

UC San Diego's North Torrey Pines Living & Learning Neighborhood

Maintaining Life and Learning Continuity
Through a Pandemic



A Resilient Approach to Social Wellbeing on a Live-Learn Campus: Lessons from the Field

Program Summary/Description

Using UC San Diego's North Torrey Pines Living and Learning Neighborhood (a 2,000-bed mixed-use college) as a case study, we share design strategies, rooted in the fundamentals of creating a strong sense of community and wellness, that also provided resiliency in an unexpected health crisis. We will explore outcomes that are currently being studied in a unique research coalition between the design team and the University to learn how lessons can be applied to future living and learning communities.

Learning Objectives:

Learn about the UC San Diego College System and how it is supports goals for student experience, diversity and access and community enrichment.

Gain an understanding of how design strategies for the North Torrey Pines Living and Learning Neighborhood focused on health and wellness and community.

Learn how design strategies that provide structural resilience in both normal and pandemic times, can also provide physical and emotional resilience of the student resident population.

Presentation Outline

The presentation outline is as follows:

Nathan Bulter, HKS Architects, Regional Design Director (4 minutes)

Presenter introductions

Interactive strategy – Polling and discussion of questions to be determined

Lakshmi Chilukuri, UC San Diego, Provost of Sixth College (8 minutes)

Lakshmi will provide a history and broad overview of UC San Diego system of Colleges, each with its own residential neighborhood, general education curriculum, support services and distinctive traditions.

She'll share how the College system vision to provide unique opportunities to live and study alongside people with diverse interests, backgrounds and educational paths informs and strengthens the University's first-ever Strategic Plan.

Thom Greving, HKS Architects, Regional Design Director (8 minutes)

Thom will share an Illustrated discussion of the North Torrey Pines Living and Learning Neighborhood Design and its foundational focus on social and environmental health and wellness and alignment with the UC San Diego's Transformational Goals.

Thom will share the programmatic complexities as well as design strategies to address health and wellness as well as building community.

Dr. Upali Nanda - Director of Research, HKS Architects (8minutes)

Dr. Nanda will explain how a required research deliverable as a part of the architectural design process led to the project becoming a "living lab" to study the effectiveness of design strategies aimed at increasing student wellbeing through creating community.

She will share how these strategies integrate with NTPLLN's founding design principles of health and wellness to translate into structural resilience in both normal and pandemic times, as well as physical and emotional resilience of the resident population.

Elinor Owen – UC San Diego Student and Research Fellow

Elinor will explain her role as resident research fellow working during the pandemic to support the research initiative.

Presenters



Nathan Butler
FAIA, LEEP AP

HKS

Principal Regional Director



Dr. Upali NandaPhD, Assoc. AIA, EDAC, ACHE
HKS; CADRE

Principal Regional Director



Lakshmi Chilluri LEED AP BD+C

UC San Diego

Provost, Sixth College



Thom Greving
FAIA, LEED GA

HKS

Design Director



Elinor Oren

UC San Diego

Live-Learn Lab Fellow, CADRE



What does Social Resilience Mean to You?





What drives social connection

- Ability to make new friends
- Ability to hang out with my friends
- Feeling like I belong
- Ability to interact
- Finding my community
- Being healthy
- Doing well in academics

What were students most concerned about before the pandemic- around social connection





What were students most concerned about during the pandemic- around social connection





What were students most concerned about during the pandemic





UC San Diego Campus

- 1,163 Acres
- Fall '20 Enrollment of 40,483
 (31,842 undergraduate and 8,641 graduate/professional)
- 18 Million Square Feet of Space (600+ Buildings)
- Over 16,000 Beds
- 7 Colleges
 (with 8th in construction)





"The campus is on its way to becoming a true learning-living environment and a destination for art, culture, recreation and world-class patient care."

- Enhancing the Student Experience
- Sparking Research and Innovation
- Enriching the Campus Community



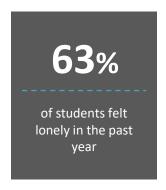




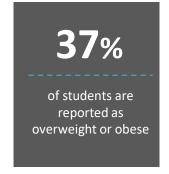
Why We Need Neighborhoods

Mental Health

Rate of depression among college students has increased since the start of the pandemic.



Source: National College Health Assessment, Fall 2018, Anxiety and Depression Association of America Physical Health & Wellbeing



Source: National College Health Assessment, Fall 2018, Anxiety and Depression Association of America

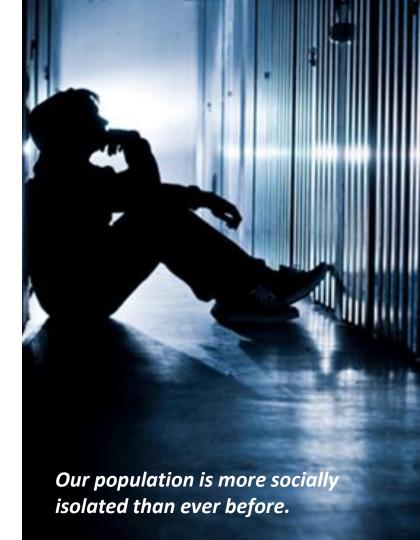
Loneliness

Source: UCSD Student Life

Students with a documented anxiety disorder

Appx 1 in 4





UC San Diego Sixth College Visioning Session Results

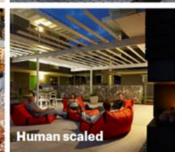


UC San Diego
Sixth College
Visioning
Session Results





















UCSD North Torrey Pines Living and Learning Neighborhood Goals & Objectives

- Make a Neighborhood
- Leverage Context
- Activate the Public Life
- Create Sustainable Mobility
- Instill Resilience
- Promote the Strategic Vision
- Nurture Academic Excellence

The UC San Diego South Campus Master Plan, 2018

Highly Qualitative Detailed Project Program

- **01** Integrated Neighborhood
- **02** Environmental Responsibility
- **03** Student Wellness
- **04** Hospitality Approach
- **05** Advanced Learning Environments
- **06** Research Requirement



UC San Diego North Torrey Pines

- Site Size: 12 acres at UC San Diego
- Building Area: 1,500,000 total sf
- Cost: \$628 million
- Residential Opening: Fall 2020
- Complete Occupancy: Fall 2021

- 2,048-beds, Student Residences
- 200,000 sf Academic Building (Arts & Humanities & Social Sciences)
- 64,000 sf Community Program
 (Dining, Craft Center, 650-Seat Auditorium, Classrooms, Market, Coffee Shop, Retail)
- 1,200-Vehicle Underground Parking
- 20,000 sf Administrative Building (Provost, Student Affairs & Academic Advising)







Site Plan | North Torrey Pines Living & Learning Neighborhood



Design Hypothesis: Health and wellbeing will improve after moving to the new campus COVID Hypothesis: Designing for health & wellbeing will provide pandemic resilience

We found that the design wasn't always used as intended (Designing for health and well being allows for resilience)

Design is a Hypothesis
The Lived Experience is the Outcome

Design Drivers

Environmental Health and Wellbeing

Social, Physical & Mental Health and Wellbeing





Design for Environmental Health and Well-Being

- Take full advantage of the La Jolla climate
- Healthy Living

Exercise

Healthy Choice

"Point of Decision Design"

Access to Healthy Food

- Connection to Nature & Views
- Indoor-Outdoor Connectivity
- Programed Outdoor Spaces
- Natural Ventilation & Daylighting



Design for Social, Physical & Mental Health and Well-Being

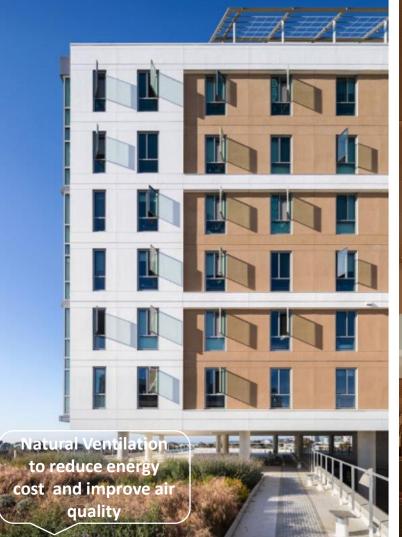
- Welcoming Neighborhood
- Enable Social Connections
- Mixed-Use & Integrated Program
- Design to the Human Scale
- Address Every User Point-of-View
- Pedestrian Oriented, parking underground











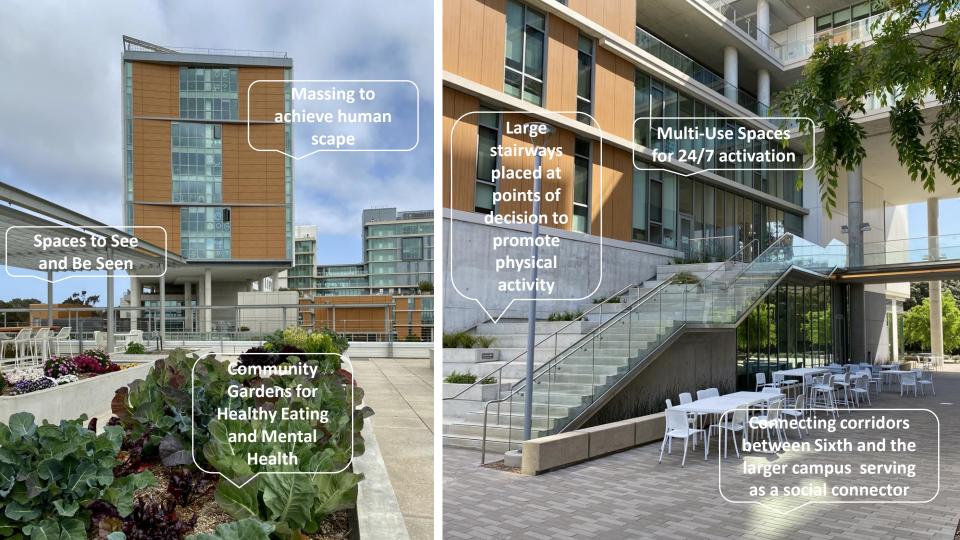


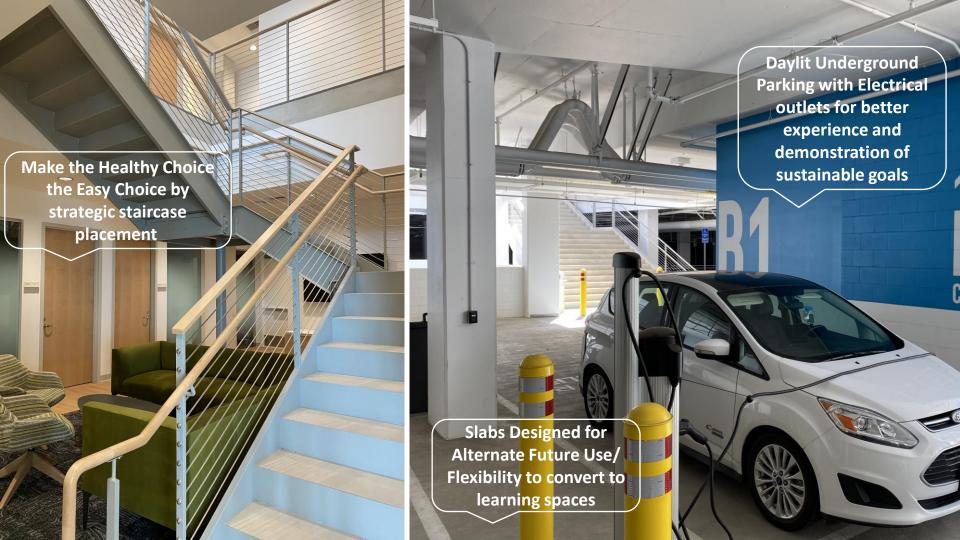






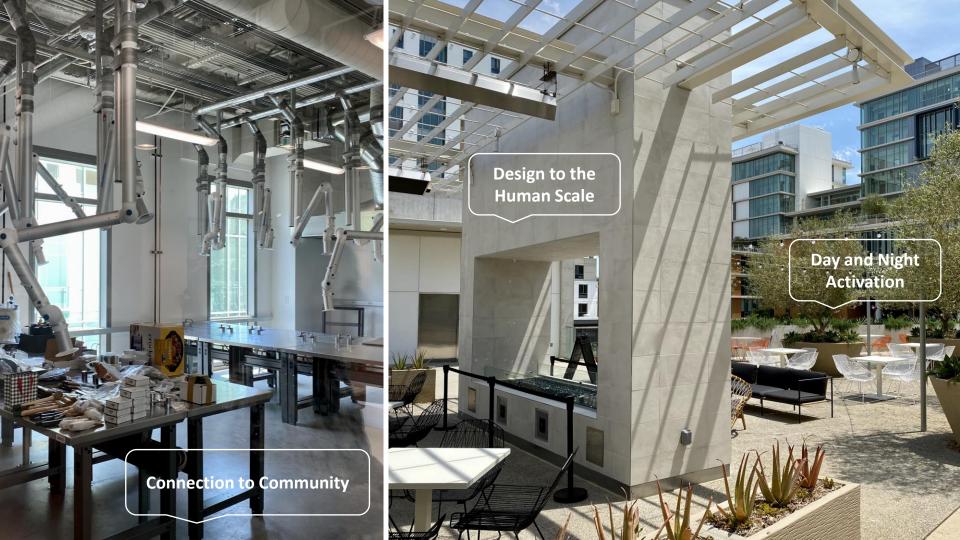


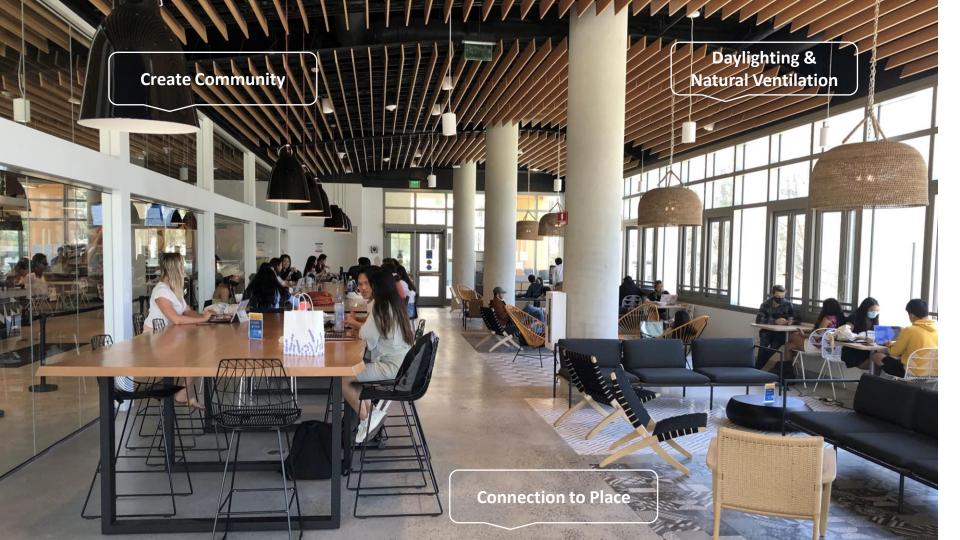












Methodology

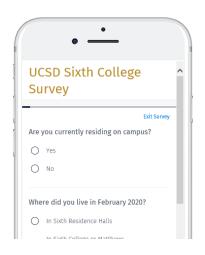
Phase 1: 2019-2020 **Phase 2:** 2020-2021



32 likes
emiveneziana Thank you UCSD
@sixthcollege for the care package for
@vvsmarco!

First Impressions Study

First reactions to residential halls and move in experience



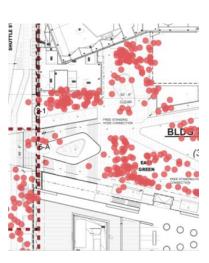
Surveys

Campus design and space utilization, sense of belonging and inclusion, health and wellbeing, environmental stewardship, and time usage



Focus Groups

College experience, residential hall, transportation mode and diet options on campus, space usage, social connections, sustainable behavior, health and wellbeing



Behavior Mapping

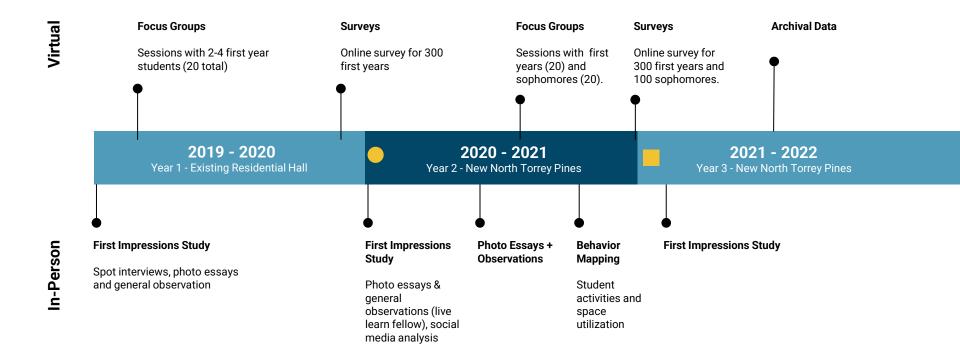
Capturing of activity and location data of students in public spaces



Methodology + Timeline

September 2020 - Campus Partially Opened

September 2021 - Campus Fully Open



Creating a Live-Learn Lab









Coalition for Live-Learn Labs: When Capital Projects Serve as Living Labs for Research & Innovation on Campus

A newly formed coalition of academic and industry researchers launch a prototype partnership in which capital projects serve as live-learn labs.

((

The New Sixth College is a living lab that uses architecture to augment positive behaviors and outcomes, and integrates that understanding into current academics and future capital planning.

- Lakshmi Chilukuri, Provost of Sixth College, UCSD

Neighborhood Study

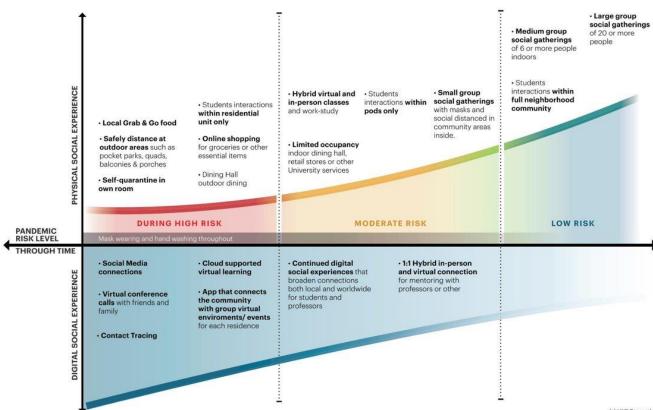
Sustainability Course

Neuro-Lab

Longitudinal **Pre-Post Study**

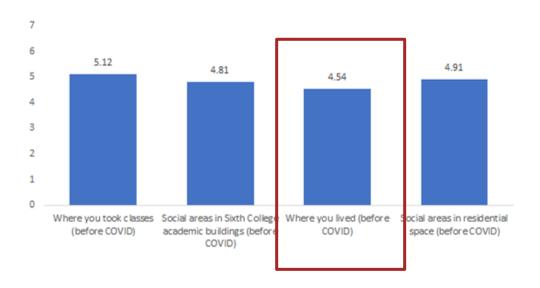


Maintaining Social Connection: A Hybrid, Resilient Approach





Environmental Satisfaction (Where you lived (before COVID))



What will this look like in 2021? in 2022?

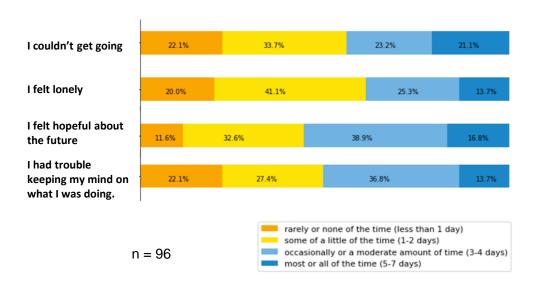
Mental Wellbeing

Overall Composite Scores from Surveys taken during COVID-19:

 Depression - 12.9 overall with 63% of respondents have a test score of 10 or higher (a test score of 10 or higher is indicative of some depressive symptoms

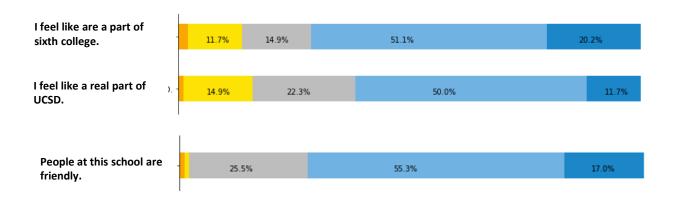
In our focus groups, students indicated that they felt lonely when they spend too much time on social media. To combat this, they will directly reach out to friends (in person or virtual) or generally try to distract themselves.

Depression



Surveys & Focus Groups

Sense of Belonging



n = 96

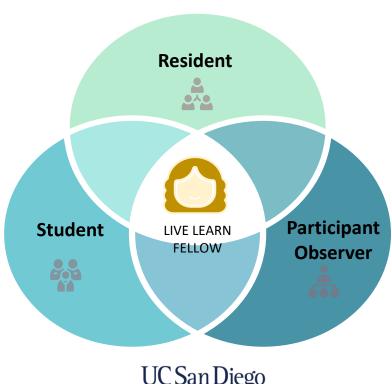


Live- Learn Fellowship









UC San Diego

Space Utilization Options → **Resiliency**

- An organic platform for social distancing is created by the large staircase landings, which allows COVID-safe socialization and flexibly supports groups of different sizes
- 2. Students study "alone together," choosing their comfortable level of proximity for both social distancing and/or learning

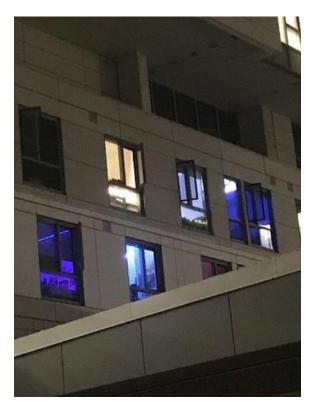




Social Signaling

Students have made use of window visibility and recognized its potential for interconnection, seen through creative displays of self-expression

Digital-physical



"Tik Tok Rooms"



Post-it Note Messages + Conversations

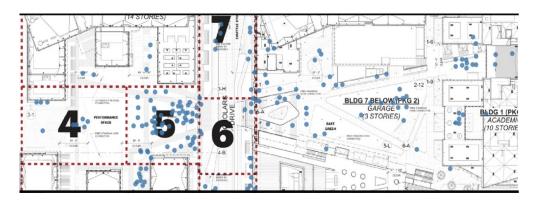
Pre-Dining Hall Open (89 days, 72 maps)

Food as Social Catalyst

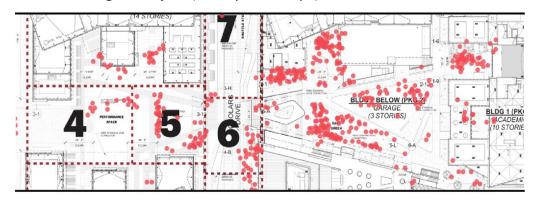
Groups of smaller students in Fall (pre dining hall open) vs Winter (post dining hall open) displays the **change in clustering pattern** and **increase of spontaneous interactions** centered around food



Outdoor space adjacent to new dining hall



Post-Dining Hall Open (15 days, 33 maps)



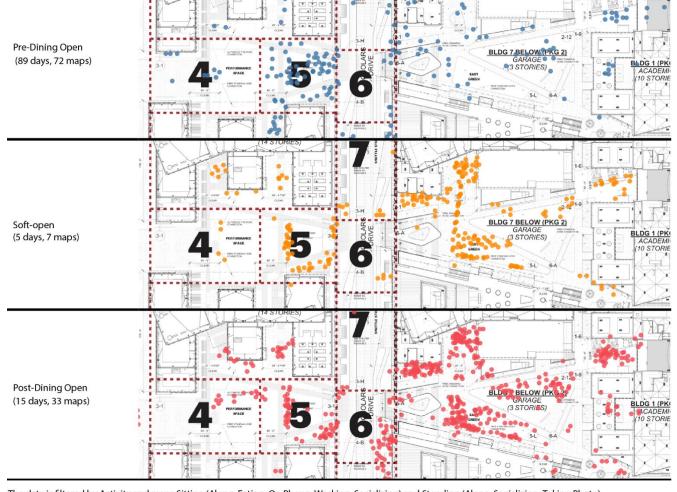


Simple Lessons

ACOUSTICS

BLINDS-LIGHTING VS. PRIVACY PUBLIC &
BUFFER
SPACES

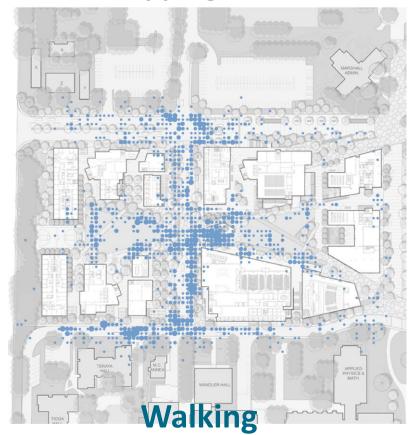
HYBRID STRATEGIES



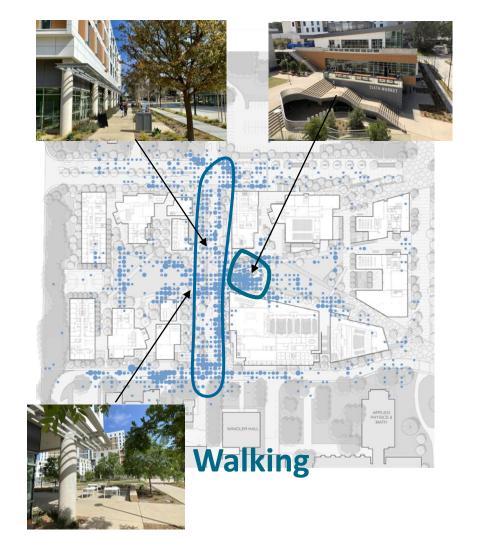
The data is filtered by Activity and maps Sitting (Alone, Eating, On Phone, Working, Socializing) and Standing (Alone, Socializing, Taking Photo). Color shows detail about Dining Hall Open status.

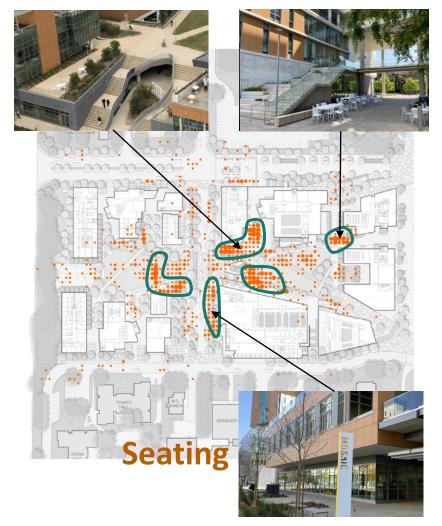
Dining Hall Open

Behavior Mapping

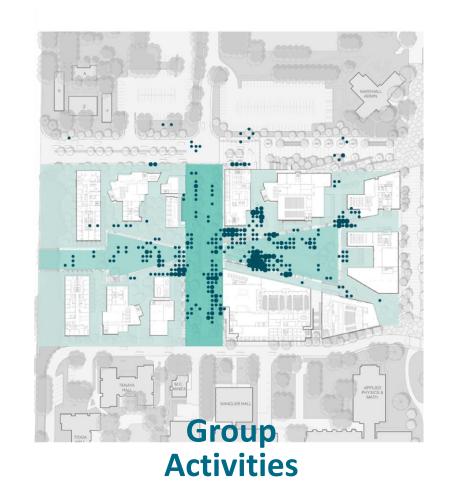


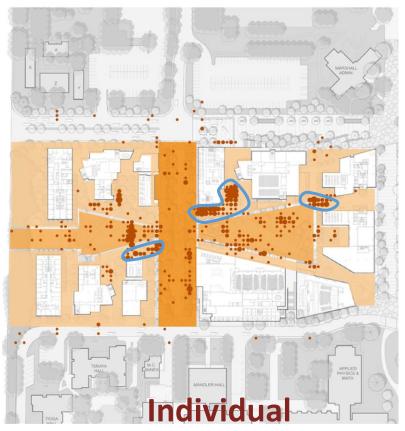






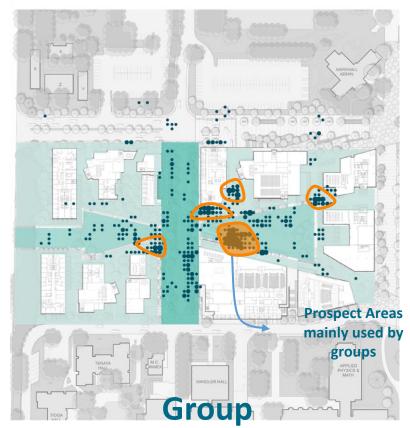






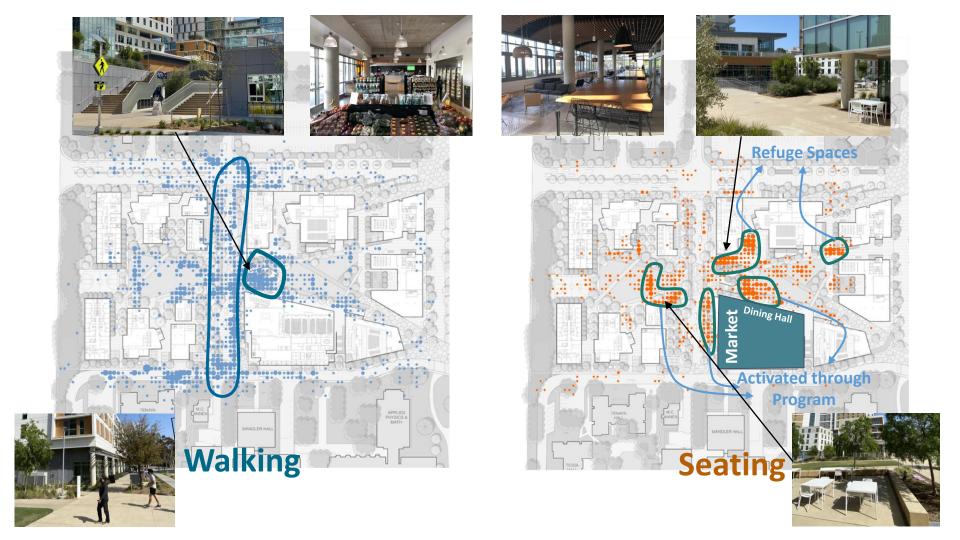
Activities

(studying, eating, sitting alone etc)

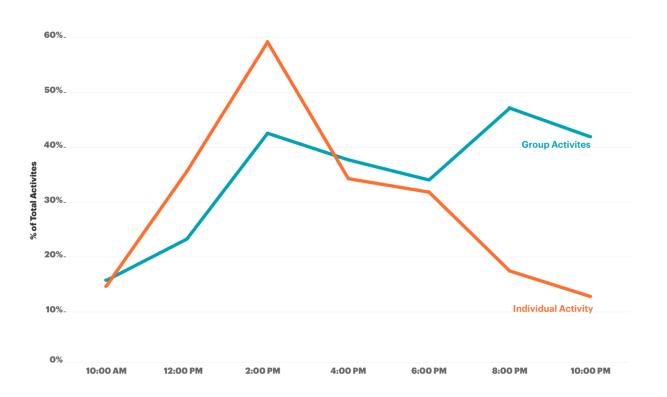


Activities

(socializing, talking etc)

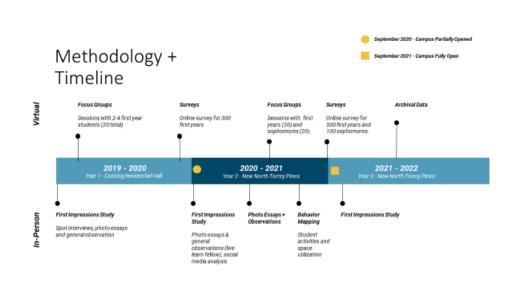


Behavior Mapping – Through a Day



Learning as we go....

- Working with nature and maximizing our natural resources gives us resilience
- 2. Buffers are important
 - a) Build buffers in the construction process
 - b) Build buffers in the space so there are thresholds- to connect & protect
- 3. Flexibility + Adaptability are key
- 4. Consider both physical + digital strategies
- 5. Design in nested scales
- 6. Pay attention to Access and Acoustics

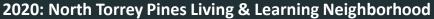




A Vehicle for Continued Learning

UC San Diego: the FIRST Living-Learning Lab







2023: Theatre District Living & Learning Neighborhood

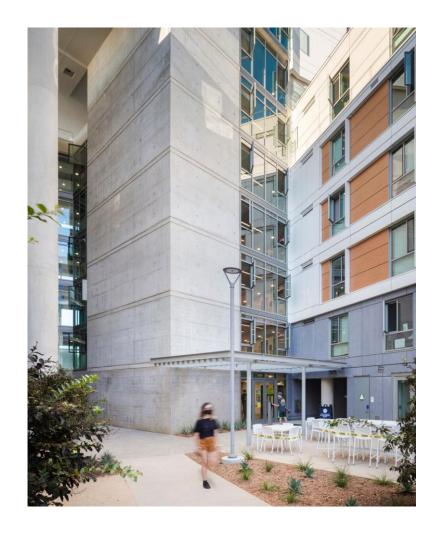




Research Goals:

To investigate the impact of UC San Diego's new North Torrey Pines Living and Learning Neighborhood as compared to the original Sixth College residential facilities by:

- Assessing student behaviors and habits related to social connection, learning, health and well-being, & environmental stewardship
- 2. Comparing space utilization & patterns of behavior changes to assess the efficacy of the new living & learning neighborhood
- 3. Compare overall student wellbeing & academic achievement
- 4. Assess how the interior environment meets students' social needs & traverses the digital and physical to enhance/inhibit experiences & increase human resilience.



A Different Day 1
Then Expected









