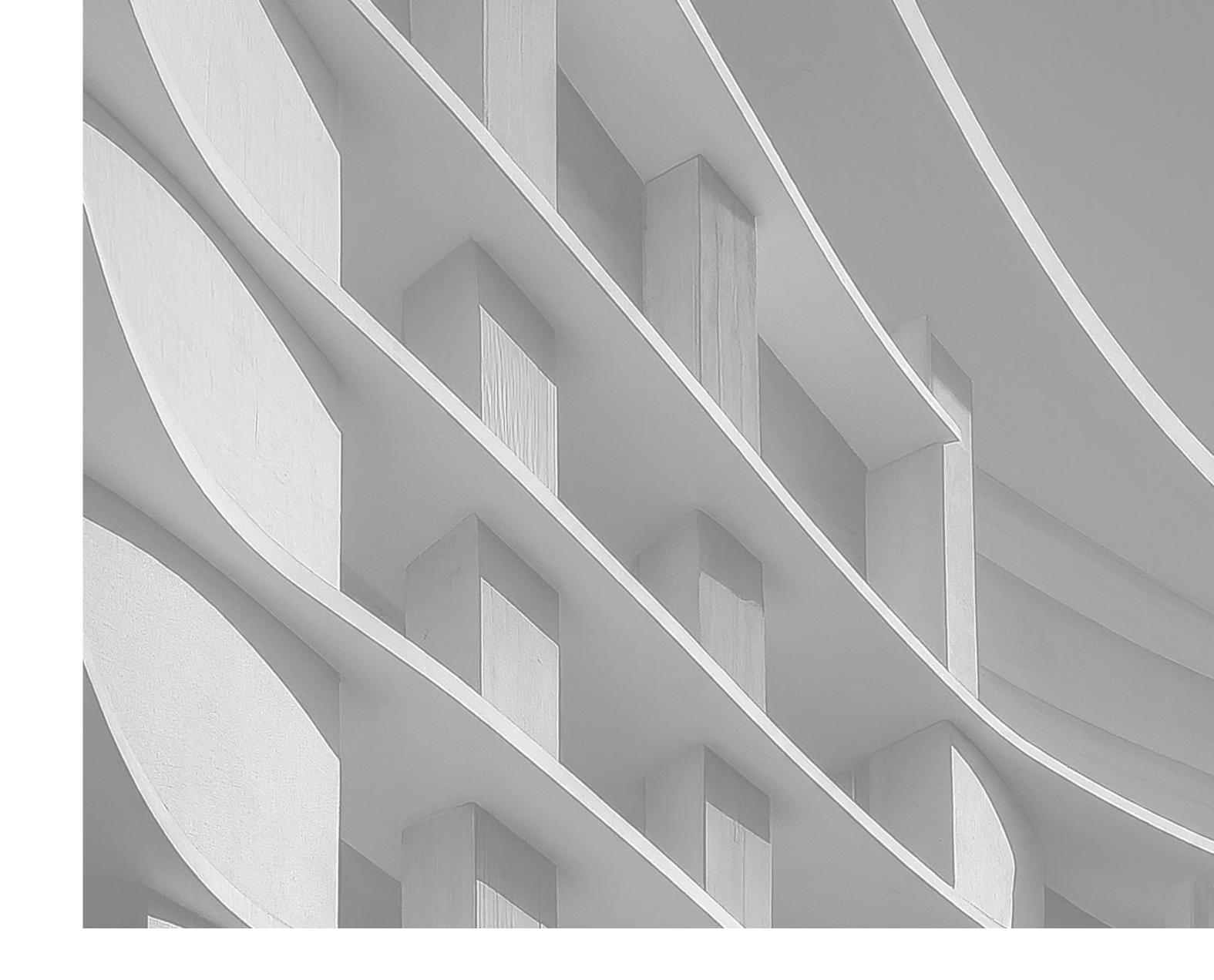
Enhancing Design for Health of Aging Population 05/14/2024 HKS Leading Age 2024

Content

)1 l	Introd	luction

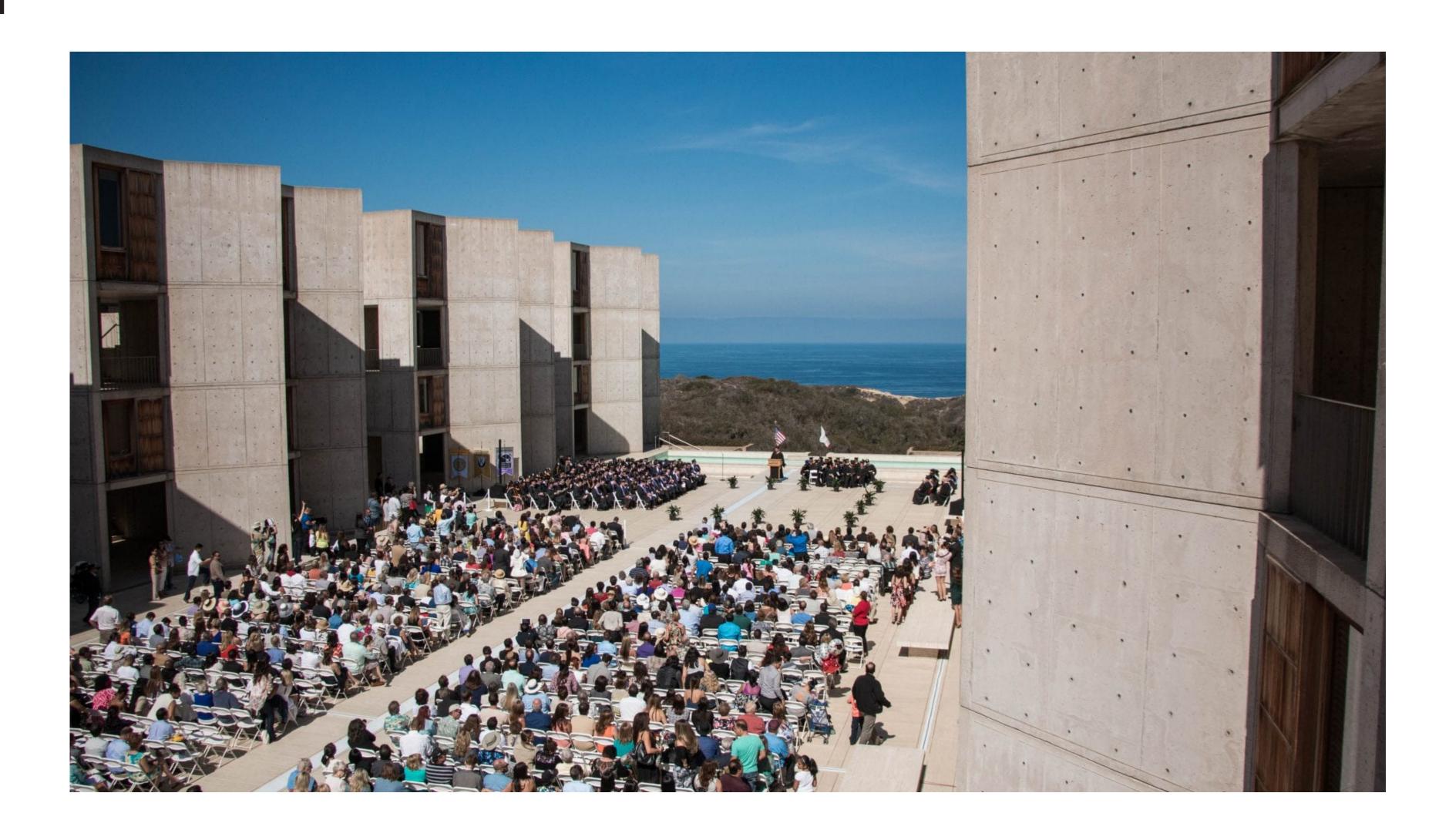
- 02 Then and Now
- 03 Research
- 04 **Why**
- 05 **How**
- 06 Questions



Introduction

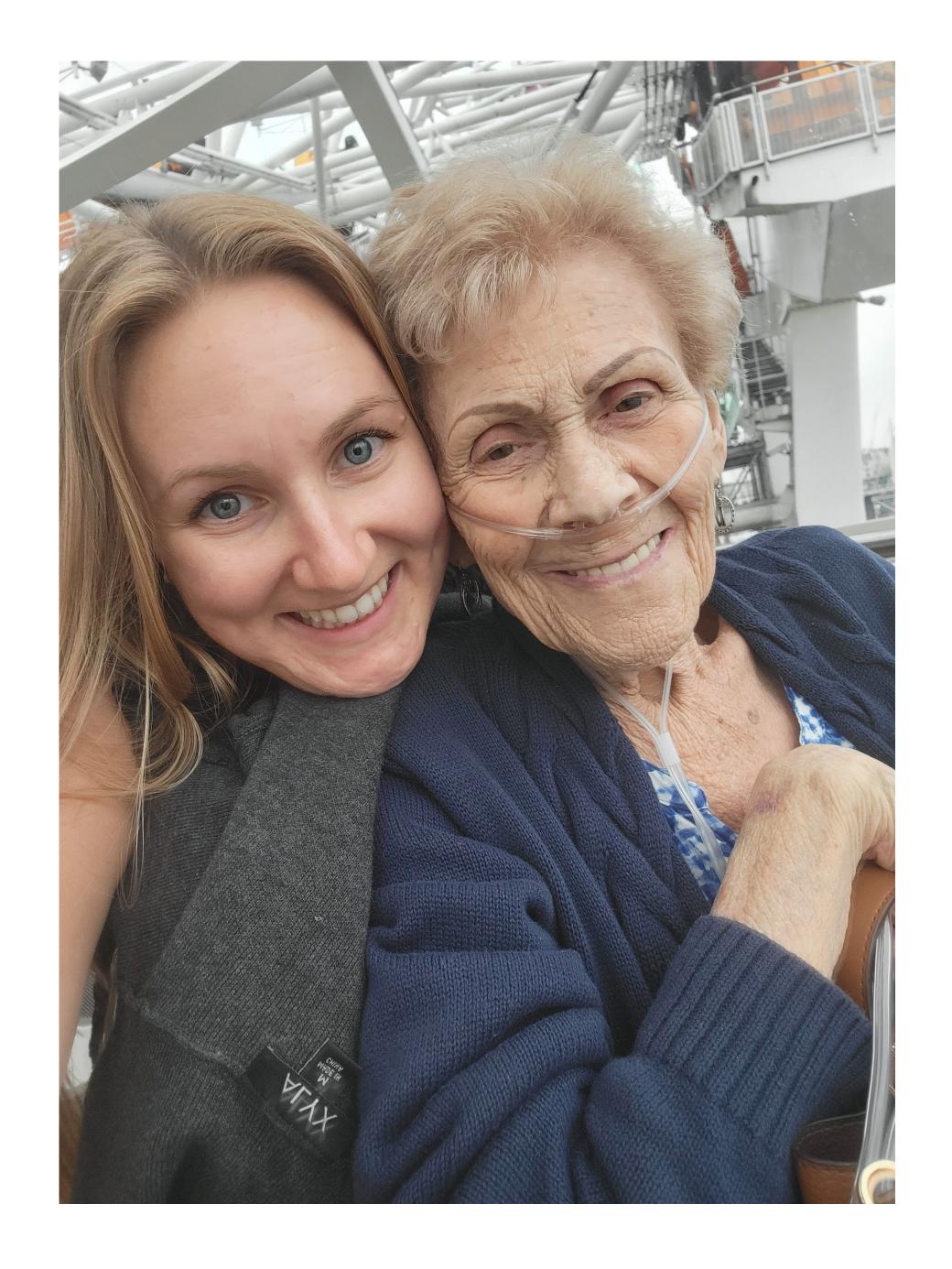


Introduction



Introduction





Current State of the Sector HKS Leading Age 2024

Facilities of the Past





Design of Nursing Homes and Care Facilities Pre-70's

Change with Medicare/Medicaid

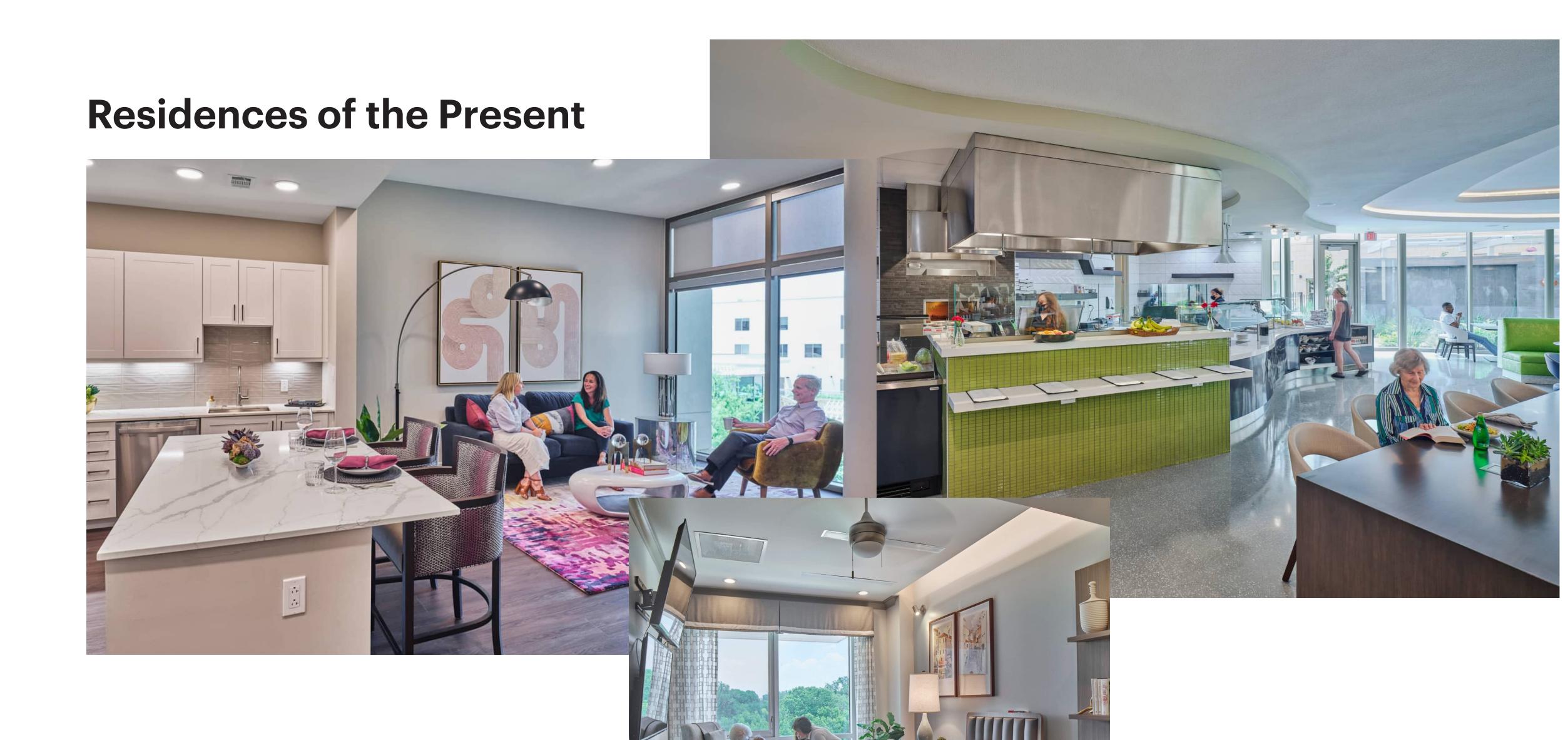
ENJOY YOUR RETIREMENT

Residences of the Present

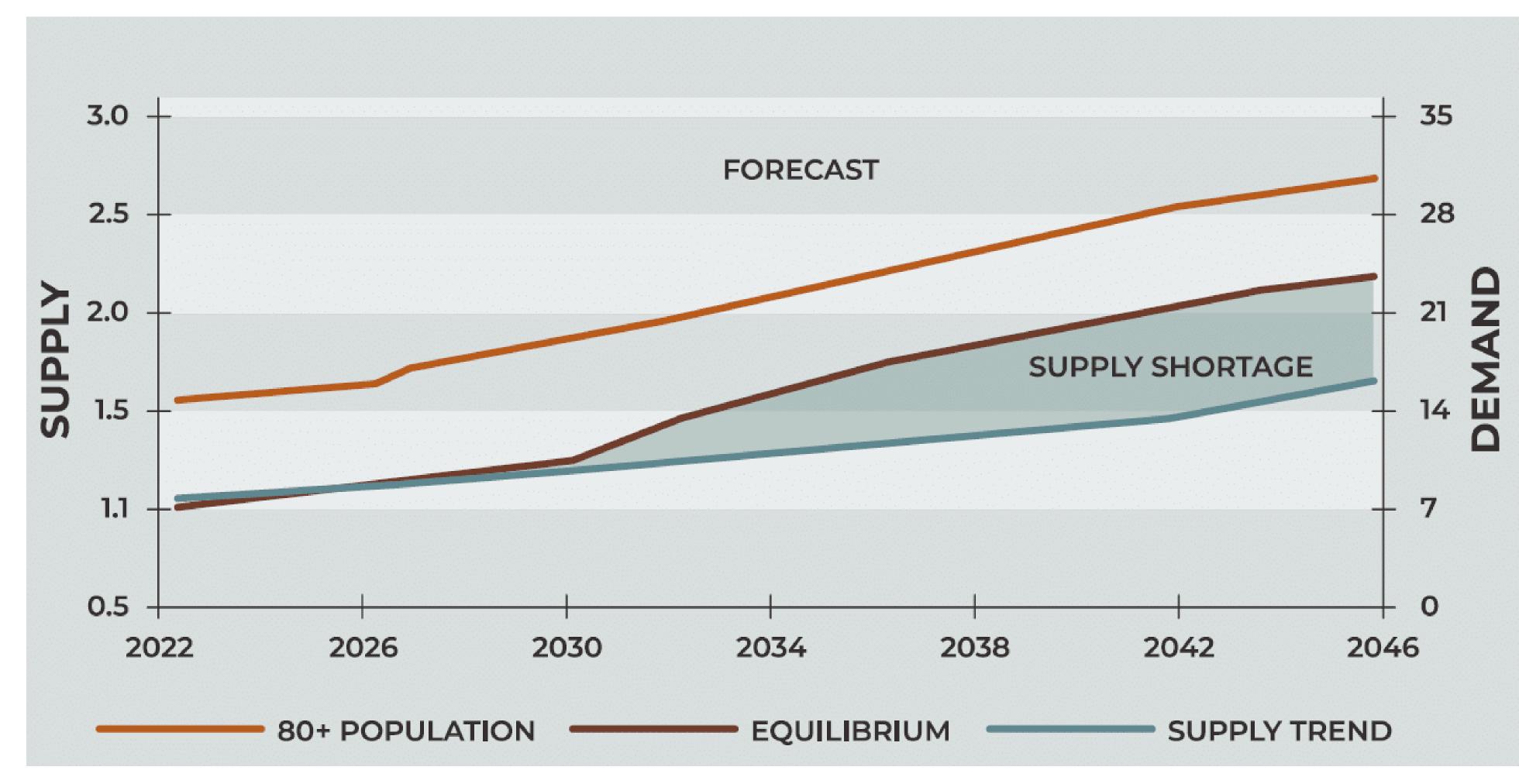


Residences of the Present





Growing Need



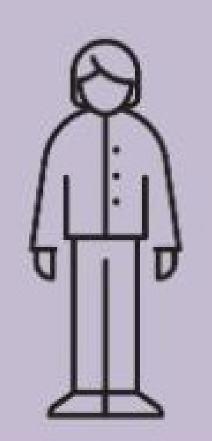
Growing Need

Rising demand and shrinking families will increasingly strain family caregivers and those they care for.



In 2010, there were 7.1 potential family caregivers for every person 80+.





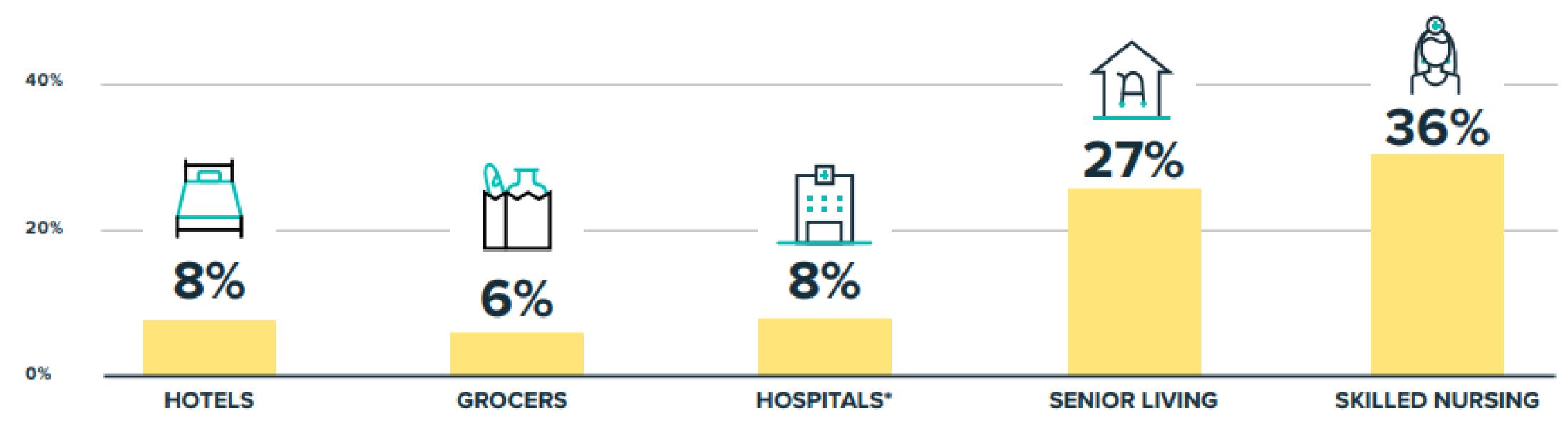


By 2030, there may be only 4.1 potential caregivers for every person 80+.

IKS Leading Age 2024

Growing Need

PERCENTAGE OF EMPLOYEES EXPERIENCING BURNOUT (COVID BENCHMARKS)



^{*}Hospital data includes all staff members. Burnout index is likely higher in hospital staff working in COVID units.

What is the cost of turnover? How much does it cost the company to on-board an employee?

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31% of the salary at minimum and 130% at maximum

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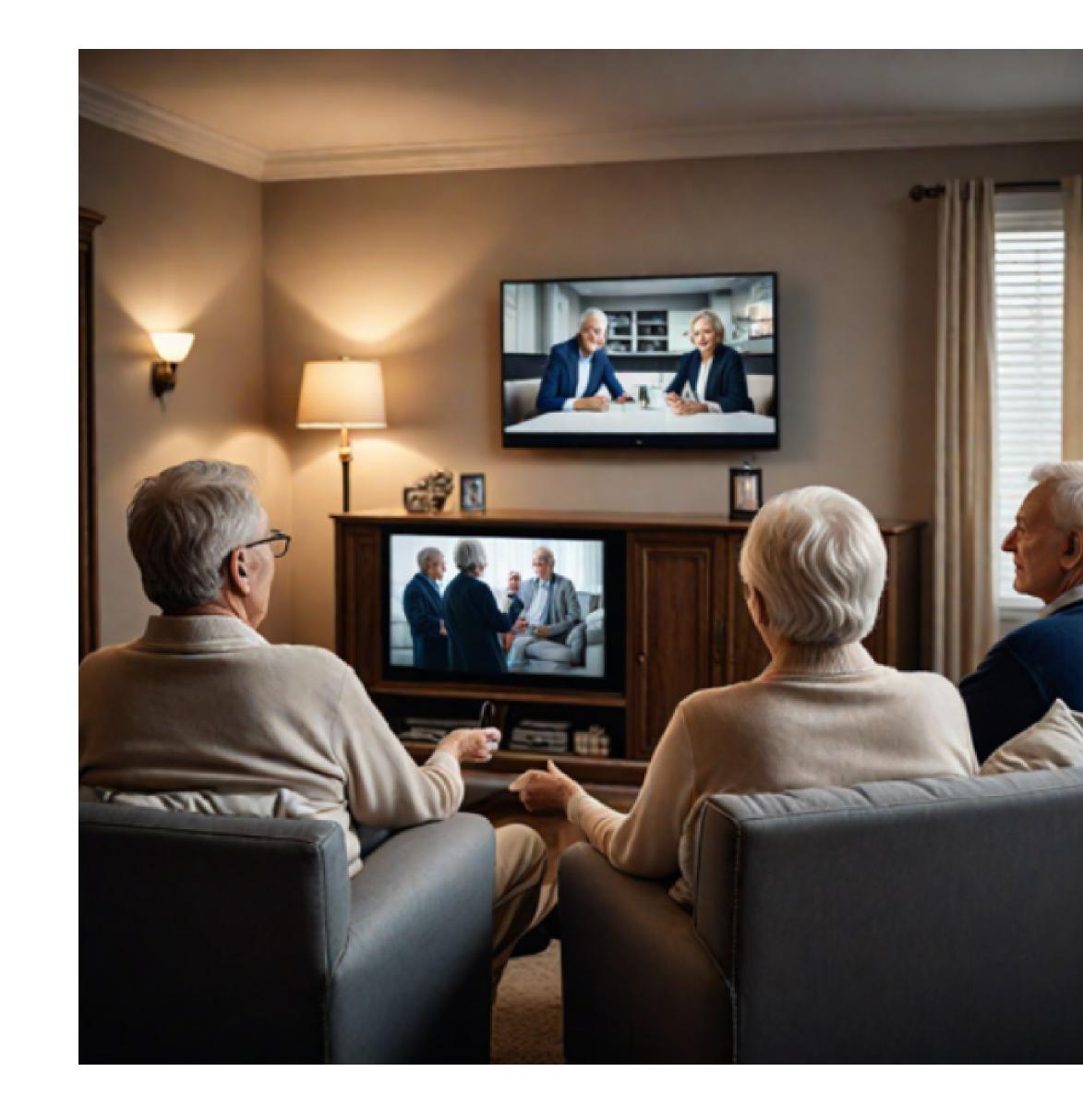
\$19,840 to \$83,00 PER EMPLOYEE

0.31 times the salary at minimum and 1.3 times at maximum



ADL - Activities of Daily Living

Bathing, showering, dressing, getting in and out of bed/ chair, walking, using the toilet, or eating



ADL - Levels of Care

Senior Living

Assisted Living

At Home Care

In- Home Care

Adult Day Programs

ALL Take into Account Activities of Daily Living

Or SHOULD



Activities of Daily Living Considerations - Barrier Free

Barrier Free

to

Universal Design

Selection of Door Hardware

Places of rest

Acoustics

Switch Types

Zero Step Entrances

Door Hardware and Places of Rest





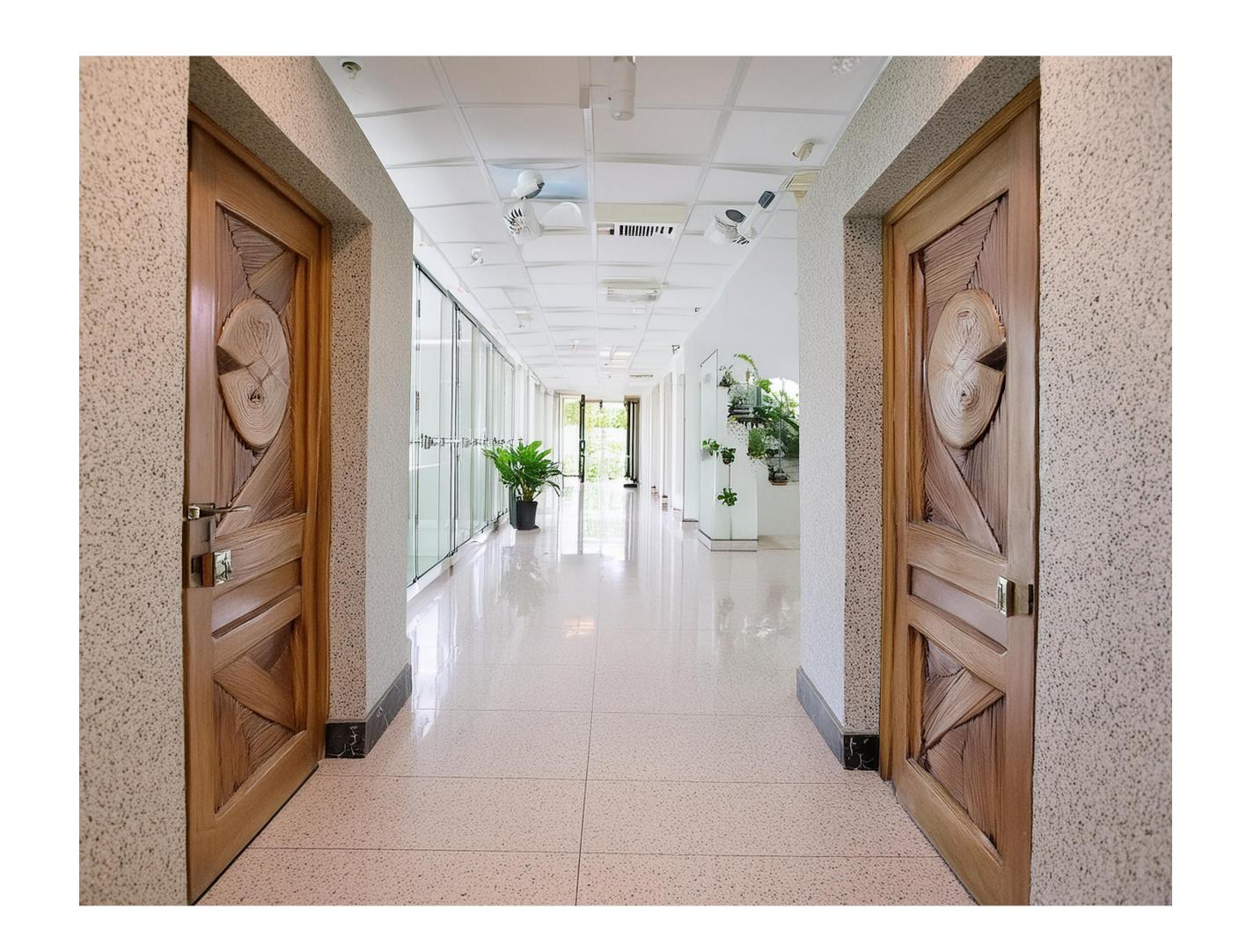
Selection of Door Hardware Places of rest Acoustics Zero Step Entrances

Mobility & Balance

Zero Step Entrance Handholds **Door Swing Direction** Flooring Texture Increase Area Visibility



Zero Step Entrance
Handholds
Door Swing Direction
Flooring Texture
Increase Area Visibility



WHY?

Less stress Lower Aggravation Increased Independence



Changing of the Eyes

Trouble distinguishing colors

More time to adjust to changing levels of light

Depth Perception

Drier Eyes - Lack of Clarity

Light Darkness

Sensitivity



Changing of the Eyes

Trouble distinguishing colors

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Depth Perception

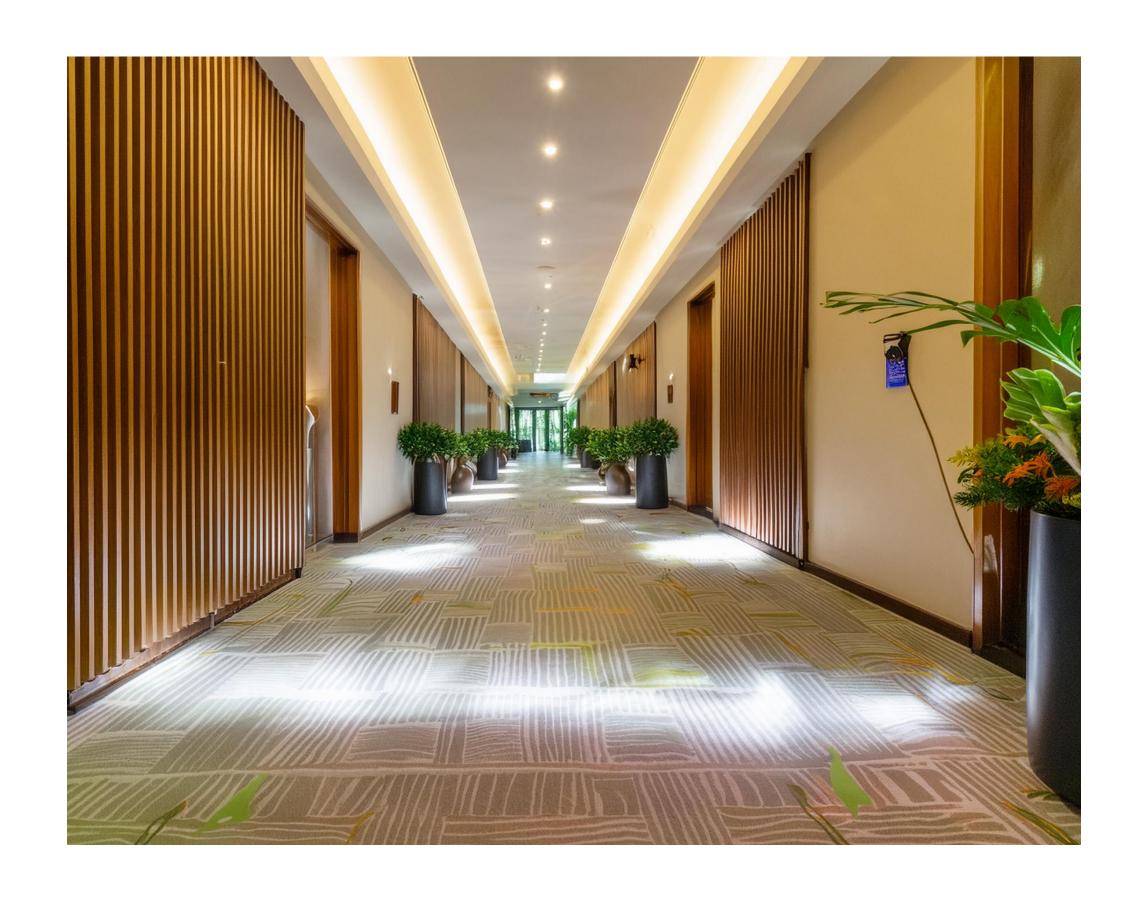
Drier Eyes - Lack of Clarity

Light Darkness

Sensitivity



Aid in Visibility - Lighting





WHY?

How much do you think updating the lighting design could reduce fall rates?

Fall prevention
Strain on Eyes
Ease of Navigation
Ability to See More Clearly
Complete more tasks

WHY?

A study of four residences, nearly 750 residents 1000 days

43% reduction of falls

Wayfinding

Create Choices

Create Returns

No Dead-Ends

Develop Unique Areas



Wayfinding

DINING LOUNGE C DINING LOUNGE

DINING LOUNGE

B

DINING LOUNGE

Wayfinding

Apply red-black coloration on a white background;

Make the size of the target element large, and place such an element at the center of the space

High contrasting colors will allow information to be read faster

Shade, light, and reflection should be used cautiously to avoid affecting older adults' perception of colors;

Severe cognitive capacity impacts the ability to capture attention - use of contrasting and attention-capturing colors.

WHY?

Ease of self navigation

Lack of frustration

Choice - decisions - freedom

Opportunities

Privacy but ways to bring residents together

Flexibility

Technology Integration



Opportunities - Neighborhoods

Decrease risk of hypertension, coronary artery disease, cardiac failure, depression, anxiety

Socialization increases memory, healthy behaviors, and mental health

43% of seniors regularly experience loneliness



Staff Retention

IF....

...THEN

Residents are less stressed, could be more independent, are safer in your facility

Staff are safer
Less ADL's to help residents do,
Burnout Prevention

IF 36% OF STAFF ARE EXPERIENCING BURNOUT

\$357,000 to \$1,400,000 LOST TO TURNOVER

LET'S SAY HALF OF THOSE LEAVE THE JOB.....

COST OF FALLS TO ORGANIZATIONS

\$158,000-\$712,000 per year

Residents

BRAIN HEALTH

FREEDOM

PHYSICAL HEALTH

EASE

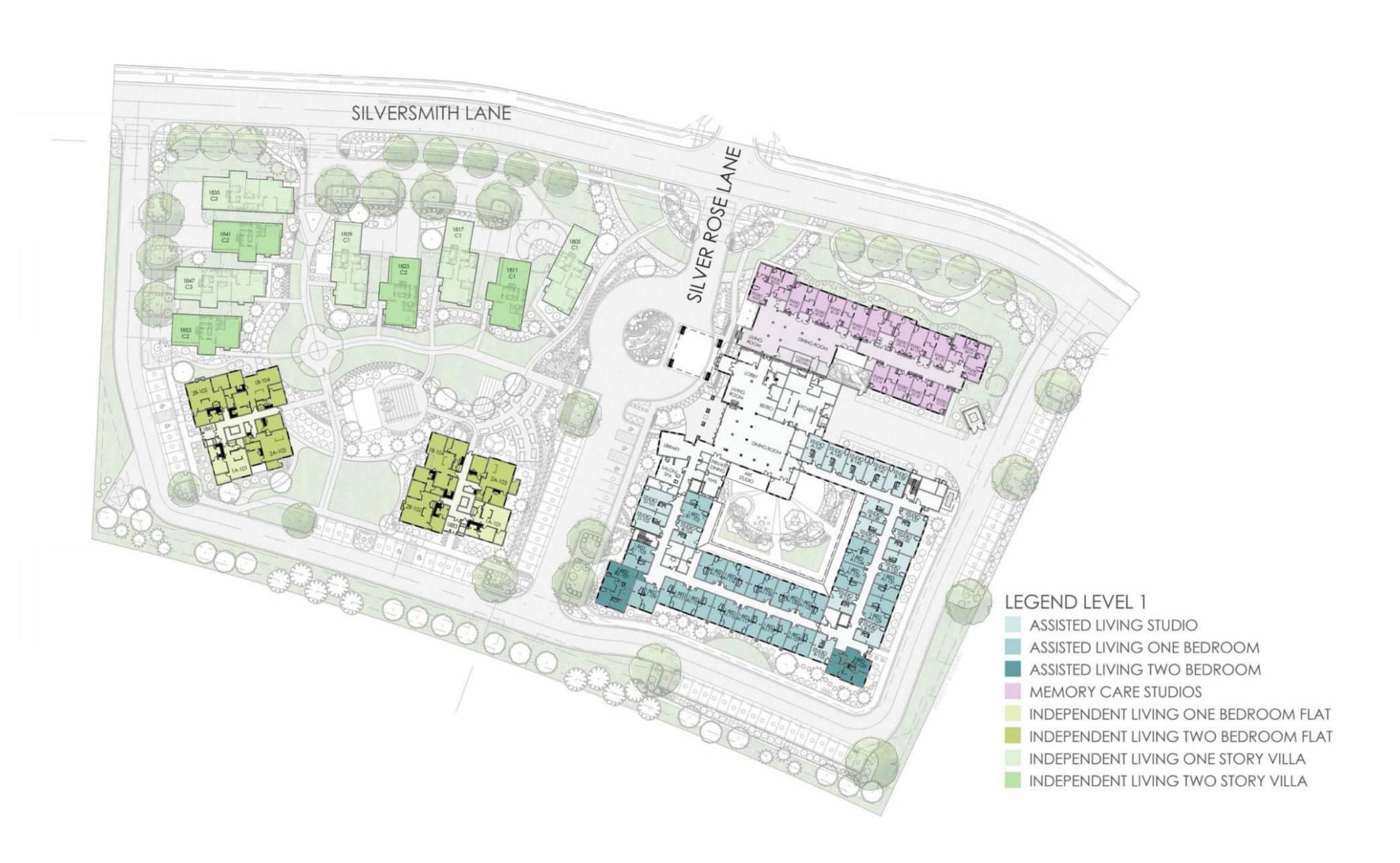
HAPPINESS

INDEPENDENCE

LOWER AGGRESSION



Location



Leading Age 2024 Stonecreek at Flying Horse

RFP

INVEST IN YOUR TEAM



SET STANDARDS OF DESIGN & CARE AVOID SELECTING ON FEE PROPOSALS LOOK FOR QUALIFIED DESIGNERS CARE ABOUT THE RESEARCH PARTICIPATE IN THE RESEARCH ASK YOUR DESIGN TEAM TO DO MORE FIND A CONSTRUCTION PARTNER WHO WILL SUPPORT THE END GOAL CREATE A TEAM THAT SUPPORTS QUALITY OF DESIGN AND CONSTRUCTION

HOW CAN THE DESIGN INDUSTRY HELP YOUR ORGANIZATION CREATE AN ENVIRONMENT THAT IS BETTER FOR THE RESIDENTS, THE STAFF, THE COMMUNITY, AND STILL SUPPORT YOUR BUSINESS CASE?