

Laying the Groundwork for Dementia Friendly City Centers: Community Visioning Outcomes



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Department of Design Housing and Merchandising

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TODAYS SESSION

Jennifer Senick Ph.D., Executive Dir., Rutgers Center for Green Building, Rutgers University

<u>Sustainable Practices in Commercial Re-development</u>

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Jennifer Sodo., Architect at Perkins Eastman / AIA, LEED AP BD +C, New York City <u>Emerging Models of Dementia Care</u>

j.sodo@perkinseastman.com

Gabi Pereira, Ph.D., Researcher/designer, Adjunct Professor, Oklahoma State University

<u>Dementia Friendly City Center Initiative History</u>

<u>gabrifp@okstate.edu</u>

Lori Hiatt, Ph.D., Environmental Gerontologist, New York City, NY

<u>Participatory Planning for Memory Enhancement Set in Cities</u>

<u>lorraine.hiatt@gmail.com</u>

Heather Carter, Ph.D. LEED AP, ASID, IIDA, IDEC, Assistant Professor, Oklahoma State University

Project Updates and Next Steps

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TODAYS SESSION PURPOSE

- To describe a participatory planning process and the supporting highlights of information used to develop Dementia Friendly City Centers.
- To illustrate with a case example involving reclamation of underused/vacant shopping center, Oklahoma City example.

TODAY'S SESSION LEARNING OBJECTIVES

Learning Objectives: Following this session, participants will take away

- 1. Site Insights: Reclaiming urban settings AND adding value to the setting's sustainability and fiscal viability.
- 2. Project Insights/Background, Funding, Overview.
- Evidence Based Design Criteria in Memory Care: Insights Applicable to Dementia Friendly City Centers.
- 4. Achieving "Greater Expectations" for Memory Enhancement in Aging by Engaging Participants from Concept to Completion.
- 5. Next Steps in this Dementia Friendly City Center



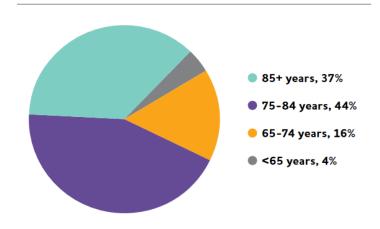
INTRODUCTION

- 1 in 3 Americans is 50+
- By 2030, 1/5 will be 65+
- 14% of people 71+ has dementia (ADAMS)
- 10% percent of people 65+ has Alzheimer's dementia, and incidence increases w/ age (Alzheimer's Assn, 2018)
- In Oklahoma, there are approximately 61,00 older adults with Alzheimer's, predicted to grow by 26.7% by the year 2025.

Source: US Census

FIGURE 1

Ages of People with Alzheimer's Dementia in the United States, 2018



Created from data from Hebert et al. A3,30

Percentages do not total 100 because of rounding.

ONE CULTURE OF DEMENTIA CARE





Activity station A



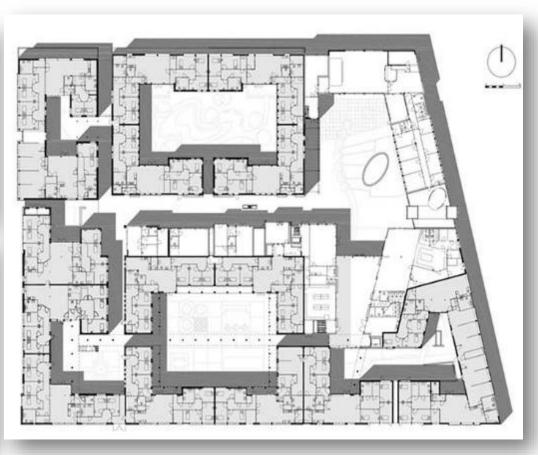
Activity station B

Shared bedrooms of double-loaded corridors

DEMENTIA VILLAGE MODEL OF CARE







Hogewey (Dementia Village) Near Amsterdam, the Netherlands

A DEMENTIA VILLAGE IN OKLAHOMA?

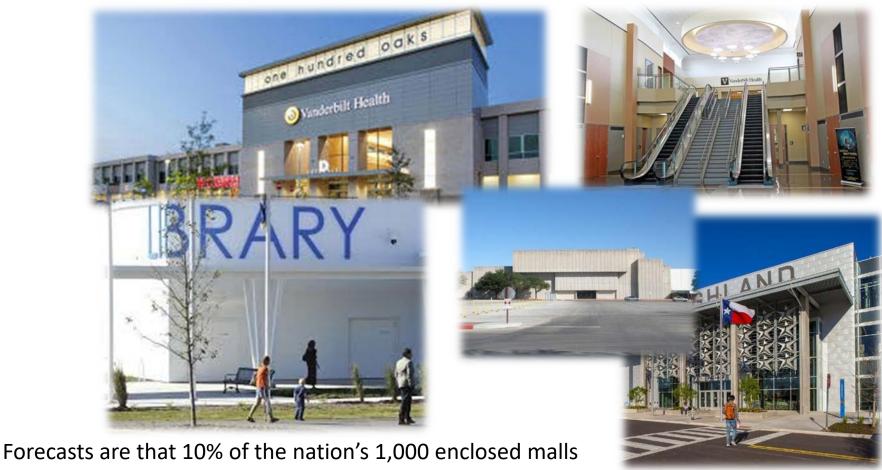
- Adaptive reuse of existing buildings is one solution and thoughtfully developed will contribute to environmental sustainability.
- Unused and underused buildings represent a valuable resource with benefits which include strengthening existing communities.

RETROFITTING DISTRESSED MALLS



Interior urban malls are being repurposed to exterior walking mall settings with indoor/outdoor opportunities for engagement.

RETROFITTING DISTRESSED MALLS



will fail by 2022, eventually converting to uses other than retail.



RE-USING ABANDONED OFFICE PARKS





Rendered above: the redesigned atrium and surrounding grounds – creating a town center where none existed. Large format opportunities for re-greening, sustainable stormwater management, etc.

Credit: Somerset Development. The exterior of the 2M SF Bell Works in Holmdel, NJ.

Architect: Eero Saarinen, early 1960s



CONVERGENCE OF NEEDS

NEED FOR
IMPROVED AND
EXPANDED
DEMENTIA
PROGRAMS AND
SERVICES

NEED FOR
SUSTAINABLE
BUILDING
PRACTICES
AND REGREENING
OUR CITIES DUE TO
GLOBAL CLIMATE
CHANGE

NEED FOR
REPURPOSING
DISTRESSED
MALLS
DUE TO CHANGES
IN CONSUMER
SPENDING

NEED FOR INTERGERATIONAL MODELS FOR HEALTH AND WELLNESS



Source: Convergence Workshop. November 9, 2018. Oklahoma City, OK.

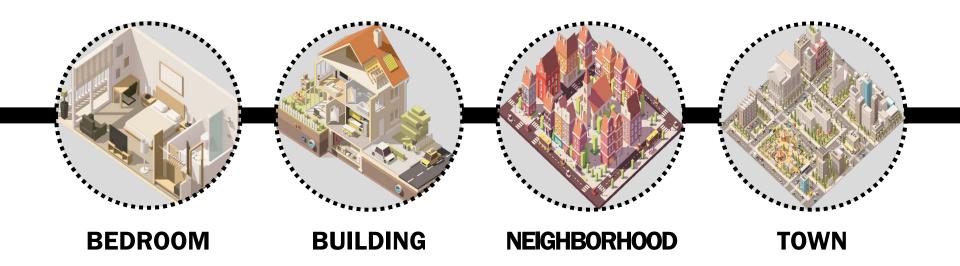
Oklahoma State University and the American Society of Interior Design (ASID) Foundation.

LOSSES ASSOCIATED WITH DEMENTIA

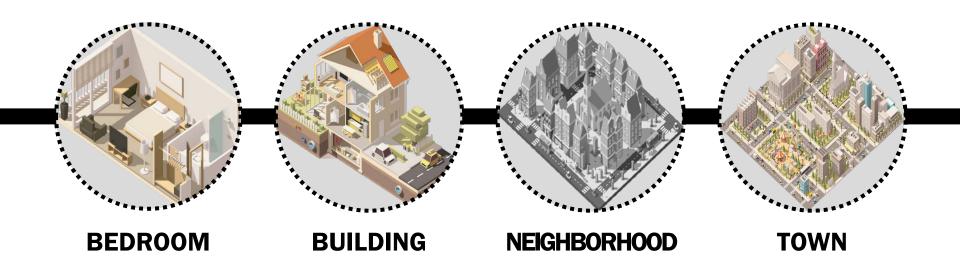


All types of dementia involve mental decline that is severe enough to interfere with usual activities and daily life, including language, visiospatial function and executive function.

Environments for living are made up of building blocks (let's call them 'scales') that fall along a continuum of living.

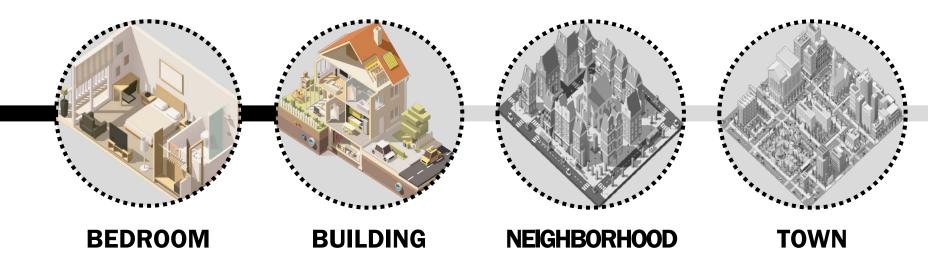


During the 30 year existence of dementia-specific environments in the US, the majority of thinking has been about the scales of the bedroom, the living spaces that constitute the building around it, and policy level discussions about our towns and cities.

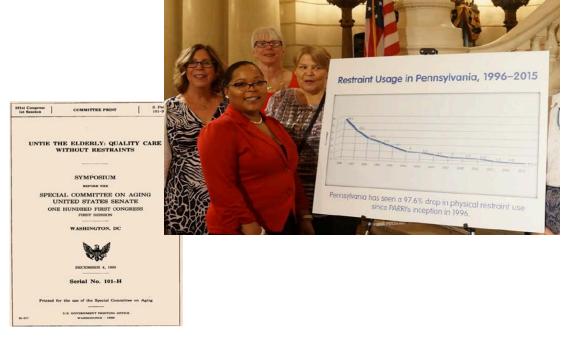


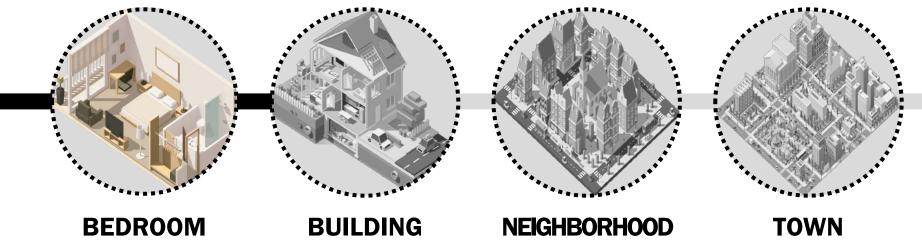
The old culture was, in many respects, one of alienation and estrangement. Dementia itself was surrounded by evasion and denial. Many caregivers have been cut off from their own inner source of vitality and compassion and drawn into practices that they knew intuitively were wrong (Kitwood, 1997).



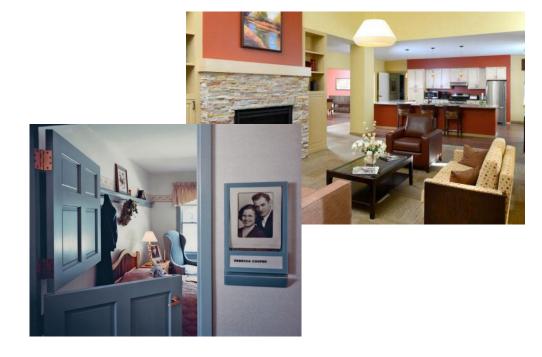


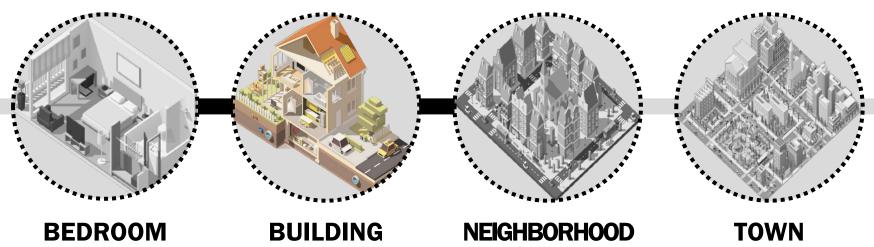
As recently as 1991, a University of Pennsylvania School of Nursing study reported that on any given day, 500,000 older Americans in hospitals and nursing homes were tied to beds or chairs.¹



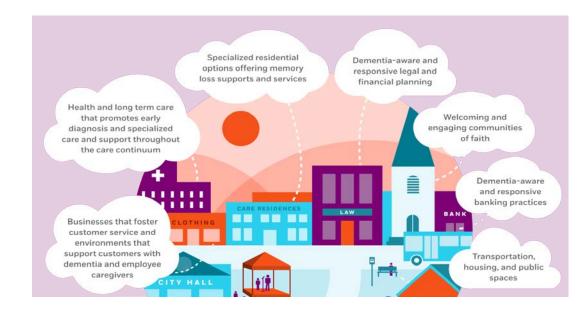


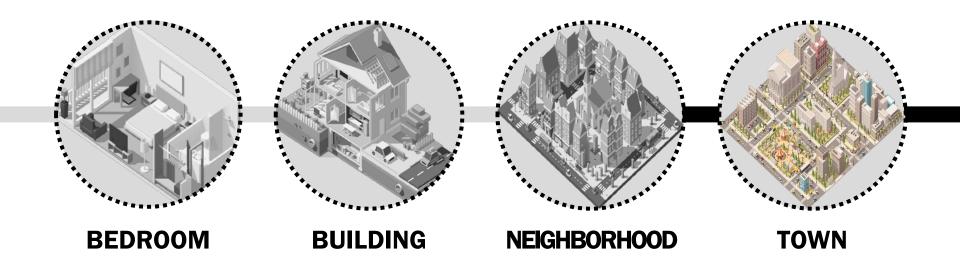
In the early 1990's, the first dementia-specific residential communities are developed by NFP providers. These home-like environments reflect the benefits of living spaces designed at a residential scale, instead of an institutional one. NFP and FP care providers have continued to develop communities with this model for the last 30 years.



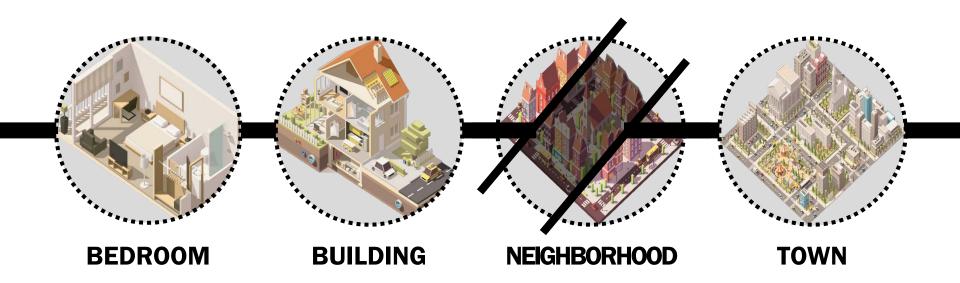


2015 and 2016 saw the advent of the Dementia Friendly America initiative, and the Dementia Friendly Community principles from Alzheimer's Disease International, which focus on policy level improvements to our towns and cities.

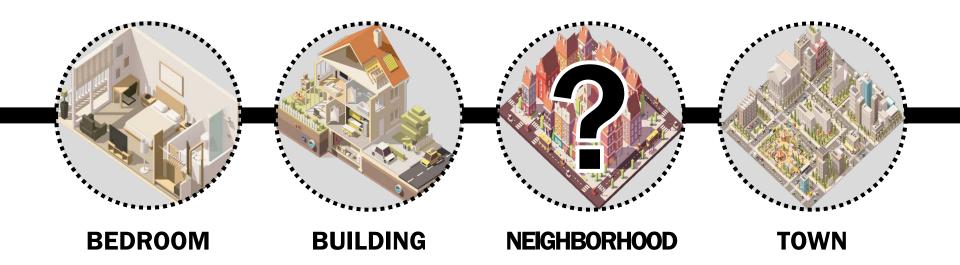




However, there has been little progress in connecting dementia-ready buildings to the communities around them. This leaves a significant gap in the continuity of environmental scales, resulting in a 'boxing', or segregation, of older adults with dementia.



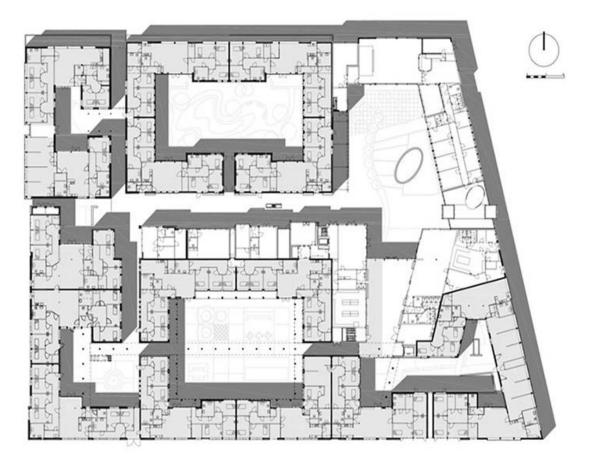
In 2009, the Hogewey Dementia Village outside of Amsterdam, the Netherlands, opened its doors after years of testing new practices in its existing, institutional building. Could the dementia village concept be the missing link to combat isolation among those with dementia?



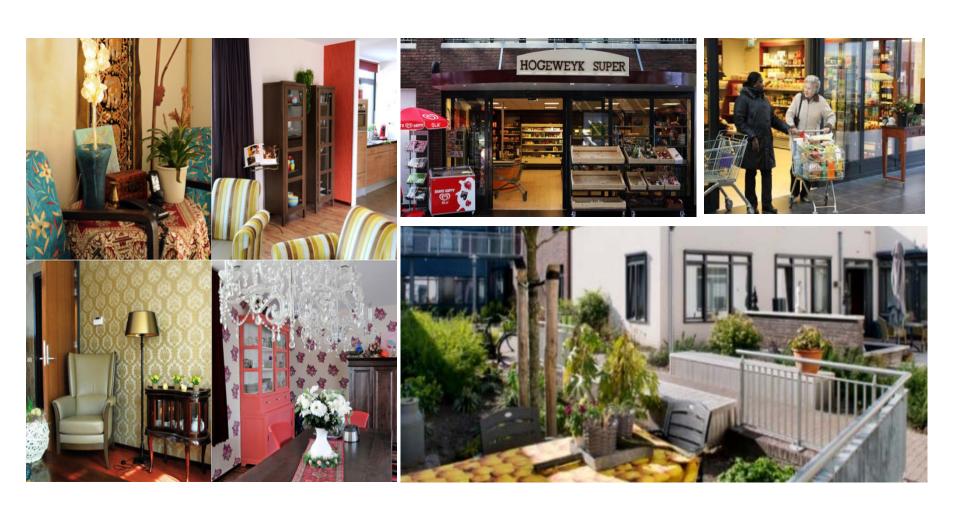
HOGEWEY DEMENTIA VILLAGE







HOGEWEY DEMENTIA VILLAGE



HOGEWEY DEMENTIA VILLAGE







MIXED AGE COMMUNITIES

GOALS FOR TODAY'S DEMENTIA COMMUNITIES



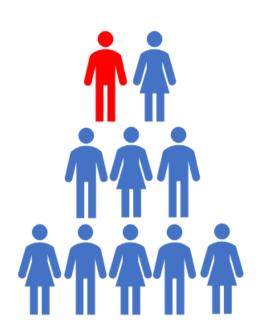


CREATING CONNECTIONS

GOALS FOR TODAY'S DEMENTIA COMMUNITIES

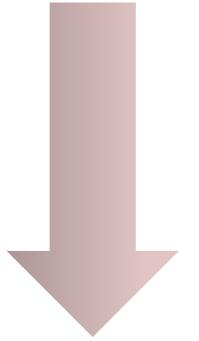


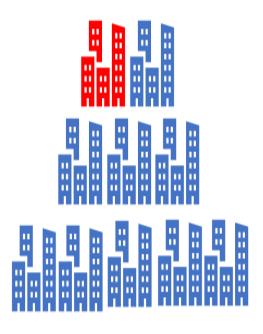
CONVERGENCE OF NEEDS



5 million people in America currently have some form of dementia, a number expected to rise to 13.8 million people by 2050 (Greenlee, 2013).







Forecasts are that 10% of the nation's 1,000 enclosed malls will fail by 2022, eventually converting to uses other than retail.

DEMENTIA FRIENDLY CITY CENTER

A new kind of spatial landscape which requires new tactics of inhabitation, new theories toward dwelling and new attitudes toward illness (Lonsway, 2007).

Lonsway, B. (2007). The Experience of a Lifestyle in The Themed Space: Locating Culture, Nation and Self. Lexington Books: 2007.

DEMENTIA FRIENDLY CITY CENTER

Mission:

An environment designed to promote a comfortable and productive model for everyday life for those living with dementia and their families. The DFCC can be used to encourage a focus on wellness over illness, promoting an environment which allows individuals the ability to construct their own everyday narrative.

DEMENTIA FRIENDLY CITY CENTER



Sustainability



Therapeutic Environment



Wayfinding



Universal Design

CASE STUDY SITES



Case Study 1



Gabi Pereira
OSU Faculty

Case Study 2

STUDENT DESIGN CHARRETTE





This case study site is an 800,000 sq. ft. enclosed mall opened in 1974 and closed in 2017.

https://www.dropbox.com/s/szi1l5igiozd91i/T his%20Short.mp4?dl=0

CONVERGENCE CHARRETTE

Three day Student Design Charrette, Spring 2018

Friday 6:00-8:00pm Project Introduction

Saturday 9:00-4:00pm Team work

Sunday 1:00-4:00pm Presentations/Awards

Students from Architecture, Landscape Architecture, Interior Design,
 Gerontology, Nutrition, Human Development and Family Science, Education

27 Students in 5 teams

M=25% F=75%

• Sophomore 33%

• Junior 33%

• Senior 25%

• PhD 9%

STUDENT DESIGN CHARRETTE



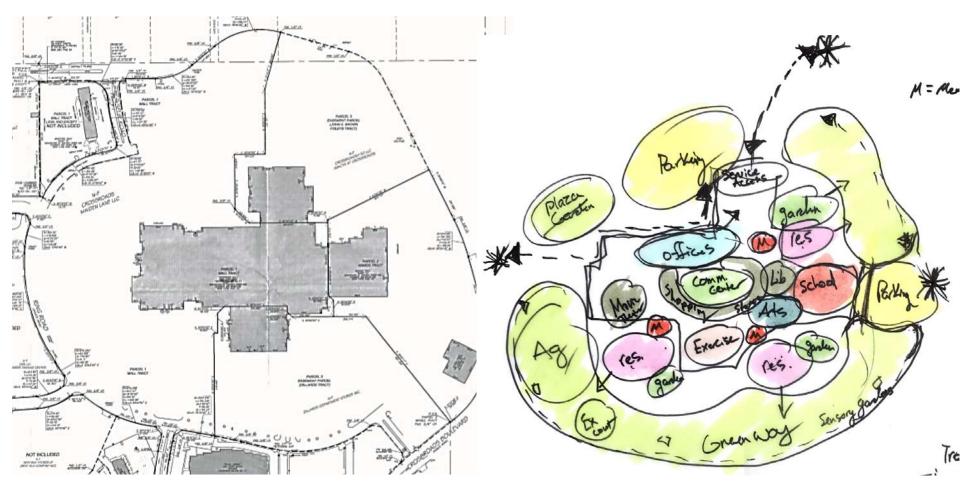








SITE COMPENENTS



CONCEPTUAL SITE PLAN



CONCEPTUAL SITE SKETCHES



View of City Center



A mixed-use public /private partnership for residents with dementia, their families and the general community.

City Center Section



Yoga park



Community Garden

CONVERGENCE COMMUNITY WORKSHOP

November 2018-Oklahoma City, OK

A community visioning workshop focused on sustainable practices for mixed-use community based dementia programs and services. Education about needs and concerns of individuals living with dementia and their families to support a strong community awareness about the impact of dementia



INVITED WORKSHOP SPEAKERS



Jennifer Sodo, AIA
Perkins Eastman Senior Living Studio



Dr. Lorraine HiattImprov-Aging Environmental Gerontologist



Dr. Jennifer Senick
Rutgers University



Dr. Nisha FernandoUniversity of Wisconsin



Jeff Anderzhon, FAIA
Eppstein Uhen Architects

COMMUNITY WORKSHOP ATTENDEES

65 community members from memory care and medical fields, architects, landscape architects, state health employees, social workers, and family caregivers attended the all day workshop. Also in attendance were OSU students, faculty and alumni, as well as members of an International Delegation visiting the College of Human Sciences from Fu Jen Catholic University in Taiwan.

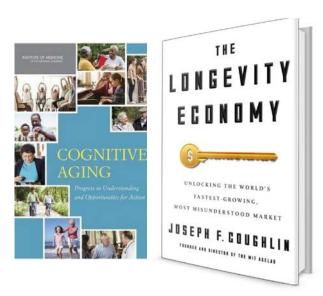


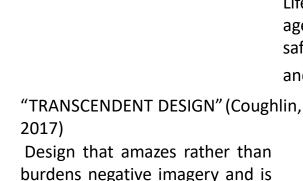


CONVERGENCE VISIONING WORKSHOPS

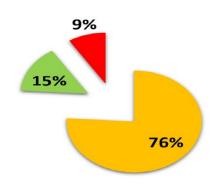
NEWER ROLES FOR OFFERING EVIDENCE-BASED DESIGN

- ☐ Illustrate Realistic data on Memory Variations/Functions
- ☐ Offer Tool Kit of Programs vs. "Themed" Design
- ☐ Capital/operating cost insights





valued across markets of users 1.3



Operations

Consumables

■ Initial Construction

Life cycle costs suggest that investments in age friendly design, including care partner safety mitigate costs of staffing/operations and some nursing home needs/dependency.

CONVERGENCE VISIONING WORKSHOP

Examples Of Data, Criteria and Outcomes Sough ☐ Safety (Falls, Exits, Objects)
☐ Movement
 Lower, Upper Body, Balance, Sit-Stand Wayfinding Roaming/Wandering Sensory Optimization Social Choices
 □ ADL* Assistance and Bio-Care □ Stress Mitigation □ Serendipity □ Fresh Air

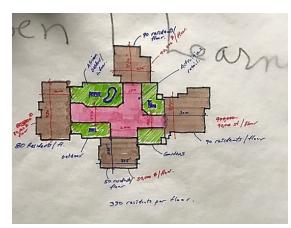
Roles for Environmental Social Scientists: *Project Justification*

	Global Memory		
Assists/ ADL Sum	Some Memory Fragmenting	Moderate Memory Loss	Profound Memory Needs
More Capable			
Average			
More Assists			

CONVERGENCE COMMUNITY WORKSHOP

- 1. Participants' Knowledge
 - Development
 - ☐ Aging/Health Services
- 2. What vs. How Projects...
 - ☐ Get Built
 - ☐ Are Viable
- 3. Value of Imagery, Even "Imagined Imagery"
- 4. Gaps in Insights
 - Memory "Enhancement" vs. "Care"
 - Urban Considerations: Scaling
 - ☐ Capital and Operation\$ Costs









BREAKOUT SESSIONS

- 4 breakout groups led by workshop speakers
- Working Lunch
- Note Takers to capture dialog



BREAKOUT SESSION DEBREIF



WORKSHOP THEMATIC OUTCOMES

Urban Re-greening through Sustainable Building Practices

• Energy generation, graywater systems, green roof tech, waste management, maintenance

Therapeutic Environments for Health and Wellness

• Spirituality, walking trails, pool/fitness, pet therapy, multi-sensory gardens, library, community classrooms

Re-purposing Commercial Mall Environments

• Shopping/dining options, accessibility, visibility, security, seating, community outdoor venue, ownership, federal/state/local partnerships

Improved and Expanded Dementia Programs and Services

• Intergenerational education, medical, OT, PT, social services, volunteerism, community education, PACE and other day programs, research, technology, regulation

CURRENT STUDENT DFCC DESIGN WORK



Andre Ferreira
OSU Student

CITY CENTER ENTRANCE

CITY CENTER SHOPS

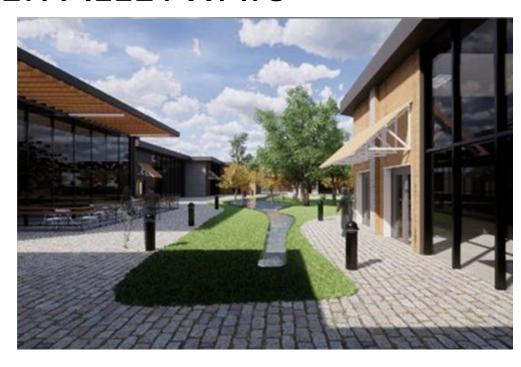


CITY CENTER PLAZA



Andre Ferreira OSU Student

CITY CENTER ALLEYWAYS



Andre Ferreira
OSU Student





CITY CENTER FARMERS MARKET



NEXT STEPS

- Stakeholder Focus Groups (4+)
 - Caregivers
 - Medical Professionals
 - Design Professionals
 - Social Services Professionals
- On-line survey for larger community
- Continue with student designs and the development of a tool kit for other communities and entities interested in improved dementia programs and services, therapeutic environments for health and wellness and urban re-greening through sustainable building practices.
- Follow-up community education event (2020)

SPECIAL THANKS TO OUR FUNDERS





9 Month Grant



OSU Humanities, Arts and Design Program

1 year Grant



Non-Profit for Innovative Aging Research

2 Year Grant



Questions?

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