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## Empowering Aging Populations: Exploring New Technology for Independent Living

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# Empowering Aging Populations: Exploring New Technology for Independent Living

Capstone Scholarly Presentation

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Organizations: UOP, Eskaton, &  
Reshub

UNIVERSITY OF THE  
**PACIFIC** | School of  
Health Sciences  
Occupational Therapy



Presented by  
**Rogelio Diaz**



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# Background

Why is my topic important?

Targeted Population: Older adults 65+, the aging population.

- "Digital Divide" between older adults and types of technology (Gilson et al., 2019; Kotl et al., 2021; Peek at al., 2016).
- There are proposed benefits to using types of technology in this population
- Benefits include:
  - Increased independence
  - Cost-effective solution to saving money
  - Mental and physical benefits (Gregory et al., 2019; Kaydlack & Cotten, 2020).

# Capstone site: Eskaton

## What is Eskaton?

- A regional nonprofit that supports aging services
- Offers various programs for the aging population

## Mission Statement:

Eskaton's primary mission is to enhance the quality of life of seniors through innovative health, housing, and social

services.

## Reshub:

Provides an experience platform in order to empower residents.



# Program Purpose



- Support the Reshub & Eskaton team. Completion of educational-based material targeted towards staff, residents, & family related to new technology introduced in the community.
- Completion of Eskaton Academy program material in order to support new & current staff. Educate staff on the vibrant culture of Eskaton, give resources, & empower staff.

# Guiding Model

## Environmental Press Model (EP)

- Guide: Using environmental press to adjust the optimal level of needs in the community (Environmental press model, 2019).
  - Example: Reshub device "Eskaton Connect"- A change in structure & function to a space. To empower the resident, family, and/or staff member.

## **Reshub** – Biopsychosocial model

- Three interchanging factors: Influence on overall health and well-being (Megan, 2021)
  - Biological
  - Psychological
  - Social

# Literature Review



## Literature Review – What is states

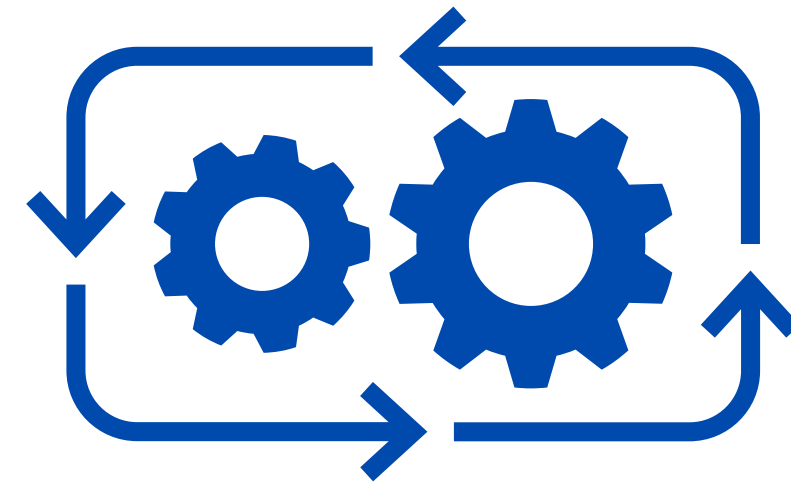
- Influential Factors & themes:
  - Social network
  - Family influence
  - Health care partners
  - Accessibility of devices
- Adopting Technology in older adults is on a case-by-case basis & different among persons, groups, & communities.

# Needs Assessment

## Needs Assessment- SWOT Analysis

What I learned (areas of improvement)

- staff burnout
- communication:
- staff <>resident
- staff<>family
- Lots of opportunities for increasing workflow

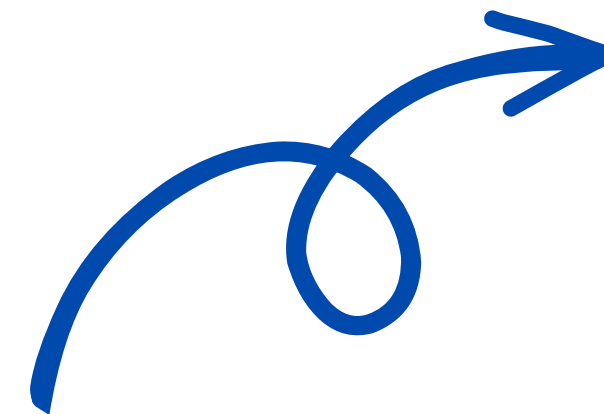




# Filling the Gap

How to fix the problem

- To support and educate staff, residents, and families through educational-based material on a new device "Eskaton Connect" through my deliverables.





# Project 1: Eskaton Academy - Core Competency Training Outcomes

## Day 1 (Introductory Track)

- Introduction to Eskaton and Experience Standards
- Eskaton Basics (HIPAA corporate compliance)
- Resident Rights
- Theft and Loss and Elder Abuse
- Philosophy of Care
- Cultural Competency, Supporting LGHTBQIA+
- Workplace Wellness, Disaster Training

## Day 2 (Dementia Track)

- Psychosocial Needs of Older Adults
- Understanding Neurocognitive Disorders
- Understanding Causes and Types
- Interpreting Unmet Needs
- Interpreting Unmet Scenerios



# Eskaton Academy - Core Competency Training Outcomes

## **Day 3 (Dementia Track)**

- Mental Health and Aging
- Navigating Grief and Loss
- Creating a Person Directed Culture
- Creating Supporting Environments

## **Day 4 (Aging Processes Track)**

- Physical Needs of Older Adults
- Assisting with ADL's
- Understanding Falls



# Eskaton Academy - Core Competency Training Outcomes

## **Day 5 (RCA Track/RMA Part 1 Track)**

- Medication Policies and Procedures
- Postural Supports, Restricted, Prohibited, and Allowable Conditions
- Navigating Hospice and Palliative Care
- Understanding End of Life

## **Day 6**

- RMA Part 2 Track 8-Hour Medication



# Part 2: Introduction to Reshub & Team

## Pre-initial Setup

- Completed a DEMO

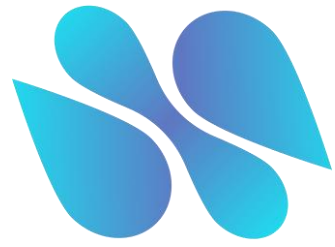
## Introduction to Eskaton Communities

- Initial walkthrough

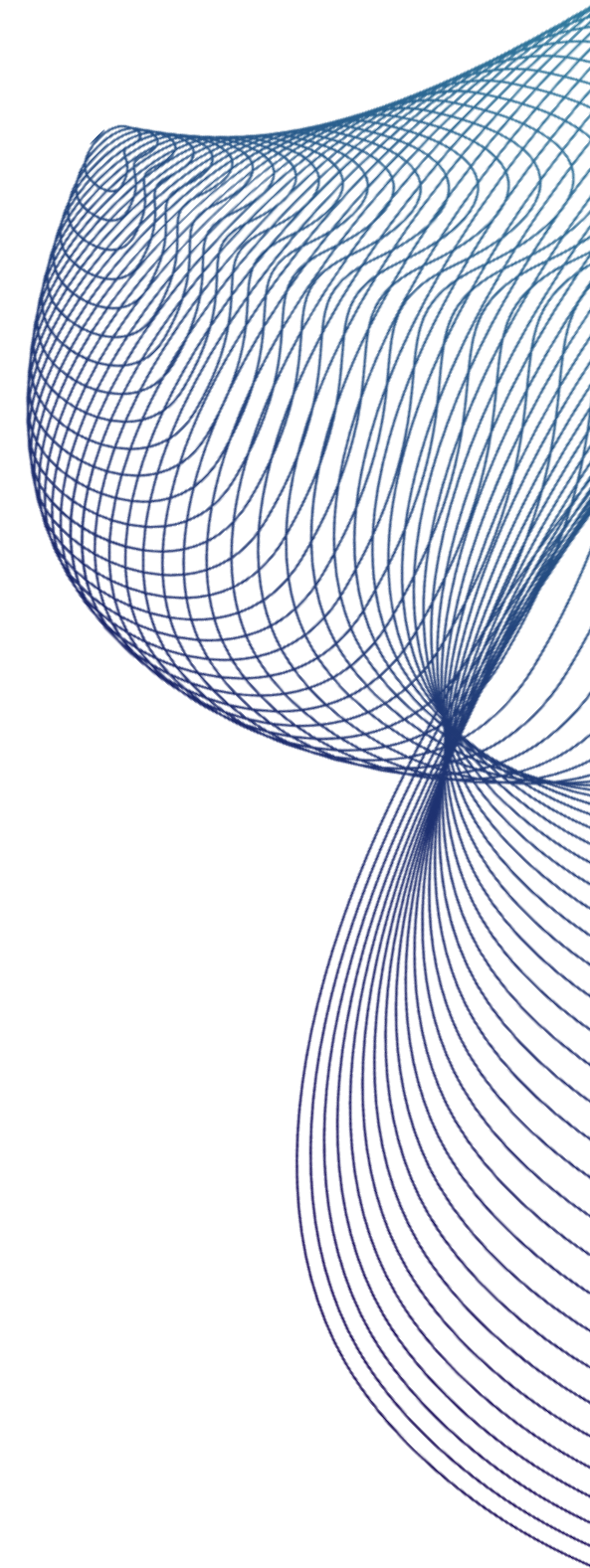
## Pilot Day (Experience Center)

- Onsite introduction and meeting with Sean & Niel from Reshub
- Hands-on Learning with device
- Staff training - Eskaton Connect





# Reshub Interface - Eskaton Connect



# Reshub- Eskaton Connect Outcomes

- First Reshub product implemented in North America
- Implementation of the device in Eskaton Roseville Community
- Introduction of the device to staff
- Staff training of device
- Staff usage of devices during community events



**Eskaton Connect**  
A new program is coming to your community!



**What it is**  
Eskaton Connect makes it easier for you to access your menu, events, announcements and so much more!



You will be trained on how to use the new program using your voice and your existing TV. It can also be accessed using your other personal devices.

**Mobile app coming soon for families**  
Stay connected with your loved one

**User-friendly and beneficial**

- Video call/chat with family and friends
- Keep up to date with all activities
- A central hub for all communications
- Entertainment center

**ESKATON.**  
Ask an Eskaton team member for assistance or email a ResHub staff member at the email below:  
[support@getreshub.com](mailto:support@getreshub.com)



**ResHub**  
Your Resident Experience Hub

**ESKATON.**  
AGE is Beautiful

A partnership between Reshub & Eskaton

**Eskaton Connect: A Device for you and Community**



Created by Rogelio Diaz.



**ResHub**  
Your Resident Experience Hub

**ESKATON.**  
AGE is Beautiful

**Reshub and Eskaton: A New Device for Empowering you and your Community**



Created by Rogelio Diaz

# Discussion

## Reshub - "Eskaton Connect"

- Benefits to residents:
  - Empower adults to be independent
  - Physical benefits
  - Mental benefits
  - Life Enrichment
  - Increased communication & efficiency



## Eskaton Academy

- Staff better educated to support themselves and empower residents
- Complimentary to Eskaton device
- Support of staff resources
- Two new Eskaton Academy trainers
- New Eskaton Academy room





# Impact

## Reshub - "Eskaton Connect"

- Future implementation in other Eskaton communities
- Adoption in more states and countries
- Positive transformation of device/platform
- Role of OT: Advocacy for devices in other communities, technology expert/community liaison.



## Eskaton Academy

- Eskaton Academy training rooms at each site
- Course content to be created/delivered through an online program
- Role of OT: Academy educator, work on other related programs



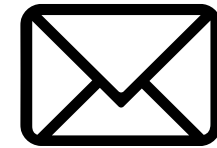
# Thank You!

Let's connect! For more questions and comments  
please contact me.

## Rogelio Diaz

Thank you to everyone who  
has helped me through this  
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# References

Eskaton mission . Eskaton. (2019, September 10). <https://www.eskaton.org/about-us#:~:text=Eskaton%27s%20primary%20mission%20is%20to,health%2C%20housing%20and%20social%20services>.

Environmental press model. (2019, May 16). Aging In Place. <https://aginginplace.com/environmental-press-model/>

Fields, J., Cembali, A. G., Michalec, C., Uchida, D., Griffiths, K., Cardes, H., Cuellar, J., Chodos, A. H., & Lyles, C. R. (2021). In-Home Technology Training Among Socially Isolated Older Adults: Findings From the Tech Allies Program. *Journal of applied gerontology : the official journal of the Southern Gerontological Society*, 40(5), 489–499. <https://doi.org/10.1177/0733464820910028>

Gilson, A., Dodds, D., Kaur, A., Potteiger, M., & Ford II, J. H. (2019). Using Computer Tablets to Improve Moods for Older Adults With Dementia and Interactions With Their Caregivers: Pilot Intervention Study. *JMIR formative research*, 3(3), e14530. <https://doi.org/10.2196/14530>

Gregory, A., Mackintosh, S., Kumar, S., & Grech, C. (2017). Experiences of health care for older people who need support to live at home: A systematic review of the qualitative literature. *Geriatric nursing (New York, N.Y.)*, 38(4), 315–324. <https://doi.org/10.1016/j.gerinurse.2016.12.001>

Kaydlack, T., Cotten, S. (2020) United States older adults' willingness to use emerging technologies 10.1080/1369118X.2020.1713848

Köttl, H., Gallistl, V., Rohner, R., & Ayalon, L. (2021). "But at the age of 85? Forget it!": Internalized ageism, a barrier to technology use. *Journal of aging studies*, 59, 100971. <https://doi.org/10.1016/j.jaging.2021.100971>

Megan. (2021, October 10). Three aspects of health and healing: The biopsychosocial model in medicine. Department of Surgery. [https://surgery.wustl.edu/three-aspects-of-health-and-healing-the-biopsychosocial-model/#:~:text=The%20“biopsychosocial%20\(BPS\)%20model,all%20aspects%20of%20our%20lives](https://surgery.wustl.edu/three-aspects-of-health-and-healing-the-biopsychosocial-model/#:~:text=The%20“biopsychosocial%20(BPS)%20model,all%20aspects%20of%20our%20lives).

Peek, S. T., Luijkx, K. G., Rijnaard, M. D., Nieboer, M. E., van der Voort, C. S., Aarts, S., van Hoof, J., Vrijhoef, H. J., & Wouters, E. J. (2016). Older Adults' Reasons for Using Technology while Aging in Place. *Gerontology*, 62(2), 226–237. <https://doi.org/10.1159/000430949>

Preusse, K. C., Mitzner, T. L., Fausset, C. B., & Rogers, W. A. (2017). Older Adults' Acceptance of Activity Trackers. *Journal of applied gerontology : the official journal of the Southern Gerontological Society*, 36(2), 127–155. <https://doi.org/10.1177/0733464815624151>

Tural, E., Lu, D., & Austin Cole, D. (2021). Safely and Actively Aging in Place: Older Adults' Attitudes and Intentions Toward Smart Home Technologies. *Gerontology & geriatric medicine*, 7, 23337214211017340. <https://doi.org/10.1177/23337214211017340>