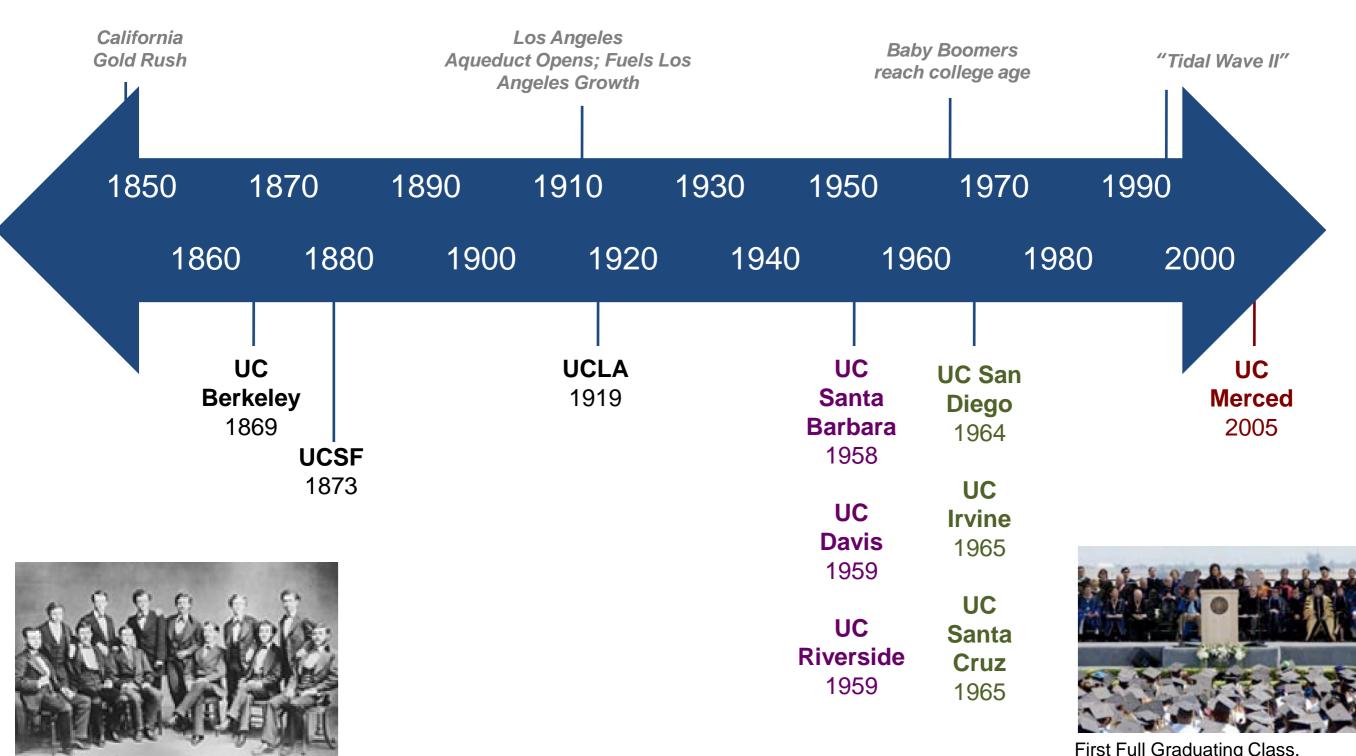


## UC Merced is the first campus in the University of California system since 1965

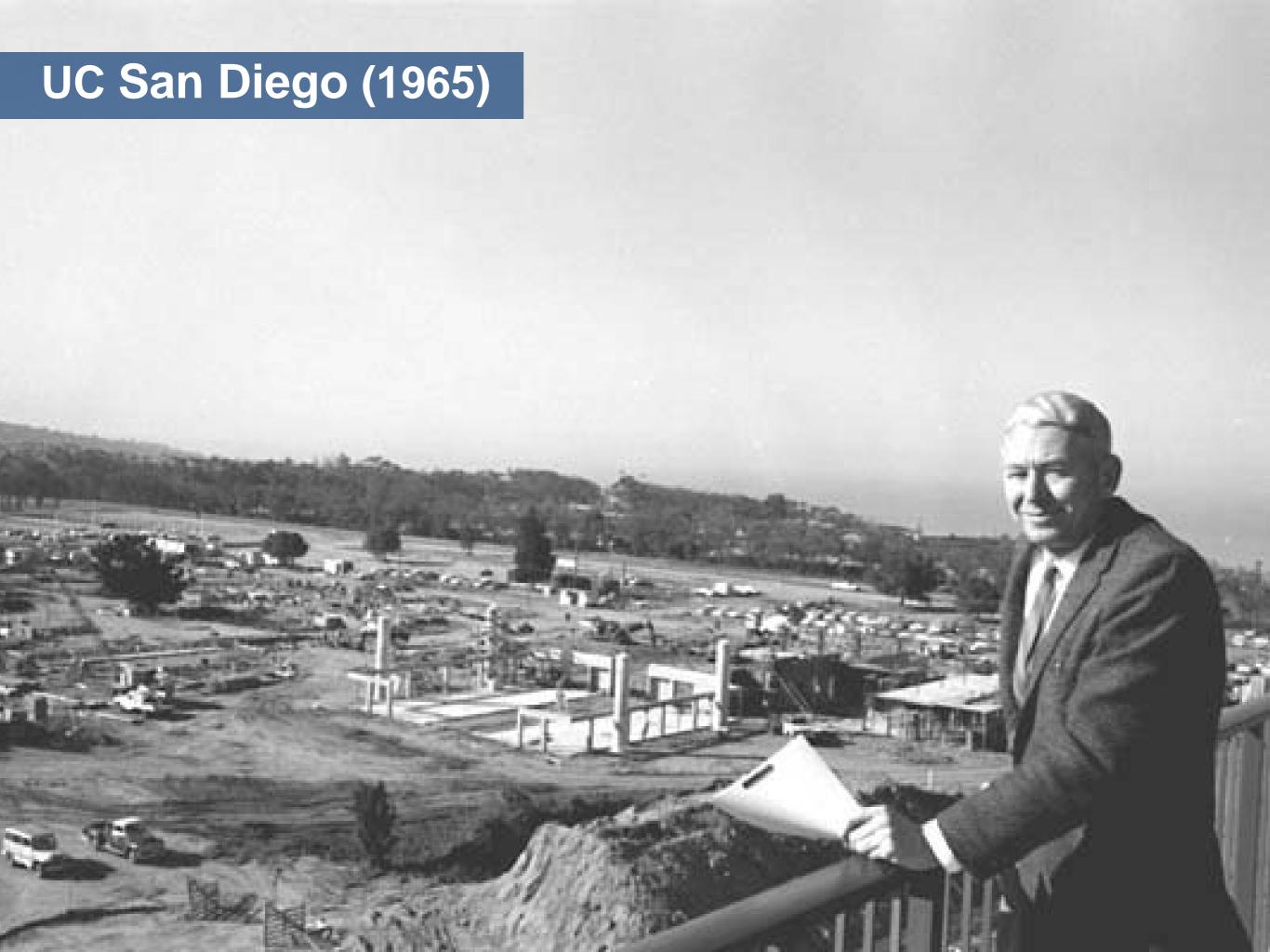
First Graduating Class,

UC Berkeley, 1873



First Full Graduating Class, UC Merced, 2009

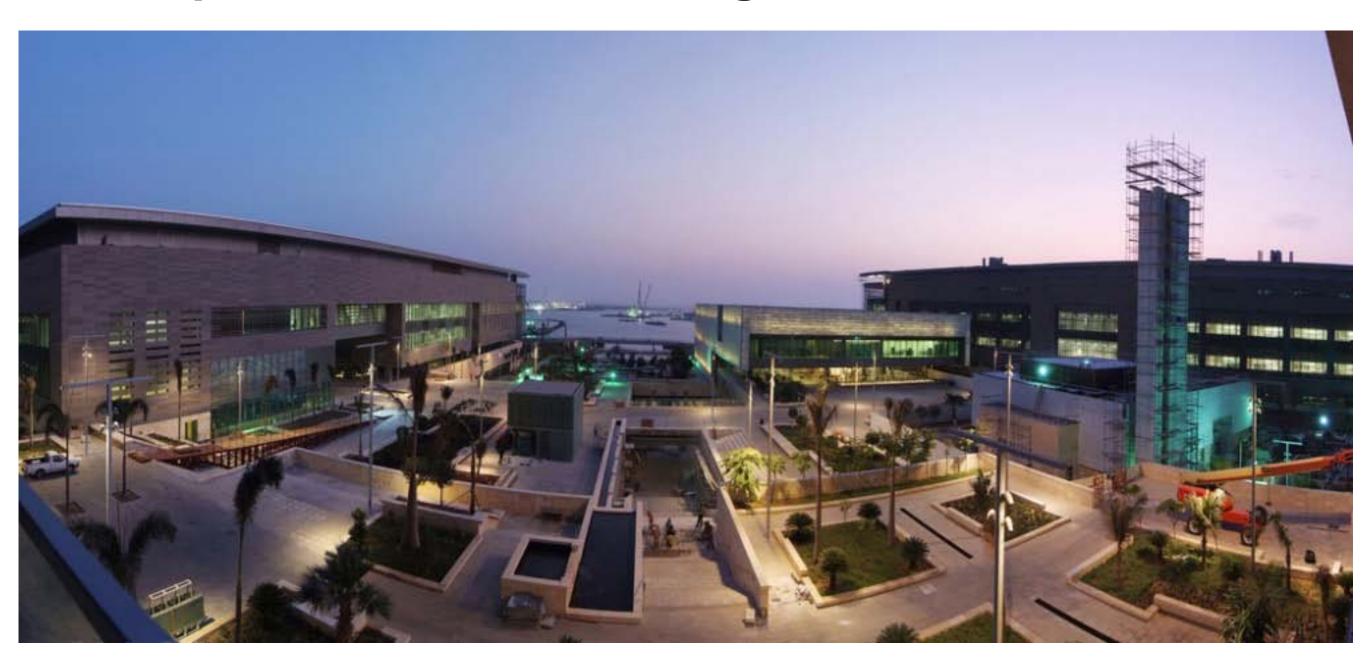








# New Universities are being built worldwide in response to demand and growth



King Abdullah University of Science and Technology

Saudi Arabia 3,200 acres



### Singapore University of Technology and Design

Republic of Singapore 57 acres

### California's Population Today 36 million people



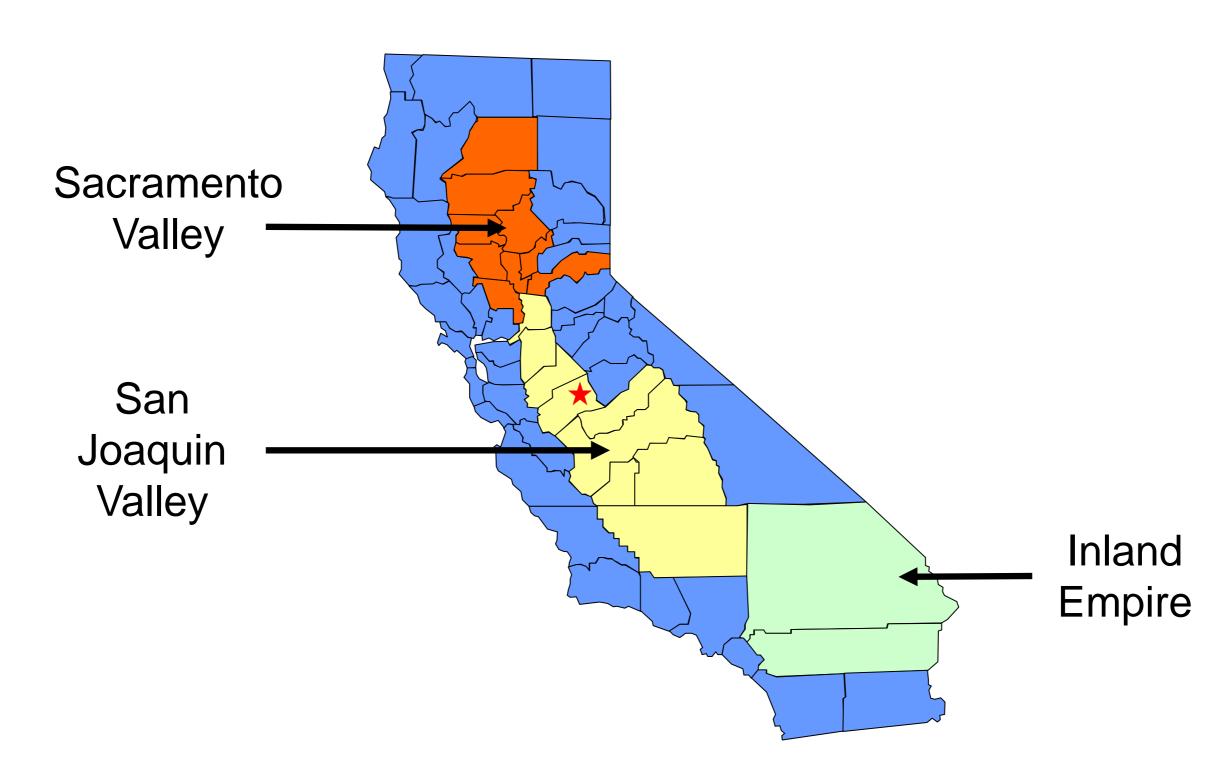
Connecticut - 3,483,372 Iowa - 2,944,062 Mississippi - 2,881,281 Arkansas - 2,725,714 Kansas - 2,723,507 Utah - 2,351,467 Nevada - 2,241,154 New Mexico - 1,874,614 West Virginia - 1,810,354 Nebraska - 1,739,291 Idaho - 1,366,332 Maine - 1,305,728 New Hampshire - 1,287,687 Hawaii - 1,257,608 Rhode Island - 1,076,164 Montana - 917,621 Delaware - 817,491 South Dakota - 764,309

Alaska - 648,818 North Dakota - 633,837 Vermont - 619,107

Washington, DC - 563,384

Wyoming - 501,242

### California's Population Tomorrow 10 million additional people by 2020 Largely occurring inland

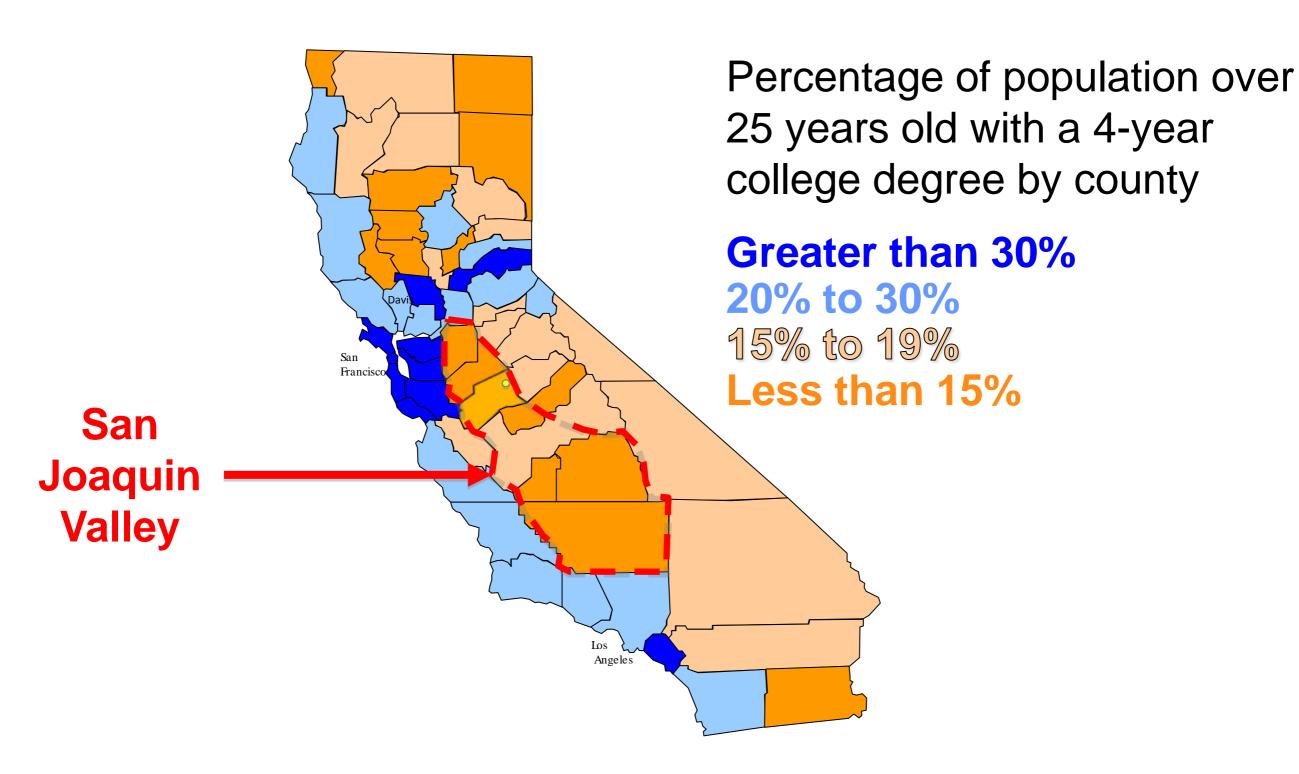


# UC Merced's context: The San Joaquin Valley California's fastest growing region

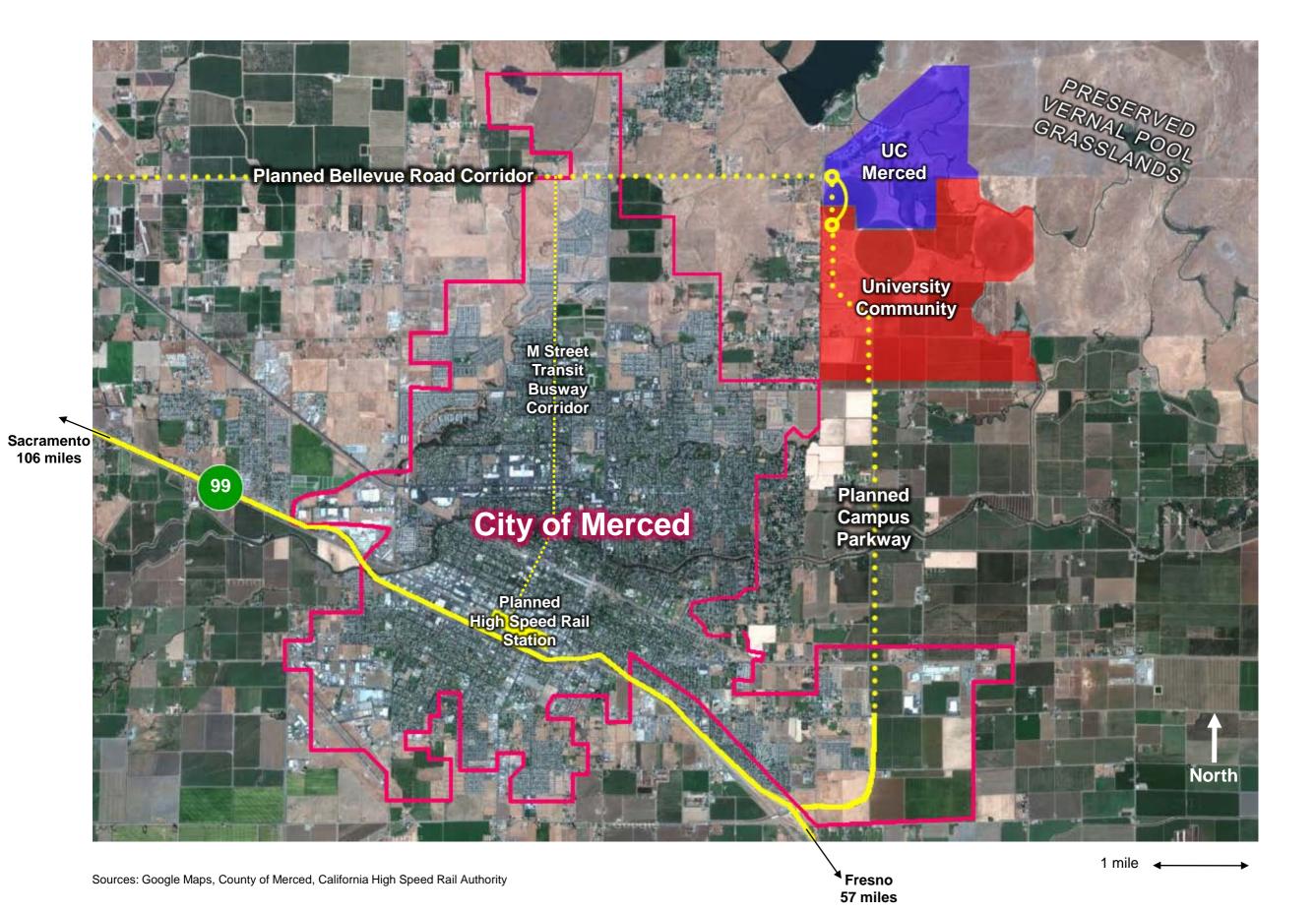
- Eight county region
- 4 million people today
- 9.2 million people by 2040
- Growth driven by birth rates and immigration



# Less than 15% of San Joaquin Valley adults hold a 4-year college degree



#### **UC Merced's Local Context**



# UC Merced began construction in 2002 and opened in 2005

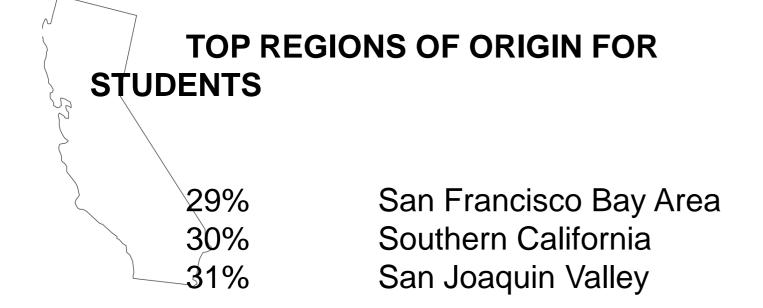


#### **UC Merced Student Demographics**

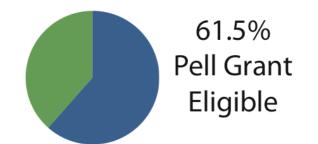
5,200 Students in Fall 2011



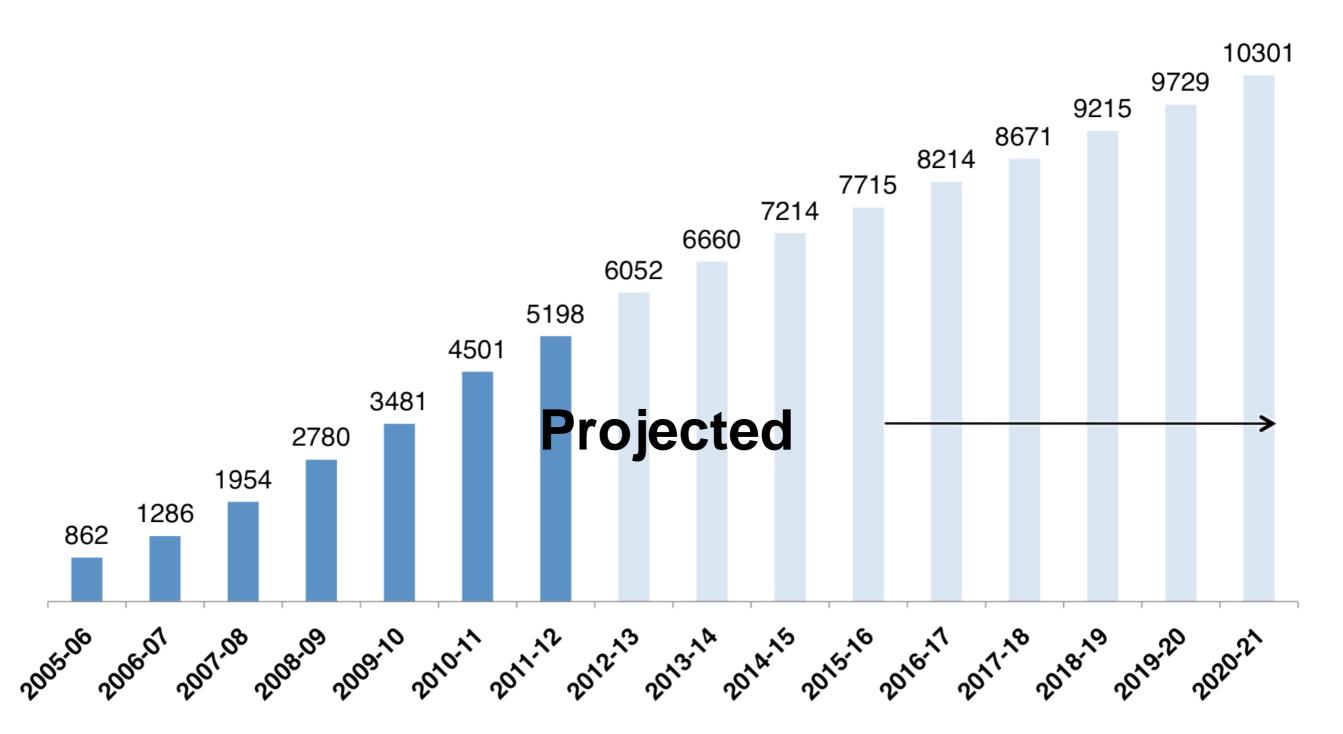




#### PELL GRANT ELIGIBLE FRESHMAN



# UC Merced Tomorrow 10,000 Students FTE by 2020





#### Staff and Faculty Projections through 2020

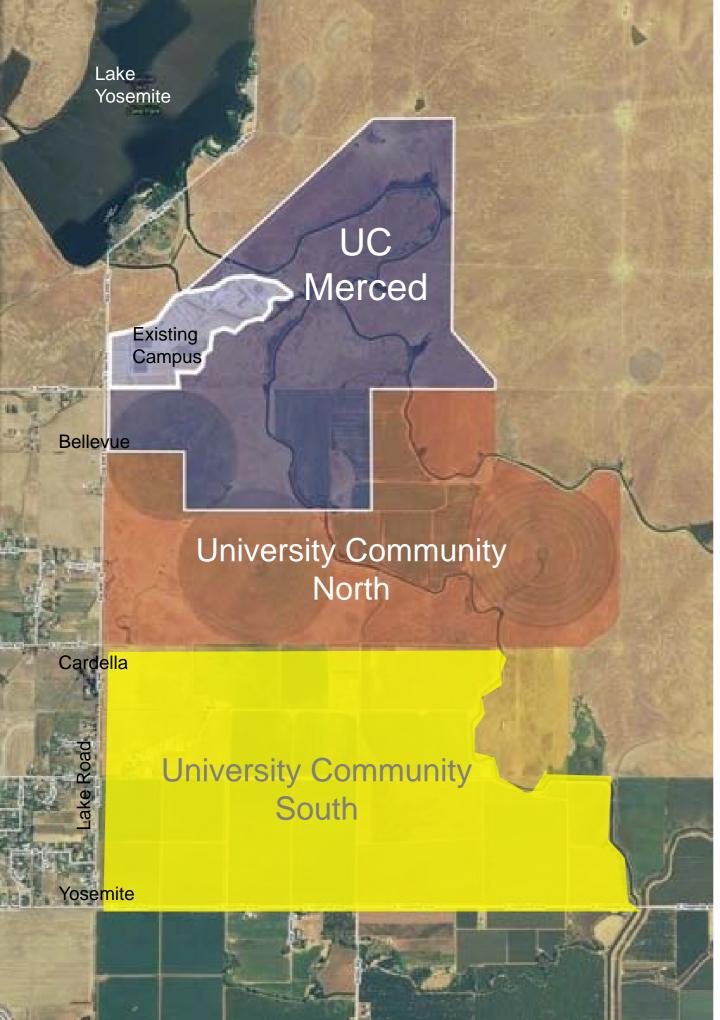




### **Campus Today**

Buildings clustered on 104 acre portion of site





# A 21<sup>st</sup> century opportunity

**UC Merced Campus** 

815 acres

Existing campus footprint: 104 acres

"University Community North"

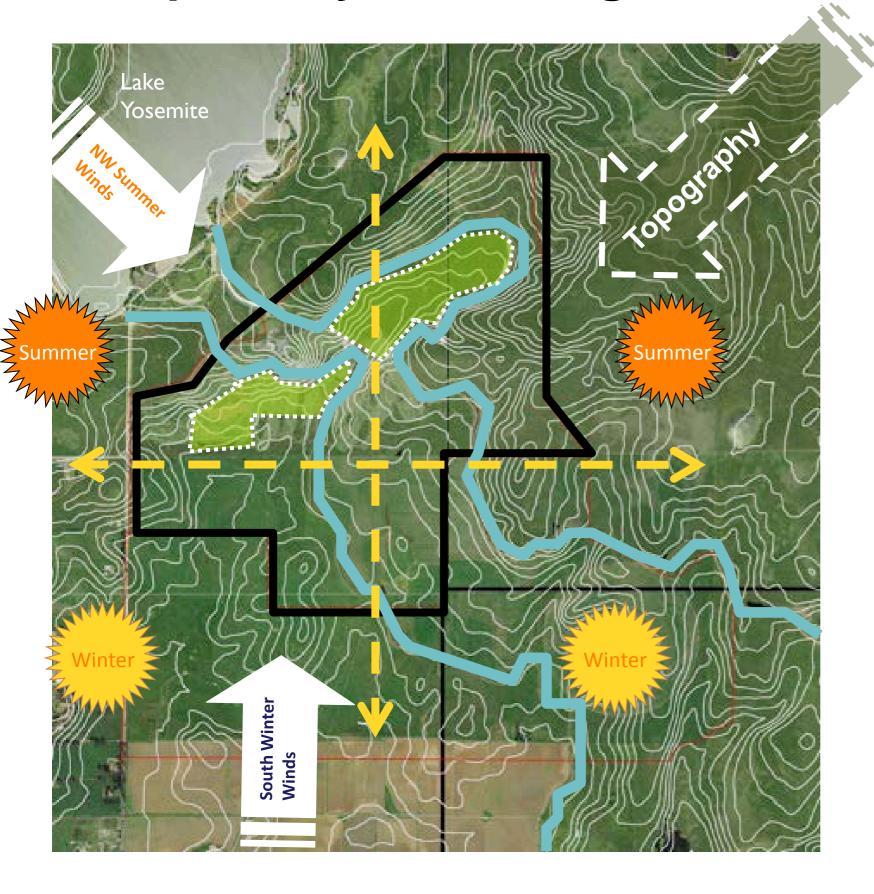
839 acres

University Community Land Company, LLC (UC Regents and Virginia Smith Trust)

"University Community South"

1,118 acres LWH Farms, Inc.

### **Campus Physical Design Determinants**



Natural topography running NE to SW

Summer breezes off Lake Yosemite

Two canals define development zones

Two topographic "Bowls" capture storm water flow

320 days of sun

# The Valley's landscape is largely linear and horizontal





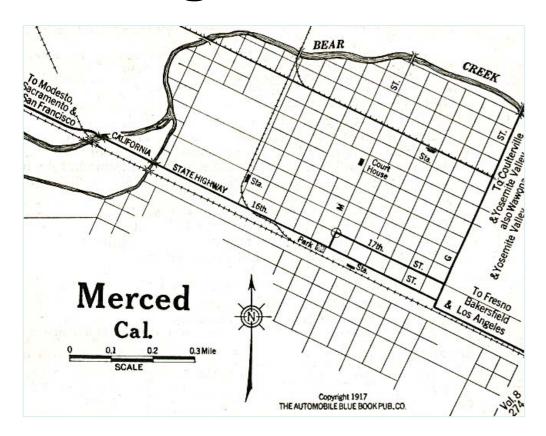


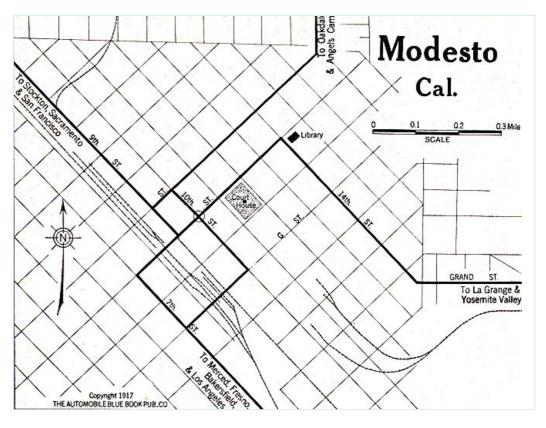




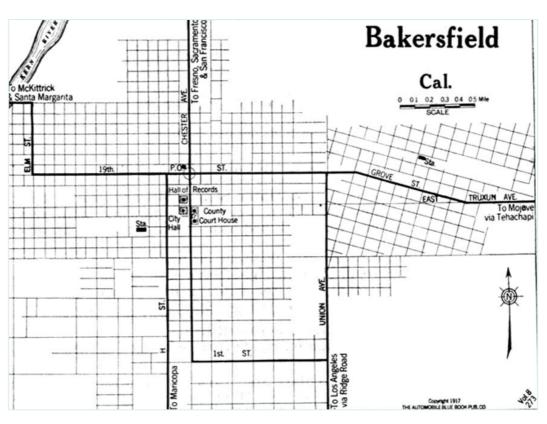


### **Orthogonal Street Grids**

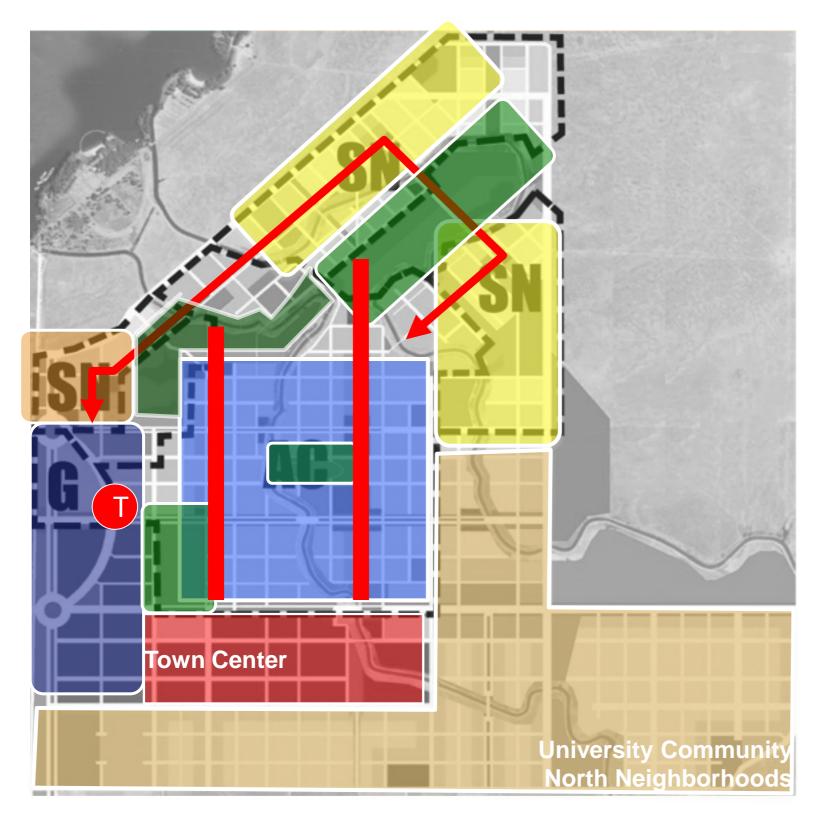






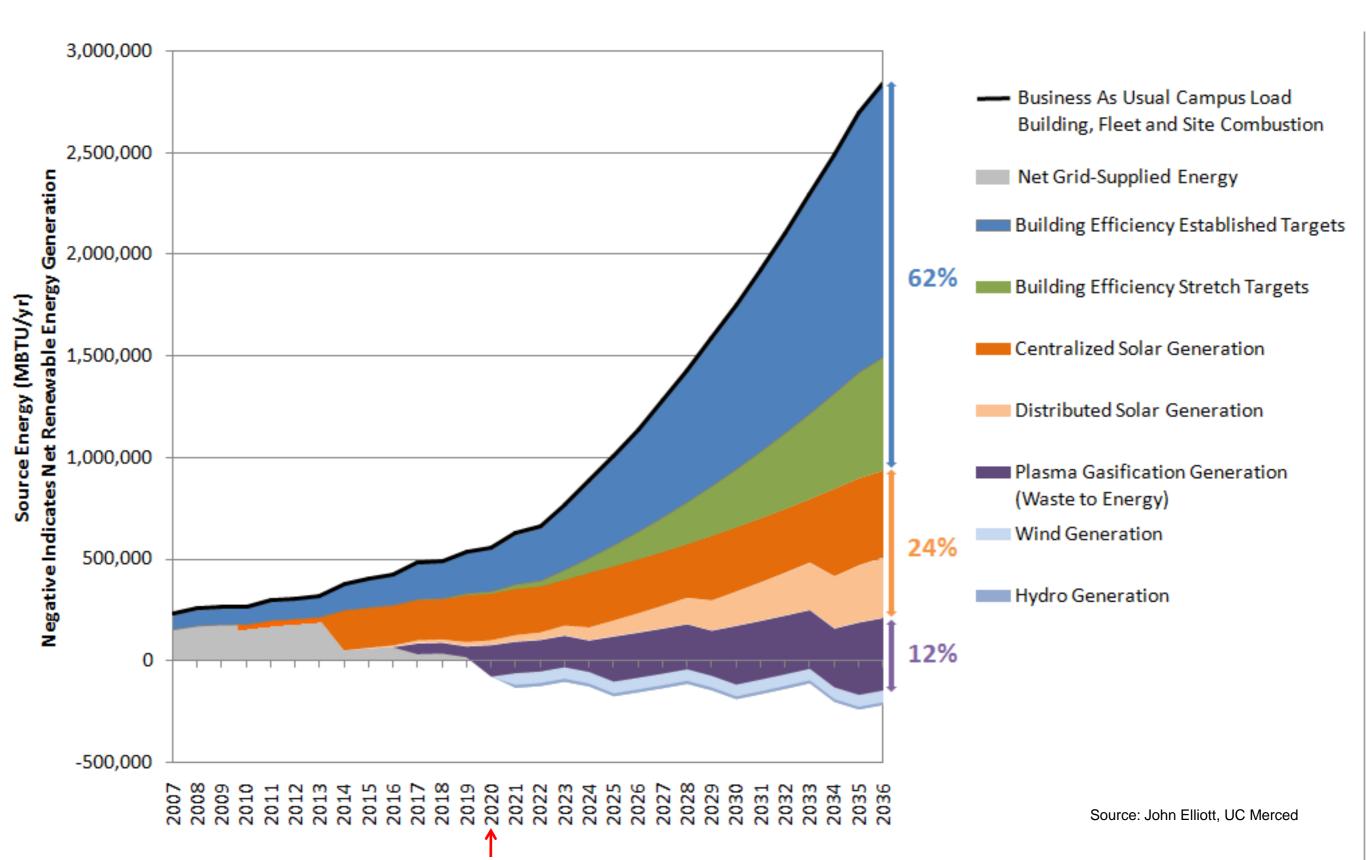


### A unique and sustainable campus and community



- Compact, car-free Academic Core served by transit
- 10 minute walking radius in the Academic Core
- Student Neighborhoods wrap campus perimeter
- Two mixed use "Main Streets" feature housing within academic core and connect to University Community North
- Open space and recreation embedded throughout
- "Gateway District" provides venue for research and development

### **UC Merced's Zero Net Energy Strategy**



# Architectural Expression and Materials: Glass, concrete, stucco and steel



Facades that respond to solar and wind orientation







Inspired by simple forms derived from the region's architecturally underappreciated buildings

#### **Architectural Regionalism:**

Integrates the climate, landscape and culture unique to a place















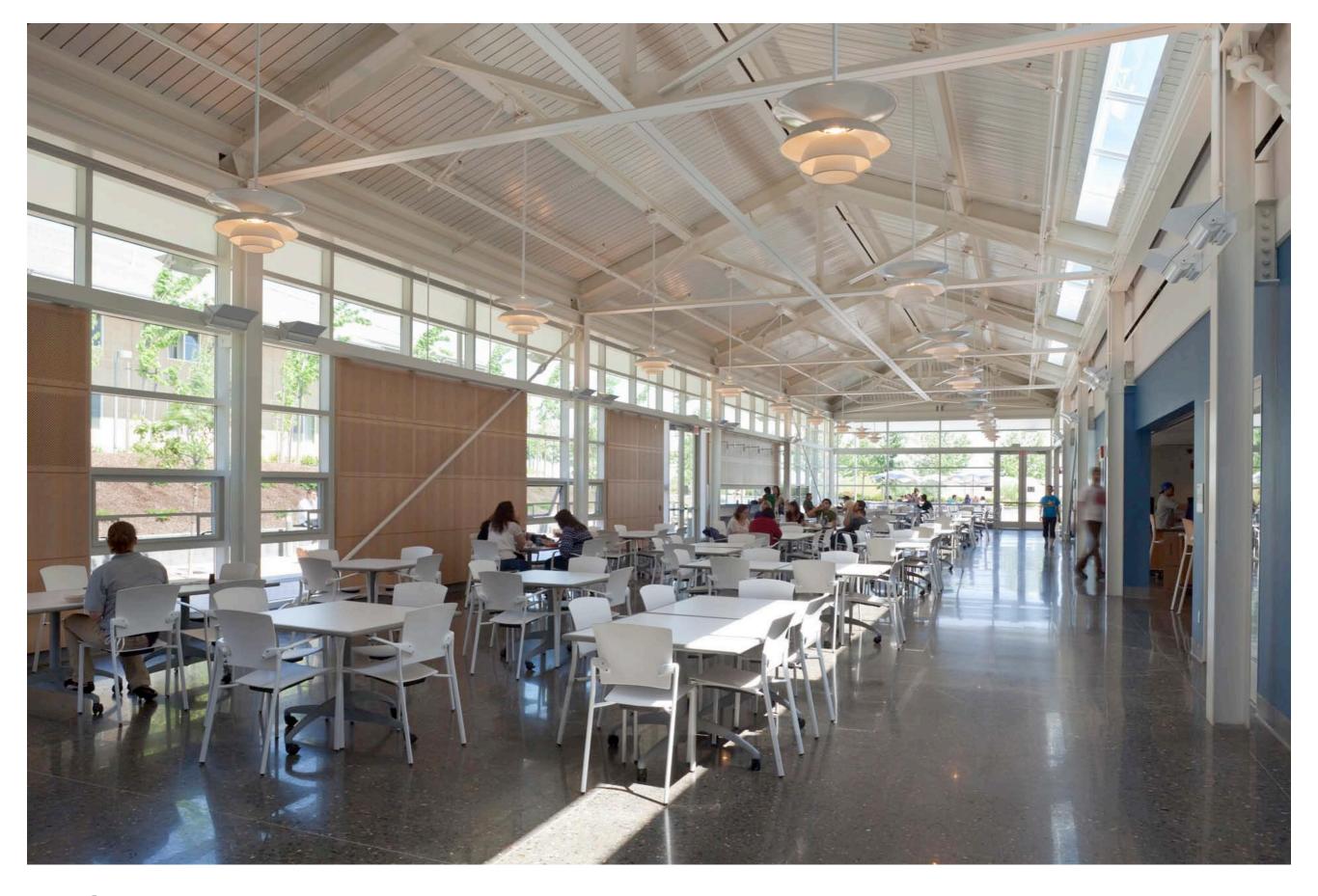
An aesthetic grounded in the Central Valley: Simple forms, straightforward and functional







Fruit Packing Shed Kern County, 1926

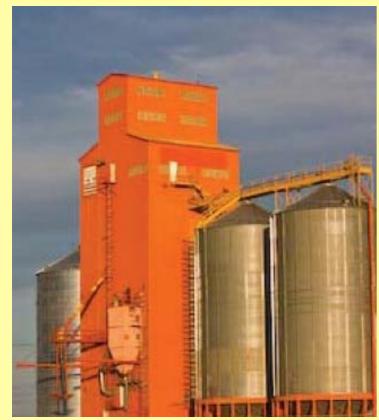


**UC Merced Dining Expansion** 

#### The Summits Residence Hall

### Strong Massing, Metal Siding, Functional Utility





**Influences** 



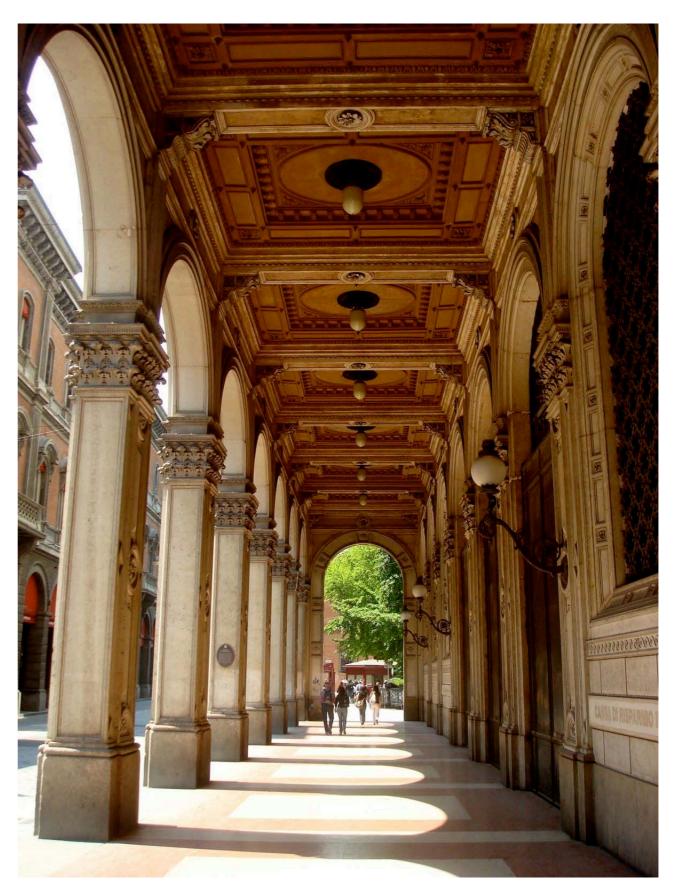




### Bologna, Italy







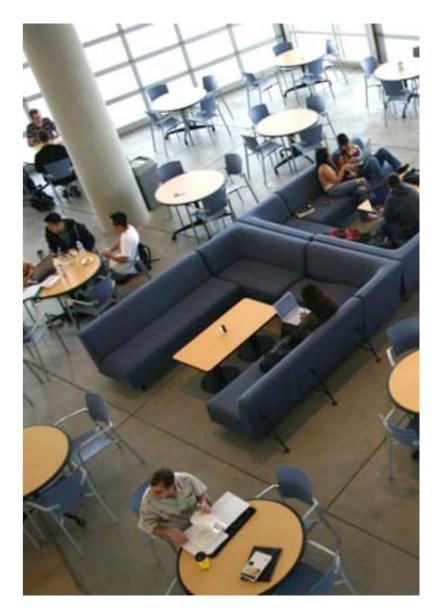
#### Arcades designed help create pedestrian culture



Arcades and porticos along pedestrian corridors



Lanterns help signify multiple key entries and creates nighttime identity



Public uses at ground level activate public spaces

### Hardwiring a pedestrian-oriented culture



#### Roof forms will be the "Fifth Façade"



- Mechanical systems integrated with building form will generate a skyline for the campus
- Flat roofs required by design guidelines will support solar collection



#### **Color Palette draws from the Central Valley landscape**















#### **Places for Interaction:** Providing indoor and outdoor options

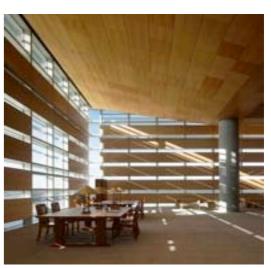








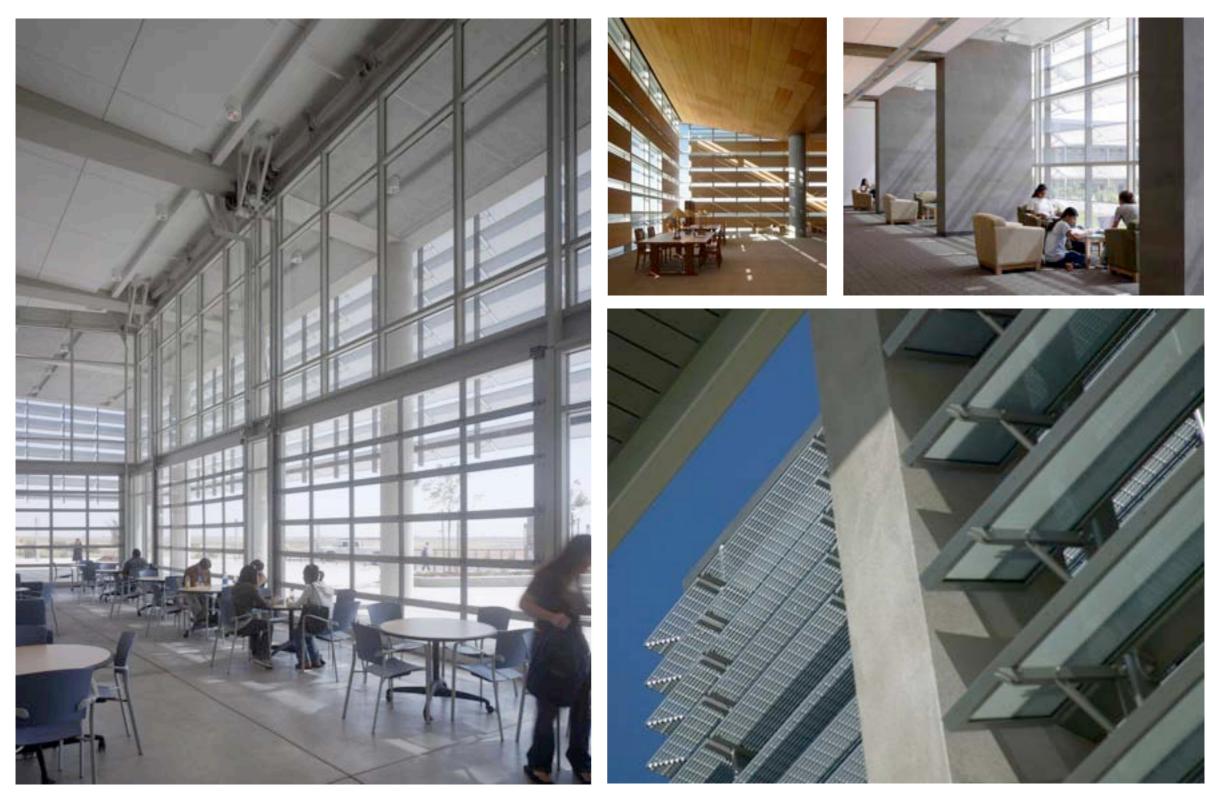








#### Architectural choices act as teaching tool



Walls are permeable for natural light and ventilation

#### **Interior Vertical Pathways**







Daylighting systems illuminate public pathways at night



#### Landscape typologies derived from region

Urban Streetscape



Riparian



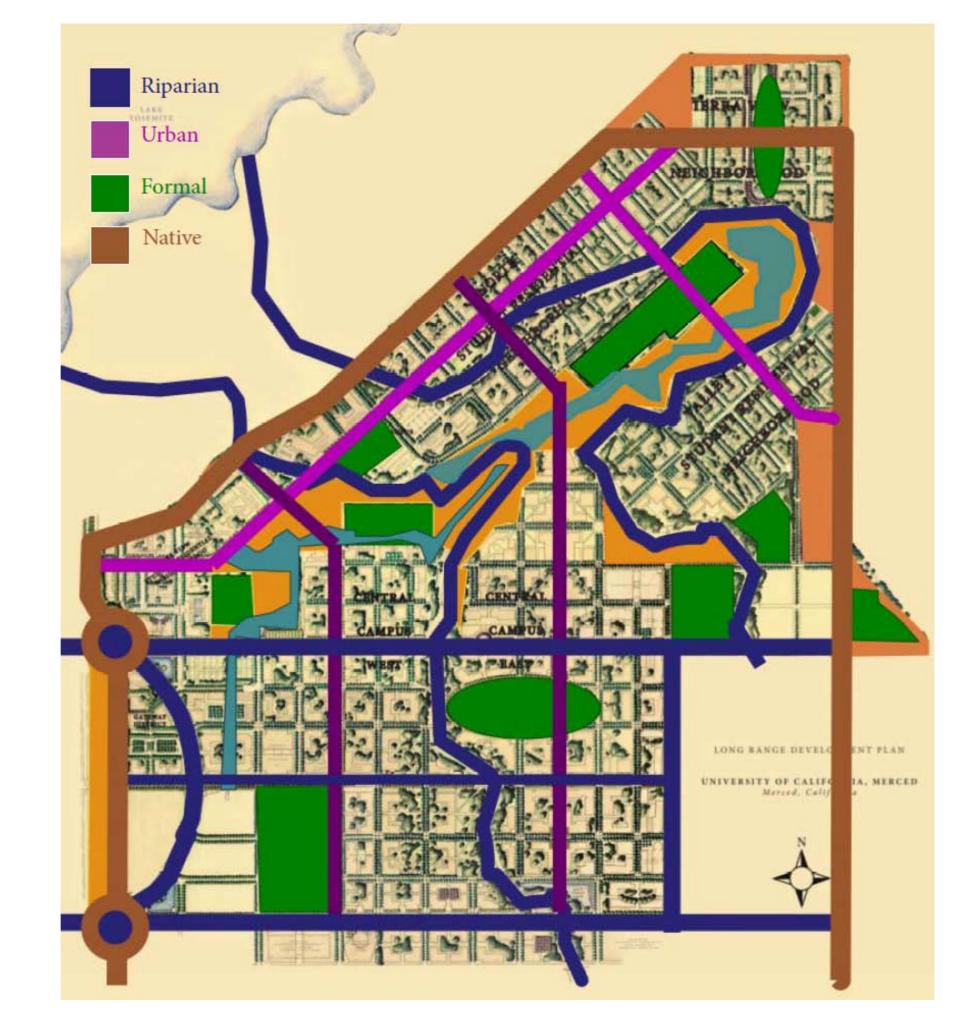
Orchards



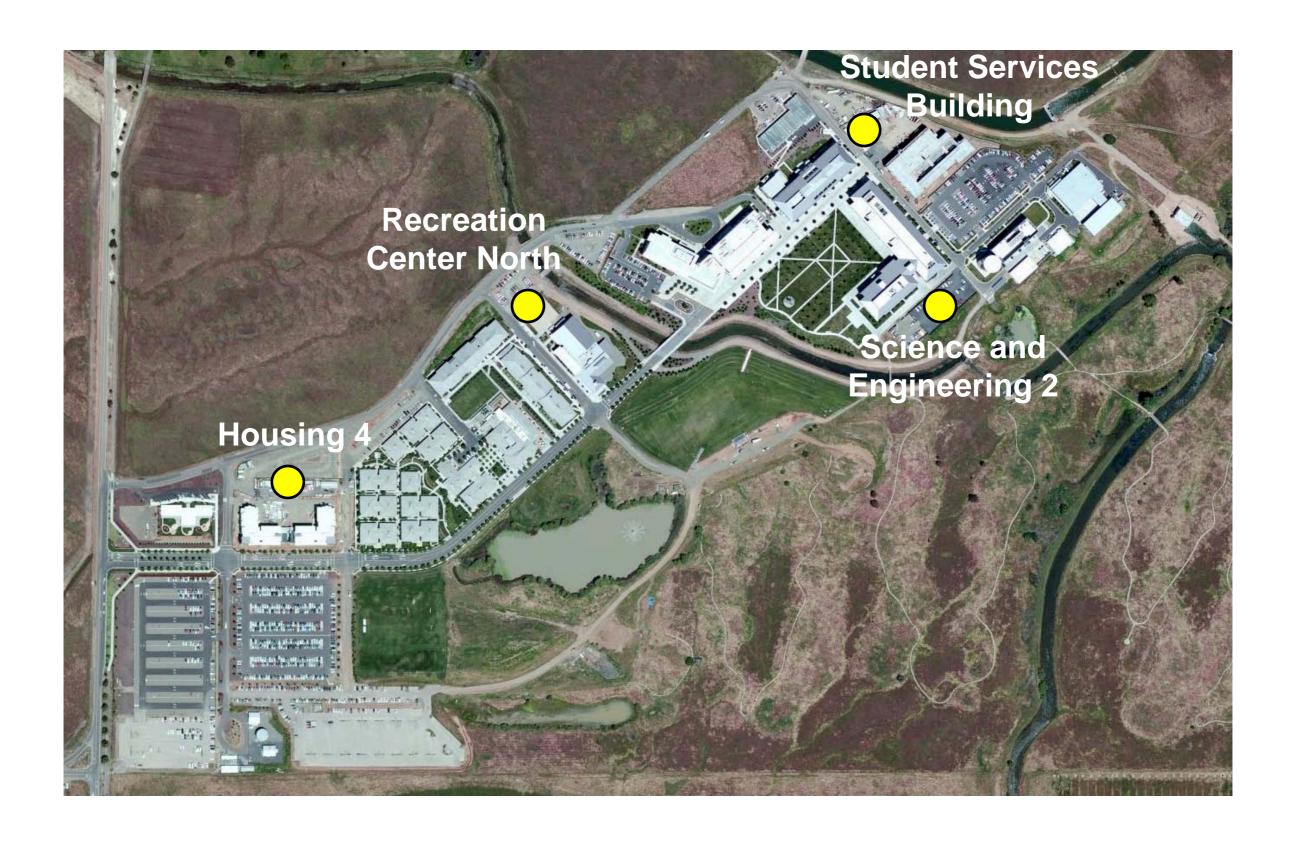
**Native Grasslands** 



#### Landscape Typology Arrangement



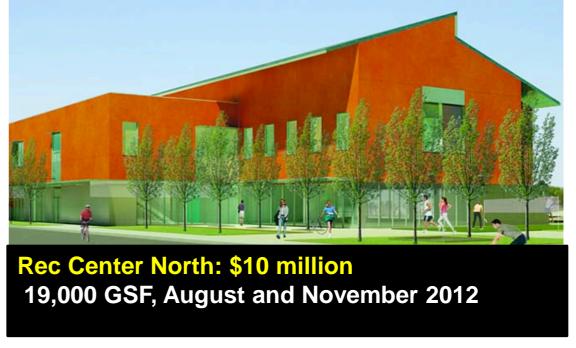
#### Overview of Major Project sites: 2012-2015 New Academic and residential space



#### The goal for UC Merced 2014:

#### Four new buildings and new infrastructure







102,000 GSF by 2014



**Student Services Building: \$19 million** 

1-story portion: Fall 2013

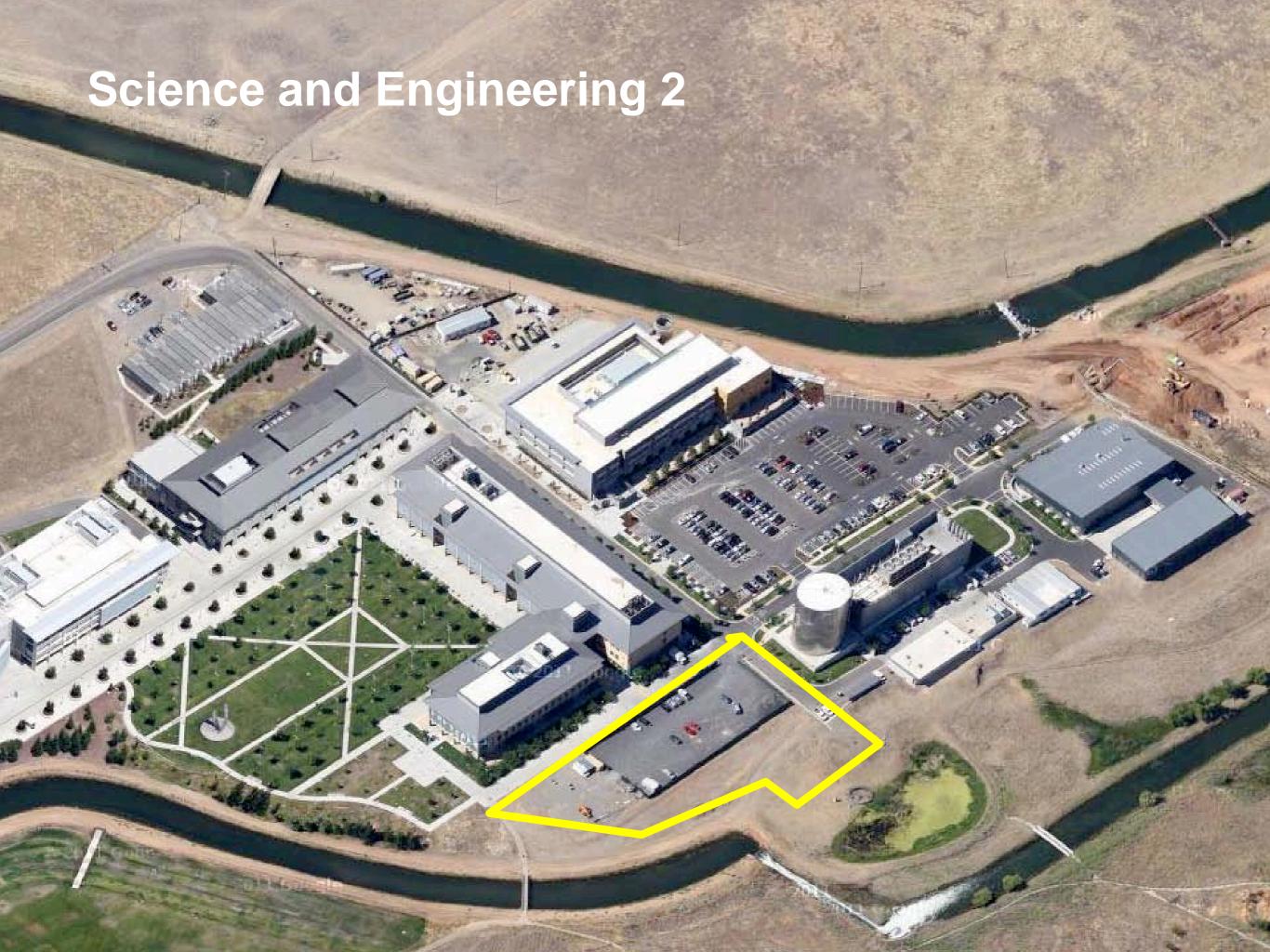
3-story portion: January 2014

#### Housing 4: Opens Fall 2013



#### Housing 4 View from Cathedral and Tenaya Halls





## Science and Engineering 2: Complete in 2014 LEED Platinum Target Photovoltaic Shade Structure







Corner Balcony \_looking northeast





# View from inside and courtyard



### The Gateway District

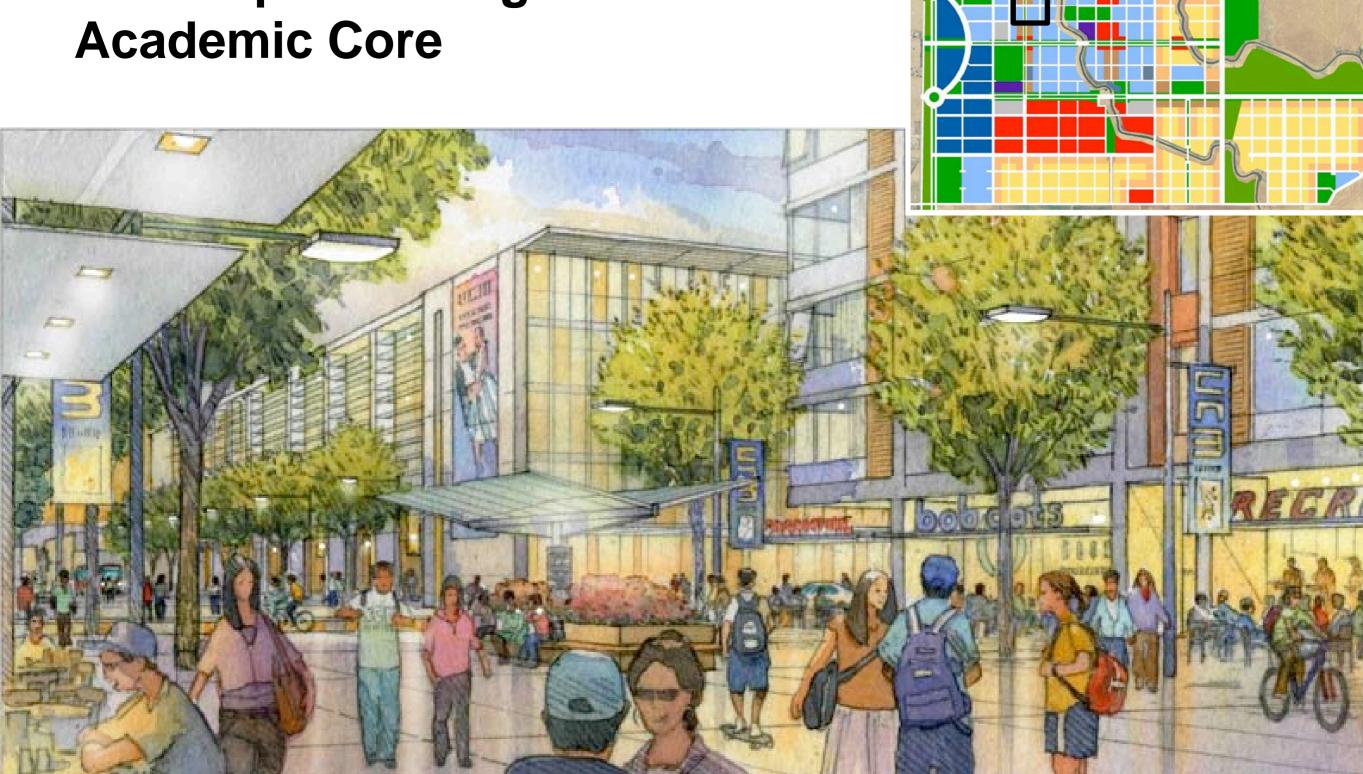
The campus research and development park





#### **Main Street 2.0**

One of two mixed use linear streets penetrating the Academic Core



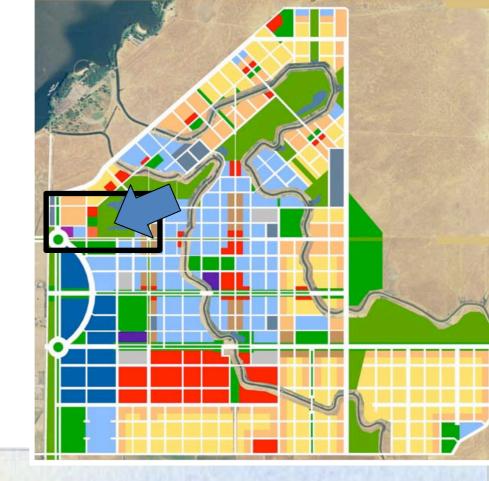
#### The North Bowl

Acts as open space and visible stormwater management system



#### The South Bowl

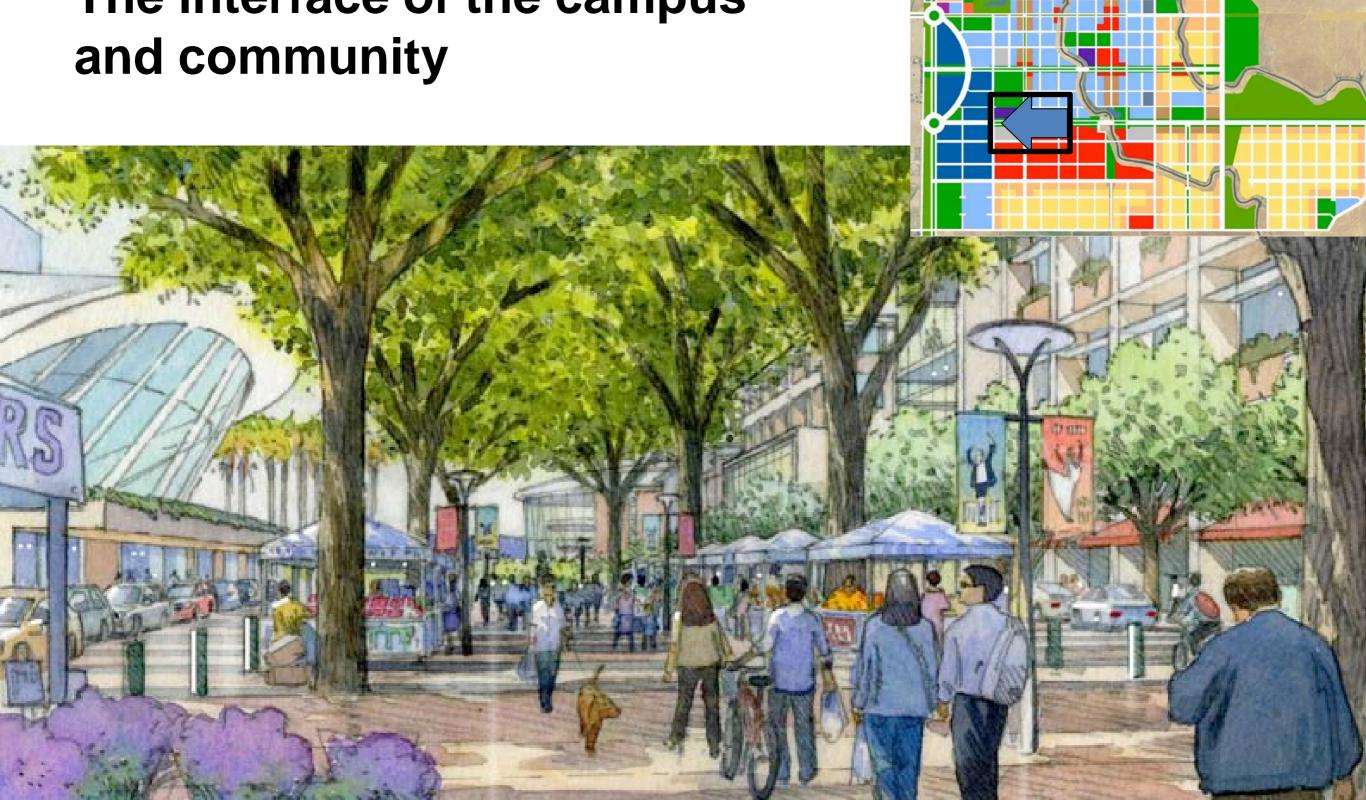
An open space focus for adjacent buildings that feature daylighting

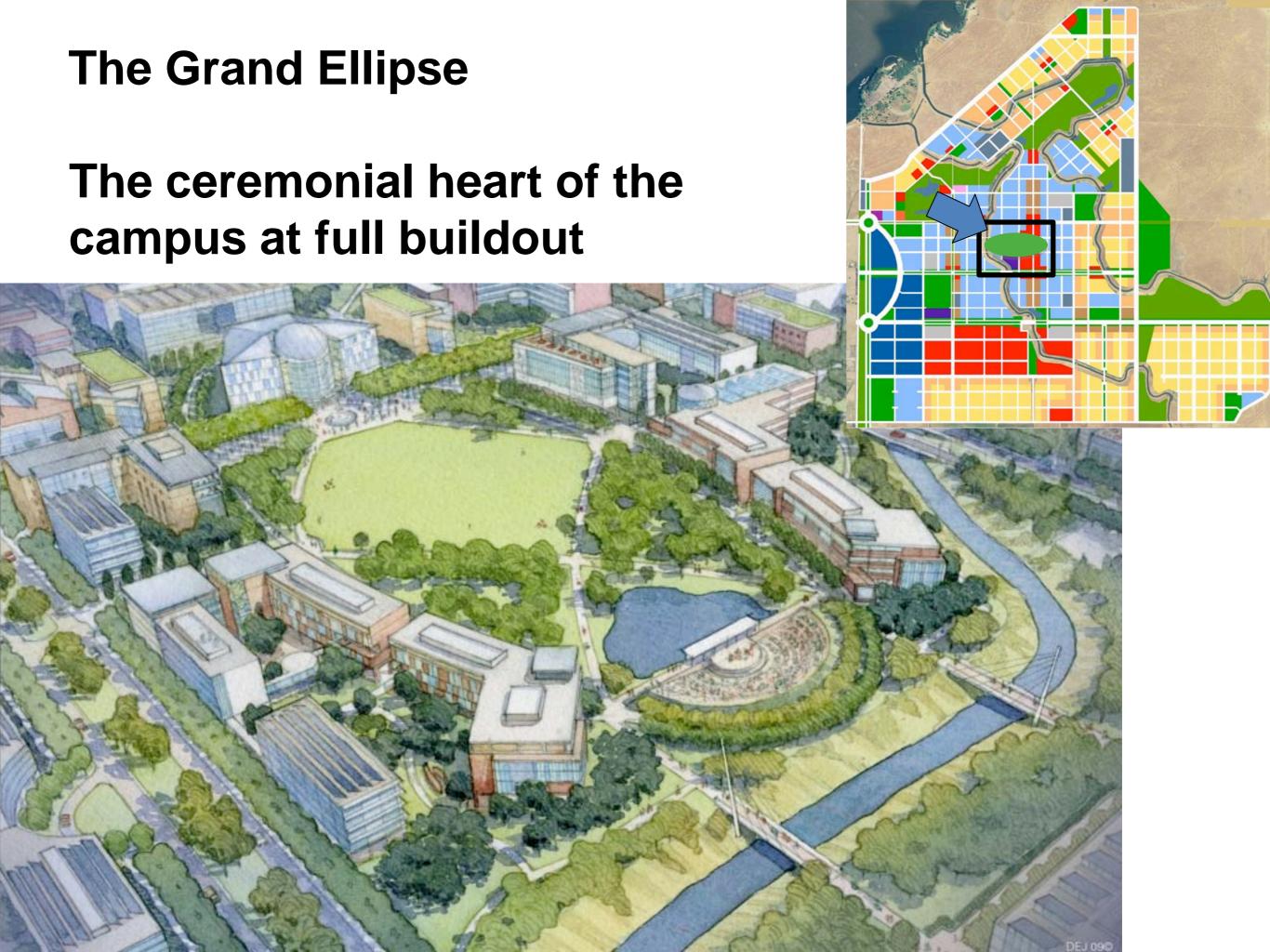






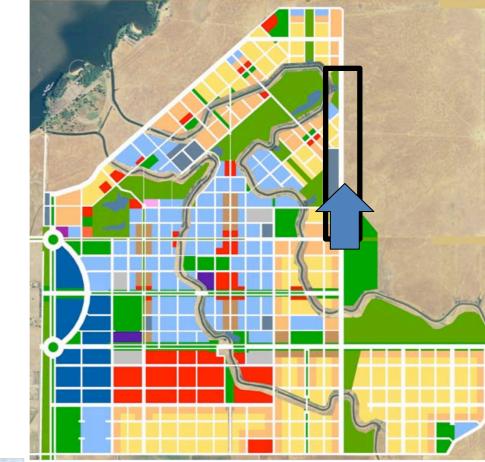
The interface of the campus





#### The Perimeter Loop Road

Provides a distinct renewable focused edge between the built environment and adjacent grasslands

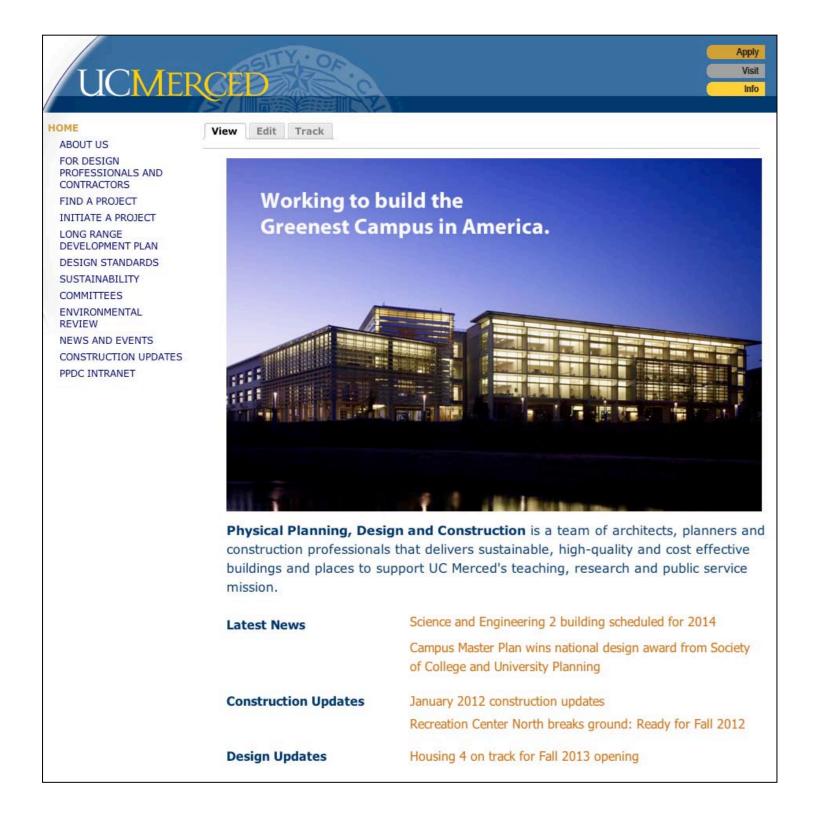




#### **UC Merced and University Community North**



## PPDC Construction Website http://ppdc.ucmerced.edu



- ConstructionUpdates
- Project Images and details

