

CAMPUS **2** **0** **5** **0**

How campuses are planning for the next 30 years

Bucknell
UNIVERSITY

Caltech

DAVIDSON

DEPAUL UNIVERSITY

Georgia Institute
of Technology

Northwestern
University

PRINCETON
UNIVERSITY

PURDUE
UNIVERSITY

Stanford
University

University of
CINCINNATI

THE
UNIVERSITY
OF RHODE ISLAND

THE UNIVERSITY OF
TEXAS

EAST BAY Rising in the East

WISCONSIN
UNIVERSITY OF WISCONSIN-MADISON

NIAGARA
UNIVERSITY

CONVERGENCE

APPLYING INNOVATIVE
PRACTICE & PROCESS TO
HIGHER EDUCATION

RESILIENCE

PLANNING FOR RAPID,
DISRUPTIVE CHANGE

LIFESTYLE

CREATING ENVIRONMENTS
THAT REFLECT EVER-
CHANGING LIFESTYLES

GENERATION ALPHA



*David Quinn, Palo Alto, CA
Born January 19, 2018
Generation Alpha Extraordinaire
Likes: guitars, helicopters and talking to
Google home*

Children of millennials

Born 2010-2025

2.5 million born each week

Generation Alpha

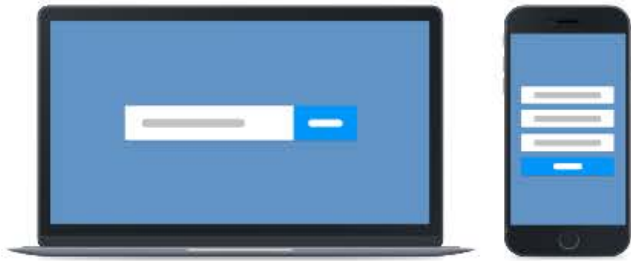
1. Digital masters **Expect learning experiences integrated with AI**
2. Critical consumers **Wealthy and educated**
3. Creative entrepreneurs **Longest life expectancy**
4. Young activists **Socially disconnected**
5. Not attached to their devices **Learn by doing**

LIVE

POLL

How to join

Web



- 1
- 2

Text



- 1
- 2

What is the biggest long-term planning priority at your college / university (student experience, housing, micro-mobility, affordability, sustainability, etc.)?

**What challenges do you think future college students
(about 10 years from now) will face after graduating?**

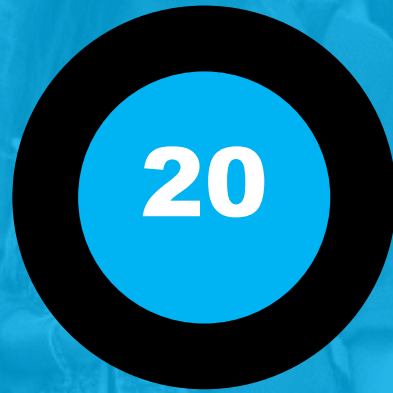
What does student success mean to you (getting a job, higher salary, a degree, etc.)?

CAMPUS 2050 SURVEY

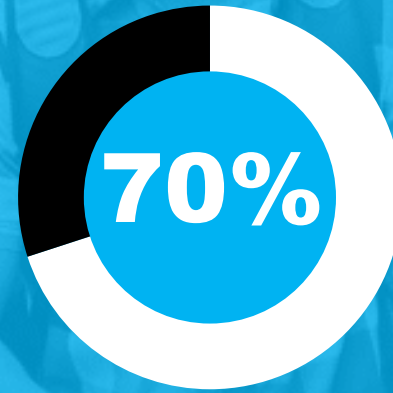
SURVEY DEMOGRAPHICS



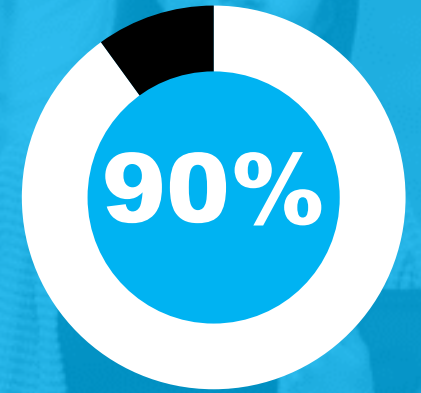
Student, faculty, staff,
alumni and community
participants



Colleges / Universities
represented



Of respondents were from
private universities in the
US



Of respondents
represented colleges /
universities with 5,000+
students

RESULTS

60%

Of respondents believe their institution has the ability to successfully adapt to rapid changes through the year 2050.

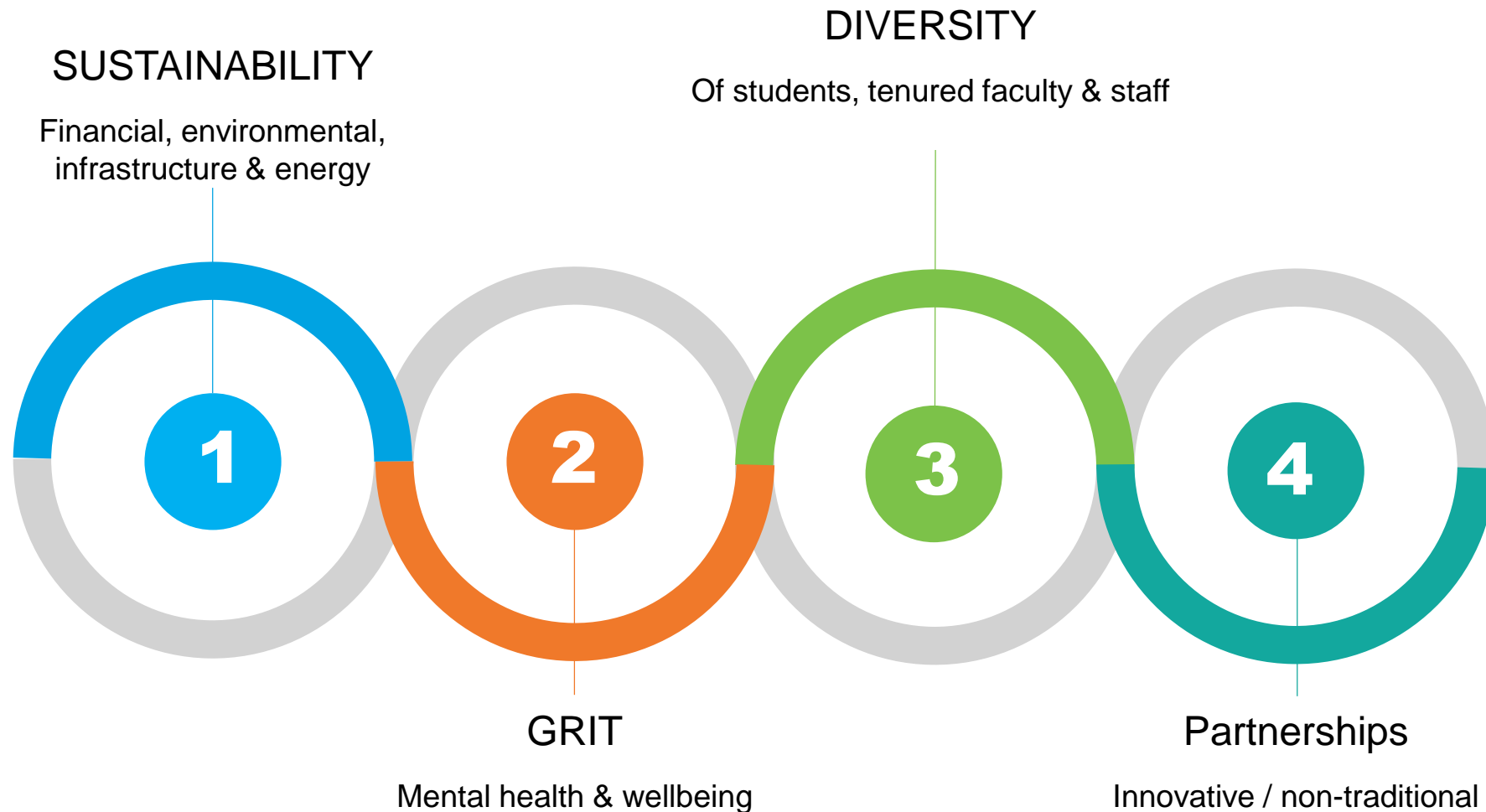
70%

Of respondents believe that **culture** and **place** are the biggest influencers of their campus experience.

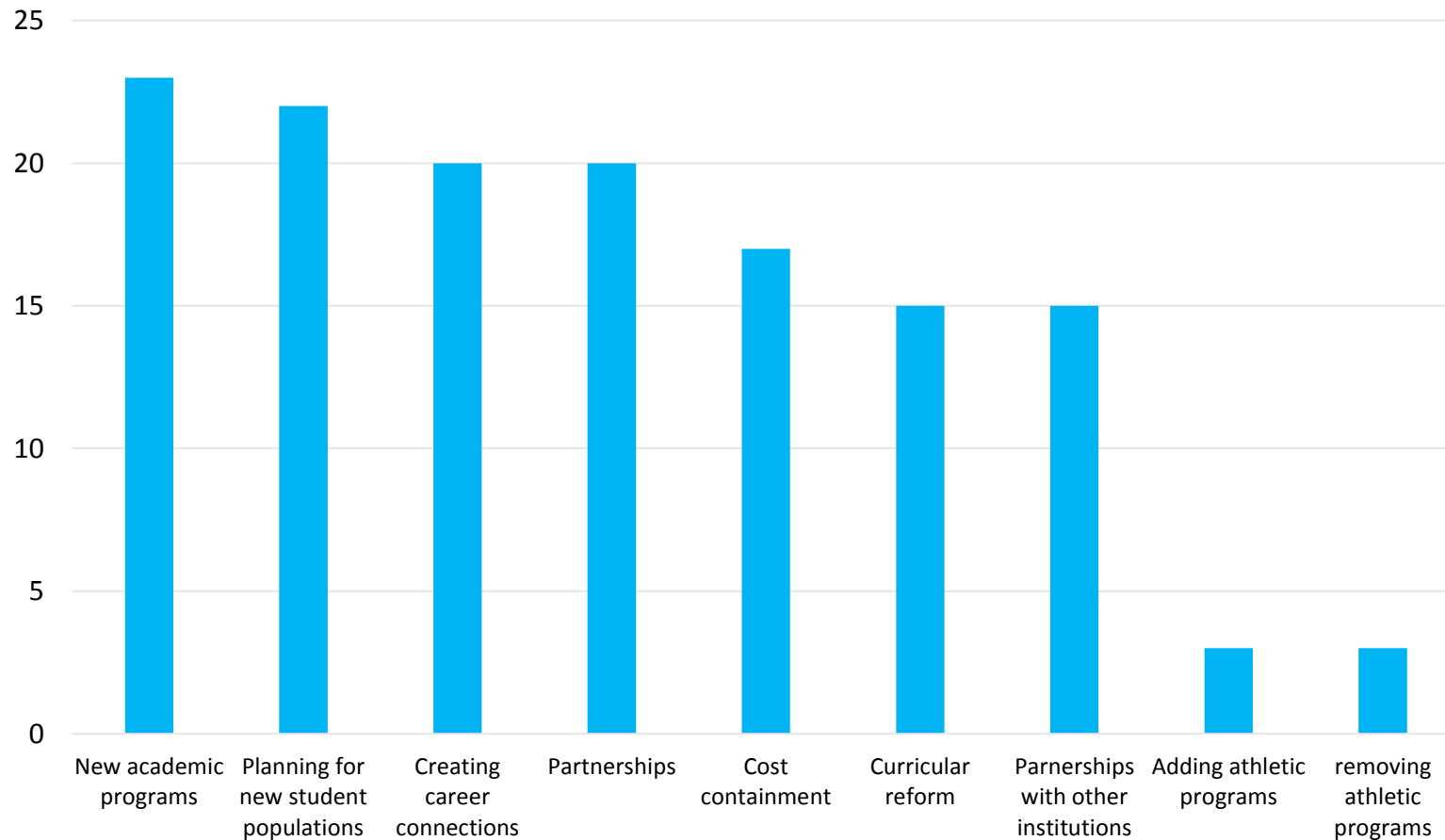
80%

Of respondents believe universities need to look to tech and other countries to inspire change.

TOP 4 FUTURE FOCUS AREAS



Leadership, which areas of focus deserve more attention in the future?



THINKING
DIFFERENTLY



+micro-mobility





+lifelong learning

+Arizona State





NIAGARA UNIVERSITY
Welcome
**STUDENTS &
FAMILIES**

Niagara University
A better student experience =
flexible housing and a ride to a job





amazon
+UC San Diego (+22 other campus locations)

+Investors



BACK A BOILER - ISA FUND
IT'S NOT A LOAN. AND YOU'RE NOT ALONE.

A new innovative option to fund a Purdue education.

It's not a loan. It's not a grant. It's something new and different, providing freedom and flexibility in funding your education as a Boilermaker. It's the Back a Boiler™ Income Share Agreement (ISA), managed by the Purdue Research Foundation.

(Income Share Agreement / ISA)

ESPORTS TO ENGAGE

+130

NACE UNIVERSITY TEAMS

UC Irvine, University of Utah, Miami University+

\$15M

SCHOLARSHIPS & AID

809M

USER COMMUNITY

\$409M

US REVENUE 2019

3,000

STUDENT ATHLETES

\$1.1B

GLOBAL REVENUE 2019

SYSTEM REDESIGN

Moving forward.
Sustaining success.

The State System is transforming itself to expand educational opportunities for students

Student success is our number one priority and the success of our universities is critical to the future of Pennsylvania. We are redesigning the State System so that student success and university success are linked.

What began with a top-to-bottom System Review, soon transitioned into System Redesign. In Phase 1, we began by setting three strategic priorities and then making important changes to help us be more flexible and responsive.

Our Three Priorities



Ensuring student success



Leveraging university strengths



Transforming the governance/leadership structure

[The Redesign Process](#)

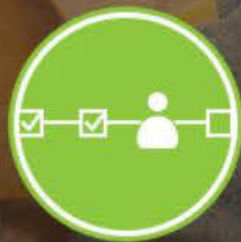
[Learn more](#)

OUR APPROACH

We address the college completion challenge at its root by acting as a data and service bridge between K-12 and higher education. We advance our mission through 3 core activities: TRACK, CONNECT, and COACH. All three activities are linked to a data analytics engine that provides rich insights to education administrators to help them better prepare and support their students for college success.

TRACK

OUR INNOVATIVE ALUMNI TRACKER ALLOWS SCHOOLS AND PROGRAMS TO TRACK QUANTITATIVE AND QUALITATIVE DATA ABOUT THEIR STUDENTS' POSTSECONDARY PROGRESS



CONNECT

OUR "MYCOACH" MOBILE APP HELPS COLLEGE STUDENTS MANAGE KEY DEADLINES, ACTIVITIES, AND BEHAVIORS, AND CONNECTS THEM TO OTHER STUDENTS AND VALUABLE CAMPUS RESOURCES



COACH

OUR KNOWLEDGEABLE AND INSPIRATIONAL COLLEGE COACHES GUIDE STUDENTS AS THEY NAVIGATE CHALLENGES SO THEY CAN BE MORE EFFECTIVE IN AND OUT OF THE CLASSROOM



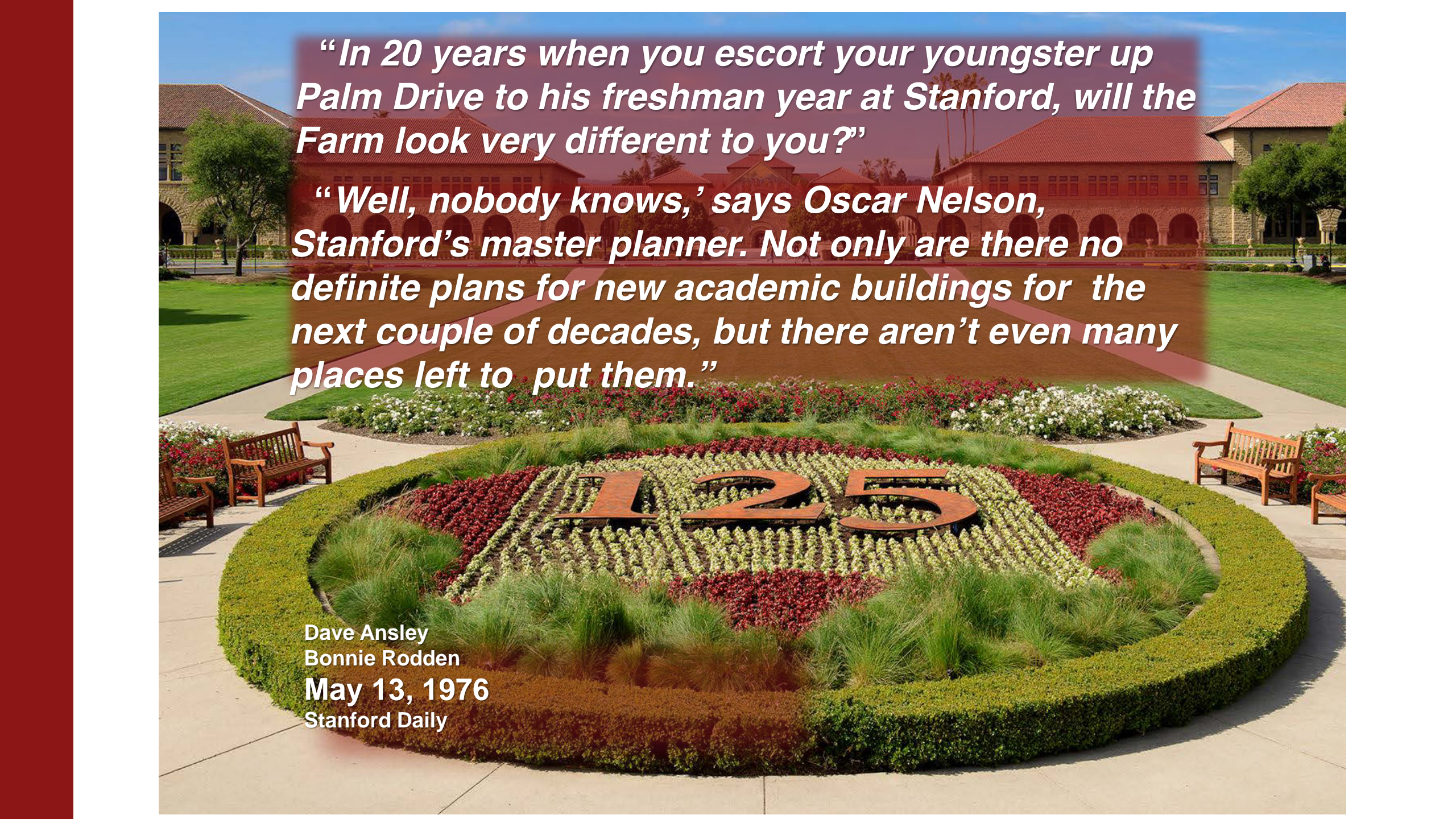
DATA





**The next 50...
Cultivating Community**

**Cathy Blake
SCUP July 2019**

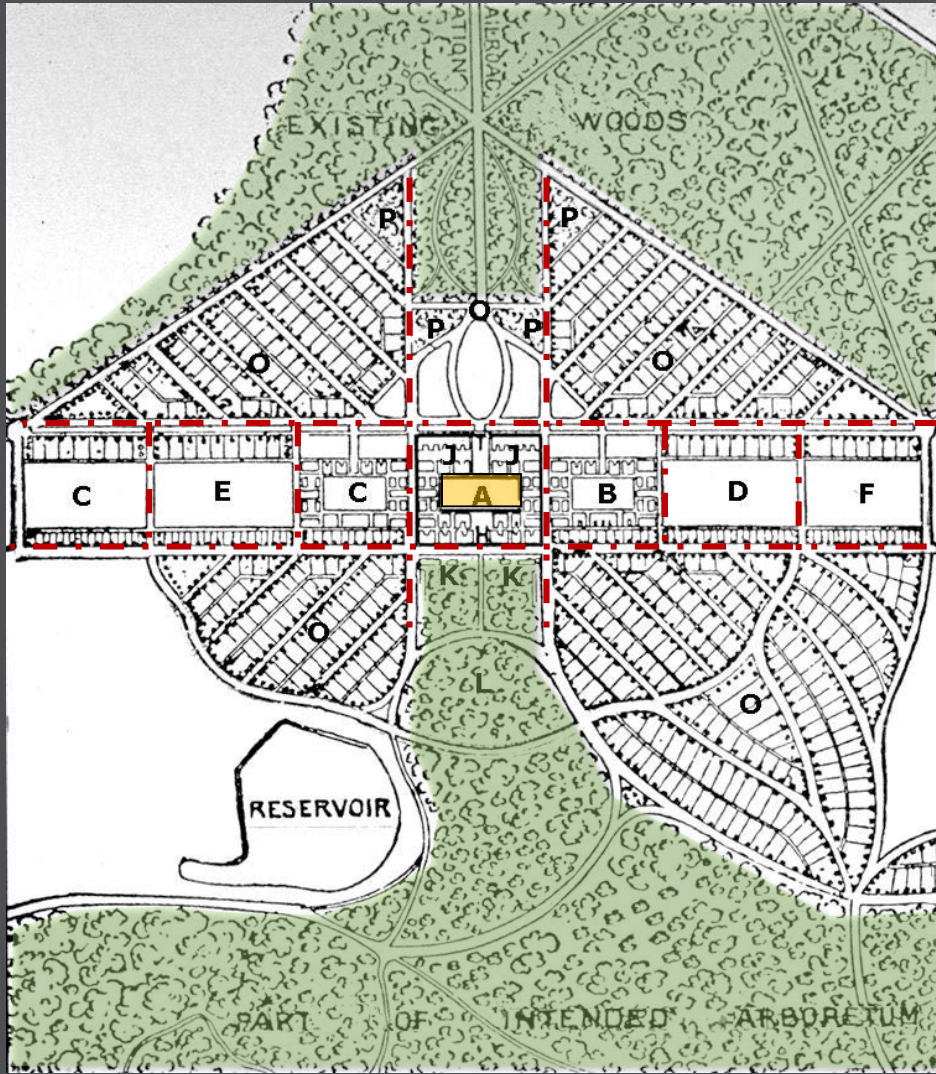
A photograph of the Stanford University campus. In the foreground, there is a large, circular garden with a central flower bed. The number '125' is prominently displayed in the center of the garden, surrounded by various plants and flowers. The garden is bordered by a low, green hedge. In the background, there are several large, red-tiled buildings with arched windows and doorways, typical of Stanford's architecture. The sky is clear and blue. The overall scene is bright and sunny.

“In 20 years when you escort your youngster up Palm Drive to his freshman year at Stanford, will the Farm look very different to you?”

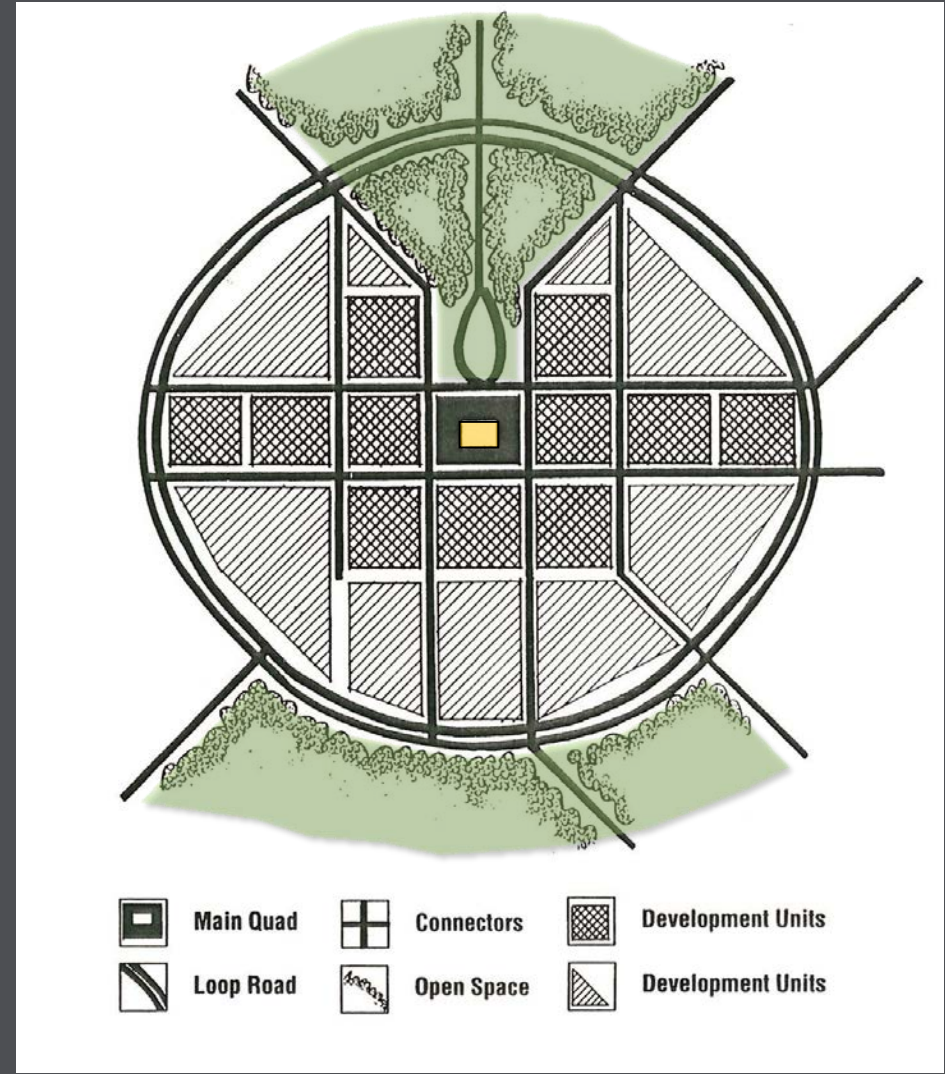
“Well, nobody knows,” says Oscar Nelson, Stanford’s master planner. Not only are there no definite plans for new academic buildings for the next couple of decades, but there aren’t even many places left to put them.”

Dave Ansley
Bonnie Rodden
May 13, 1976
Stanford Daily

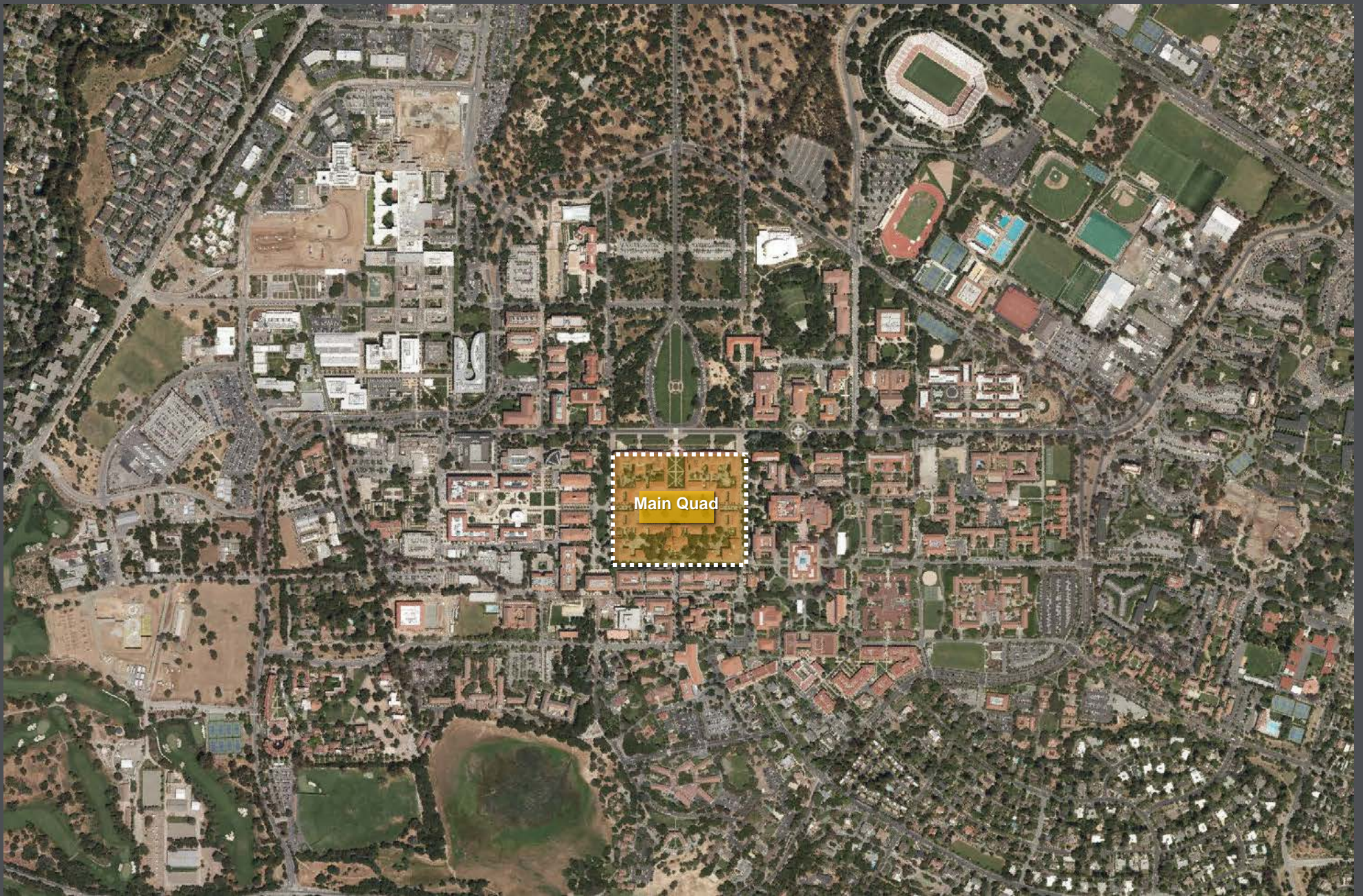


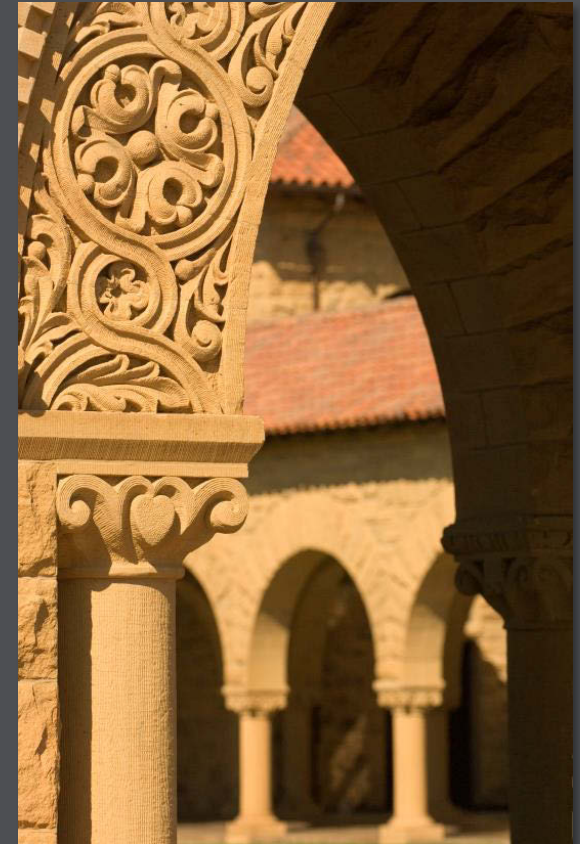


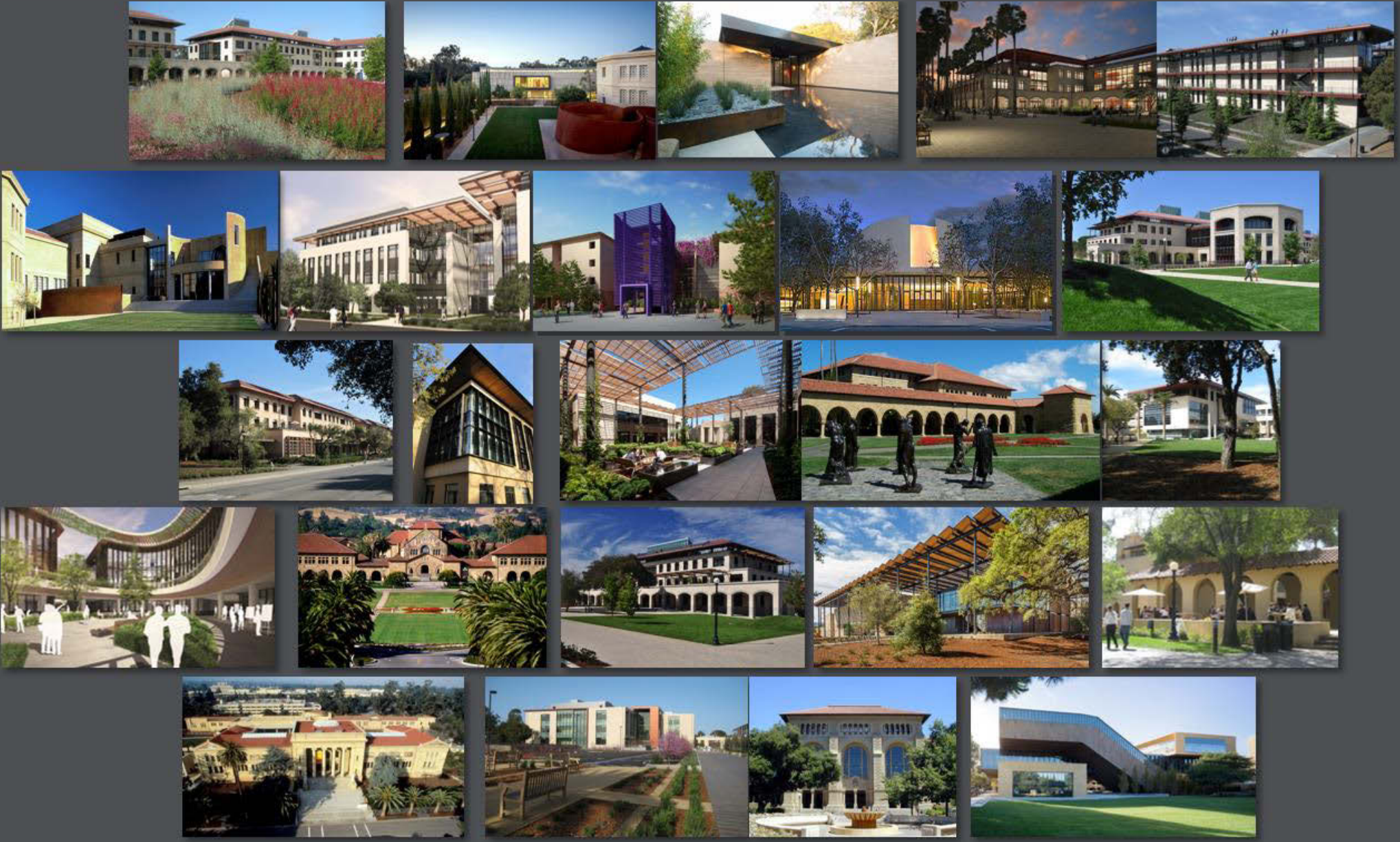
Original Olmsted Plan



Second Century Plan

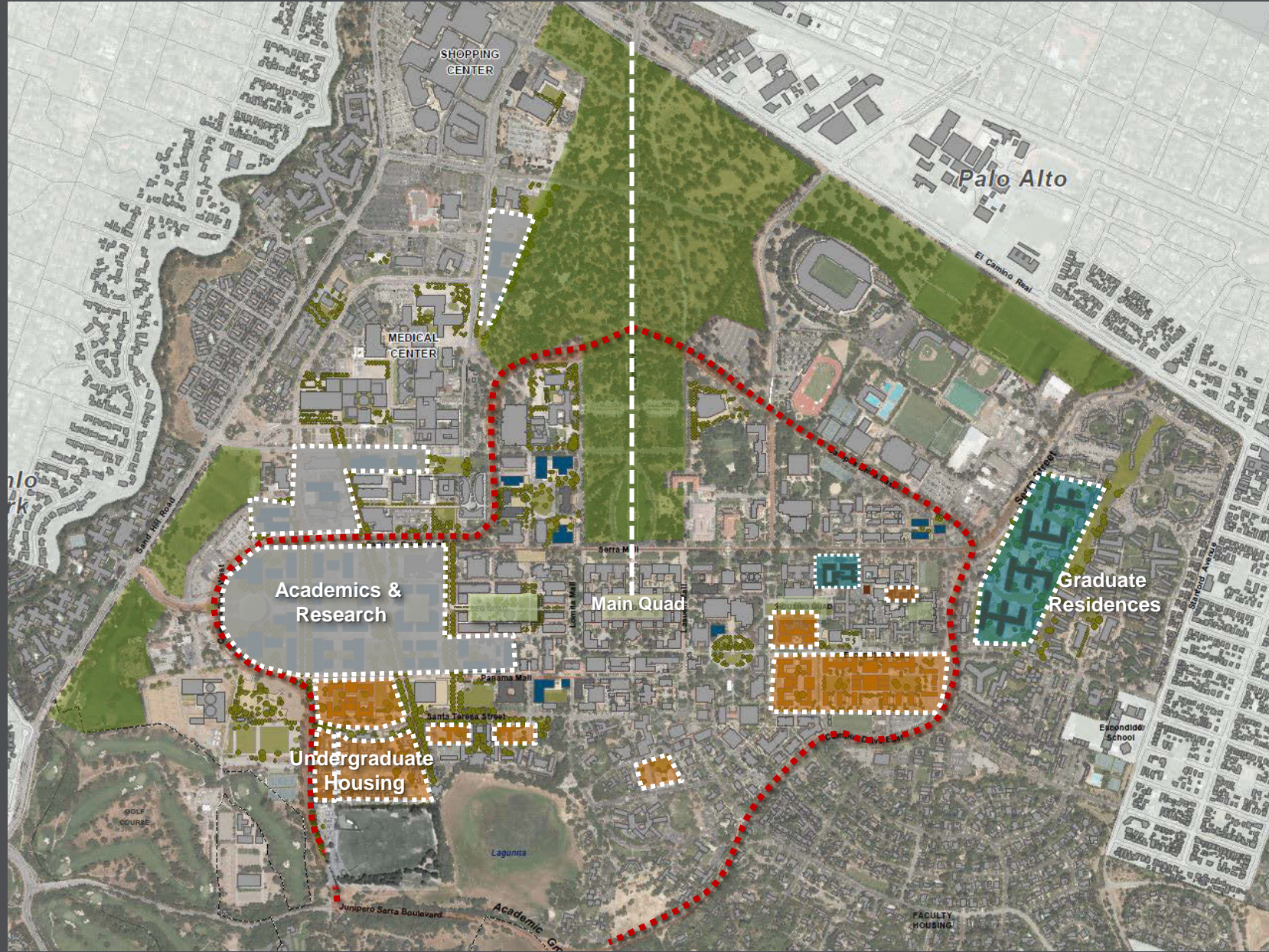






Design Consistency... Variety... Integrity... Inspiration... Palette... Scale... Sense of Place

Campus Long Range Vision 2035



A place for students...





**Energy/
Sustainability**

**Housing/
Creating
Community**

**Mental Health
and Wellness**

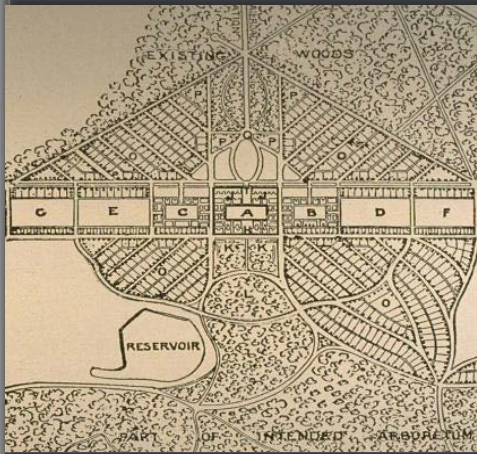
**Rethinking/
Redeveloping**

**Transportation
Evolution**

ISSUES OF THE FUTURE  **CULTIVATE COMMUNITY**

This year's Three Books for new students focus on cities, community-building





Energy/Sustainability

SUSTAINABILITY

Sustainability: A Core Value

Stanford | Community Plan
2018 General Use Permit

“As a community we are committed to developing our core campus in a sustainable fashion that preserves what we cherish, that demonstrates leadership in the university’s commitment to be a good environmental steward.”

—John Hennessy, Stanford University President

RESEARCH AND ACADEMICS



Environmental sustainability leadership within higher education, with demonstrated excellence in sustainability research, teaching and action

SUSTAINABLE STANFORD



University-wide effort to reduce Stanford’s environmental impact and preserve resources through innovation and best practices

Collaborations between students, faculty, and staff have resulted in bold and flexible solutions for incorporating sustainability into every aspect of campus life.

PRINCIPLES APPLIED

-  Conservation of Natural Resources
-  “Flexibility with Accountability”

MEET THE PROFESSIONALS



Fahmida Ahmed
Director, Office of Sustainability



Lauren Hennessy
Program Manager, Office of Sustainability

What is Sustainable Stanford?



Performance

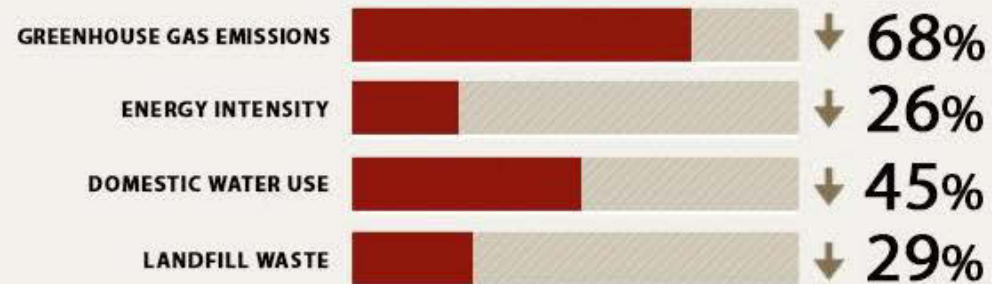
Stanford monitors and maintains thousands of data that optimize campus operations for the most efficient, sustainable performance.



[LEARN MORE →](#)

Campus Sustainability Progress 2017

(Baseline year 2000 or peak levels)



Stanford Earns Platinum Ranking

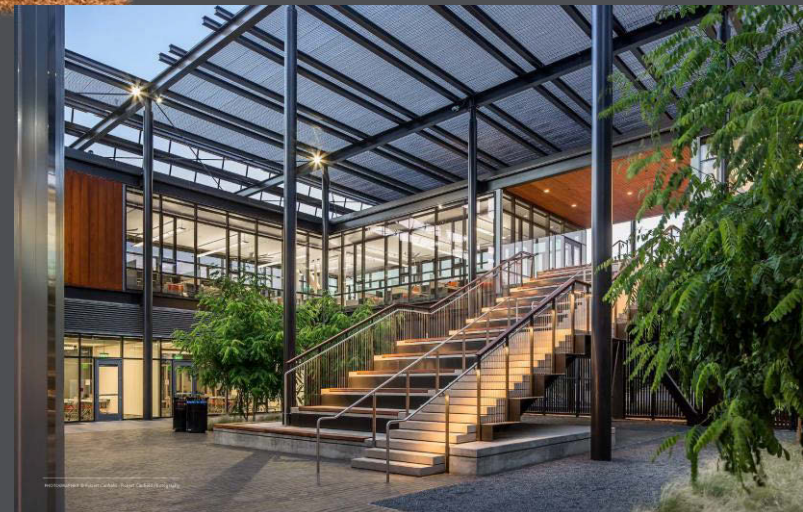
in Sustainability Tracking, Assessment, and Rating System



88%

TOP SCORE
OUT OF 800+ INSTITUTIONS





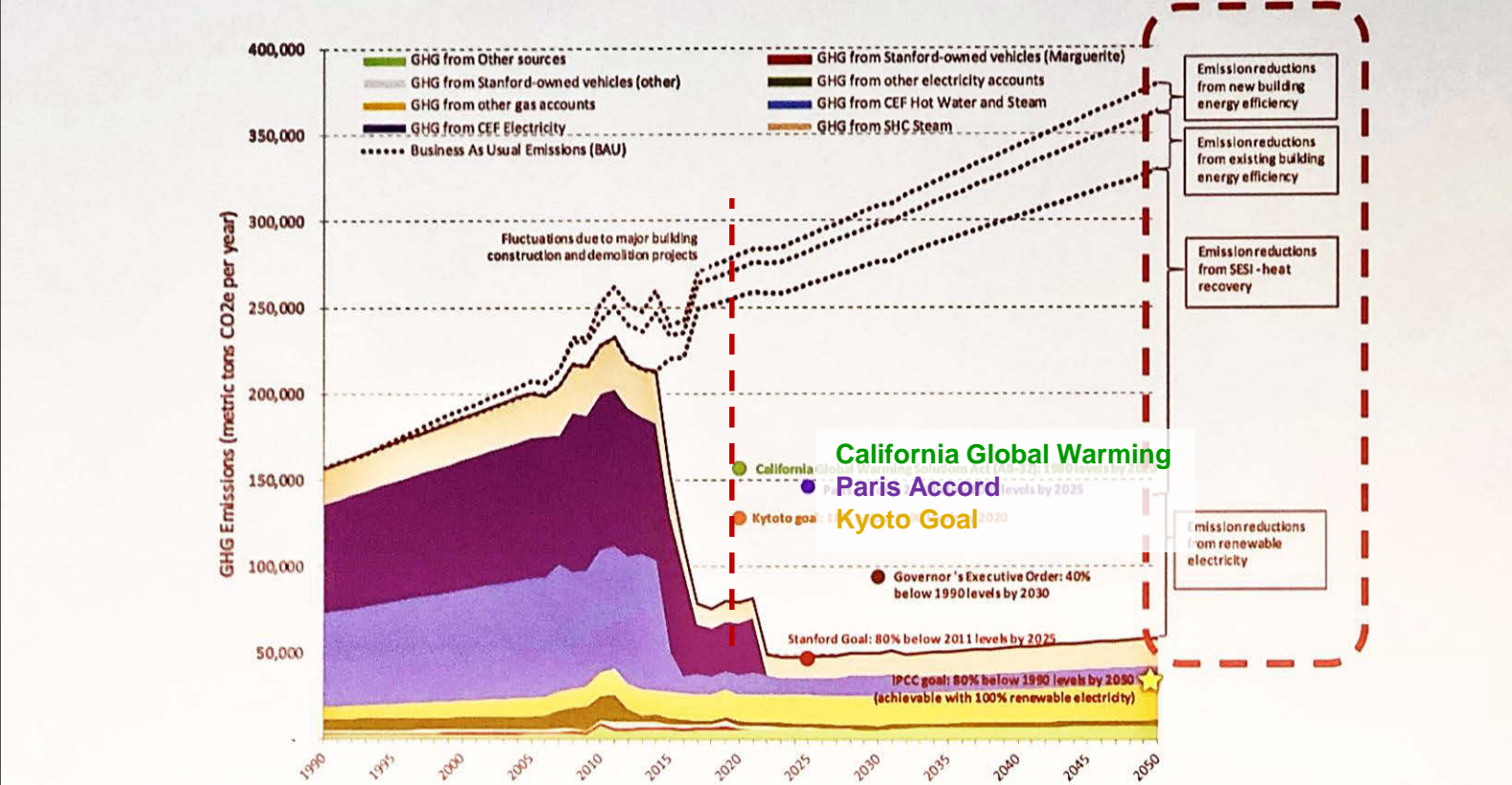
Central Energy Plant Leading Innovation - Stars Platinum 2018

Stanford Energy System Innovations (SESI)

- Reuse 50% of waste heat to meet 93% of university need
- **68% Greenhouse Gas Reduction** from 2011 peak (Energy Facility and renewables)
- Energy Facility **reduces water use 15%** of the total domestic supply
- Stanford Solar Generating Station to supply 50% of Stanford electricity; on-campus PV supplies 3%; direct grid purchases 12 % renewables; total 65% clean electricity to Stanford Buildings; **target 100% renewables by 2021**
- Innovative optimization software



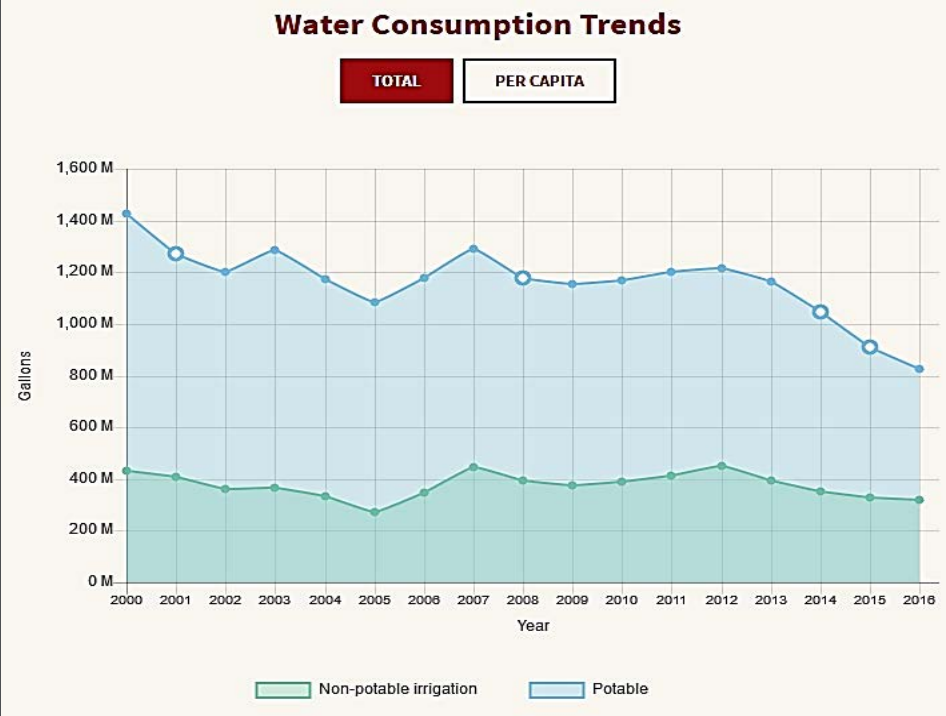
Energy Management – Greenhouse Gas Reductions



\$420M projected savings over 25 years



Water Supply Management – Lake Water Irrigation



Landfill and Diversion – Zero Waste Pathway 2021-2030

Existing Diverted (2017)	64%	
Target Diverted (2030)	90%	

Proposed Waste Reduction Options			Year
1	Food rescue and donation from dining halls	64%	2019
2	Paper towel composting	65%	2021
	Composting in academic buildings & faculty staff housing	67%	2021
3	Enhanced reuse programs	67%	2021
	Implement single stream recycling	69%	2022
5	Expand common area waste stations	72%	2022
	Advanced recycling in offices (ex. bulky items, carpet)	73%	2023
6	Zero waste in Stanford Athletics and events	75%	2023
8	Procurement initiatives	81%	2025
9	Laboratory recycling programs (ex. lab gloves, cardboard)	82%	2027
10	Advanced Residential and Dining Programs *	90% +	2030



Academic Innovation



Automotive Innovation Center....completed 2011

Hands-on Research



O'Donohue Family Stanford Educational Farm/Terry Huffington Barn

JUNE 12, 2019

Stanford-led study investigates how much climate change affects the risk of armed conflict

As global temperatures climb across several fields.



BY DEVON RYAN

Intensifying climate change according to a study estimates the risk of armed conflict in the 21st century and the 22nd century.

In a scenario of warming (4°C) we're on if so substantially heat-trapping of climate on increase more leading to a 2 substantial increase according to scenario of 2 warming beyond levels – the study Climate Agreement of climate on than double, rising to a 13% chance.



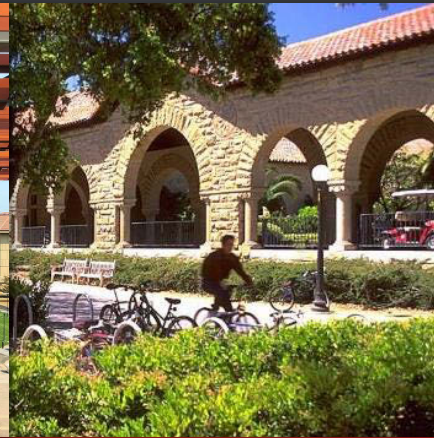
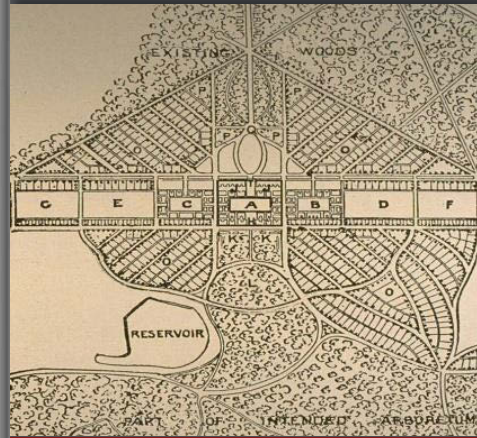
Corporations that claim to be 100 percent renewable do not actually cover all their power use with renewables. Instead, they purchase or generate enough renewable energy to match 100 percent of their electricity use over the course of the year. (Photo credit: Karsten Würth / Unsplash)

When 100% renewable energy doesn't mean zero carbon

As power grids move away from fossil fuels, companies seeking to cut out carbon emissions will have to go beyond commitments to renewable energy.

BY VINCENT XIA, PRECOURT INSTITUTE FOR ENERGY

EARTH MATTERS: [CLIMATE CHANGE](#), [ENERGY](#)



Housing/Creating Community

Rising Housing Costs – February 2019

SILICON VALLEY SAN FRANCISCO GENTRIFICATION

Silicon Valley has the highest housing costs in the U.S.

Report says both incomes and costs soaring in the state's tech capital

By Adam Brinklow | Feb 19, 2019, 9:41am PST



Downtown San Jose. | Photo by [Uladzik Kryhin/Shutterstock](#)

It's the best of time and the worst of times in [Silicon Valley](#), a regional think-tank that issued its a

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'Every day was about survival': Inside the graduate student affordability crisis

Students scavenge for produce from campus trees to make ends meet

by [Charlie Curnin](#) — February 28, 2019 0

A photograph showing a person climbing a large, leafy tree on a grassy campus lawn. A bicycle is parked on the ground nearby. In the background, there are more trees and a building.

Courtesy of Trees of Stanford

Share on Facebook Share on Twitter

In Judaism, Marva Shalev Marom said, 18 is a good number.

"It's *chai*," she explained. "It's for life."

But when Shalev Marom wakes up with only \$18 in her bank account, she finds it hard to be excited about

JULY 2019

Sustaina

ACADEMIC CO



Being a resident and students.

HOUSING ON C



Under the 2000 while maintain 1,853 faculty a



General Use Permit Moves to Next Phase

Stanford's application for a new long-term land use permit is **moving to the next phase** of review by Santa Clara County. While the application process moves forward, differences remain between County and university officials around the details of housing and traffic mitigation plans. Stanford's recently proposed **\$4.7 billion community benefits offer** that would comprehensively address these and other issues through a development agreement was not considered by the Planning Commission, though a development agreement

City Plan
General Use Permit



affordable
et to



ow market.

Faculty Homes

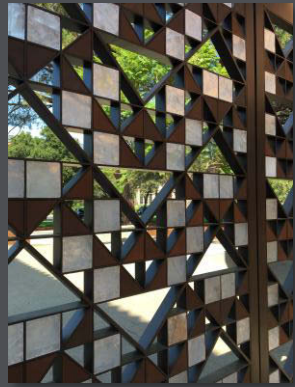


112 Condominiums
68 single family homes



University Terrace Housing

Graduate Student Studios



Jack McDonald Hall... completion 2016

EV Graduate Residences



Existing Beds - 411
Proposed Beds - 2,431

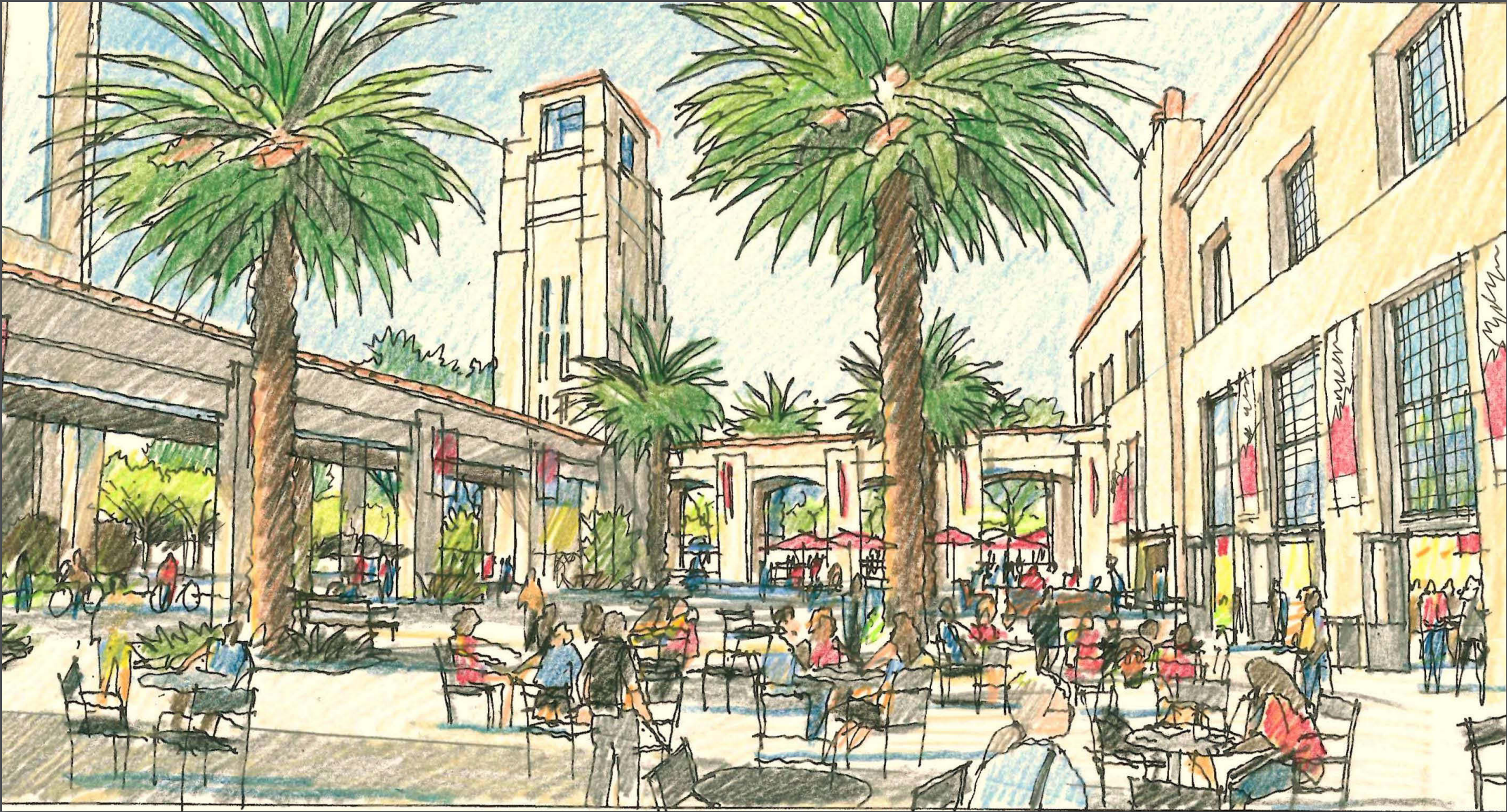
Greenway

EV Commons

EV Court

Serra Street

EV Graduate Residences – EV Square



EV Graduate Residences

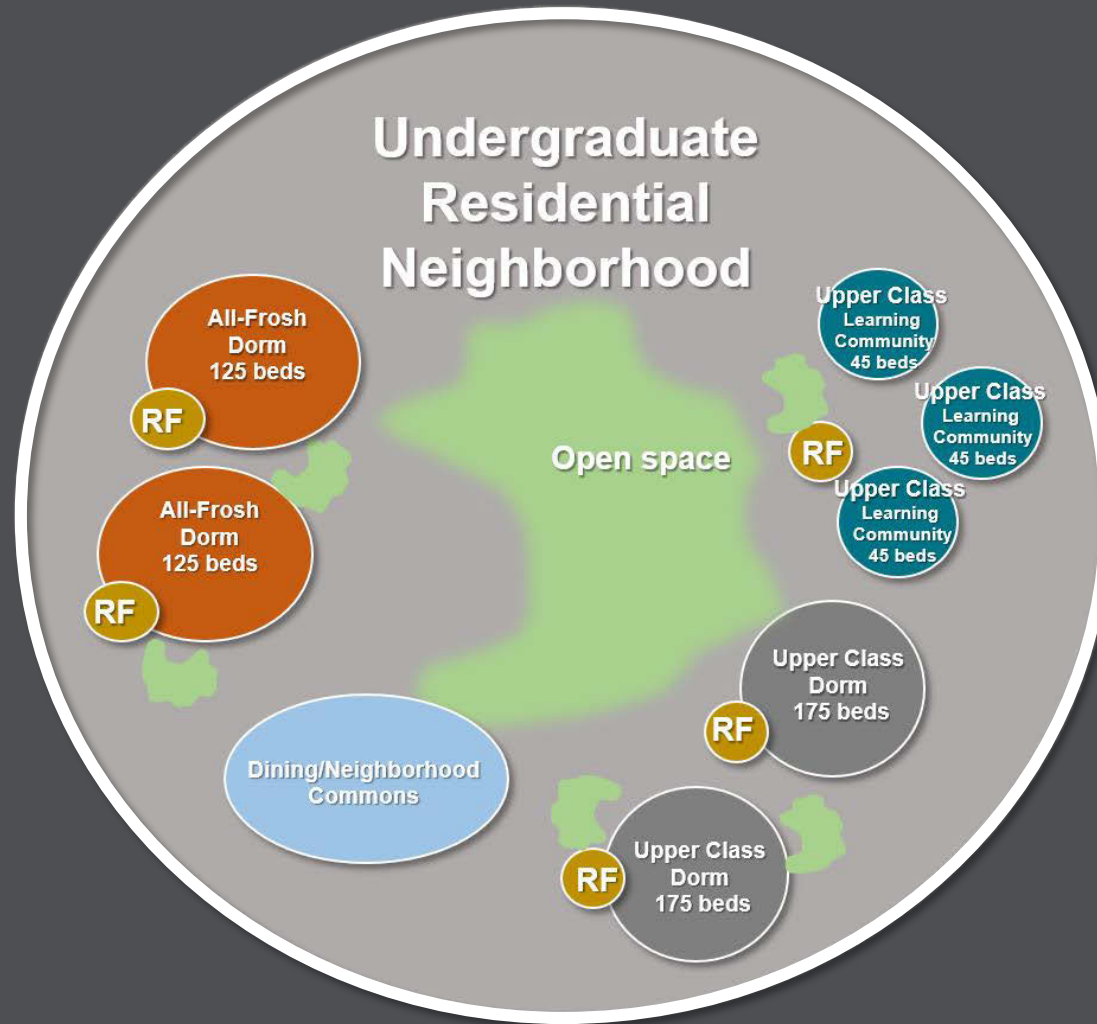


EV Graduate Residences Commons

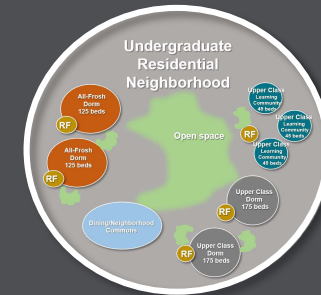
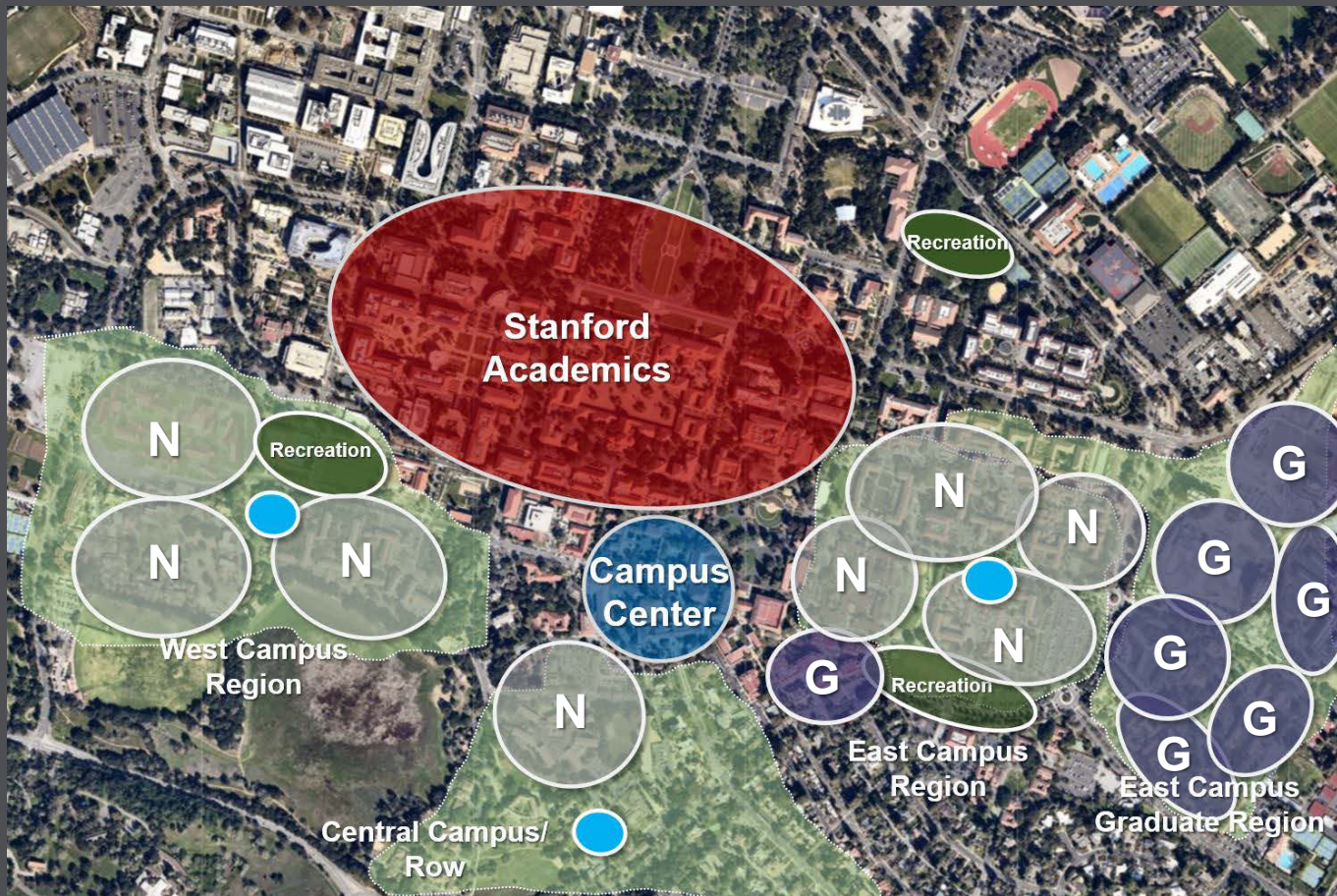
Child Care



Undergraduate Community - +/- 750 Students Each



+/- 750 beds



R
Recreation

C
Regional Commons
Multi-purpose/performance
Art making
Staff Support

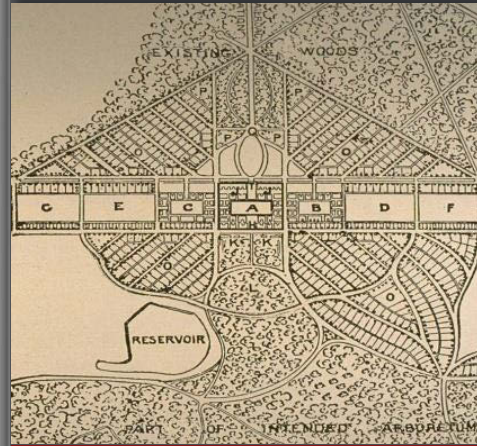
G
Grad Student
Neighborhood
Studios, Premium
Studios, Doubles,
Premium Double
600 beds

Emotional Support Animals – 300+



**Levin Field Dog Park
Proposed Site Alternative A**





Mental Health and Wellness



Lucile Packard Children's Hospital Expansion

Events at Meyer Green



GameFACES

Stories of resilience from Stanford student-athletes.

May 1st, 7:30pm
Meyer Green

Open to the public.

Lauren Norheim
Sam Dore
Treyahn Butler
Helena Scott
Mansi Lee
Garrett Swinick
Hayley Hodson
Foster Lamington
Not pictured: Melissa Chung





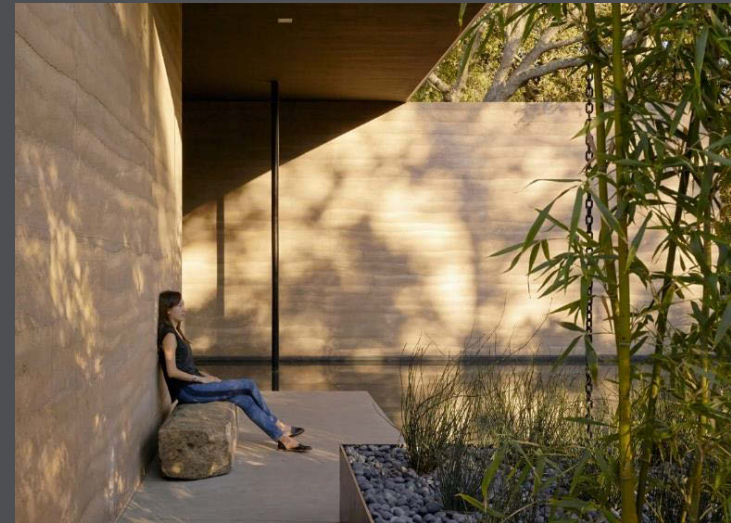


McMurtry Building...completed 2015



Roble Gym Renovation— Completed 2017





Windhover Contemplative Center - 2015

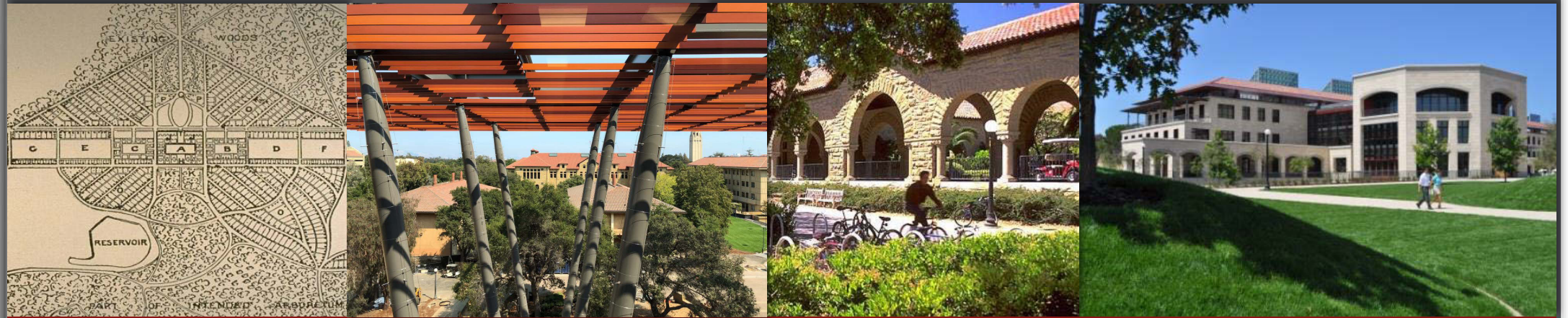
Programs housed in Kingscote Gardens:

- [Counseling and Psychological Services](#)
- [Confidential Support Team](#)
- [Institutional Equity and Access](#)
- [Title IX Office](#)
- [Office of Sexual Assault and Relationship Abuse Education & Response](#)
- [Sexual Harassment Policy Office](#)
- [Diversity and Access Office](#)
- [Office of the Ombuds](#)
- [Faculty Staff Help Center](#)
- [Office of the Academic Secretary](#)



Nature...Biophilia





Rethinking / Redeveloping



Medical Center

School of Medicine

Sciences

SEQ

Main Quad

Future Quad

Gerhard Casper
Quad



Pre-Science & Engineering Quad 1999 - 149,000SF



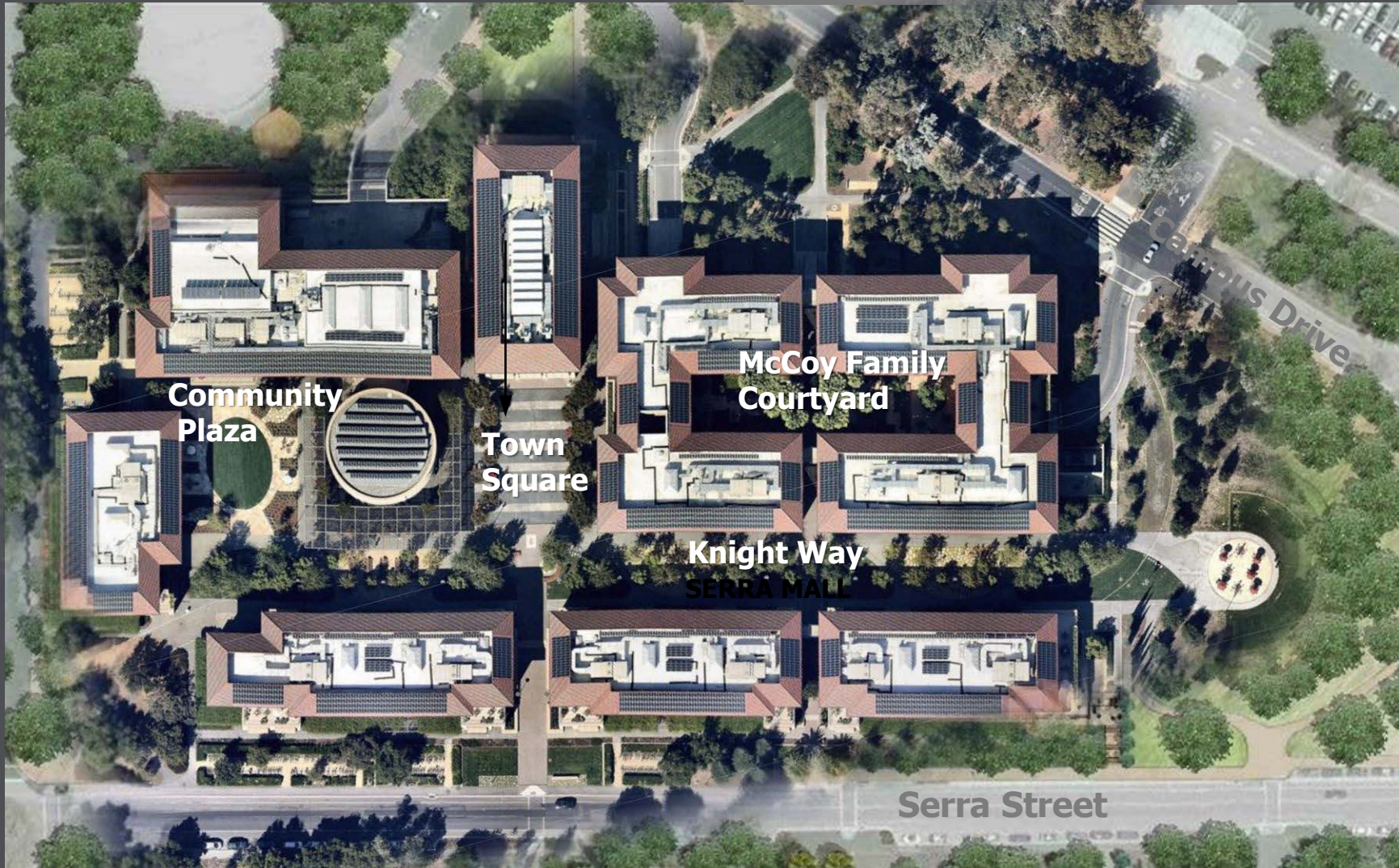
Science & Engineering Quad 2017 - 620,000SF



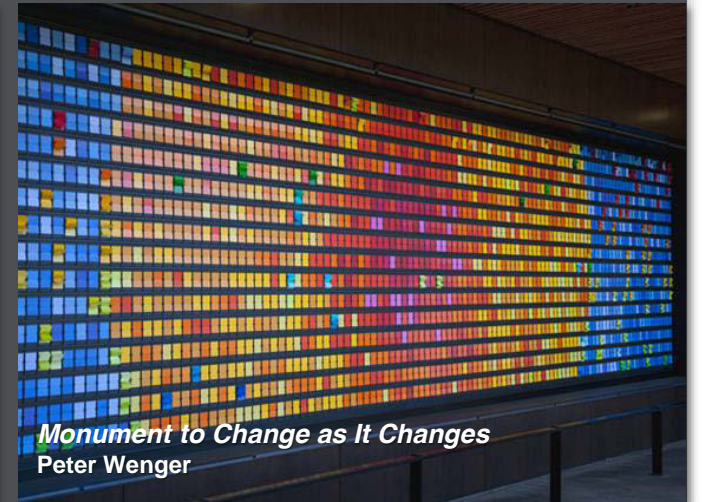
Science & Engineering Quad



Knight Management Center... before 2008



Knight Management Center Plan



Monument to Change as It Changes
Peter Wenger

Knight Management Center...completed 2011



Meyer Green

Unscripted Events



Pilipino American Student Union



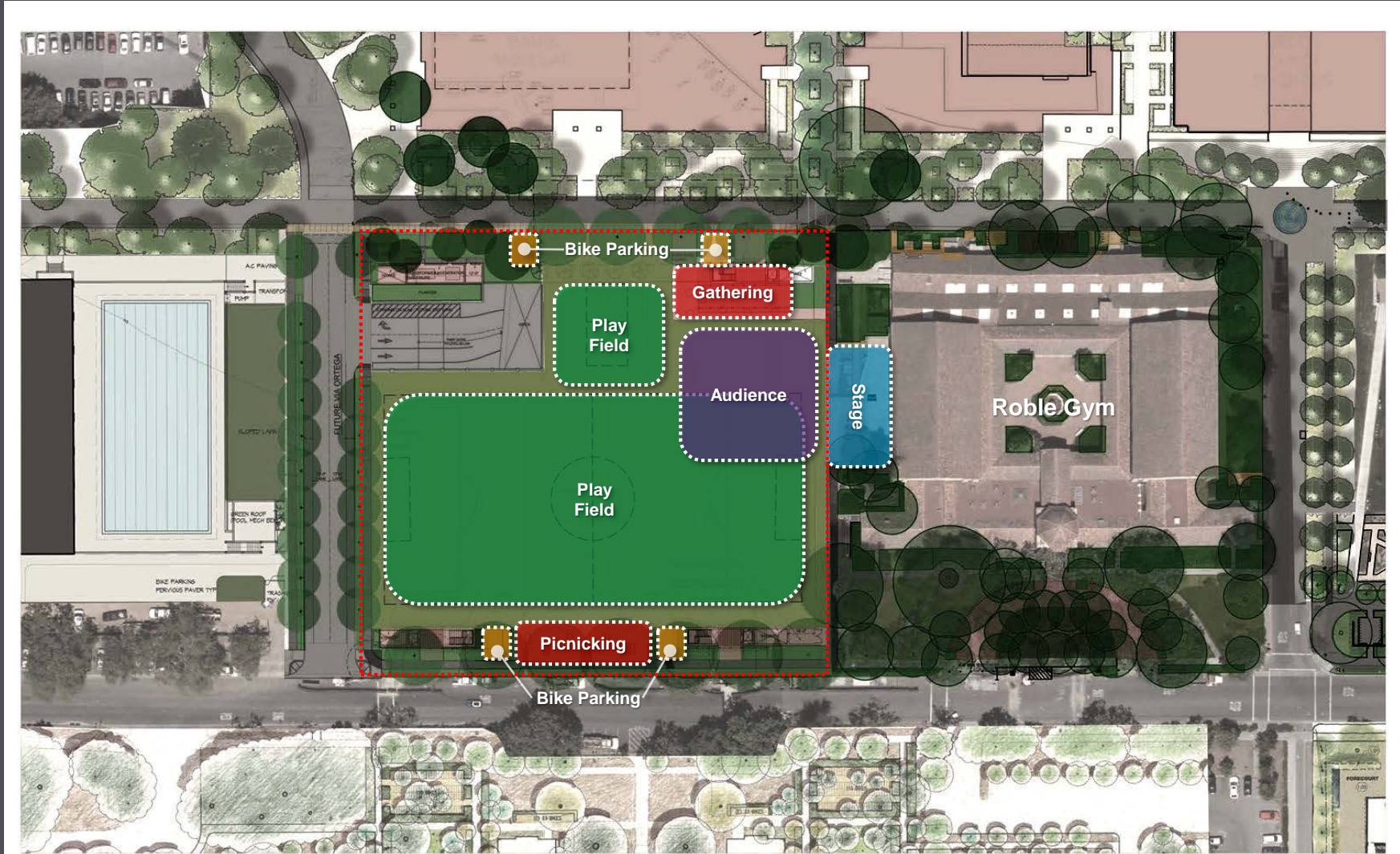
QWake Stanford Event



Reunion Homecoming - Singles Mingles



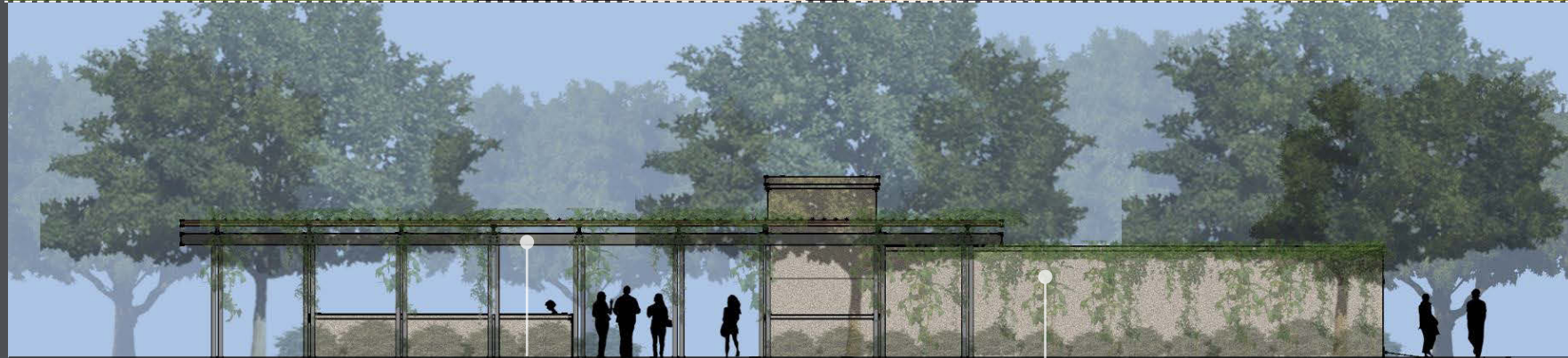
The Stanford Dollies



Roble Gym Parking Garage...complete by 2017



South Elevation



Trellis Elevation

Steel & Wood Trellis

Stucco

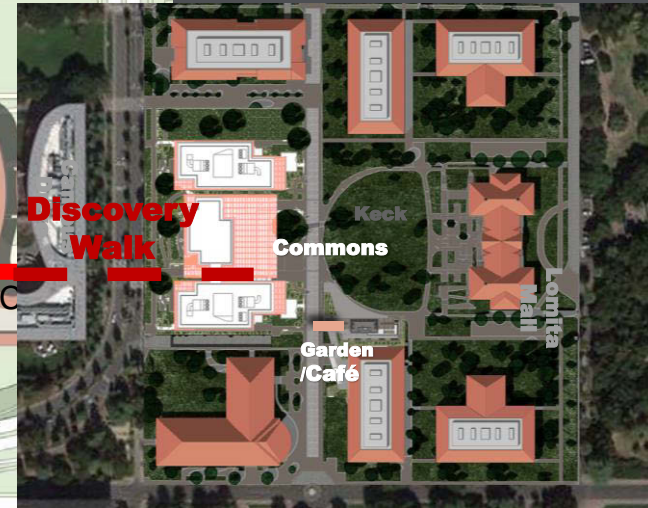
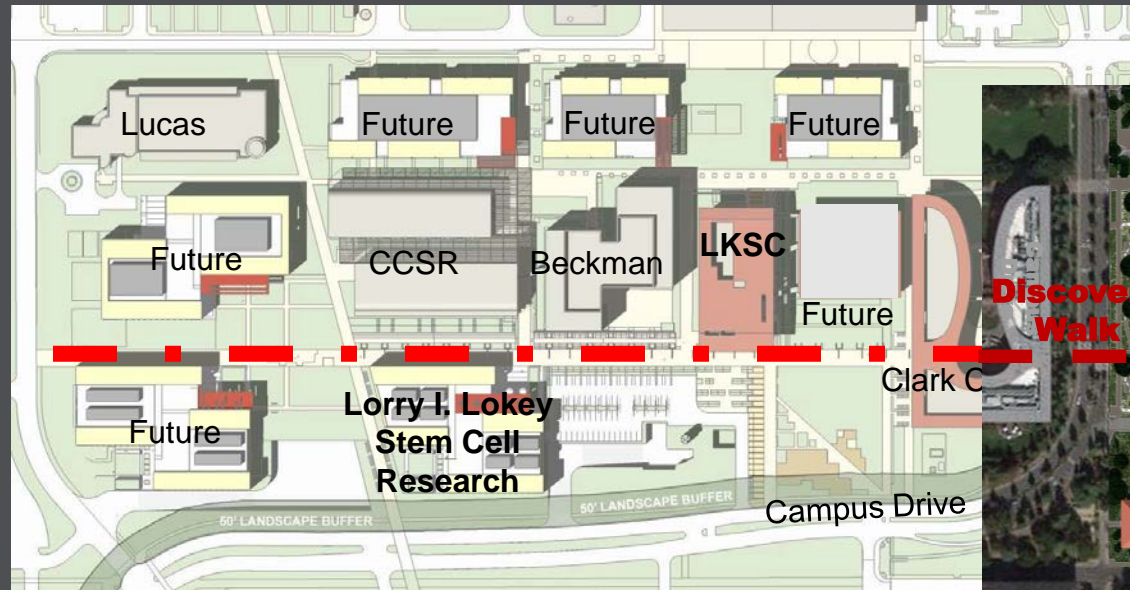
Connections

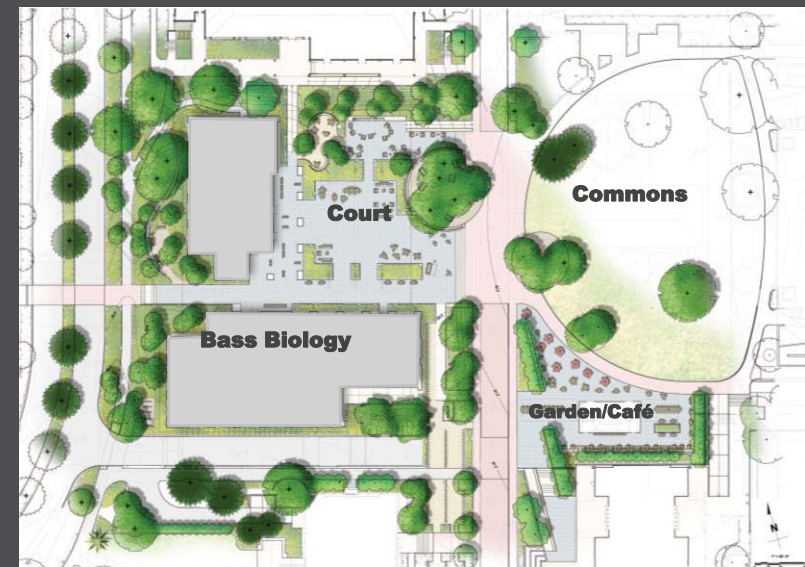
Long Range Plan





Empowering Researchers and Tomorrow's Physicians

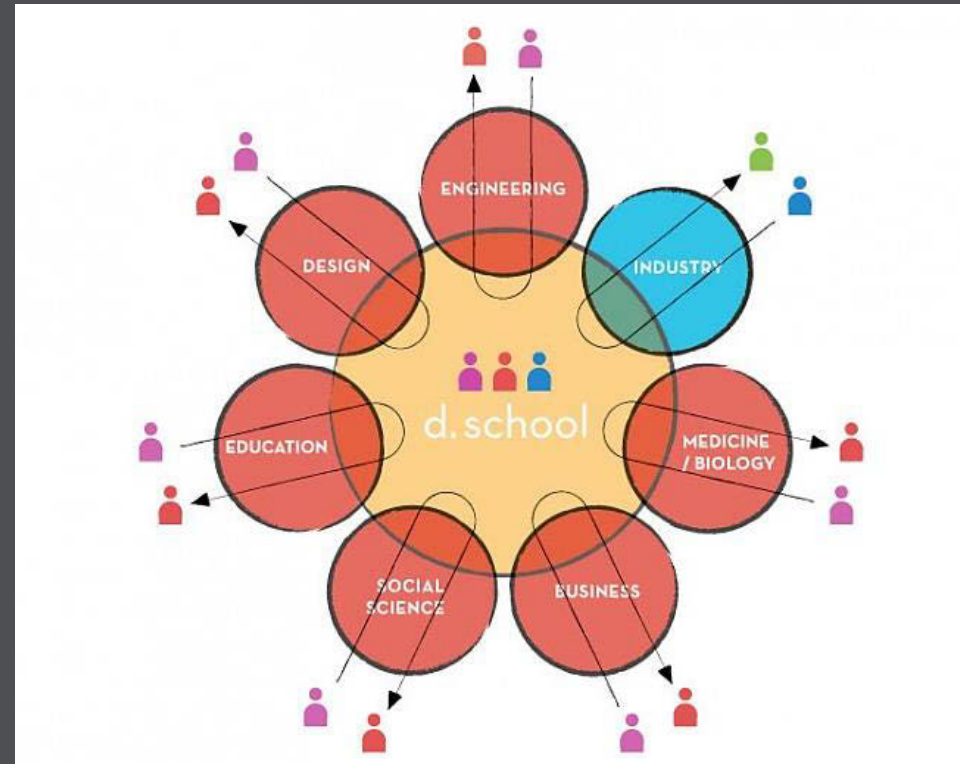




Anne T. and Robert M. Bass Biology Research Building... completed 2018



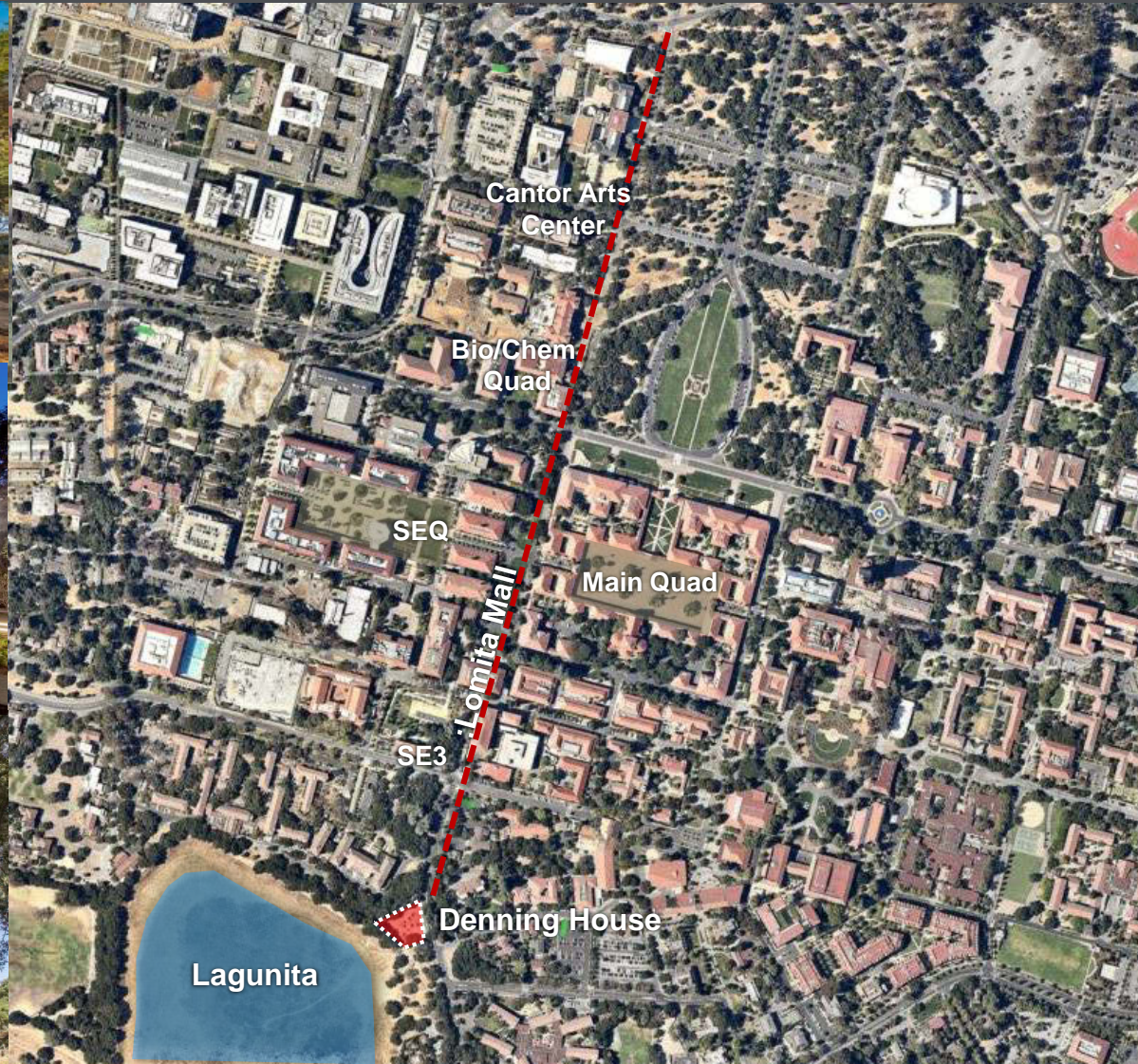
Anne T. and Robert M. Bass Biology Research Building...completed 2018



The d.school is a hub for innovators at Stanford. Students and faculty in engineering, medicine, business, law, the humanities, sciences, and education find their way here to take on the world's messy problems together.



Peterson Lab Renovation/ d.school...completed 2009



Knight- Hennessy Scholars

Collaborate and innovate across disciplines to tackle complex challenges.



OUT-THINK

We seek **rebellious minds** and independent spirits. We welcome people who are sharp thinkers, but even more so curious, who will bring good ideas and maverick perspectives to old challenges.

OUT-CARE

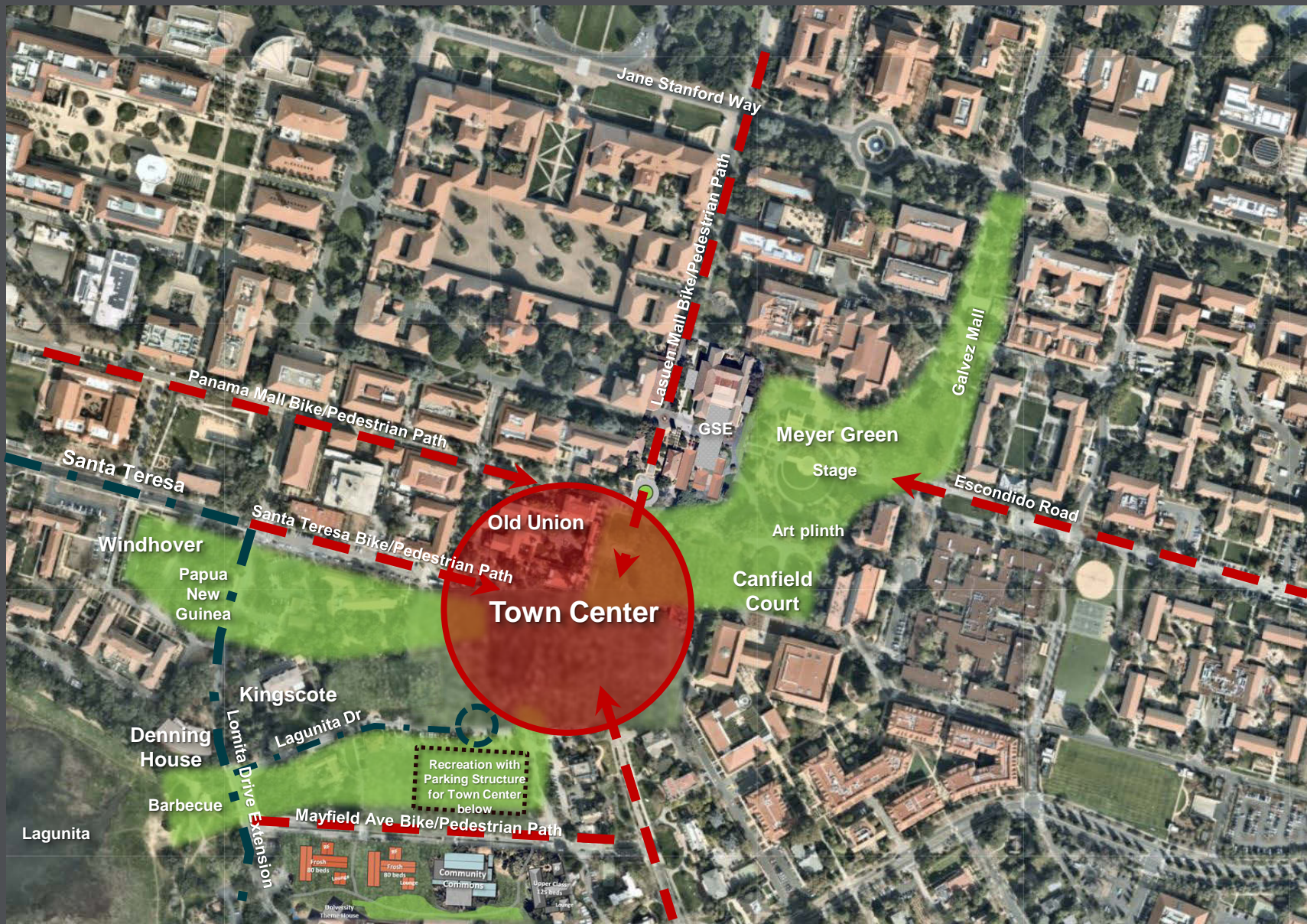
We welcome single-mindedness as long as it doesn't come at the expense of engaging others. We seek scholars for whom **success is a byproduct, not a goal**, and leaders who can drive progress for humanity rather than for a select few.

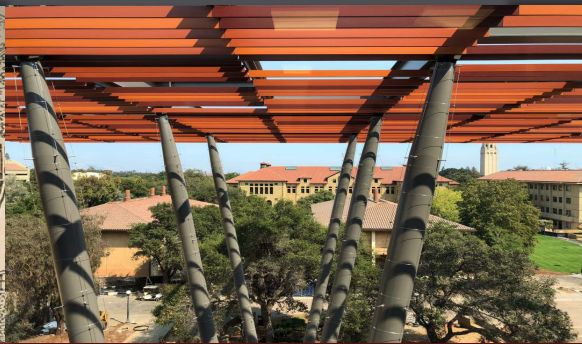
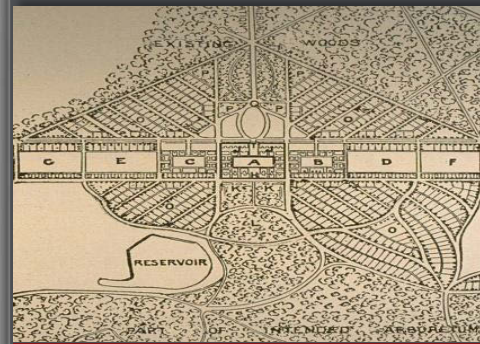
OUT-WORK

We're looking for ambition, in the best sense of the word, to change things. Our scholars will bring strong internal drive — a steely determination and focus — but with the ability to reflect and adapt.



Preparing a New Generation of Leaders





Transportation Evolution

Transportation Achievements

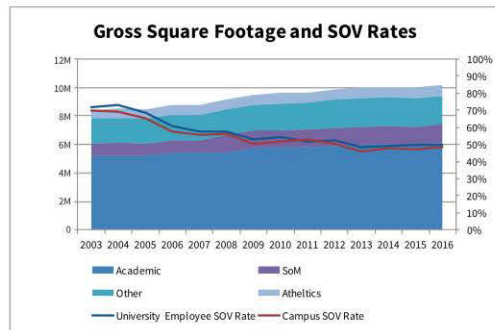
In the 1980s, Stanford introduced a department for transportation and parking to reduce vehicle use on campus. As a direct result, we have achieved our no net new commute trip goal even as the campus has grown.



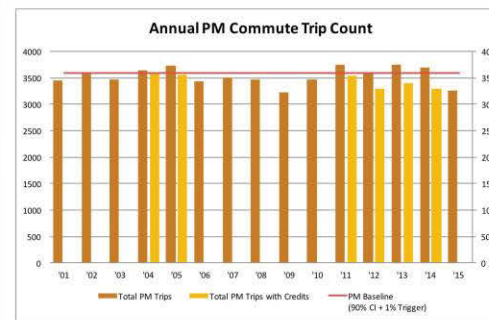
Stanford's Department of Parking & Transportation Services regularly evaluates how to reduce vehicle use on and around campus.

PEAK TIMES	Morning	Afternoon
2001 Baseline	3,474	3,591
2015 Trips	3,319	3,446
Under / Over	-120	-109

Stanford uses cordons to count vehicles traveling on and off campus to ensure we meet our goal.



Since the 2000 GUP, we've added academic facilities and increased housing while achieving our no net new commute trips goal.



Through aggressive demand management and innovative programs, Stanford has not increased the number of peak-hour commute trips since the start of the 2000 GUP.

PRINCIPLES APPLIED



Goal of no net new commute trips



Housing concurrent with academic development

MEET THE EXPERTS



Brian Shaw
Director, Parking & Transportation Services



Lesley Lowe
Senior Environmental Planner, Land Use and Environmental Planning



Ramses Madou
Associate Director: Planning, Development and Customer Systems



Carolyn Helmke
Transportation Planner, Parking & Transportation Services

Creating a Safe and Mobile Campus

In order to encourage alternate transit on campus, Stanford is committed to a safe and friendly environment for bikes and pedestrians.

BIKE PARKING



More than 19,000 bike rack spaces are available on campus

BIKE LANES



There are over 12 miles of bike lanes on campus

CAR-FREE CORE



The core of campus is car-free to facilitate bike and pedestrian circulation

ROUNDBABOUTS



Roundabouts reduce congestion points and improve safety

UNDERGROUND PARKING



Moving parking underground creates a safer environment on campus and is a better use of our land

BIKE AND CARSHARING



Departmental bikeshare programs and more than 65 carshare vehicles are available on campus

EMERGENCY RIDE HOME



The Emergency Ride Home program ensures Commute Club members will never get stuck on campus







Galvez



Bowdoin



Santa Teresa



Serra



Arboretum



Roundabouts

Stanford Commute Club



Commute Club members have more fun

fitness

me time

money

relaxation

join us!



EVERY TRIP COUNTS | bicycle bus carpool train vanpool walk

transportation.stanford.edu

How many bikes are too many bikes? What will win the space war?



Carts? For anyone? Go anywhere? Park anywhere?



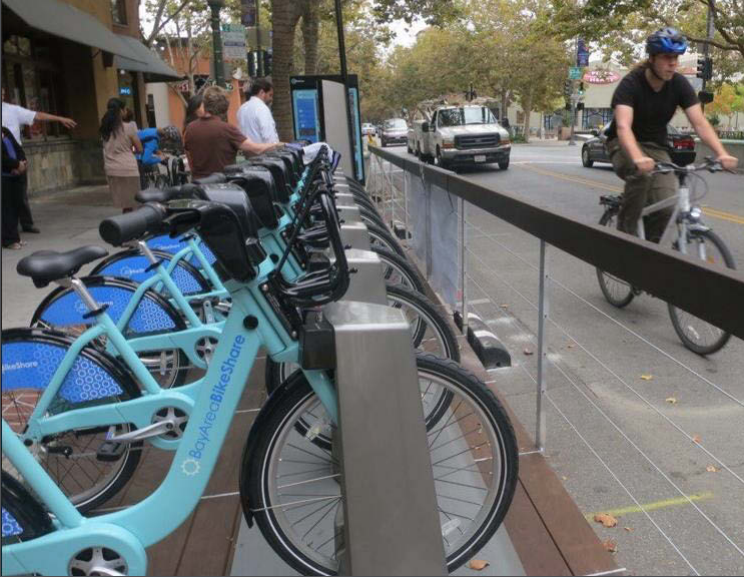
Modern Access needs?

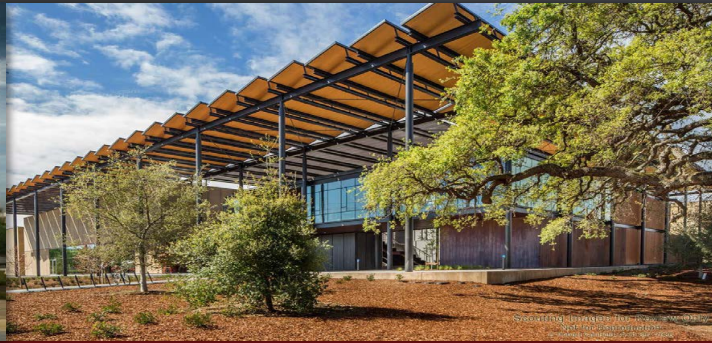


And what about Alternatives?

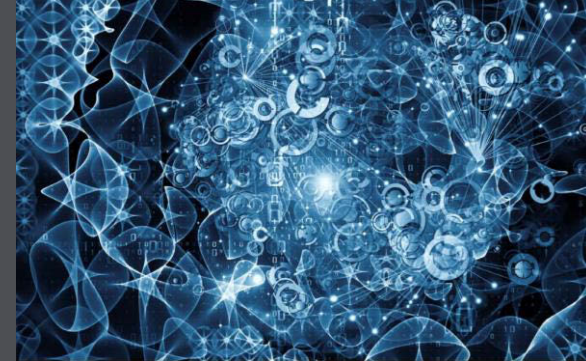
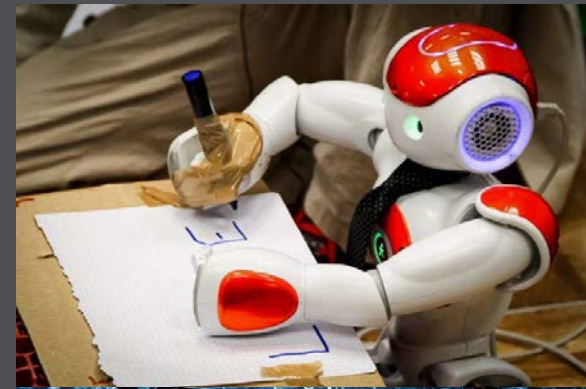
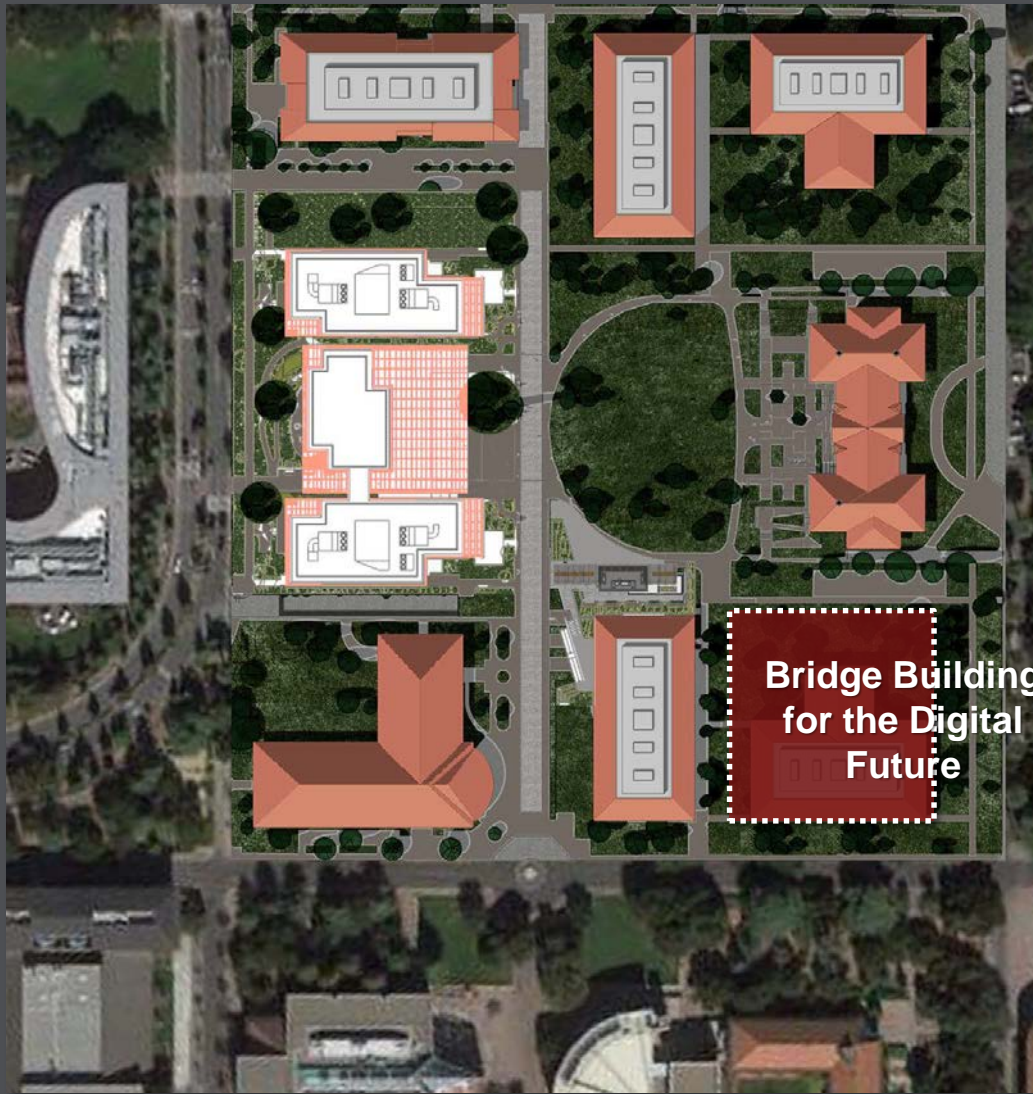


Bikeshare? Rideshare? Carshare? Taxi? Autonomous? Other?





Poised for the Future



Empowering Researchers and Tomorrow's Leaders



“What is it that attracts exceptional students to Stanford? The prospect of community living on a beautiful campus? This is a factor certainly...But the true magnetic force is, without question, **the spirit of academic excitement at Stanford.**”

Gene K. Walker '28

Peer Support Network

- Student Success Coaching 1:1 ratio of upperclassmen / graduate student to first-year student
- College-based Peer Mentors upperclassmen assigned to transfer students by college
- Financial Literacy college peers conduct workshops on topics from creating a money plan to leasing an apartment
- Pair upperclassmen to provide support to targeted first-year and transfer students who are underserved (i.e. students of color, first generation, demonstrate financial need)

Monarch Butterfly Scholarship

- The Monarch Butterfly Scholarship is funded by a **\$2 increase** in student tuition.
- The referendum passed with nearly **85% of students voting in support of the tuition increase** to create the undocumented student scholarship.

CHICAGO IS...



20 UNIVERSITIES AND CIVIC ORGANIZATIONS **WORKING TOGETHER TO CREATE & SUSTAIN** A TALENT PIPELINE

PARTNERS

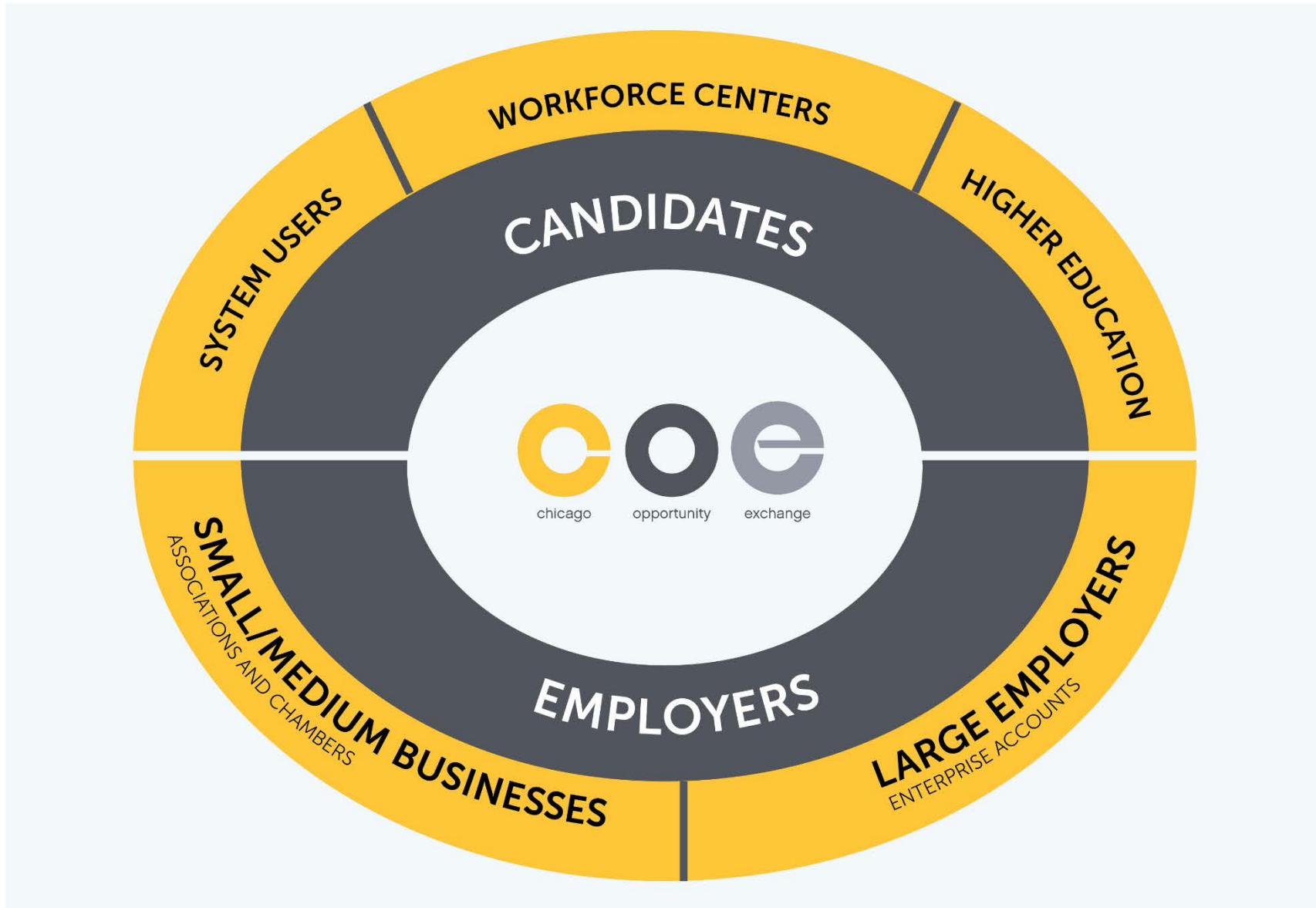


NATIONAL LOUIS UNIVERSITY



THE CHICAGO OPPORTUNITY EXCHANGE

PUBLIC PRIVATE PARTNERSHIP

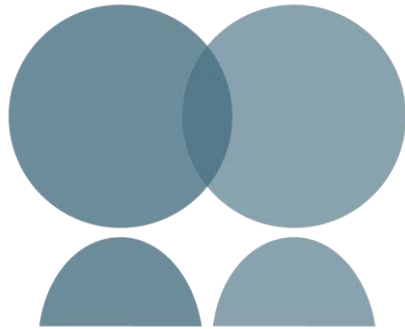


GOALS

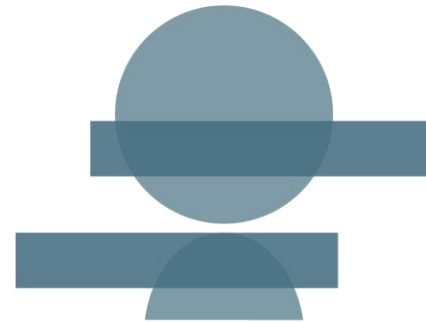


- **Connect the disparate Chicagoland labor market** networks with data-driven technology
- **Increase access to opportunities**, engaging and aligning both employers and jobs seekers
- **Reduce hiring bias** and **increase diversity** in the recruiting process
- Create talent pipelines for **entry level, middle skills, and executive-level opportunities**
- Improve efficiencies and **streamline hiring processes** in the employment ecosystem
- Make **informed decisions**, predict market needs, and strengthen public policy **using data analytics**

FIND THE RIGHT FIT, *faster*



Helps Hiring Managers and
Recruiters to Get on the Same
Page



Provides Clarity on Alignment at a Level
Deeper than Traditional Resumes and
Job Descriptions

INCREASE *diversity* AND *inclusion*



Instantly Ranks Candidate
based on skill, ability, and
interest alignment



**Masks information prone
to bias** focusing attention
on skills, interest, and
ability alignment

A form template for candidate assessment. It features a header with the name 'JEN DOE' and a 'FIT SCORE' field. Below are three sections with horizontal lines for text: 'WHY JEN FITS', 'WHERE JEN MIGHT NOT ALIGN?', and 'WHERE THE POSITION MIGHT NOT ALIGN WITH JEN'S INTERESTS'. A 'NEXT STEPS' field is at the bottom.

Creates a **standardized
view of the candidate
information** needed to
make an initial assessment



CHICAGO UNIVERSITIES WORKING TOGETHER TO INFORM NEW CITY ADMINISTRATION



Biggest Opportunities

Create unique experiences for students faculty and staff.

Pilot to inspire then implement change at scale.

Provide **sustainable financial alternatives** for students.

Build partnerships that leverage culture and place to provide meaningful experiences.

Is there something we didn't touch on, that you feel should be a priority for the future?

Thanks + Get involved in 2050...



cathyb@Stanford.edu



JEMMS@depaul.edu



amber.luther@populous.com