



California State Polytechnic University, Pomona

Master Plan Update

Advisory Committee



1 March 2018

AGENDA

Advisory Committee

1 March 2018, 12pm – 3pm

Progress/Schedule

Overview of Workshop #2 Activities

- President's Cabinet
- Stakeholder Meetings
- Space Analytics

Observations + Analysis : Infrastructure

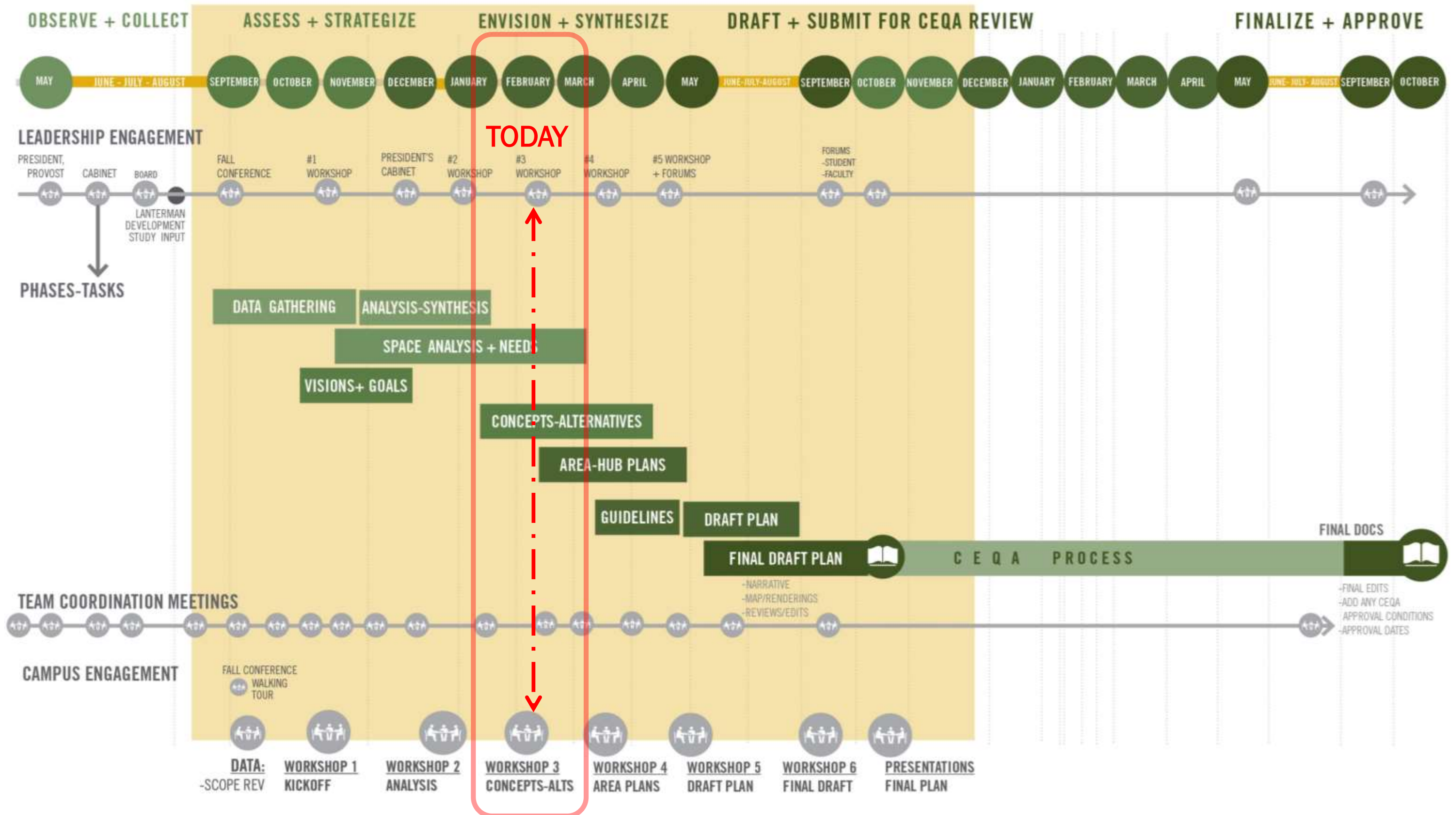
Sustainability Stakeholder Focus Session

Planning Principles + Objectives

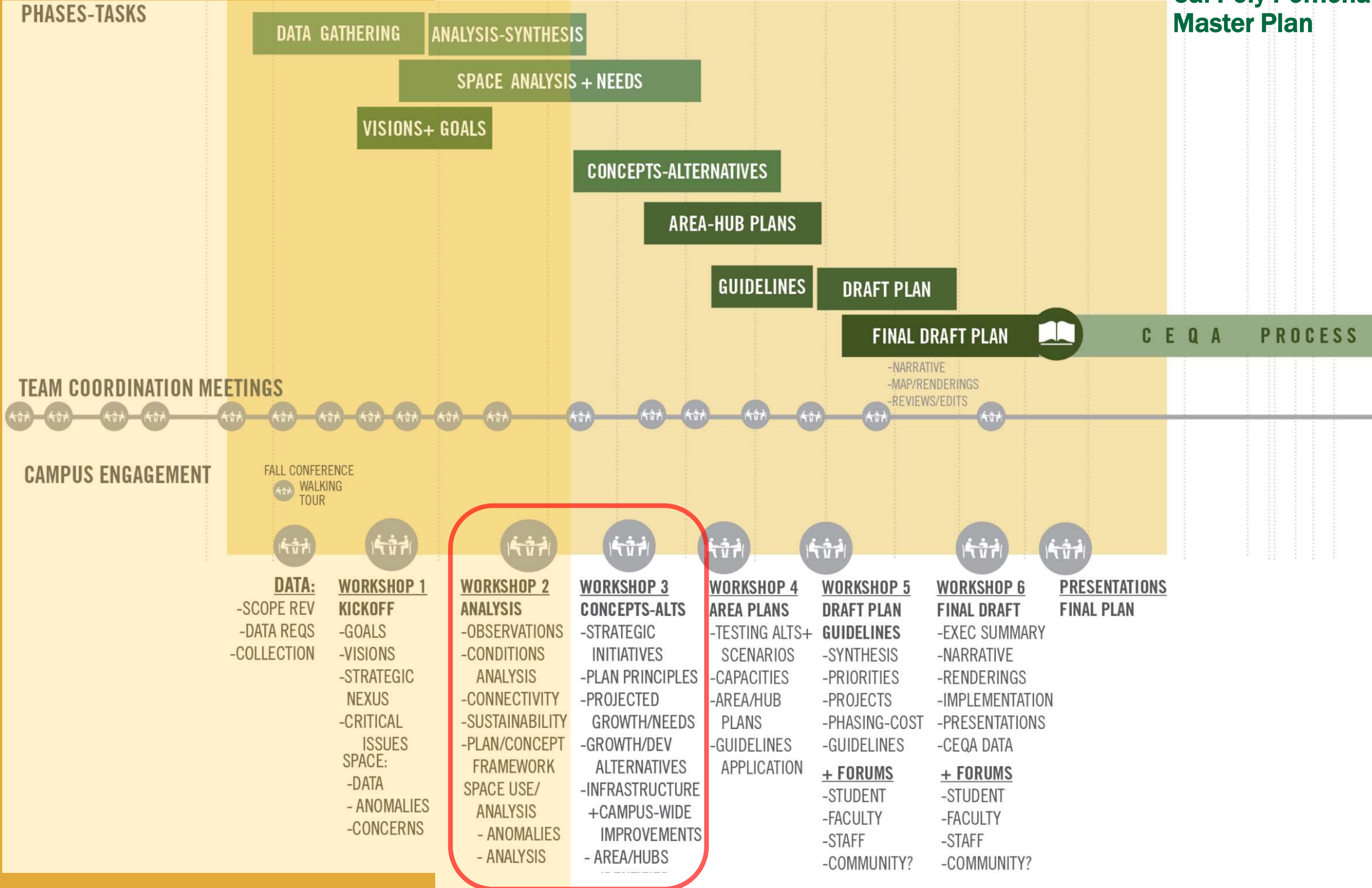
Planning Framework

Next Steps

Project Timeline – Fall 2017 to Fall 2018



← Progress to Date



Overview of Workshop #2 Activities



- President's Cabinet
- Advisory Committee

President's Cabinet

Executive Committee

22 January, 2018 - 9 am

Update on Process/Progress

- Progress + Campus communications
- Fall Conference
- Workshop #1
 - Advisory Committee Visioning exercise
 - Open Session stakeholder input
 - Provost + Deans on MP-SP-AP nexus

Overview of Workshop #2

- Connectivity, Circulation, Transportation
- Landscape, Open Space
- Sustainability
- Space Analytics: Instructional Space Utilization

Look Ahead to Workshop #3

Engagement beyond the Campus?

Discussion

Overview of Workshop #2 Activities

President's Cabinet Discussion

- Engagement:
- student participation is high, need to identify college/major to make sure all colleges are represented
 - reach out to culturally-based student organizations
 - engage Faculty Senate
 - reach out to Foundation, Alumni Association Board
 - plan a community listening session
 - Cities: Pomona, Walnut, Industry, Diamond Bar
 - LA County, San Gabriel Economic Partnership
 - Regional Transit, Fairplex, Mt Sac College

Overview of Workshop #2 Activities

President's Cabinet Discussion

- Sustainability:**
- previous Sustainability Committee developed the Climate Action Plan (CAP)
 - plan has not been fully operationalized
 - how do we better track / report progress?
 - sustainability is about much more than climate change or CO2 footprint

Overview of Workshop #2 Activities



- **President's Cabinet**
- **Advisory Committee**
- **Stakeholder Meetings**
 - Transportation, Parking
 - Students, student organizations
 - Bronco Student Center
 - Campus Housing, Dining
 - Health Services
 - Childcare Center
 - Recreation, Athletics

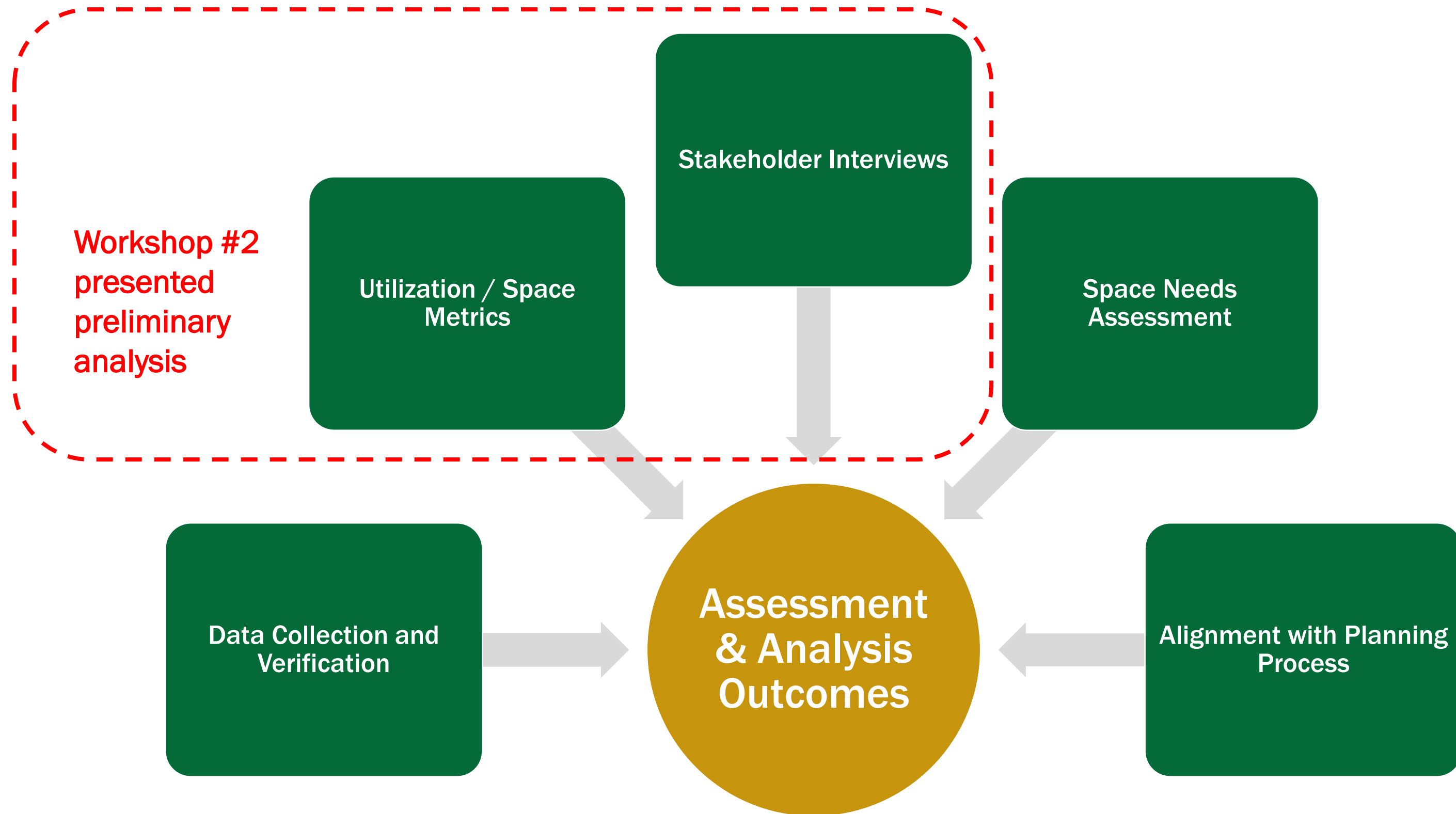
Planned for Feb 28 - Mar1

- Student Cultural Center
- Foundation, Dining
- Police, Safety
- Library

Space Analytics

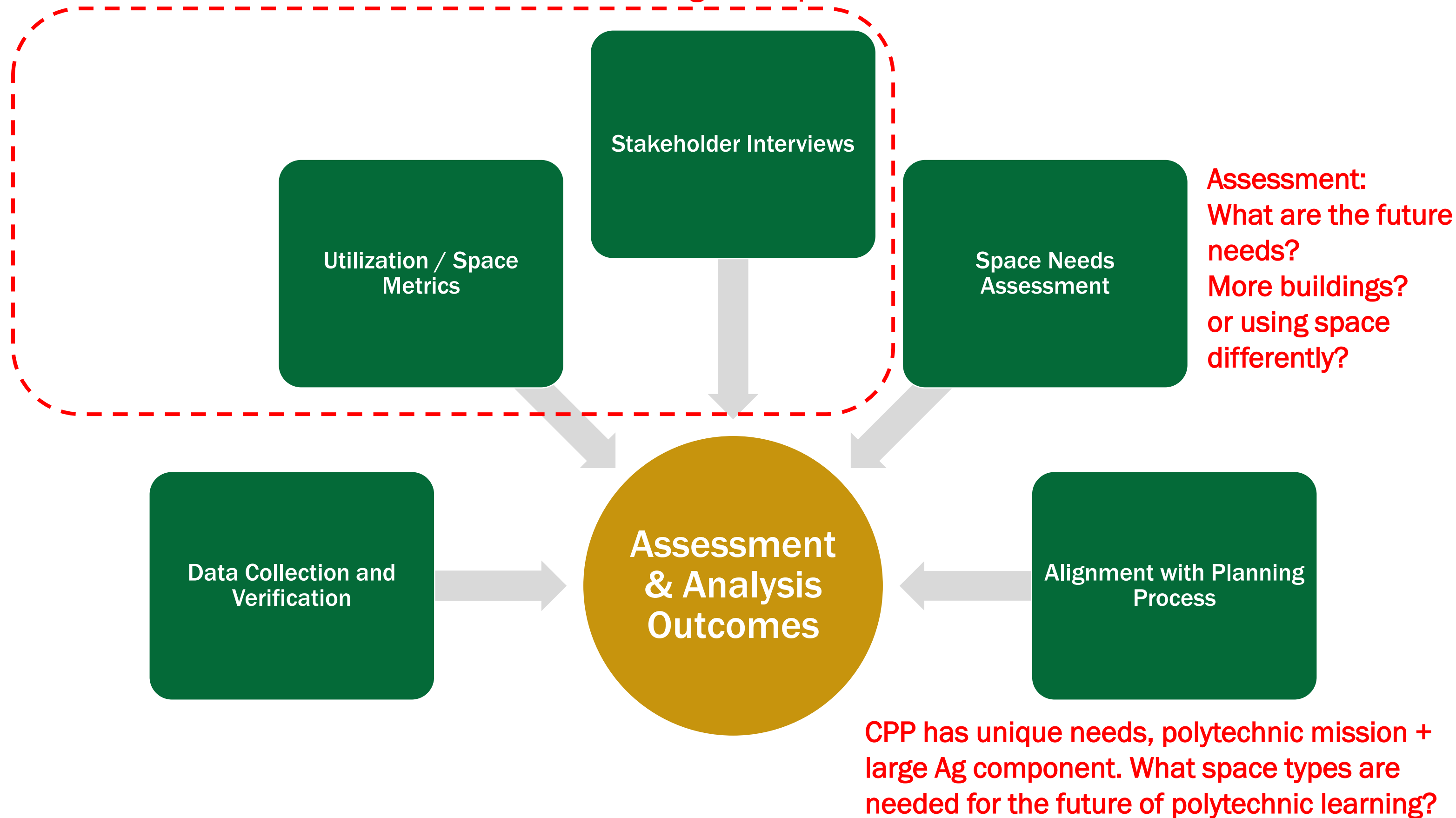
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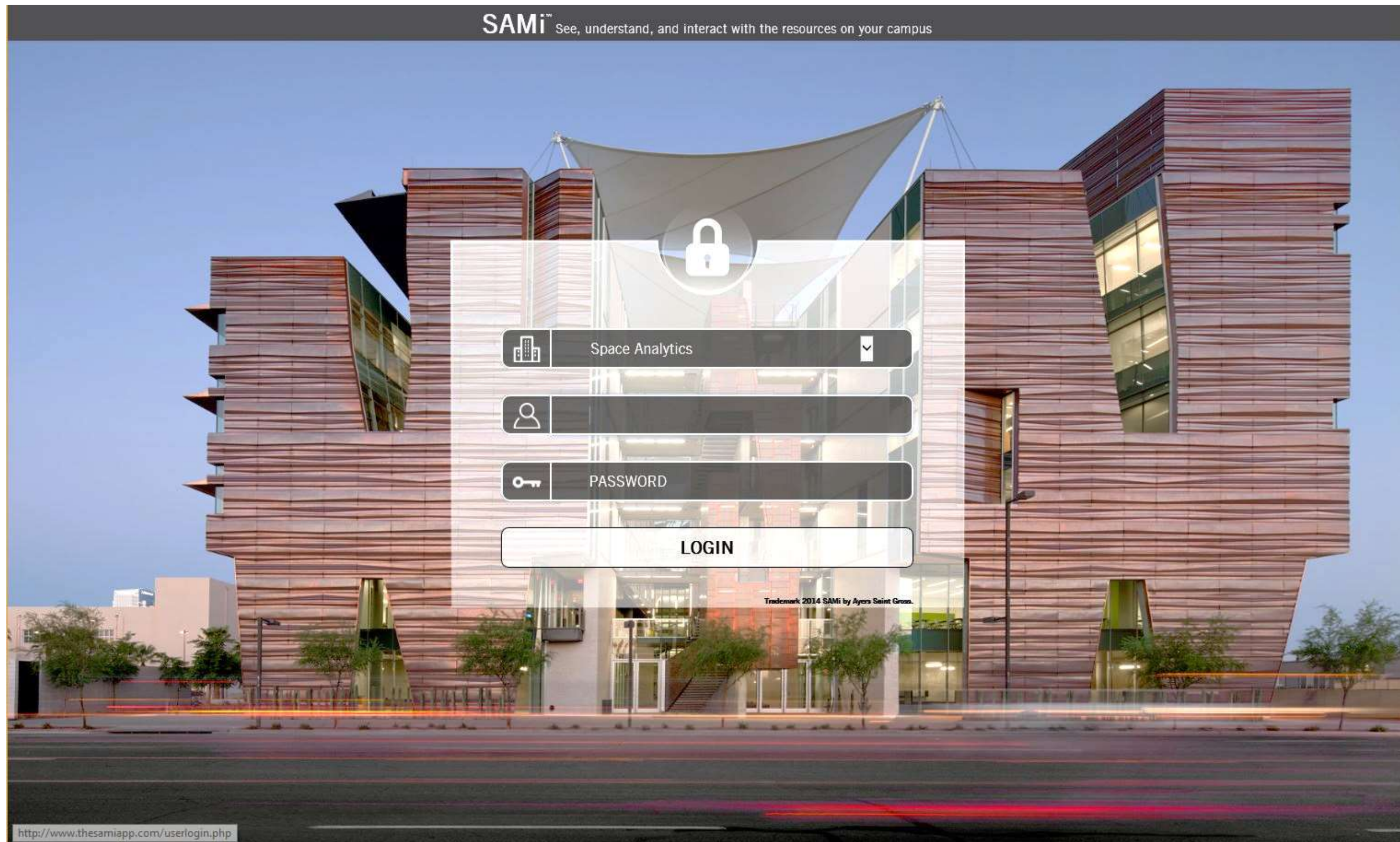
Components of the Space Study



Components of the Space Study

Future sessions will include
meetings with specific stakeholders





Infrastructure and Utilities

Infrastructure and Utilities

analysis is in process, consulting engineers will be developing drawings illustrating current conditions

Chilled Water

Heating Hot Water

Domestic Hot Water

Reclaimed Water

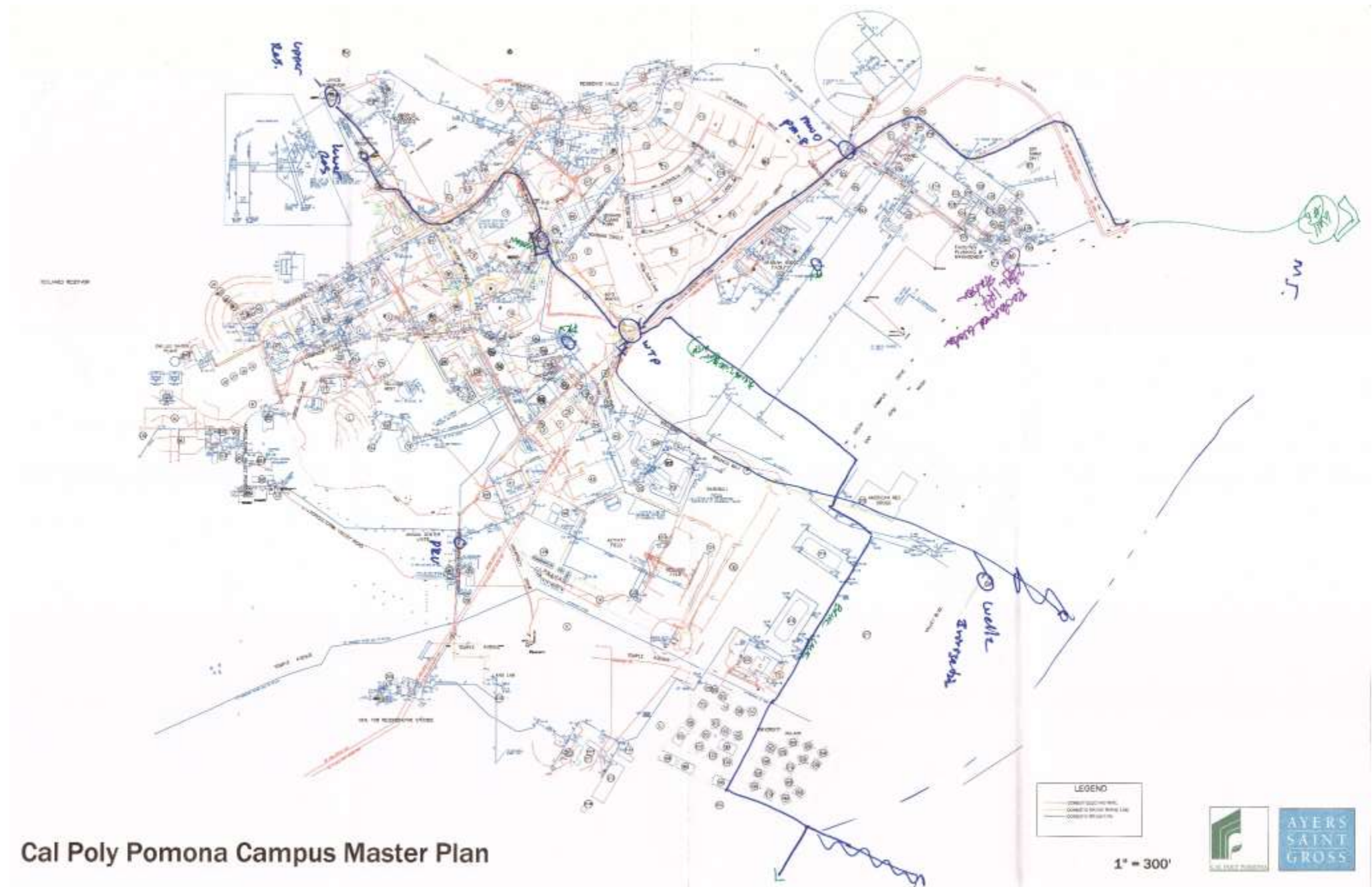
Electricity

Solar

Stormwater

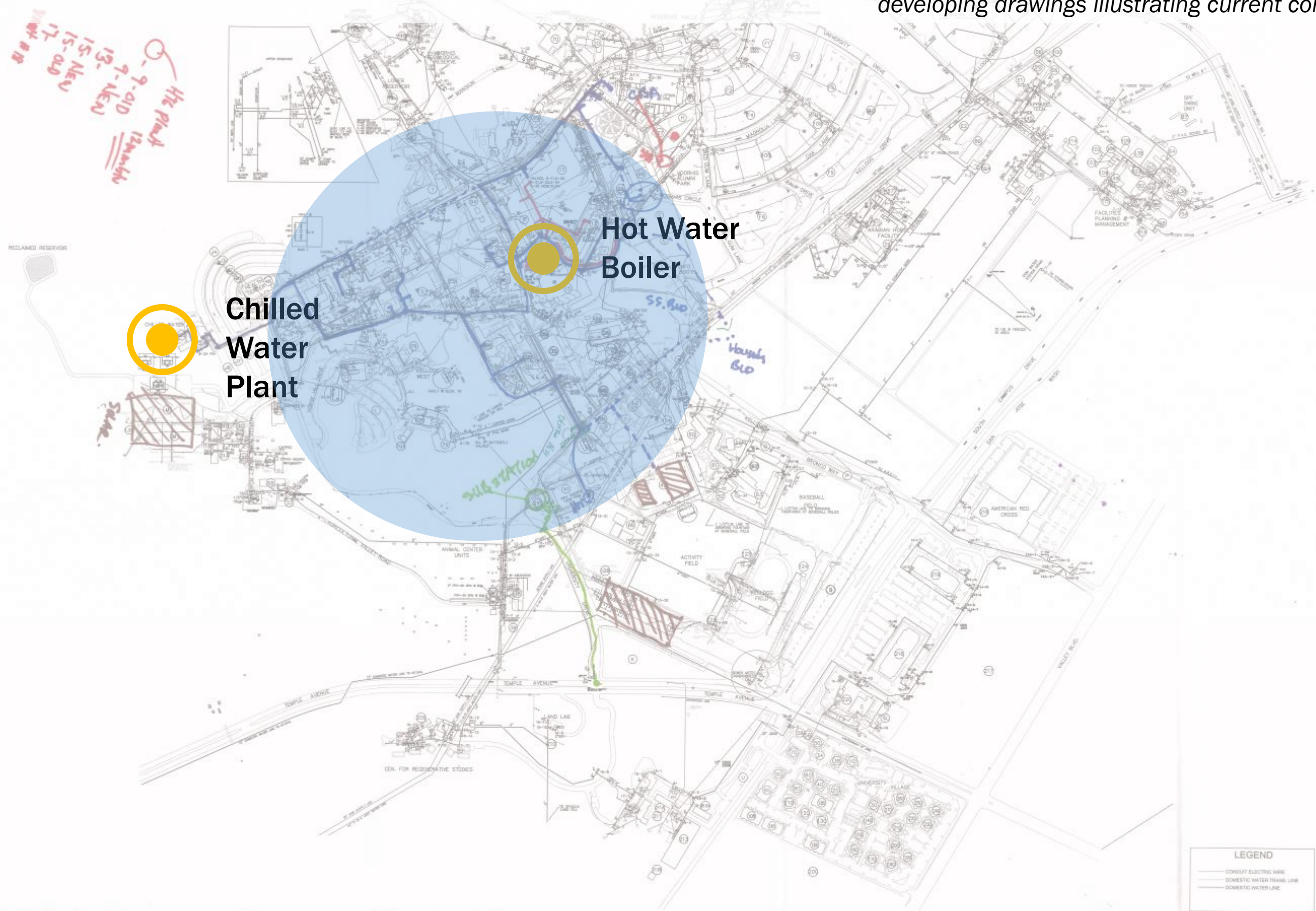
Sanitary Sewers

Gas



Central Plant Utilities

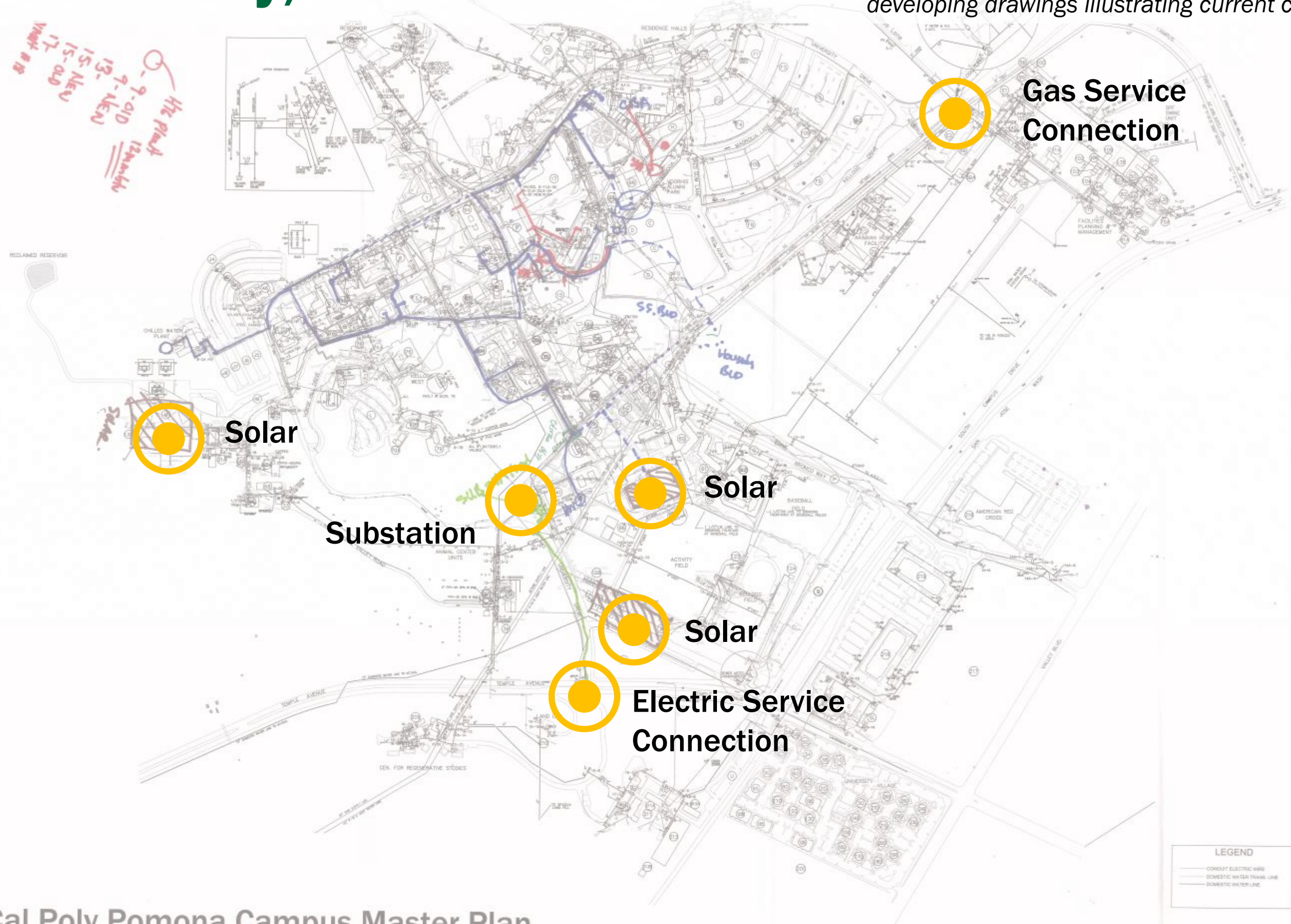
analysis is in process, consulting engineers will be developing drawings illustrating current conditions



Electricity, Gas

analysis is in process, consulting engineers will be developing drawings illustrating current conditions

9-9-01D
13-14-01D
15-16-01D
17-18-01D
H/E plant
12/10/10



Campus Water

analysis is in process, consulting engineers will be developing drawings illustrating current conditions

Domestic Water
Reservoirs

Metropolitan Water District
Source Connection

Reclaim Waterlift

Reclaimed Water
Reservoir

Chilled
Water
Plant

Water Treatment Plant

Brine Line

LEGEND

CONDUIT ELECTRIC PIPE

DOMESTIC WATER TRANS. LINE

DOMESTIC WATER LINE

1" = 300'



Stormwater

analysis is in process, consulting engineers will be developing drawings illustrating current conditions

- Stormwater flows NW to SE into San Jose Creek via and open channel along South Campus Drive
- Many opportunities for stormwater on campus that will integrate into the landscape



Landscape and Grounds

Observations:

- Native and drought resistant plantings are preferential
- Turf replacement in areas that it is not needed
- Diversity of plant/tree species
- Ongoing and Future Landscape/Grounds Partnerships
 - Landscape Architecture Program
 - Agriculture Programs
 - Athletics and Recreation
 - Student or Community Groups
 - Others?



Stormwater Opportunities



Stormwater Opportunities



Infrastructure and Utilities – Big Takeaways

The Campus Master Plan will:

- Account for ongoing plans and projects
- Develop a new understanding for growth and its affect on utility capacities
- Suggest larger infrastructure changes that will be beneficial in the long-term as the campus grows
- Identify sustainable solutions – especially for Water, Solar, and Stormwater



Sustainability

.....

Sustainability Open Forum



Over 40 participants including students, faculty and staff

- ASI, BEAT
- Rideshare / Parking
- Food Justice Club
- Biotrek, Biology
- Engineering
- Business
- Urban and Regional Planning

Sustainability Open Forum

Exercises + Discussion

- Participation:**
- over 40 students, faculty and staff participating
 - **1-2-4 Exercise:** ‘What would be success be at CPP?’
 - *Waste redefined (beyond reduced or recycled)*
 - *Reduce campus CO2 footprint to zero*
 - *Viewed as a leader/model nationally*
 - *Faculty, staff, students understand and practice sustainability (knowledge + commitment)*
 - *ALL buildings are Net Zero or LEED for Existing buildings*
 - *LEED GOLD is the new standard (+ strive for Platinum)*

Sustainability Open Forum

Exercises + Discussion

Exercises:

- **‘What makes you feel healthy? Is it supported at CPP?**
 - *walking* *yes*
 - *riding a bike* *no*
- **What prevents you from using more sustainable alternatives for transportation?**
 - *live too far away, bus takes +2.5 hrs each way*
 - *lack of regional bus service where I live*
 - *limited schedule (metrolink)*
 - *need to be able to respond if school calls*

Sustainability Open Forum

Exercises + Discussion

Support:

- lighting/HVAC controls, greywater for toilets, storm water management, composting, maybe even composting toilets

Concerns:

- *today there is more TALK than WALK*
- *need more data, less estimating, for accurate reporting*
- *lots of efforts may not be captured in reporting*
- *we need more space for today's needs, what about enrollment growth? how do we reduce CO2 while increasing people?*

Draft Guiding Principles

**The physical campus
must evolve to
support and realize
Cal Poly Pomona's
strategic goals.**

MASTER PLAN GOAL

The 2018 Cal Poly Pomona Master Plan Update will be comprehensive, broad, and intentional about furthering Cal Poly Pomona's place in the future of the country.

Cal Poly Pomona Values



**STUDENT LEARNING
AND SUCCESS**



**ACADEMIC
EXCELLENCE**



**EXPERIENTIAL
LEARNING**



INCLUSIVITY



**COMMUNITY
ENGAGEMENT**



**SOCIAL AND
ENVIRONMENTAL
RESPONSIBILITY**

Cal Poly Pomona Strategic Initiatives

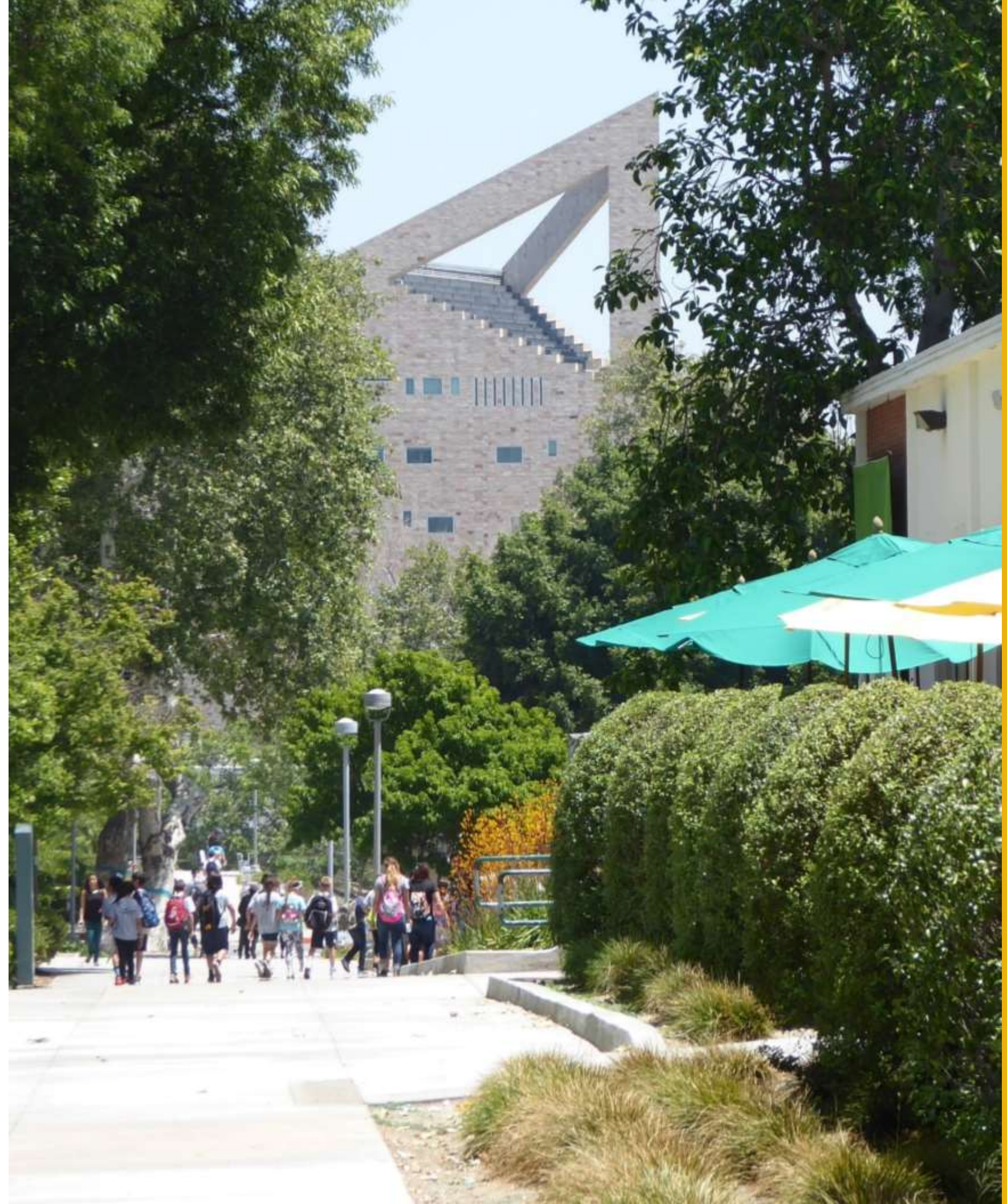
Deliver quality programs that promote integrative learning, discovery, and creativity.

Enhance Student Learning, Development, and Success

Prepare our students for the future of work and civic engagement

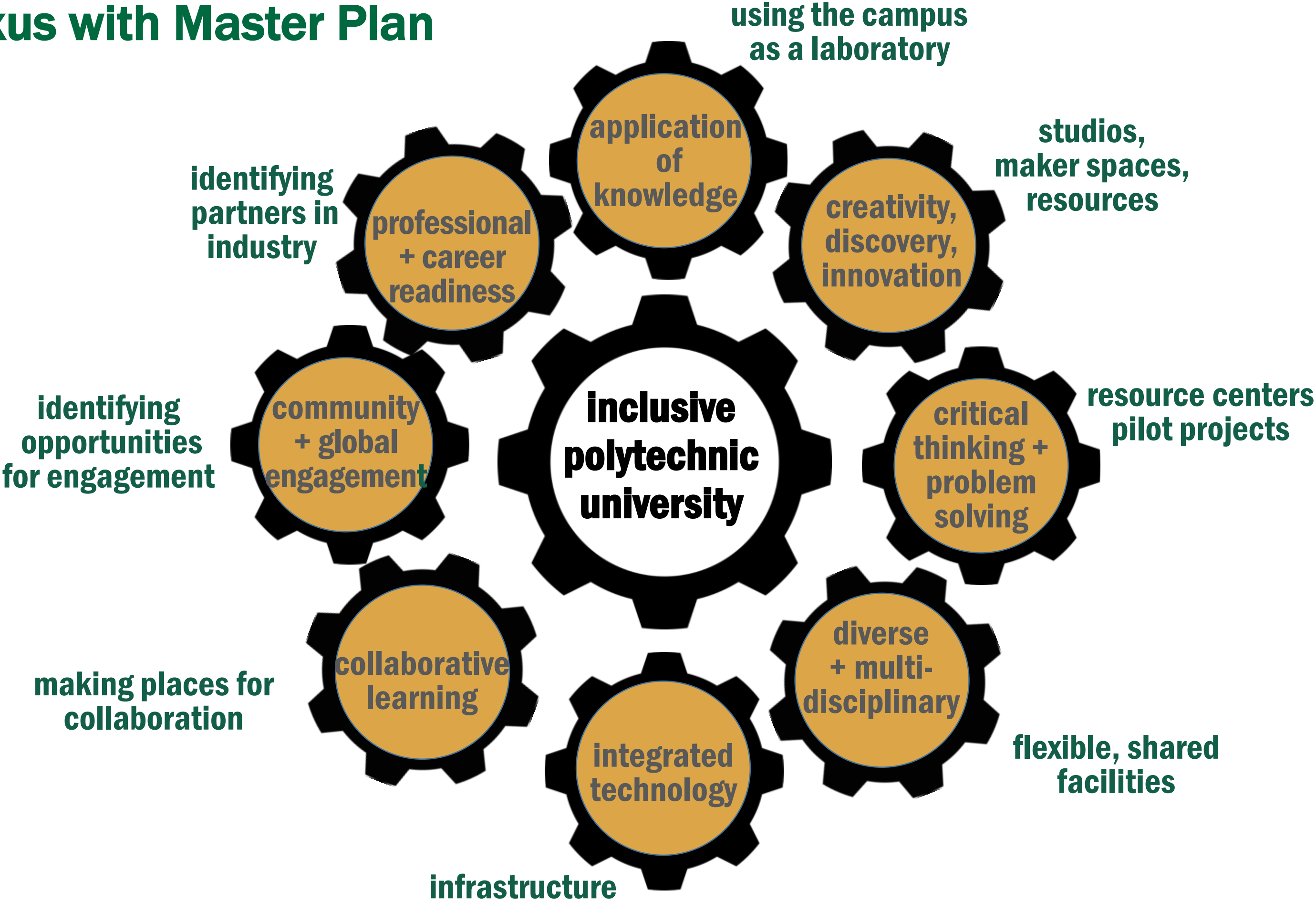
Strengthen our Economic Vitality and Impact

Advance Organizational Development and Employee Excellence



Academic Plan Elements

Nexus with Master Plan



Cal Poly Pomona

CAMPUS MASTER PLAN

THE STRATEGIC VISION OF THE CAMPUS DRIVES PHYSICAL DEVELOPMENT

themes

- broad themes reflecting mission and values
- emerged from engagement with campus stakeholders and leadership
- carried through all aspects of the planning

Cal Poly Pomona

CAMPUS MASTER PLAN

THE STRATEGIC VISION OF THE CAMPUS DRIVES PHYSICAL DEVELOPMENT

themes

principles

Increasing in Detail

- express the themes physically
- measure ideas, alternatives
- shape / guide decisions

Cal Poly Pomona

CAMPUS MASTER PLAN

THE STRATEGIC VISION OF THE CAMPUS DRIVES PHYSICAL DEVELOPMENT

themes

principles

strategies

Increasing in Detail

- specific recommendations
- actions, improvements, projects

1

Student Experience Above All

All decisions put the student experience at the forefront, from physical space, facilities, and accessibility (including the virtual or online environment) to Cal Poly programs and policies.

themes



2

Polytechnic Approach

The campus is a laboratory which supports teaching and learning by doing, inside and outside of the traditional educational settings.

themes

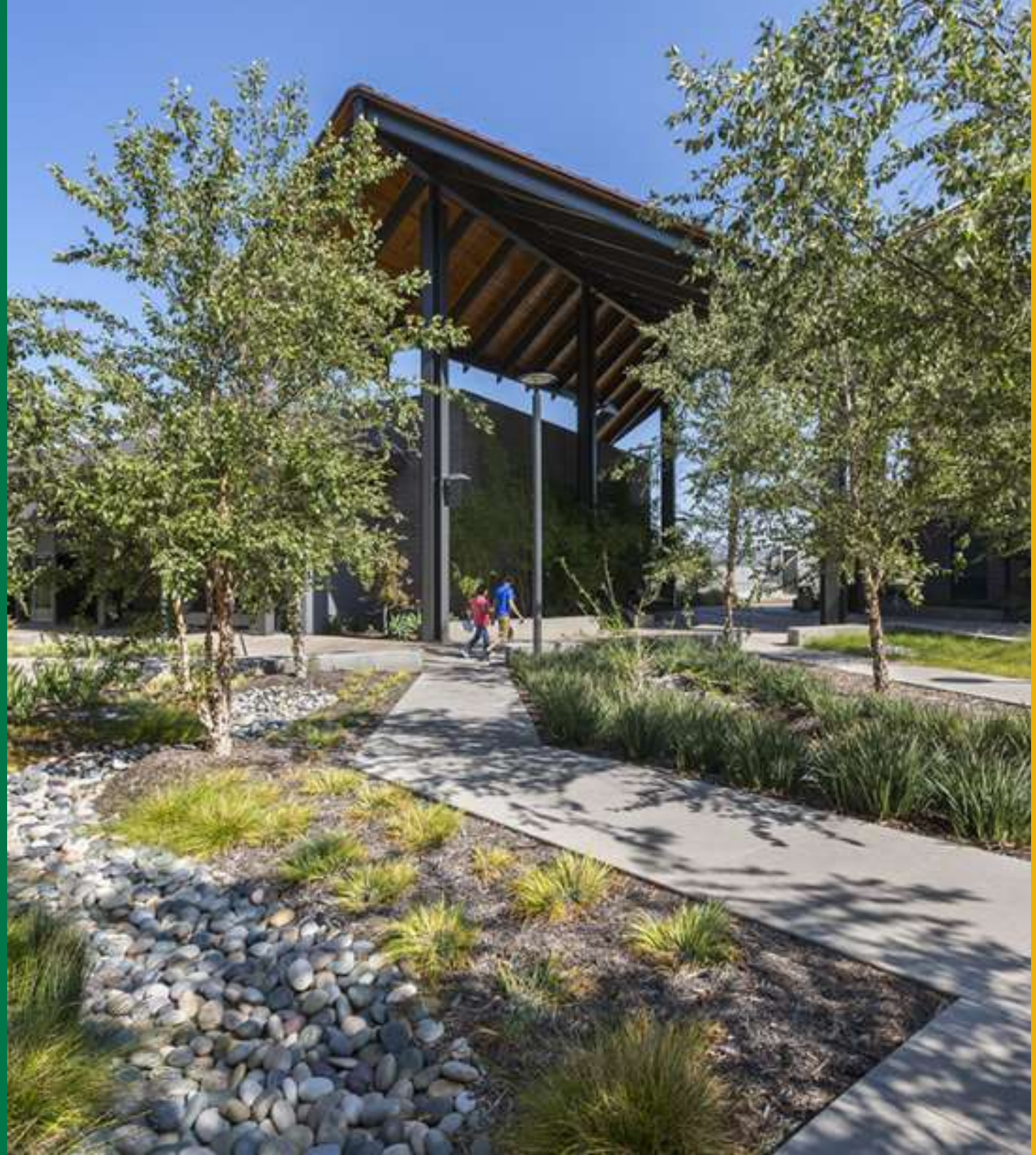


3

Connectivity is Key

Connectivity is key to orientation/wayfinding and ease of circulation for a safe, inclusive and universally accessible campus.

themes



4

Pedestrian Campus in a Commuter Reality

Campus has to be safe and accessible *(by multiple modes of transportation)*, **and walkable / bikeable for all students** *(whether commuting or living on or near campus)* **as well as for faculty, staff and visitors.**

themes



5

Sustainable in All Aspects

Decisions must be sustainable environmentally, economically, socially and consistent with Cal Poly's values, commitments and goals.

themes



Five Themes

Five overlapping themes have emerged from a large cross-section of stakeholder engagement sessions and Cal Poly Pomona's Strategic and Academic Plans.

1

Student Experience Above All

All decisions put the student experience at the forefront, from physical space, facilities, and accessibility (including the virtual or online environment) to Cal Poly programs and policies.

2

Polytechnic Approach

The campus is a laboratory which supports teaching and learning by doing, inside and outside of the traditional educational settings.

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Pedestrian Campus in a Commuter Reality

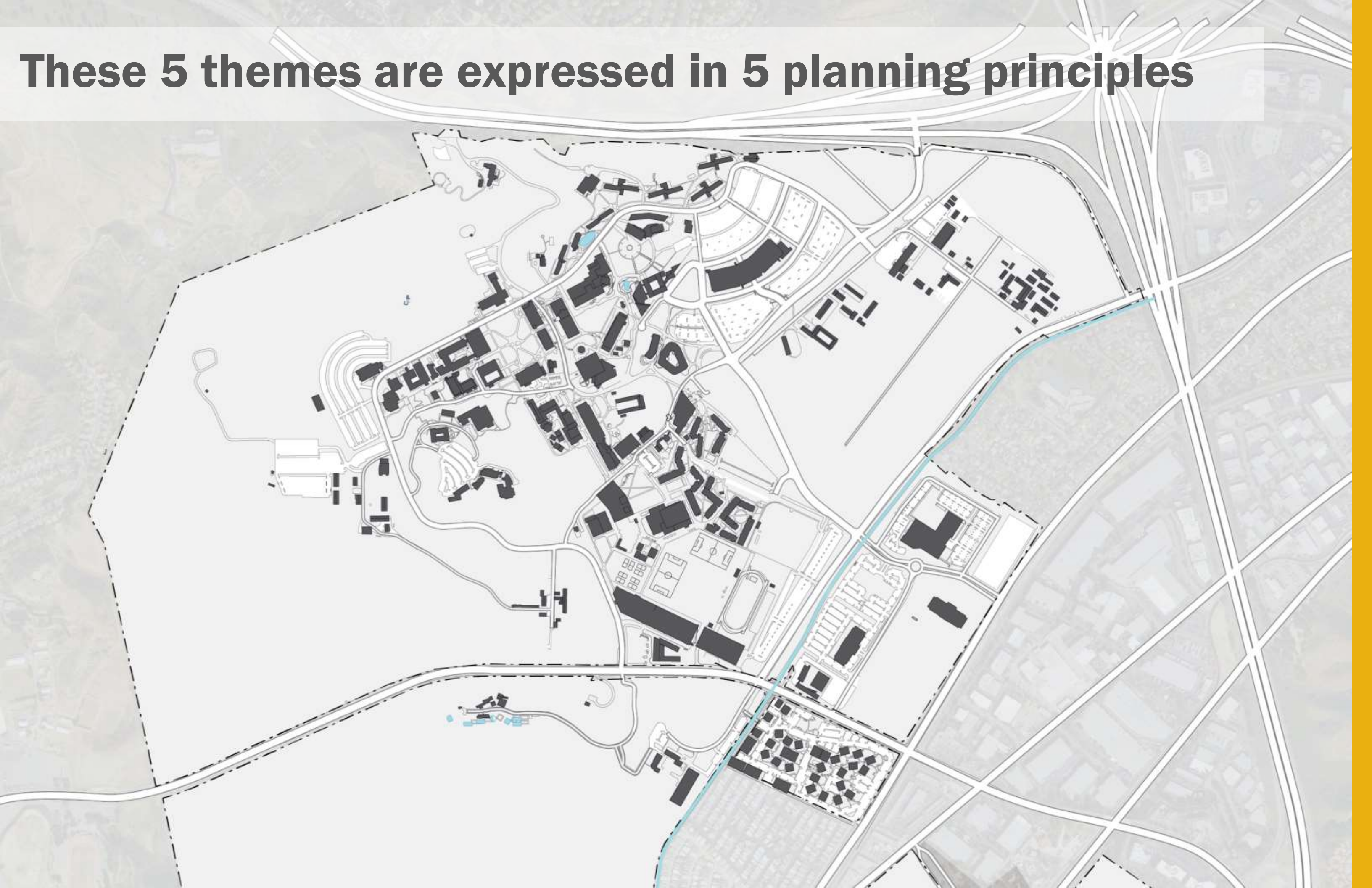
Campus has to be safe, accessible and convenient (*by multiple modes of transportation*), and walkable / bikeable for all students (*whether commuting or living on or near campus*) as well as for faculty, staff and visitors.

5

Sustainable in All Aspects

Decisions must be sustainable environmentally, economically, socially and consistent with Cal Poly's values, commitments and goals.

Planning Principles



These 5 themes are expressed in 5 planning principles

1

Make the Active Visible.

Design facilities to be more visible and connected with campus spaces to actively engage students, faculty, visitors.

Use the ground floor to curate a series of active spaces that are visible to passer-byers.



Make the Active Visible.



Make the Active Visible.



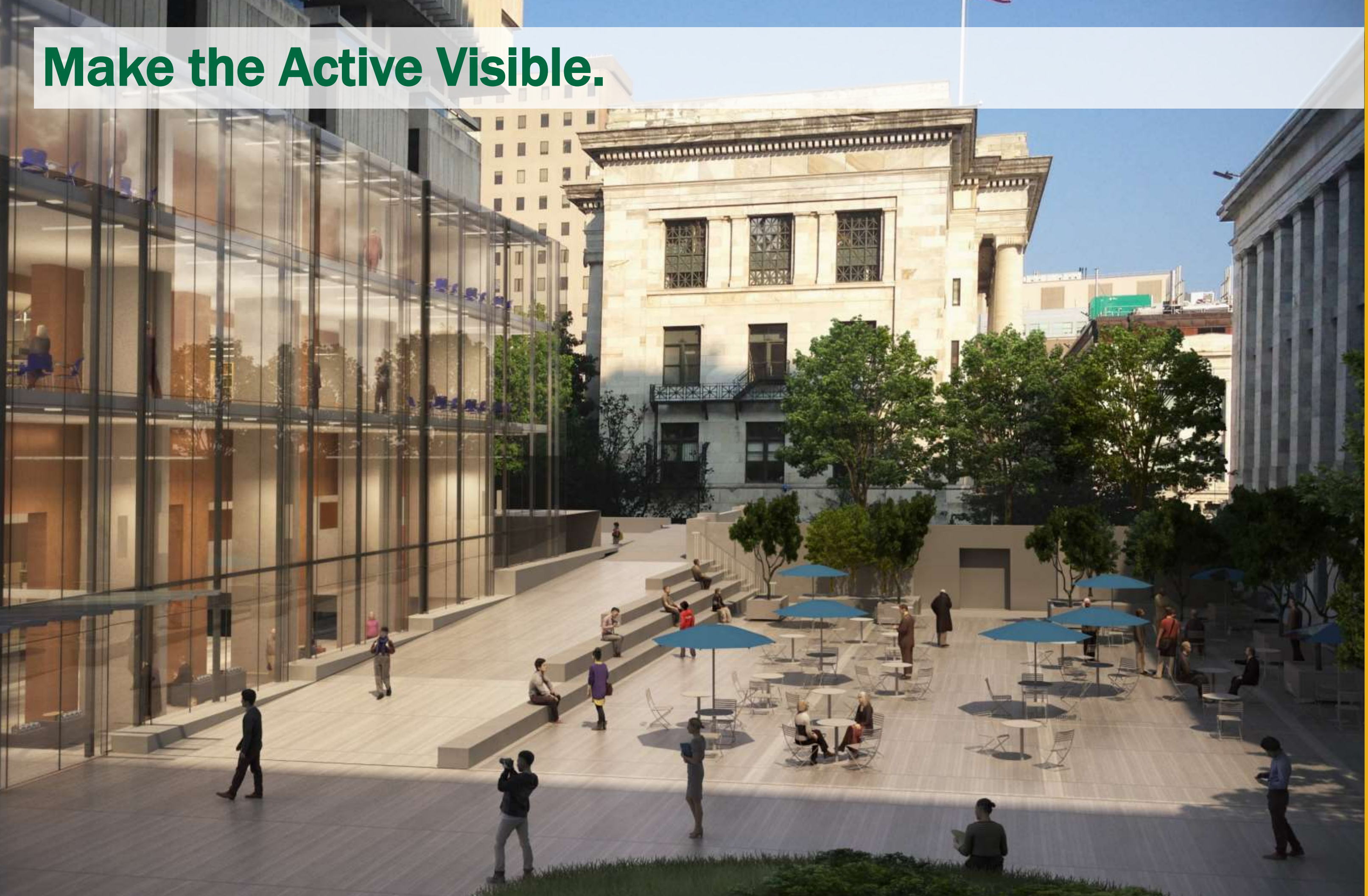
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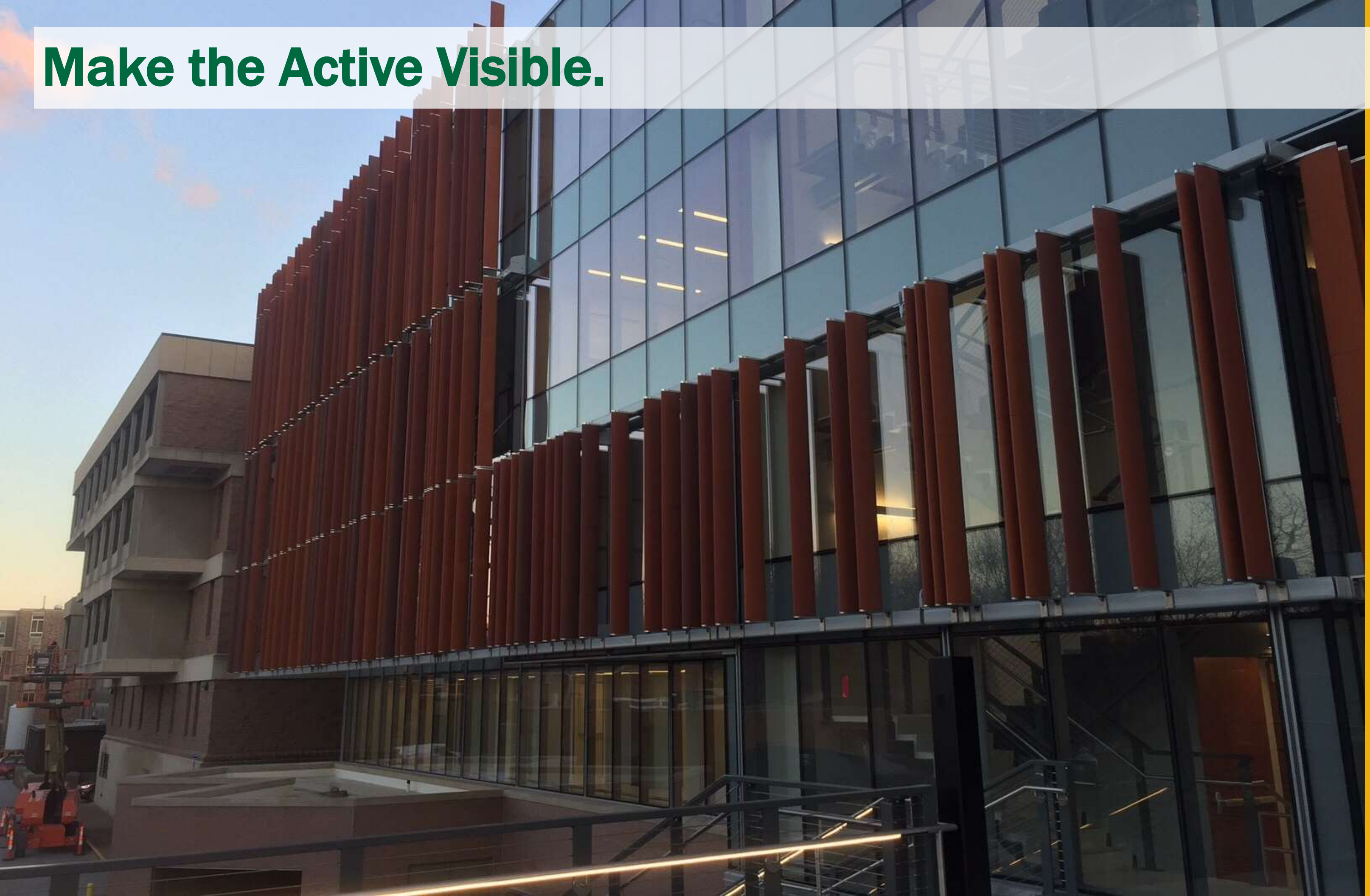
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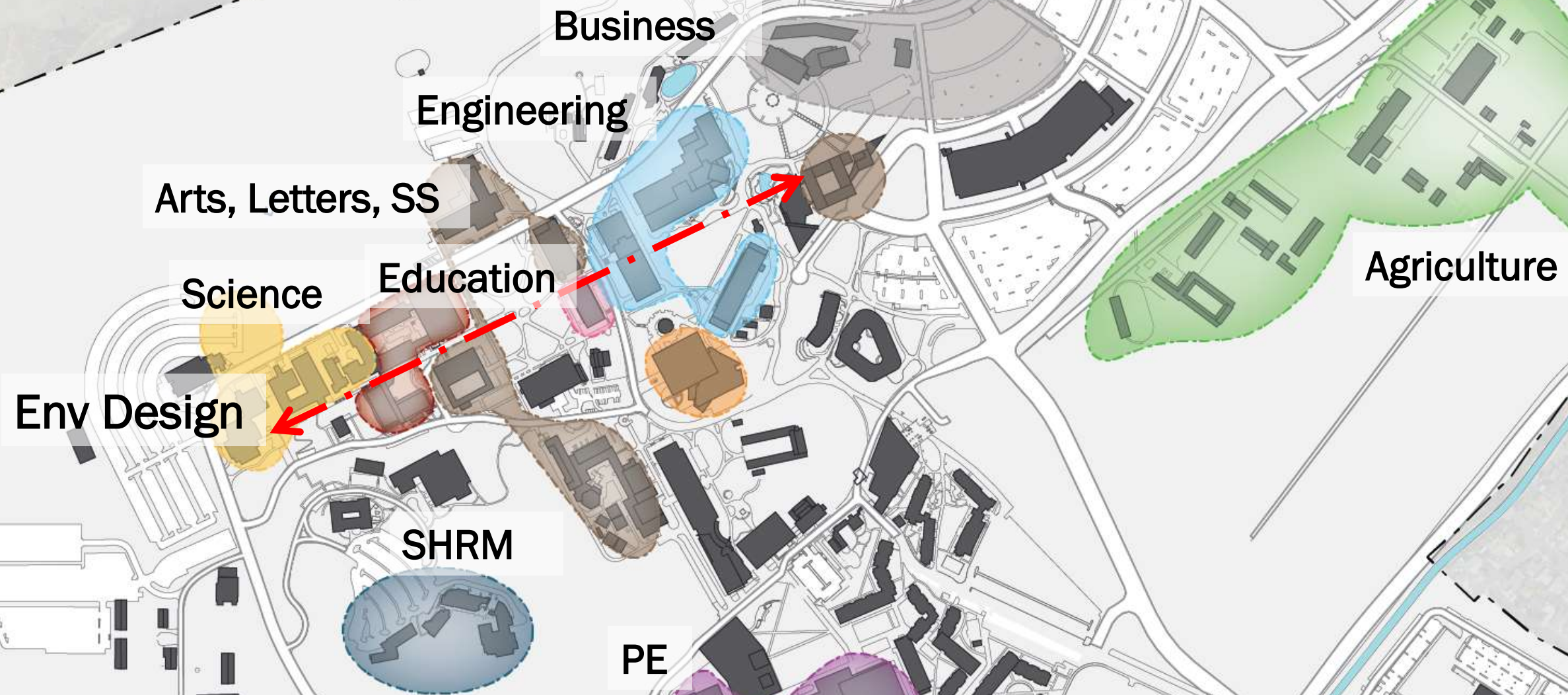
2

Transform Neighborhoods into Hubs.

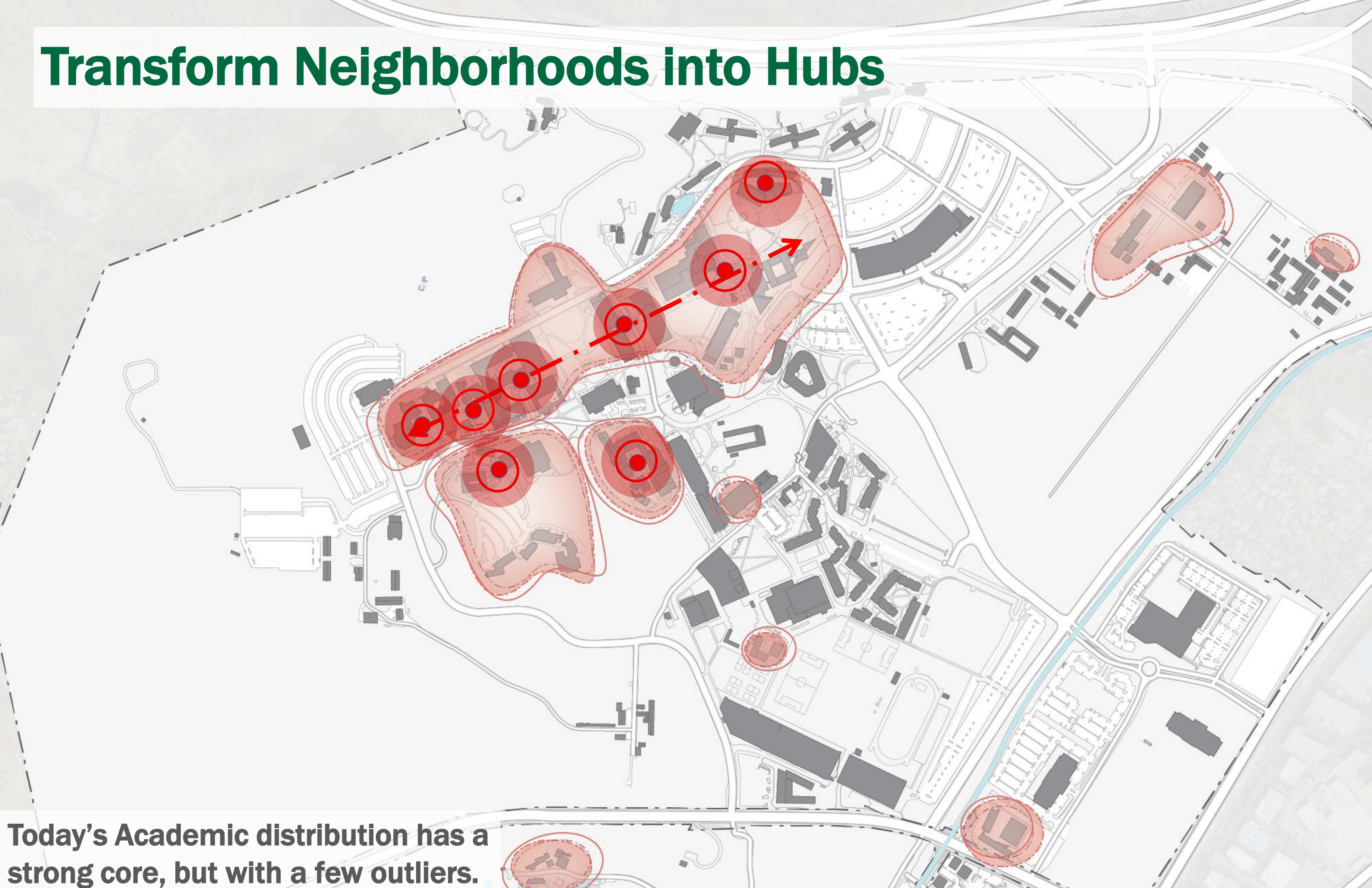
With college neighborhoods as anchors, create interdisciplinary hubs and commons with opportunities for collaboration.



Transform Neighborhoods



Transform Neighborhoods into Hubs



Today's Academic distribution has a strong core, but with a few outliers.

Transform Neighborhoods into Hubs.

An aerial map of a campus with various buildings represented by dark grey shapes. Three specific building clusters are highlighted in yellow: one on the left, one in the upper center, and one on the right. These three clusters are connected by three thin, curved yellow lines that suggest movement or relationships between them. The map also shows roads, parking lots, and a river or canal on the right side.

Architecture student's
'neighborhood'

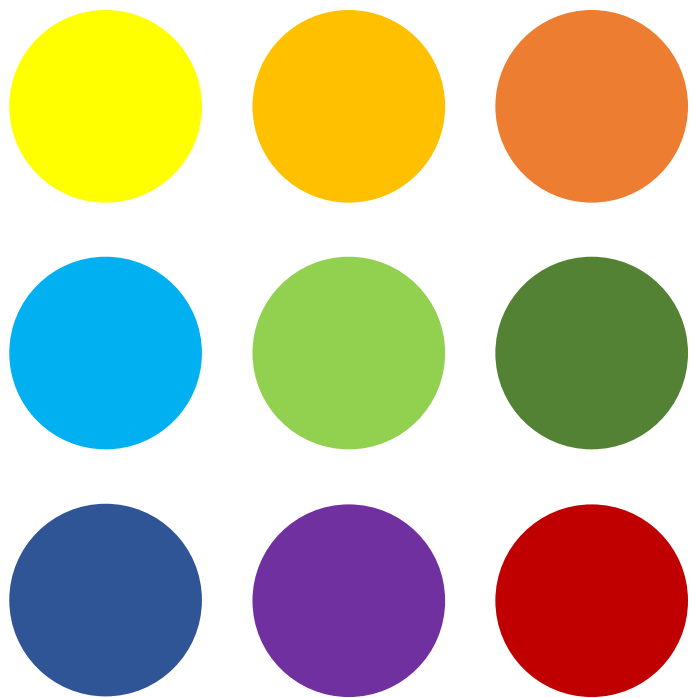
The neighborhood concept was not fully seen through or may have been outgrown.

Many programs are dispersed across multiple buildings with no intuitive connections.

Temporary Structures



Transform Neighborhoods into Hubs.



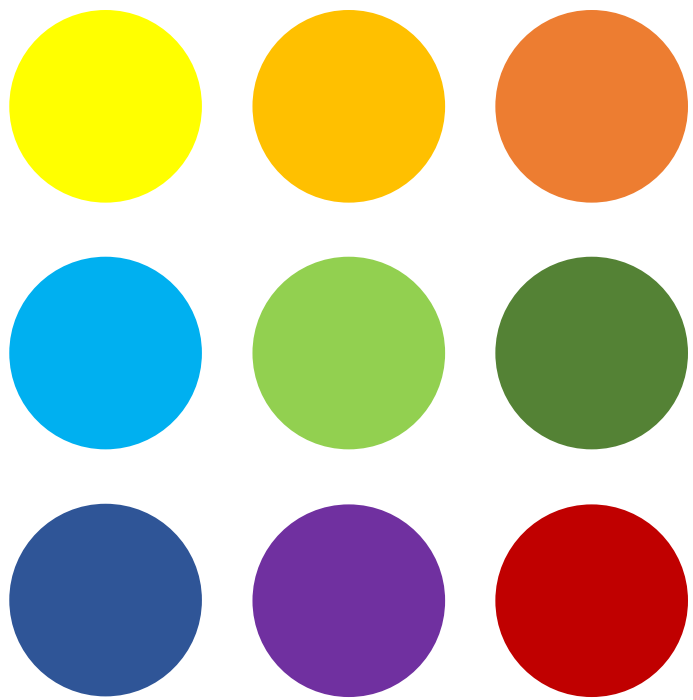
Neighborhoods

Organized by college

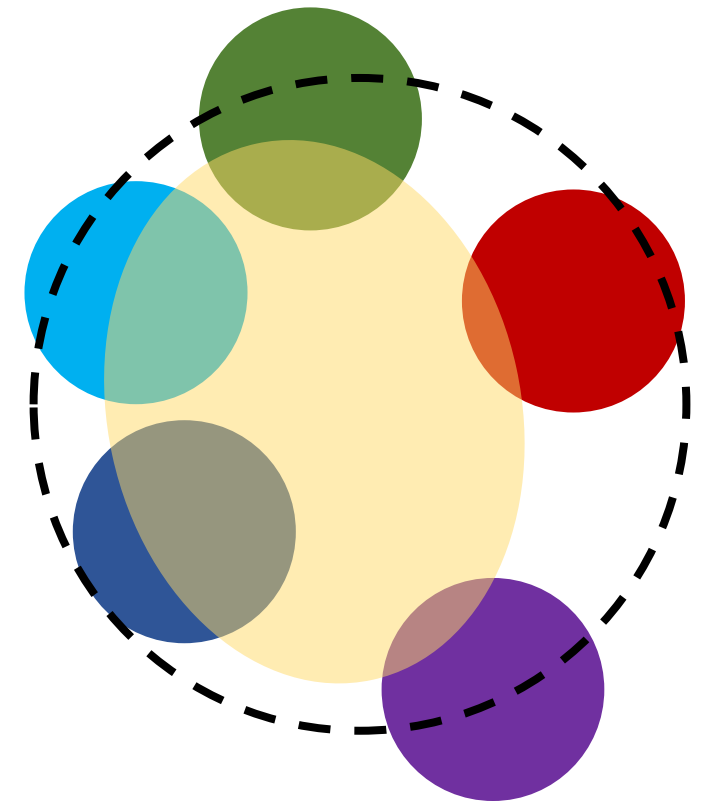
Concept: college identity w/collegial atmosphere

Reality: silos, unable to accommodate growth / change

Transform Neighborhoods into Hubs.



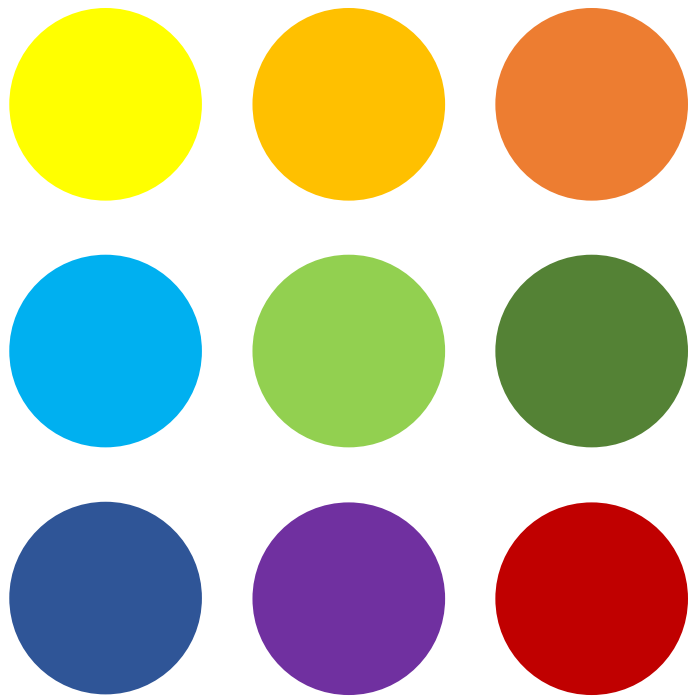
Neighborhoods



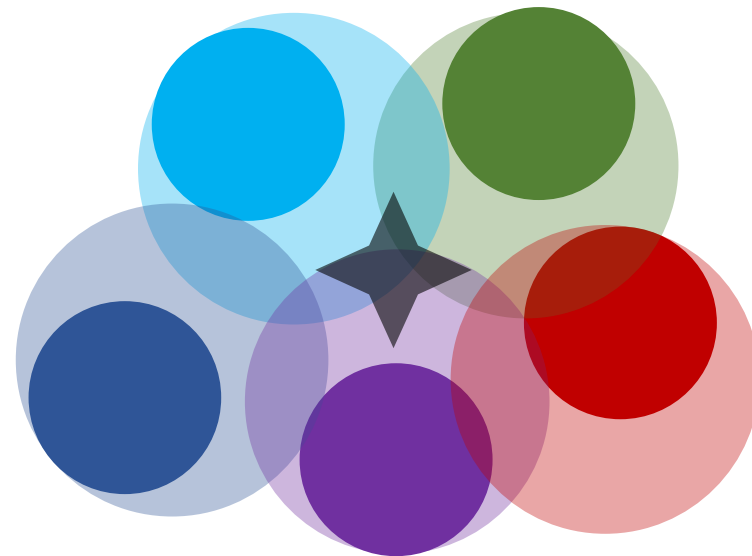
Hubs

Organized around **common** areas.
Motivated by problem solving.
Must be compact + engaging.

Transform Neighborhoods into Hubs.

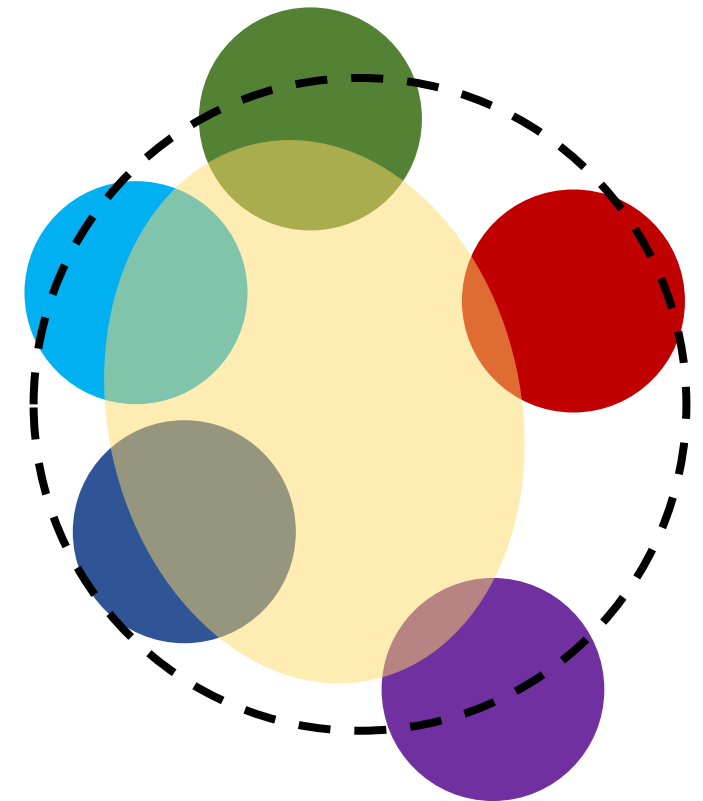


Neighborhoods



Intersections

Sponsor interdisciplinary activity



Hubs

Physical Implications of Hubs



Pedestrian Connectivity

Programs should be located within walking distance (1/4 mile) with good pedestrian connections

Remote programs isolate students and break down the student experience.

Physical Implications Hubs



Strong Anchor

Colleges and departments benefit from a strong, central “home base” where students can access common services, leadership and resources.

Physical Implications of Hubs



“Meet me in the Middle”

Ample interdisciplinary space is the key to making this work

- Ground floor active spaces
- Small study and gathering areas
- Large incubator/collaboration spaces
- Open flexible space



Physical Implications of Hubs



Non Siloed Resources

Consolidated resources (academic and service) for students located at various hubs across campus

- Can eliminate redundancies
- Larger, more flexible, and better utilized space

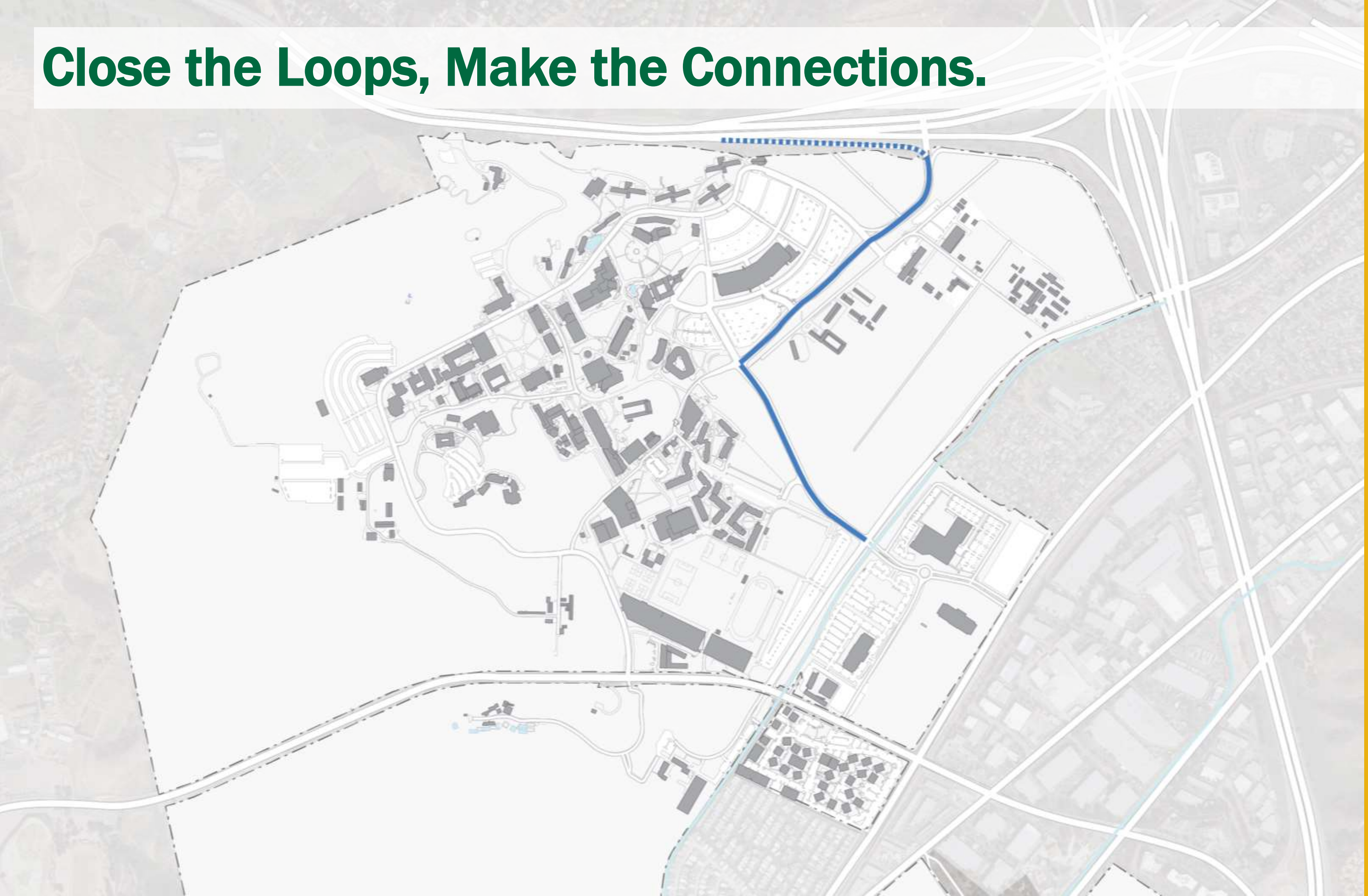
3

Close the Loops. Make the Connections.

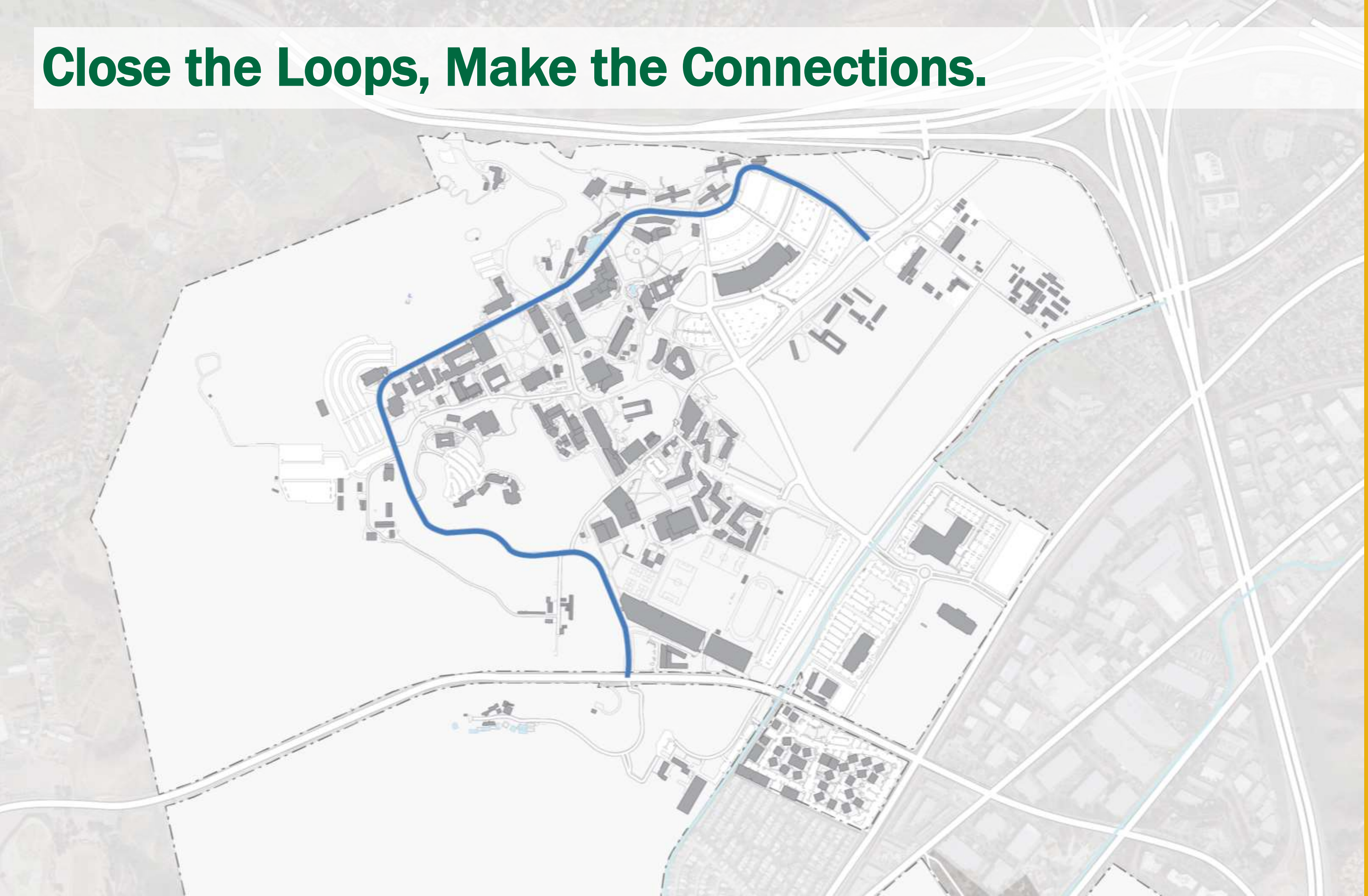
Support safe, intuitive and convenient connections for all modes of transportation, entering and navigating the campus, as well as connecting to regional transportation.



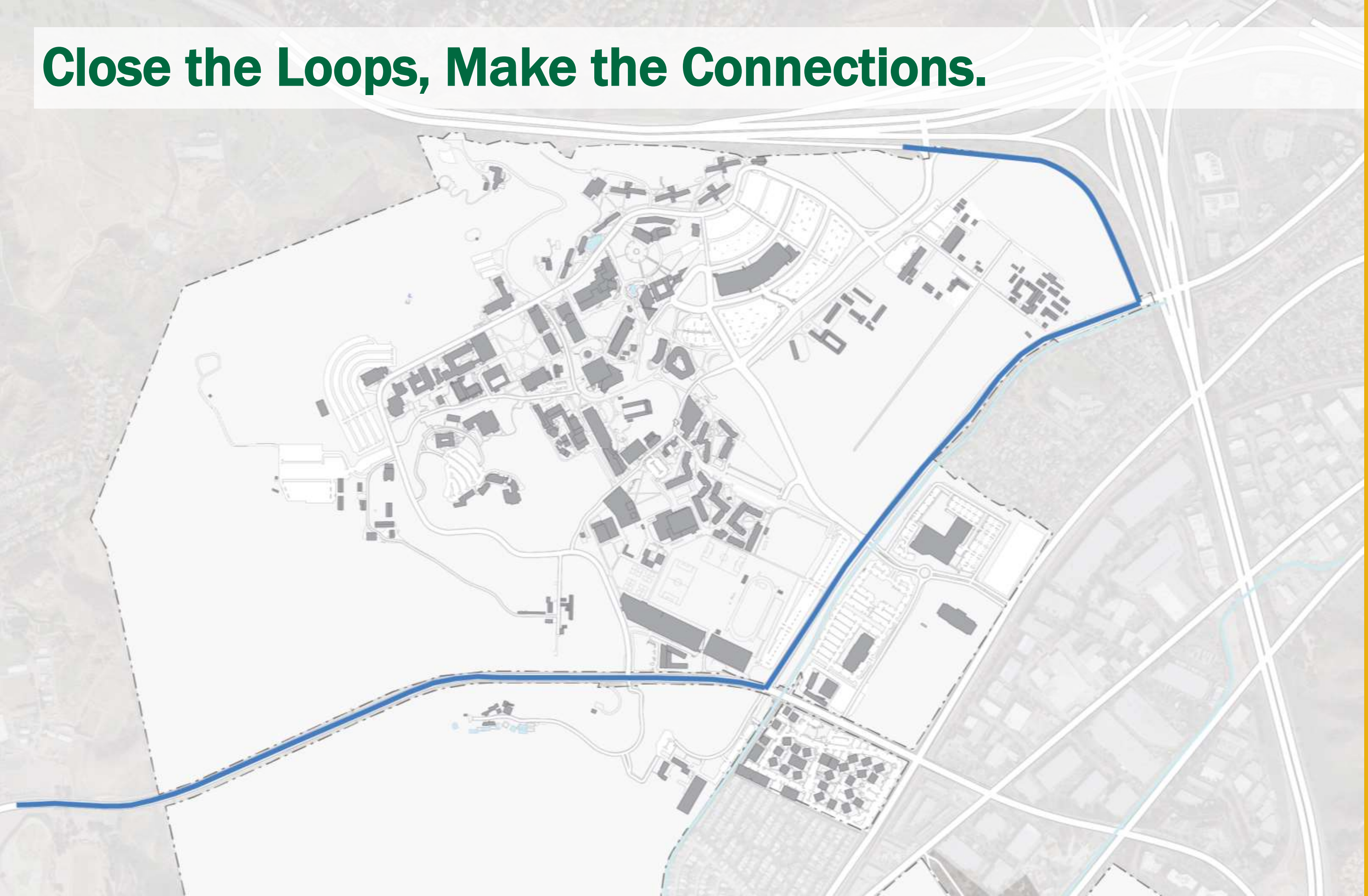
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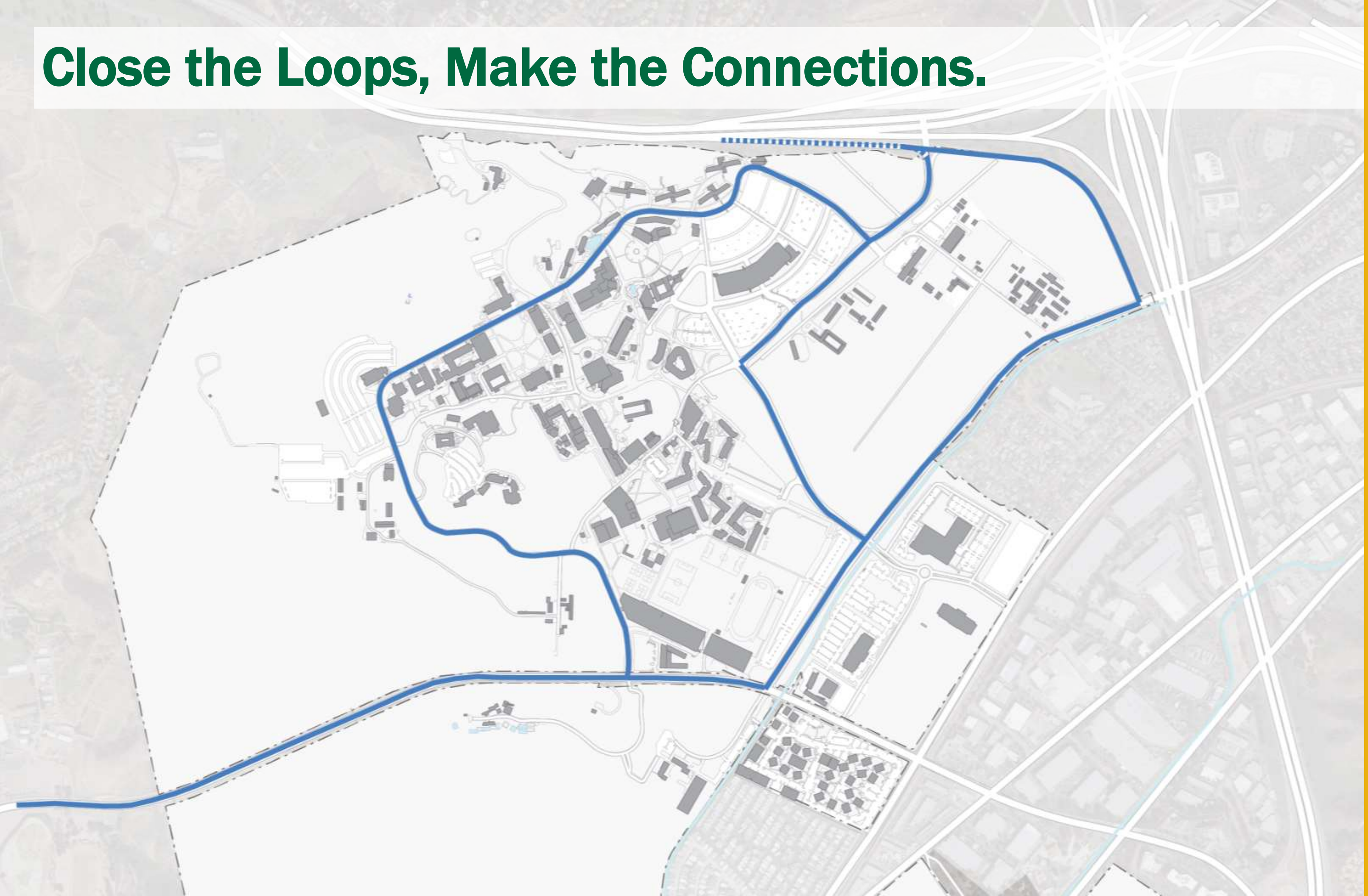
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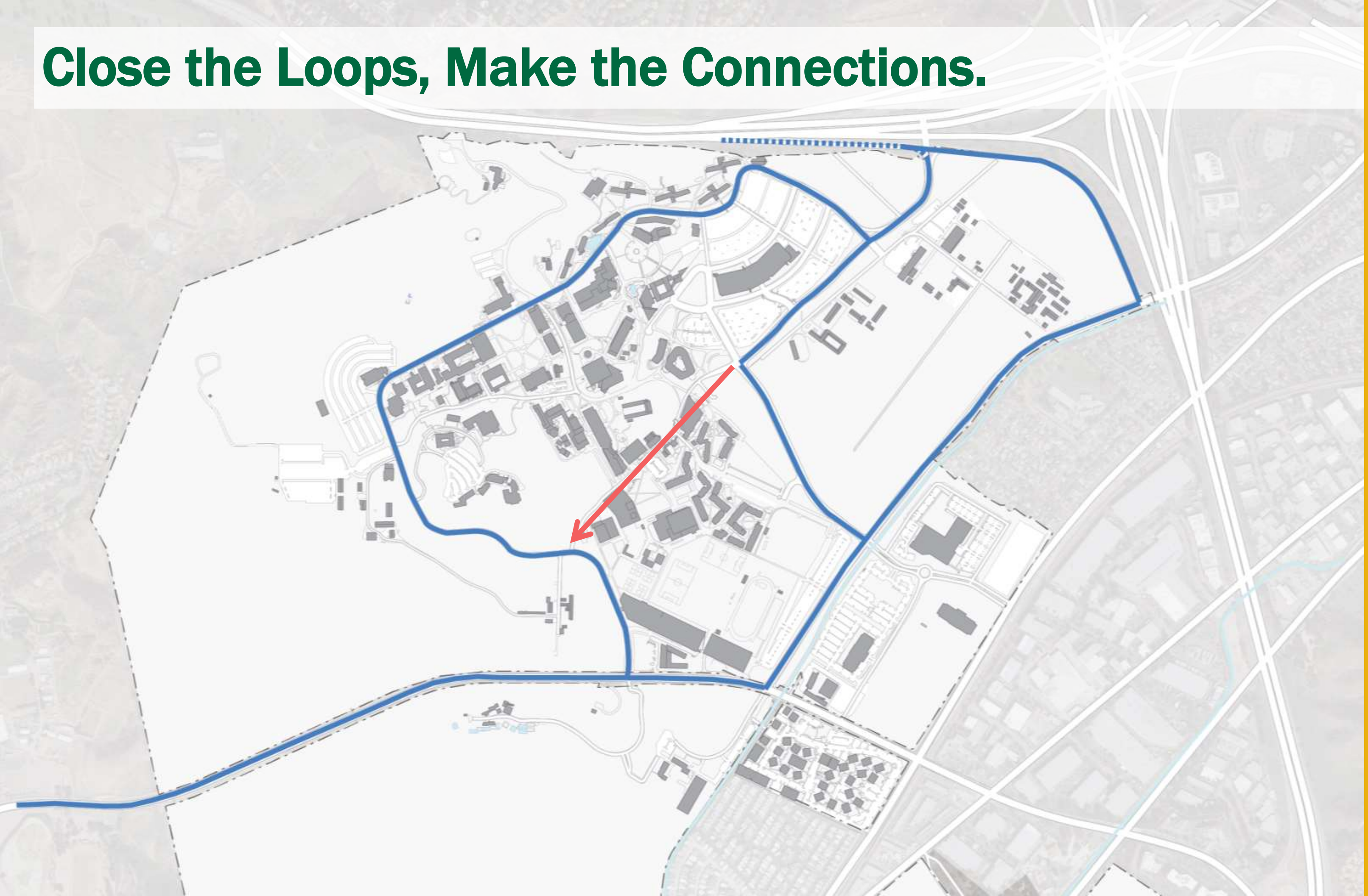
Close the Loops, Make the Connections.



Close the Loops, Make the Connections.



Close the Loops, Make the Connections.



4

Shift the Center.

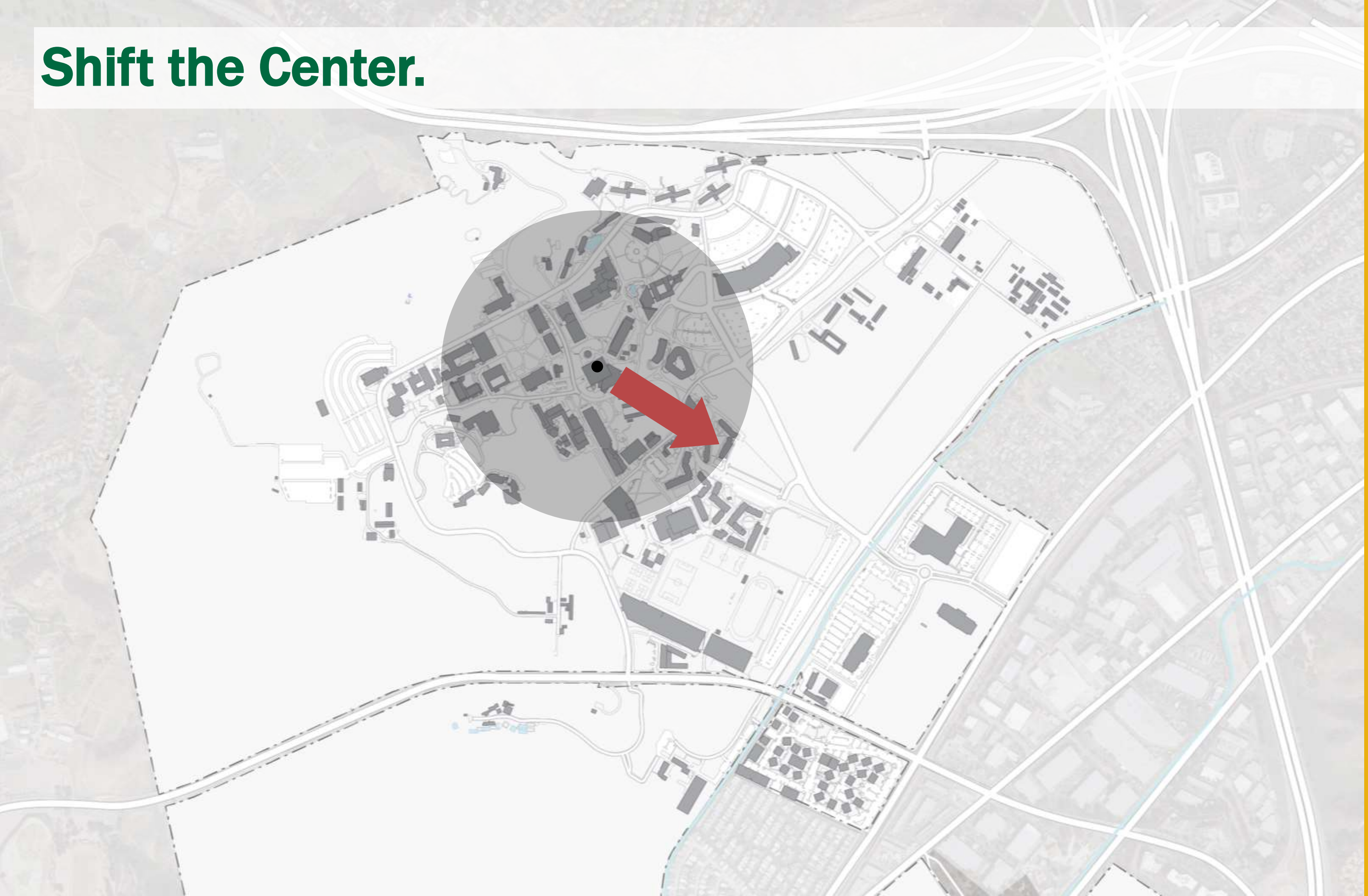
Understand that the core campus has been growing to the south, and focus organization and circulation around the new center.



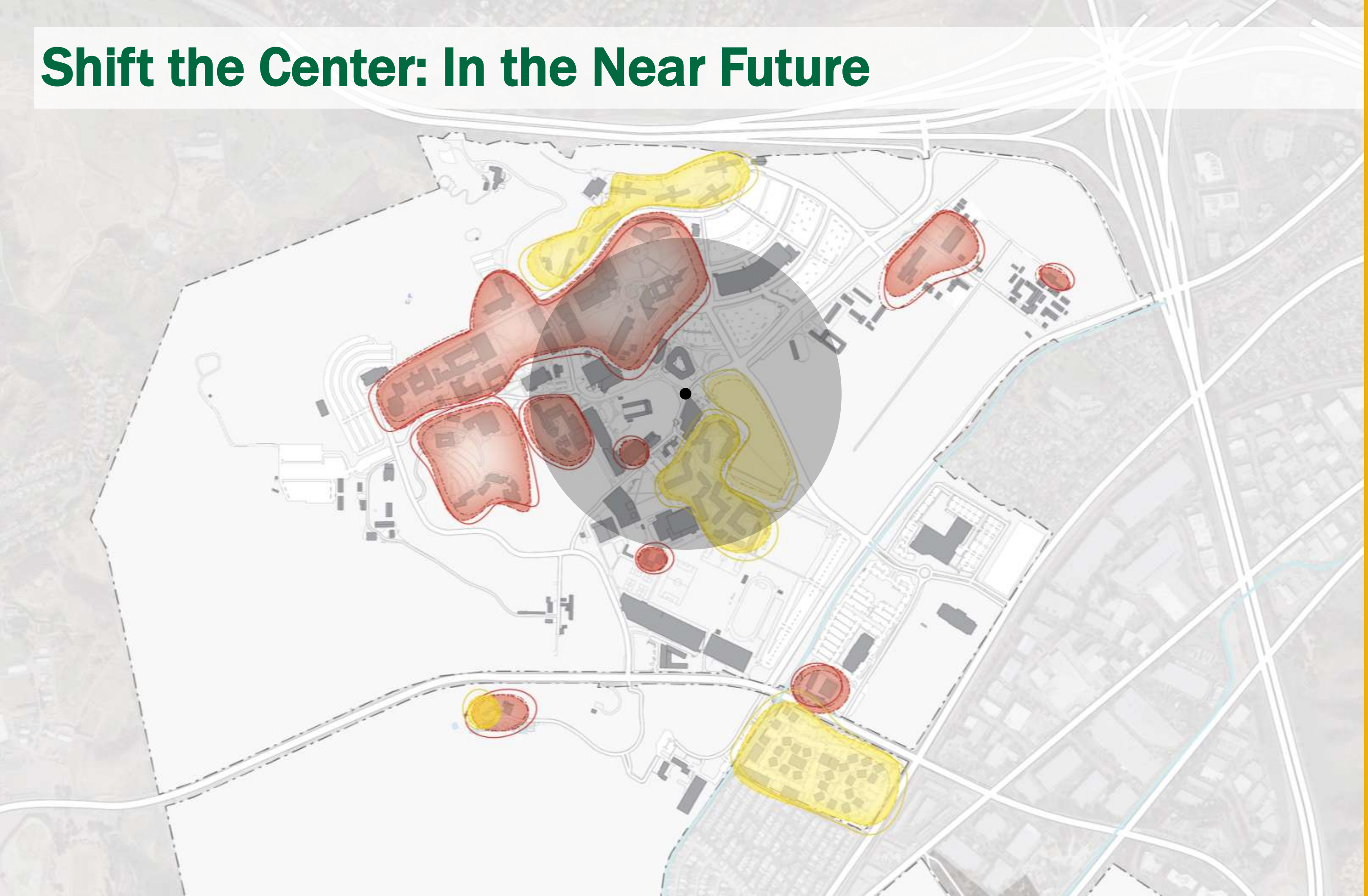
Shift the Center: 2000 Campus Master Plan



Shift the Center.



Shift the Center: In the Near Future



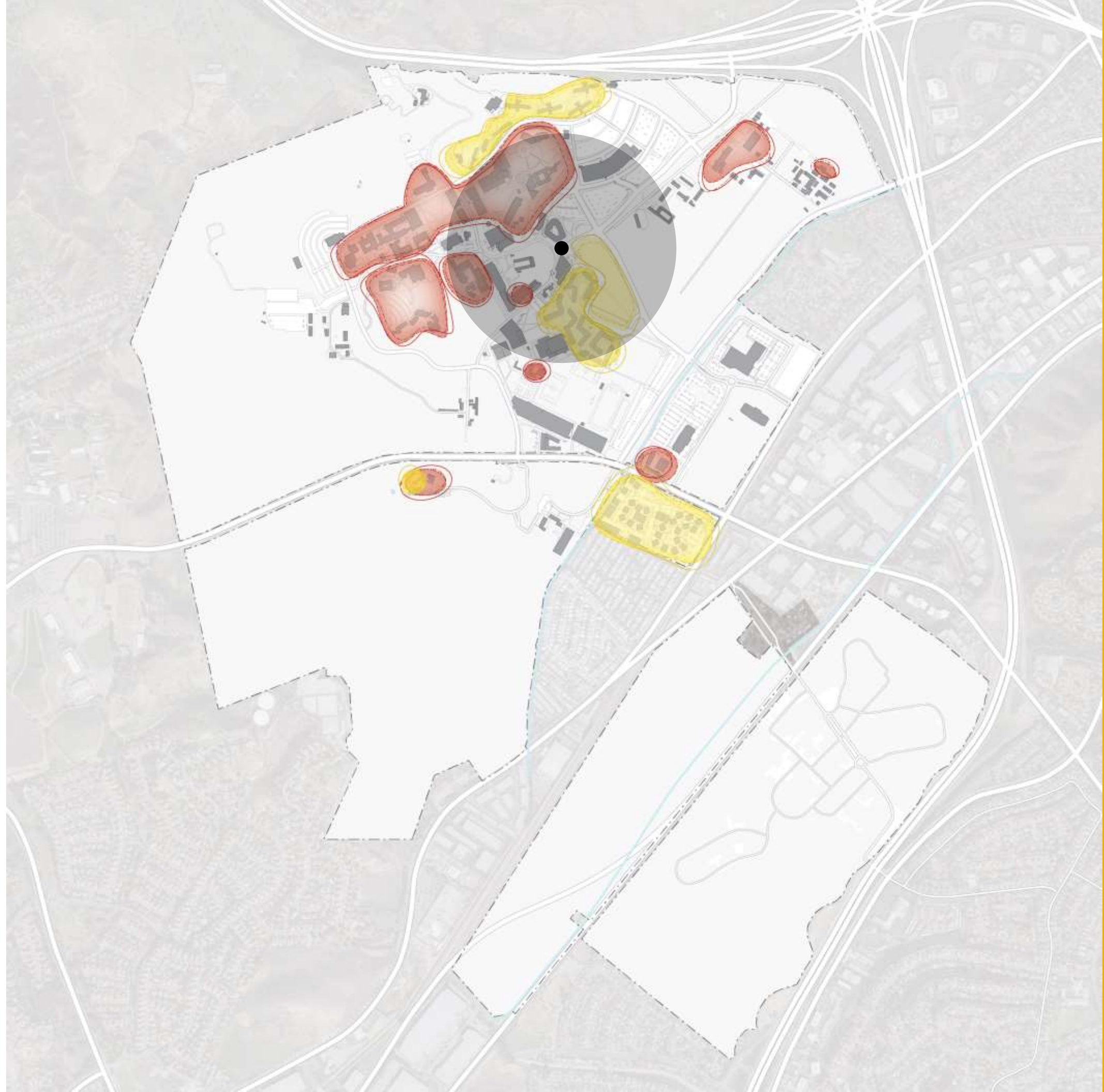
5

Expand the Plan.

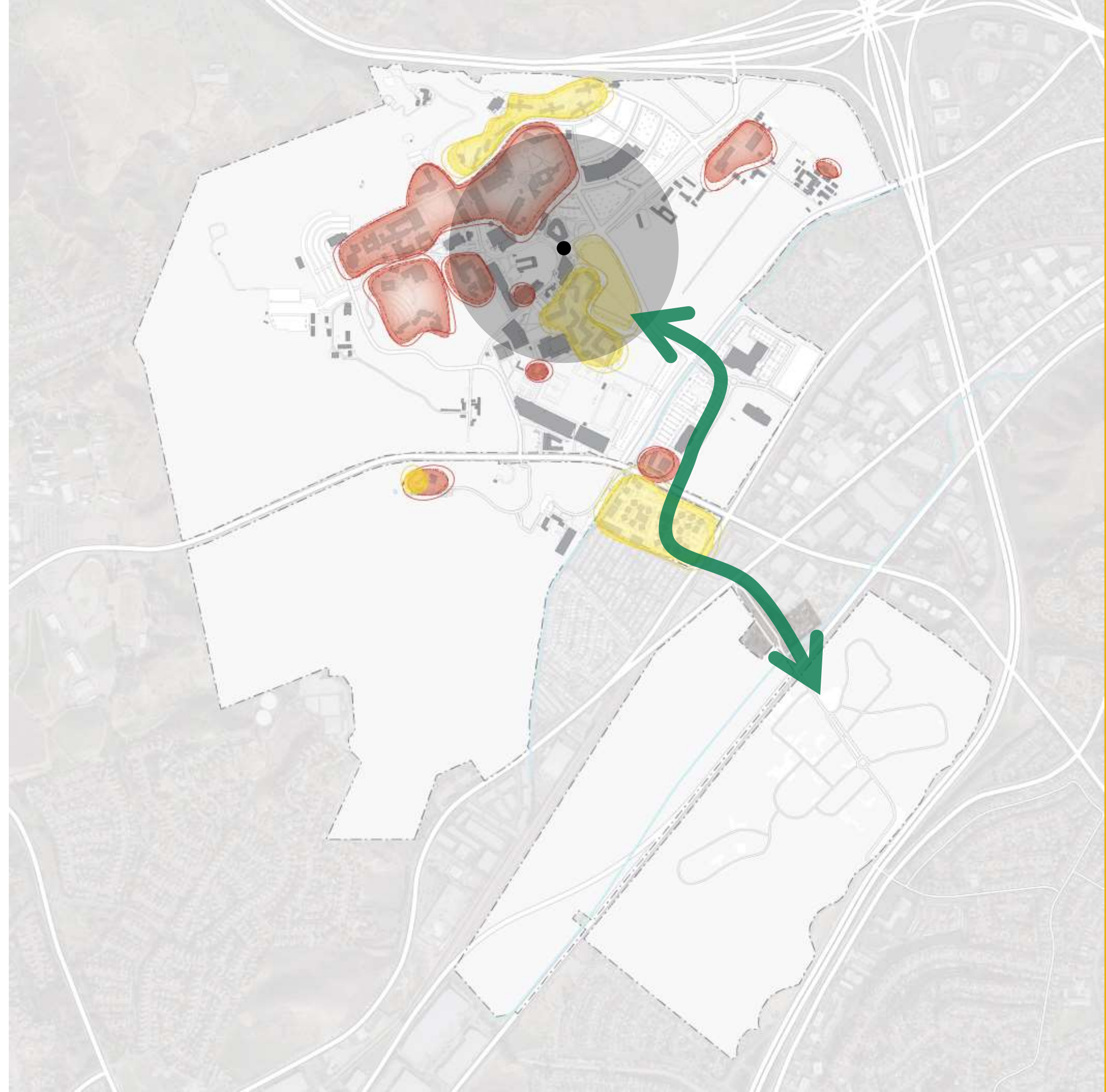
Planning for all campus systems must include all of the campus, including South Campus, Innovation Village, University Village, Spadra farms, etc.



Expand the Plan.



Expand the Plan.



Planning Principles



Derived from:

- Previous planning studies
- Strategic initiatives
- Analysis of existing conditions
- Engagement and listening sessions with faculty, staff, and students

1

Make the Activity Visible.

Design facilities to be more visible and connected with campus spaces to actively engage students, faculty, visitors. Use the ground floor to curate a series of active spaces that are visible to passer-byers.

2

Transform Neighborhoods into Hubs.

With college neighborhoods as anchors, create interdisciplinary hubs and commons with opportunities for collaboration.

3

Close the Loops, and Make the Connections.

Support safe, intuitive and convenient connections for all modes of transportation, entering and navigating the campus, as well as connecting to regional transportation.

4

Shift the Center.

Understand that the core campus has been growing to the south, and focus organization and circulation around the new center.

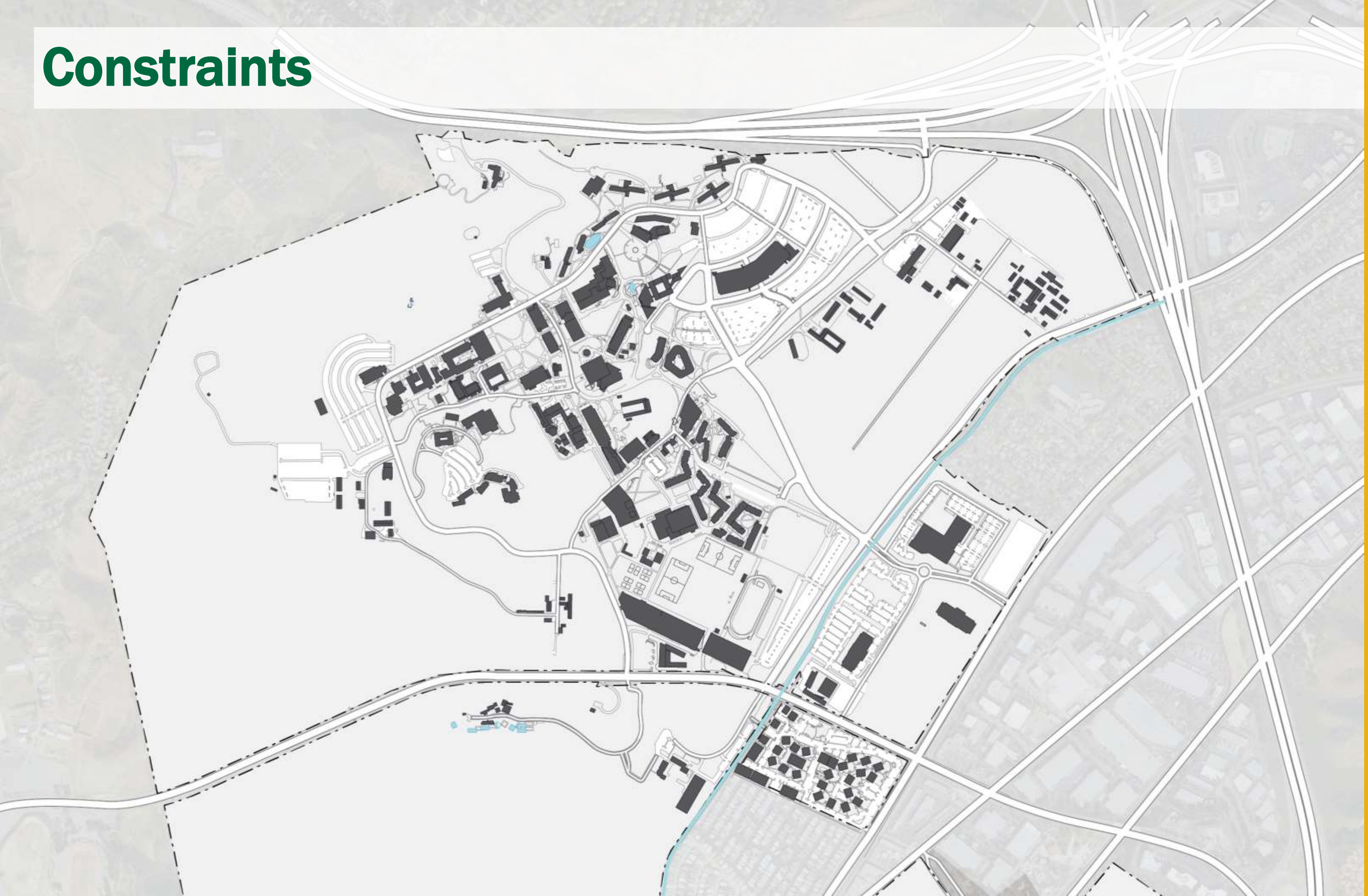
5

Expand the Plan.

Planning for all campus systems must include all of the campus, including South Campus, Innovation Village, University Village, Spadra farms, etc.

Planning Framework - Constraints

Constraints



Constraints: Topography



Constraints: Land Dedicated for Agriculture/Animals



Constraints: Fault Lines



Constraints: Major Utility Corridor/Easements



Constraints: Served Areas of Campus



Constraints: Heritage Sites



Next Time: Planning Framework - Concepts

Questions?



Next Steps:

Workshop # 3 – Space Analytics

- verifying space use/code - *walk-throughs on Mar 2nd*
 - *Unscheduled classrooms, space coded as ‘other’*

Next:

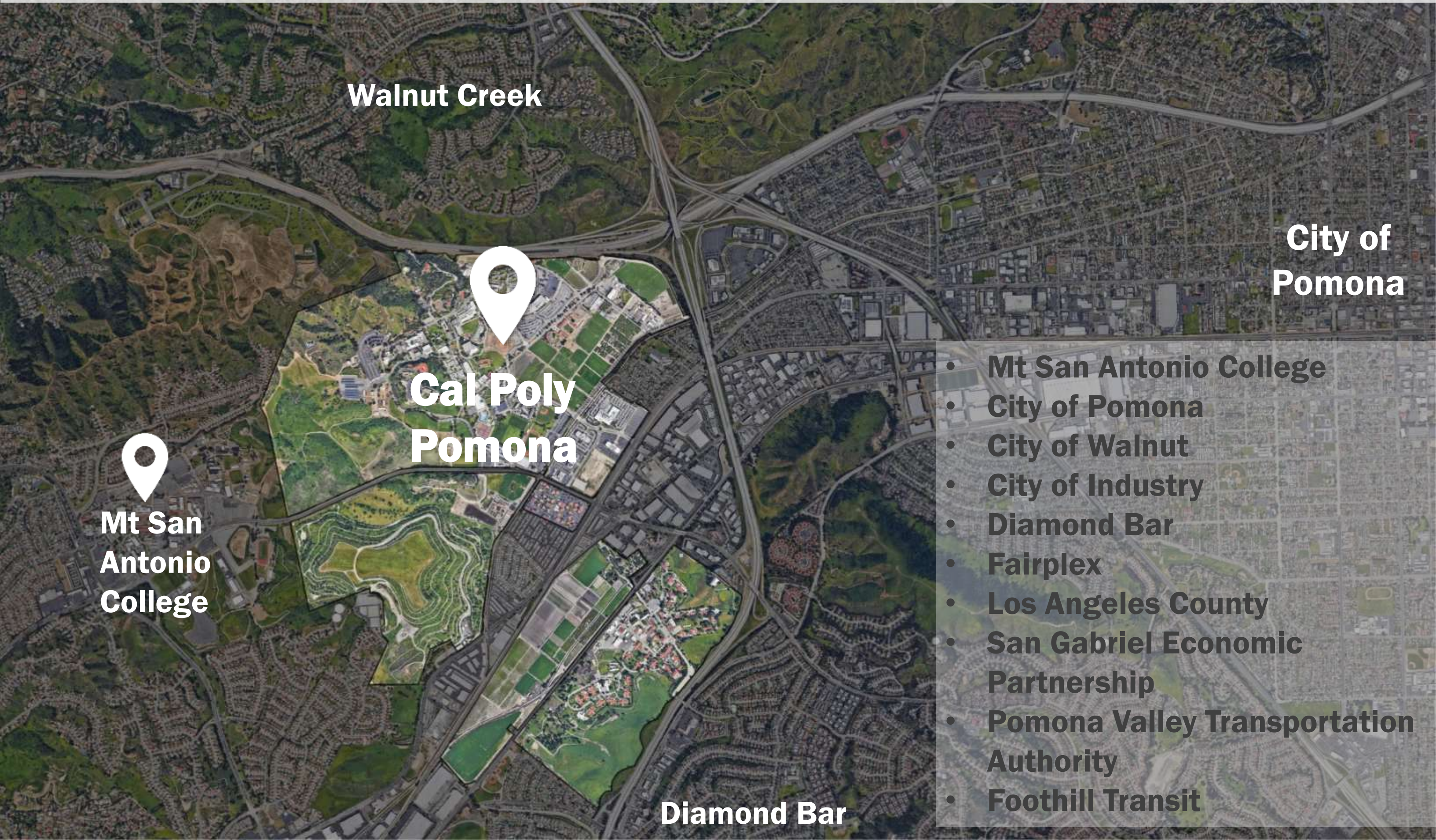
- update Instructional Space Utilization Analysis
- understand CSU utilization and capacity analysis
- schedule stakeholder focus session w/Provost + Colleges
- expand space analysis to all space (beyond instructional space)
- preliminary classroom demand analysis + space needs projections

Next Steps:

Overview for Faculty Senate - *March 7, 4-5pm*

Community Listening Session – *to be scheduled mid-April?*

Regional Context



Walnut Creek

**City of
Pomona**

**Cal Poly
Pomona**

**Mt San
Antonio
College**

Diamond Bar

- **Mt San Antonio College**
- **City of Pomona**
- **City of Walnut**
- **City of Industry**
- **Diamond Bar**
- **Fairplex**
- **Los Angeles County**
- **San Gabriel Economic Partnership**
- **Pomona Valley Transportation Authority**
- **Foothill Transit**

Next Steps:

Overview for Faculty Senate - *March 7, 4-5pm*

Community Listening Session – *to be scheduled mid-April?*

Workshop # 4 – *to be scheduled in early April*

- ☐ *connectivity studies (all modes)*
- ☐ *hub / area studies*
- ☐ *facilities studies (CLA, BSC, Annexes?, Heath Services, Child Care Center)*
- ☐ *space needs / projections*
- ☐ *strategies for supporting strategic directions + future growth*

Next Steps:

Overview for Faculty Senate - *March 7, 4-5pm*

Community Listening Session – *to be scheduled mid-April?*

Workshop # 4 – *to be scheduled in early April*

Workshop # 5 – *to be scheduled in early May*

See you next time!

