGE MEADOWS

Portland, Oregon



By Carleton Hart Architecture



AGRIHOOD

Santa Clara, California



By Steinberg Hart

ANITA MAY ROSENSTEIN CAMPUS

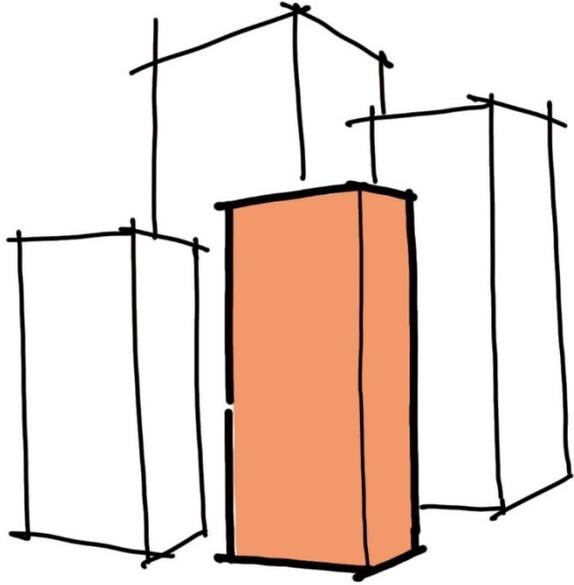
Santa Clara, California



By Leong Leong and KFA Architects & Planning

INTERGENERATIONAL SCENARIOS

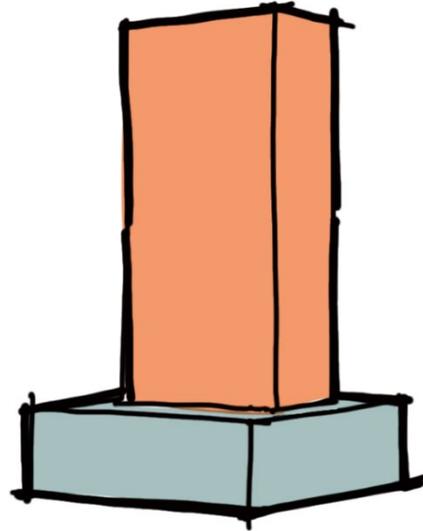
BASELINE



TRADITIONAL APPROACH

ALL USES ARE SEPARATE BUILDINGS, MAY BE CONNECTED

URBAN SENIOR LIVING

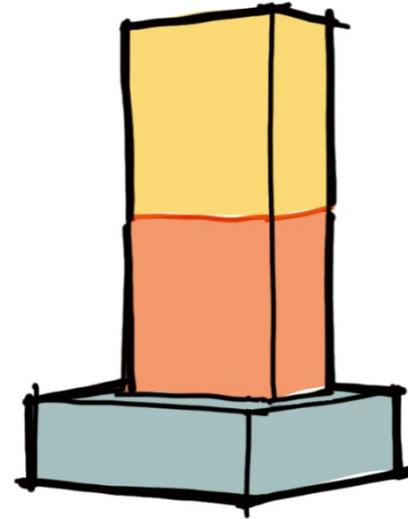


MIXED-USE PODIUM

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SENIOR LIVING ABOVE

MIXED USE SENIOR LIVING



MIXED-USE PODIUM

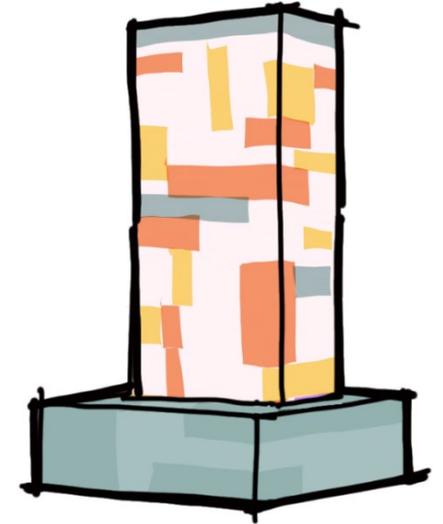
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SENIOR LIVING

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HOSPITALITY / HEALTH CARE / OR OTHER USE

MIXED USE SENIOR LIVING (IDEAL INTERGENERATIONAL MODEL)



MIXED-USE PODIUM

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SENIOR LIVING / RESIDENTIAL / HOSPITALITY / HEALTH CARE / OR OTHER USE

CORE PRINCIPLES FOR DEVELOPING INTERGENERATIONAL COMMUNITIES

- Urban
- Nearby medical facilities
- Nearby schools
- Access to recreation activities, other entertainment, as well as community basics such as grocery store, shopping, restaurants
- Public transportation
- Parks, walking trails, dog parks, and open space
- Universal design
- Strong programming

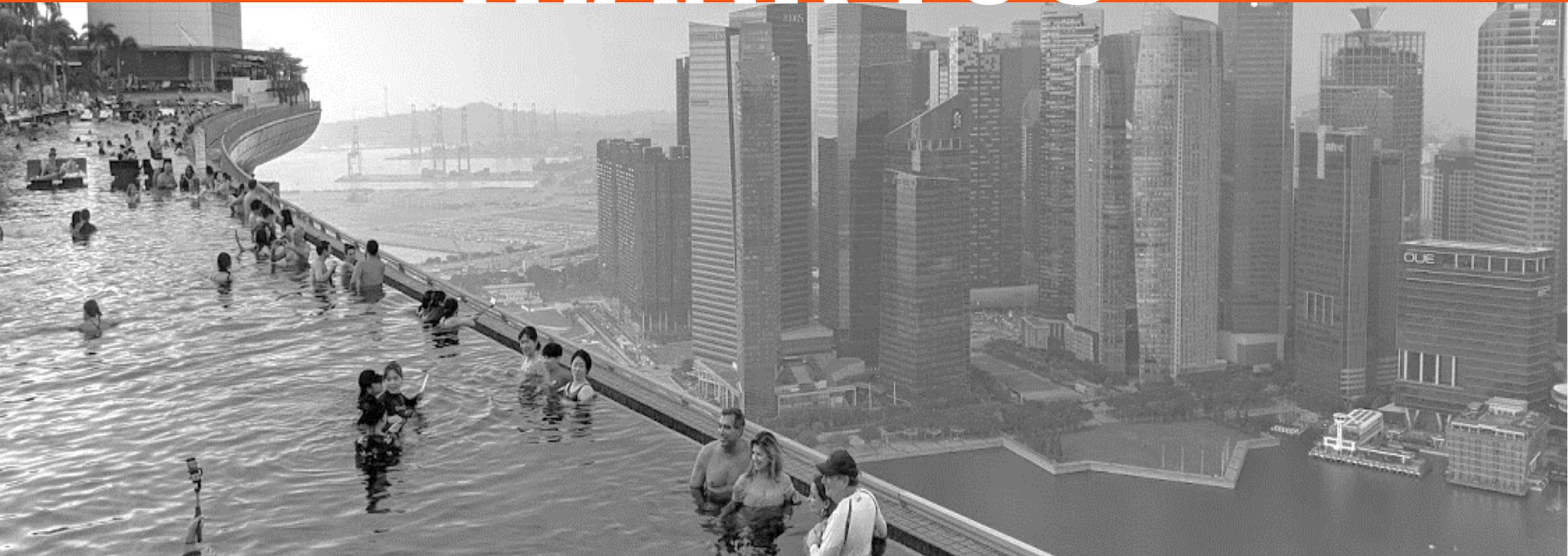


NEXT STEPS... PLEASE PARTICIPATE IN OUR RESEARCH SURVEY



20-QUESTION INTERGENERATIONAL SURVEY:
<https://www.surveymonkey.com/r/IGTF>

THANK YOU



Time for Questions and Comments

???-!!!

FEEDBACK SURVEY

We encourage all attendees to complete the post course survey at <https://www.surveymonkey.com/r/M3BXYK2> by **Friday, October 20, 2023**, at 5pm ET.

Please email knowledgecommunities@aia.org if you have any questions.

JOIN DFA

aia.org/dfa

The screenshot displays the AIA KnowledgeNet website interface. At the top, a red navigation bar contains the text "AIA KnowledgeNet" on the left, a search icon, and a "Sign in" link on the right. Below this is a white navigation menu with the following items: Home, Communities, Directory, Events, Browse, and Participate. The main content area features a large background image of a modern staircase with the text "Design for Aging" overlaid. Below the image is a row of six white buttons with red accents: "Community Home", "Discussion 101", "Library 118", "Blogs 28", "Our Events 3", and "Members 4.5K".

On the left side of the page, there is a vertical list of links: Leadership, Our History, Initiatives, DFAR Awards: 16th Edition, Past DFAR Awards, Research, and Local Chapters.

In the center, under the heading "Quick Links", there is a section titled "Who we are" with a paragraph describing the mission of the AIA Design for Aging (DFA) Knowledge Community. Below this is a section titled "COVID resources" with a link to "Strategies for Safer Senior Living Communities".

On the right side, there is a red button with a dashed blue border that says "Manage Your Communities". Below it is a section titled "Upcoming Events" which lists two events:

- 9 Sep** **DFA: Call for leadership applications**
Sep 9 - Oct 17, (ET)
- 19 Sep** **Live course: Intergenerational Living, Inclusive Communities: Strategies for Planning and Design**
Sep 19, 12:00 PM - 01:00 PM (ET)

At the bottom right of the events section, there is a link that says "See All Events →".