Welcome … to help us make this a great first session of the conference …

Pick a table with an idea tent of your choosing,

introduce yourself to your fellow table partners,

sit back, relax, silence your smartphone …

… but have it ready to tell us about yourself



An Implementable Plan for Access, Student Success, and Sustainable Growth

Mario Violich
Principal
Moore Ruble Yudell

R. Umashankar
Principal Physical Planner
University of California Riverside

John O. White
Executive Director, Bond Programs and Facilities Planning
College of the Desert

2019 PACIFIC REGIONAL CONFERENCE
THE ROLE OF DISCOURSE TODAY
SC UP

Session Outline

- Scanning the Room
- Planning for Student Success
- What Makes for a Sustainable and Implementable Vision
- Surviving, Thriving or Leading?
- Closing Comments

Learning Objectives

- Synthesize competing demands, like increasing enrollment and environmental stewardship priorities, into a problem statement for your campus planning
- Describe how to integrate long-range planning for sustainability into your campus' current environmental footprint and structures
- Use cost-informed planning and modelling to provide data to make decisions about physical investments
- Leverage existing partnerships to enhance multiple forms of access to campus

Quick tips on the polling activity

iPhone users: Point your camera app. at the QR code

Android users: Long press the Chrome app. to select “Scan QR Code”

Others: Enter the web address in your browser

If all else fails … hold your hand up

Scanning the Room

https://goo.gl/sj4TtB

Select the type of higher-ed. institution you most closely align with in your work

Private * Community College * Public * Other

Select your role in higher-ed. that best describes you

Planner * Administrator * Consultant * Other

How do you feel about the state of your institution?

highly successful * moderately successful * getting by * not sure about tomorrow * other

Q4

Choice 1 * Choice 2 * Choice 3 * Choice 4

Q5

Choice 1 * Choice 2 * Choice 3 * Choice 4

Is there something else you would like to tell us?

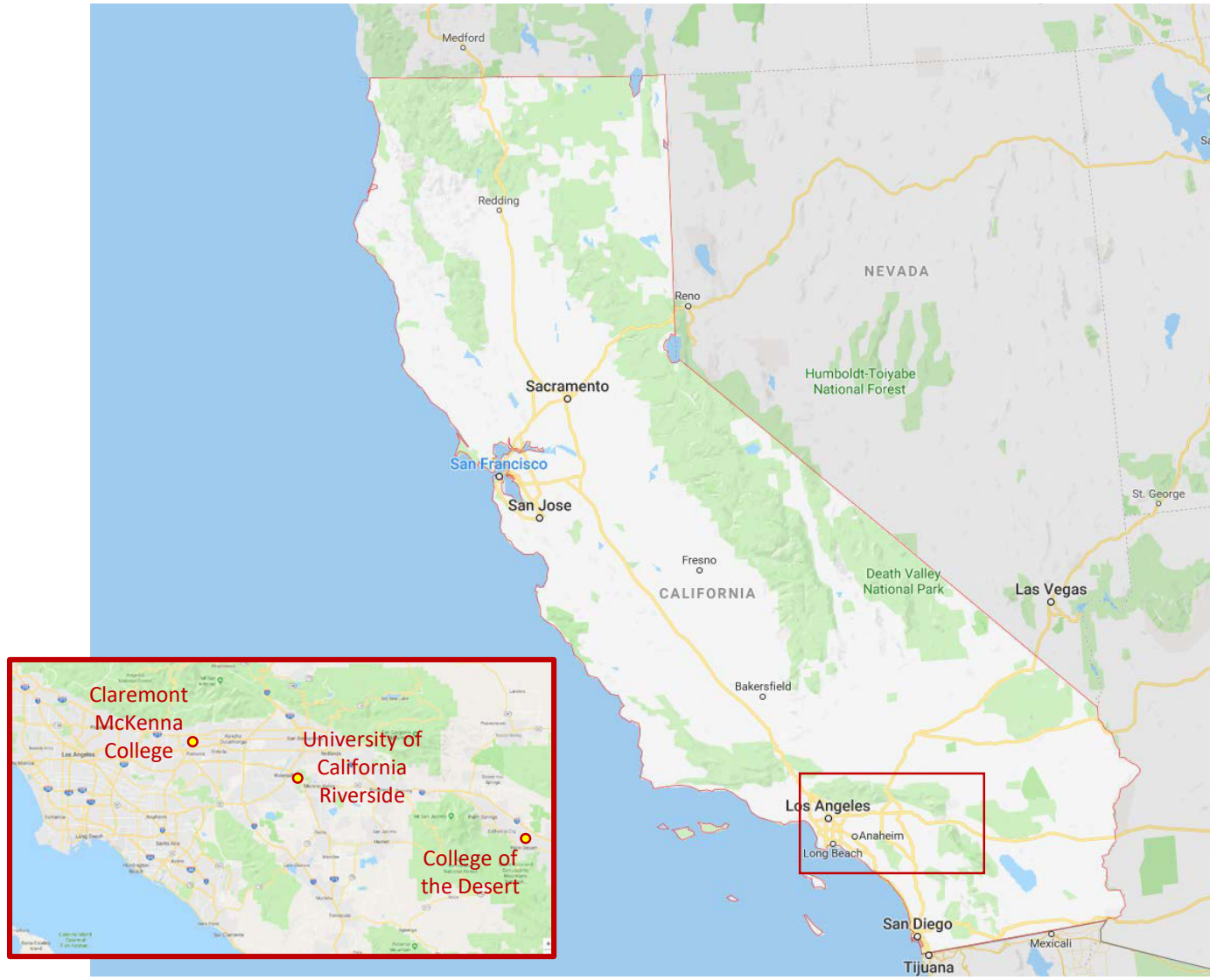
...

Transition over to share survey result (if using epoll setup)

Planning for Student Success

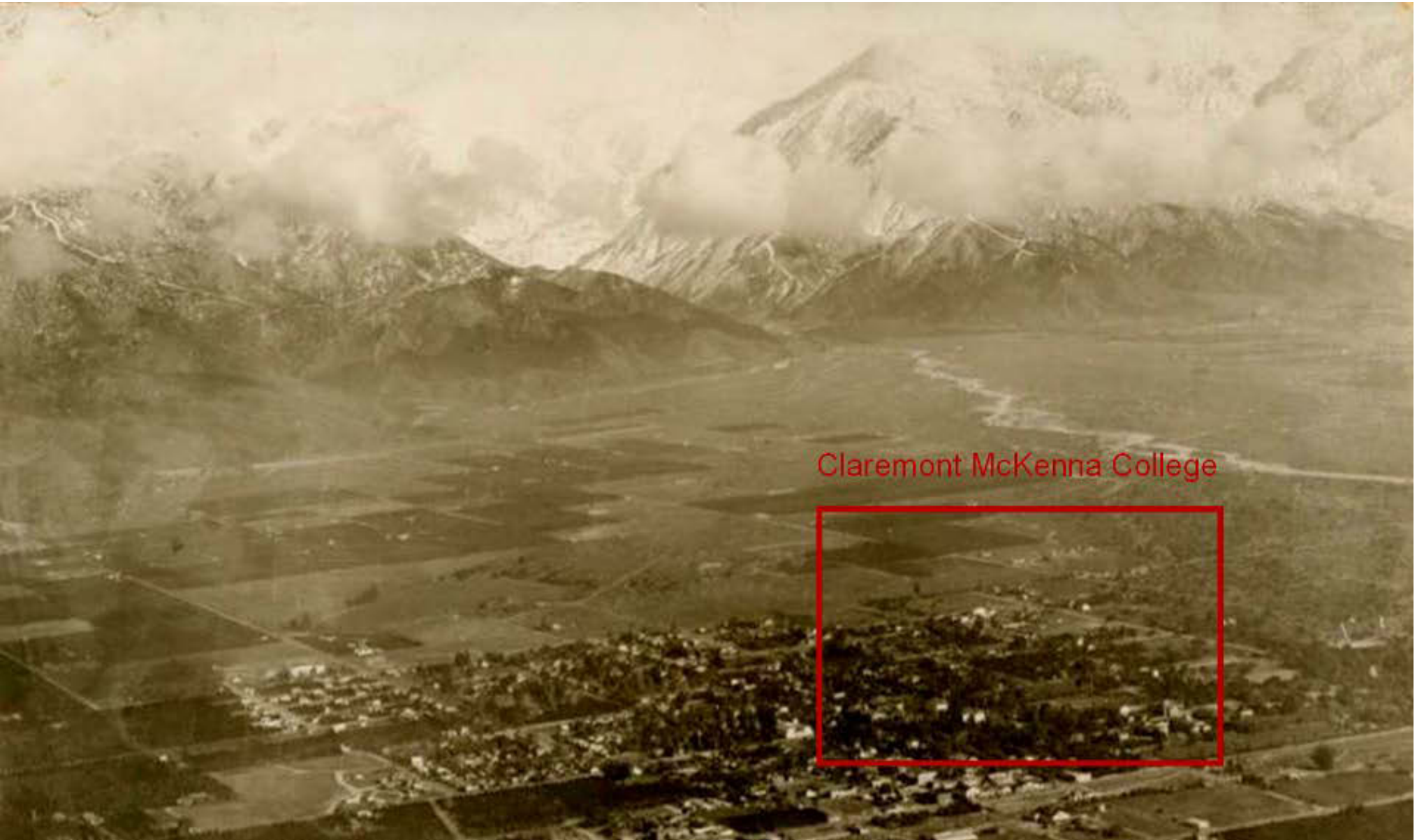
The Geography

- Three unique Southern California institutions
- Three different operating models
- All driven but challenged



	Claremont McKenna College	UC Riverside	College of the Desert
	CLAREMONT, CA Estb. 1948	RIVERSIDE, CA Estb. 1954	PALM DESERT, CA Estb. 1958
Type	Private Liberal Arts College	Large Public Research University	Two-year Public Community College
2018 Enrollment	1,300	24,000	16,000
Resident Students	1,300	6,700	none
Student/faculty ratio	9:1	17:1	23:1
Cost or attendance – Instate/out-of-state	$55,000	$30,000/$60,000	$21,000
% of students receiving financial aid	47%	67%	61%
Land Area/GSF	69 acres/900,000 GSF	1,100 acres/7.8m GSF	185 acres/600,000 GSF

Claremont McKenna College, Claremont, CA



Central Mall

Project 1

Project 2

Understanding local and regional climate

Sustainable Design Overview

Executive Summary

The Claremont McKenna Master Plan has carefully considered site sustainability, energy and water resource management through the process. The approach proposed is one that will allow for strategies to be implemented over time as the college grows allowing for technological advances to be incorporated. Key considerations have included:

Stormwater:

There are several opportunities for stormwater treatment within the Claremont McKenna College campus. Stormwater treatment serves as an important element in the sustainability design. Due to the site's natural soil conditions, there are many opportunities for stormwater treatment and infiltration. Given the available open space of the campus, implementation of sustainable landscape features such as linear bioswale systems can be integrated along with the landscape design. This element of "daylighting infrastructure" creates a strong awareness and education about the place, which will lend to the campus a sustainable initiative and natural environment in a campus setting. Utilization of the campus's unique site conditions will allow Claremont McKenna College to maximize its opportunity for stormwater sustainability while maintaining the campus's identity and qualities.

Landscape:

Landscape is an important aspect of the Claremont McKenna College environment. Opportunity exists to utilize this to provide shade for buildings on the South, East and West and consideration has been given to the type and location of trees within the Master Plan to maximize such opportunities.

Climate Responsive Design:

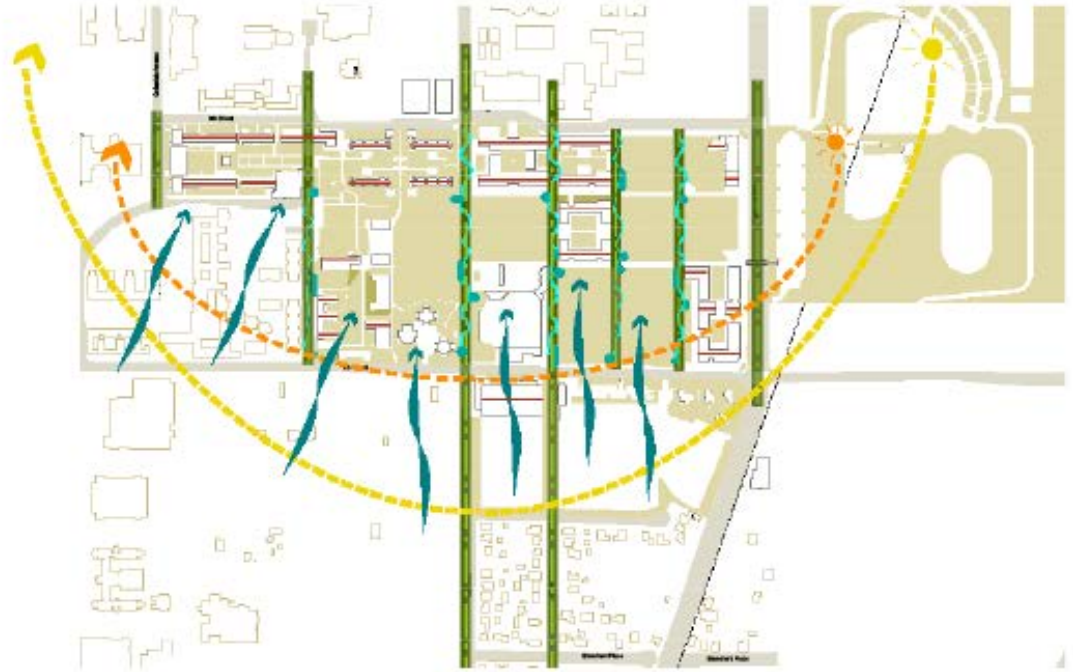
Climate responsive design seeks to respond to the sun, wind and moderate climate. Orientation of buildings has been provided to minimize East / West exposure where possible, reducing solar exposure. The climate provides excellent opportunity for natural ventilation through mixed mode systems for up to 10 months of the year.

Water:

Significant opportunity for water conservation and water reuse exist within Claremont McKenna campus. Aggressive water reduction targets have been considered for new buildings at 30% for non residential and 35% for residential dormitories. Opportunity for grey water recycling have been identified to provide recycled water for cooling towers, irrigation and toilet flushing. The master plan provides flexibility for a decentralized or shared plant approach.

Energy & Carbon Emissions

A strategy has been identified to utilize radiant cooling systems within certain facility types to minimize energy consumption along with utilizing mixed mode ventilation. Certain facilities may be tied into the new central cooling plant taking advantage of diversification of load and high efficiency chillers. Also considered have been opportunities to utilize shared plant for future buildings to provide load diversification and high efficiency plant.



Site Analysis: Sun path, prevailing winds, optimum orientation and green corridors

Grassroots Sustainability Movement

ASCMC

Associated Students of Claremont McKenna College

CLAREMONT, CA

SSPEAR

SUSTAINABLE STUDENTS PROMOTING ENVIRONMENTAL ACTION AND RESPONSIBILITY

SSPEAR is CMC's environmental club dedicated towards the defense of our natural environment and the advancement of sustainability. As a campus organization, we spread awareness of environmental issues, motivate the student body and campus services to live and operate more sustainably, and provide the resources to make these changes permanent.

MISSION

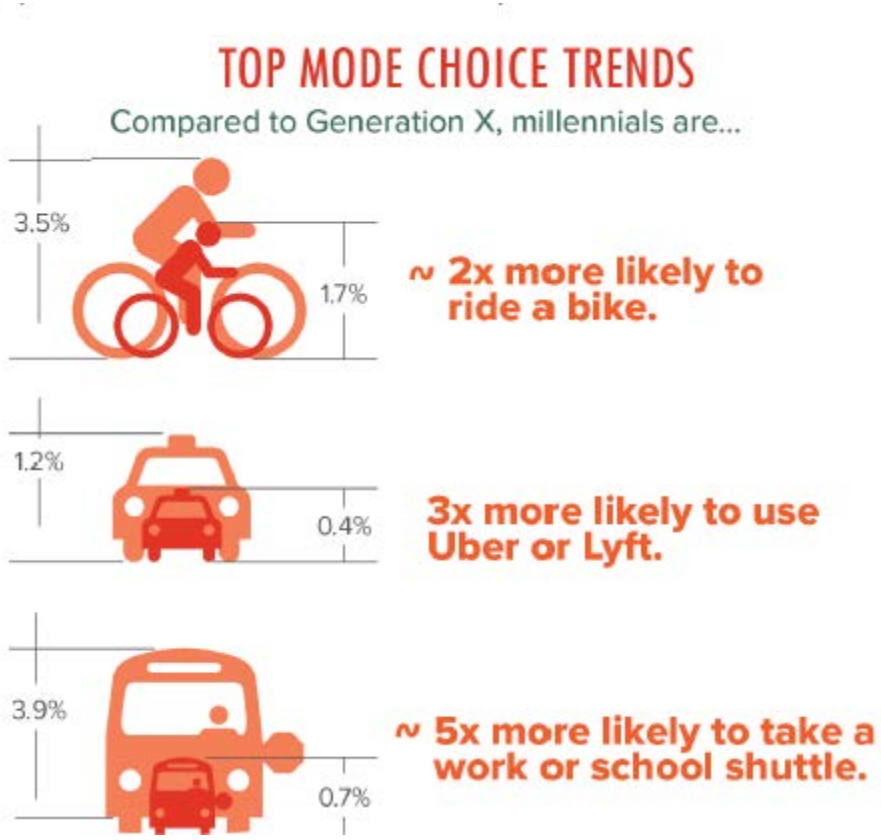
SSSPEAR's mission is to raise the awareness of our impact on the environment as individuals and as an institution as a whole, to inspire action through this awareness, and to permanently instill environmental responsibility into the mindsets and lifestyles of students at Claremont McKenna College.

PAST ACCOMPLISHMENTS

SSPEAR hosted the PowerDown energy reduction competition in February and March. The Student Apartments won the dorm-wide contest with an 8.5% reduction in energy usage over a 3-week period! During the competition, SSPEAR organized events to encourage environmentally-friendly behavior, such as Drying Party to hang dry laundry. Aside from PowerDown, SSPEAR has also organized beach clean-ups, documentary screenings, waste audits, and more!

FUTURE PLANS

In the short-term future, SSPEAR plans to establish a program for students to check out drying racks and personal compost bins to use throughout



University of California Riverside

2016 Physical Master Plan Study

- Association of American Universities profile aspiration
- New vision for core campus
- Transformative change in 5 years

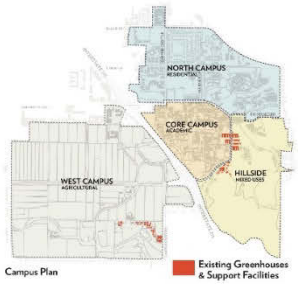
UCR Mobility Hub

- New front door to campus
- Partnership with regional transit agency
- Campus, local, state and federal funds

Multidisciplinary Research Building

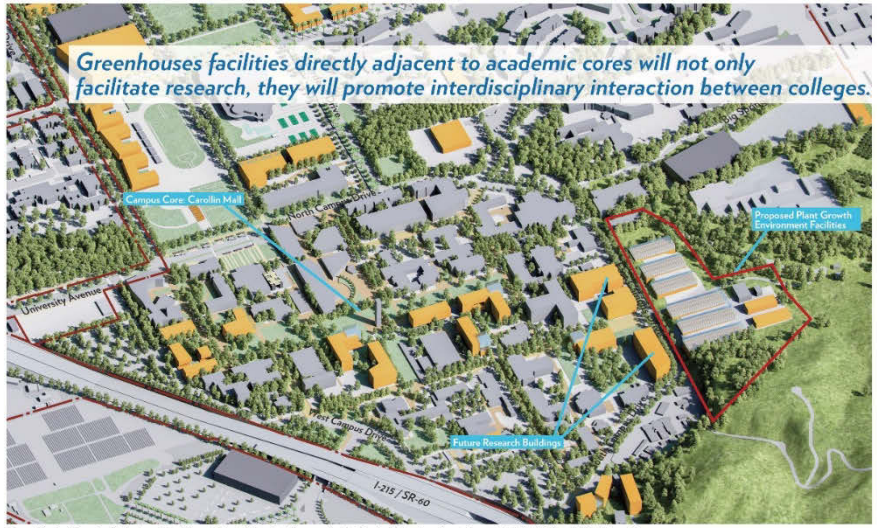
- Support critical research needs
- Indirect cost recovery model
- Design build

Plant Growth Environments Building 1

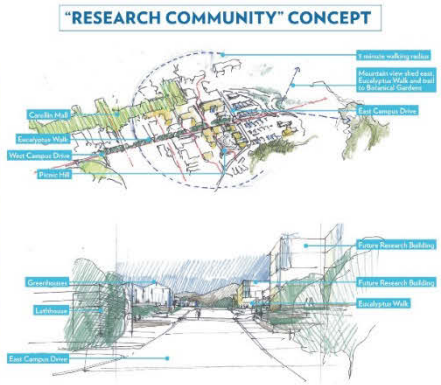


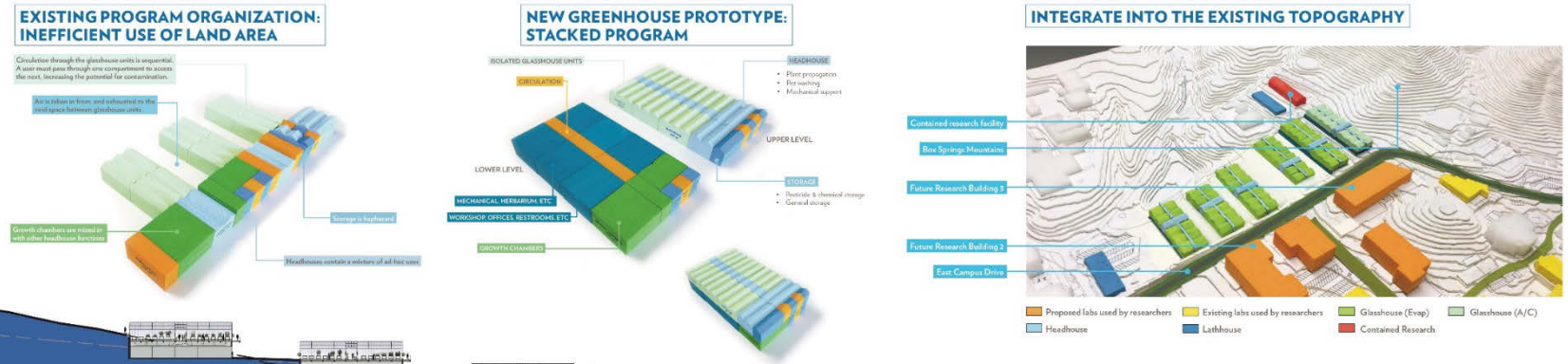
Campus Plan


Existing Campus: Agricultural legacy supports land based research.



Recent Physical Planning Study above identifies multiple building sites (in orange) as having the highest transformation potential for fulfilling UCR's future vision.





The University of California, Riverside maintains over one hundred separate structures used for growing and studying plants, split roughly in half on either side of an interstate freeway which bisects the campus. These structures—mostly greenhouses—were constructed starting in the early 1930s, the most recent having been built in 2010. The new plant sciences district plan provides a vision for the future of these facilities, and by extension, for the future of its agricultural research program. The implementation of this vision is critical for two reasons. The first is to support ongoing research, severely hampered by the current supply of disparate and degrading facilities. The second is the recruitment and retention of top-quality faculty who will contribute to the University's goal of becoming a preeminent research institution.

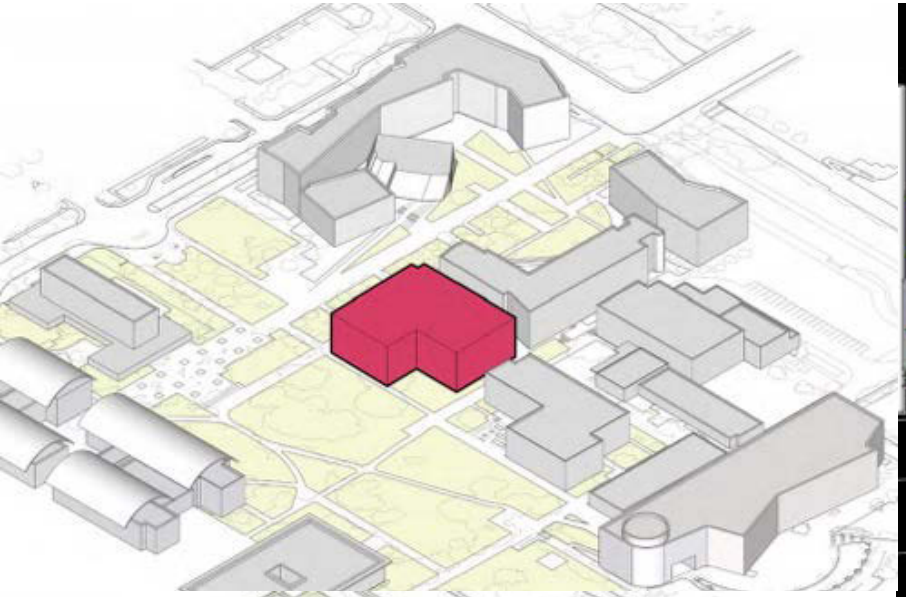
UNIVERSITY OF CALIFORNIA RIVERSIDE
PLANT SCIENCES DISTRICT PLAN

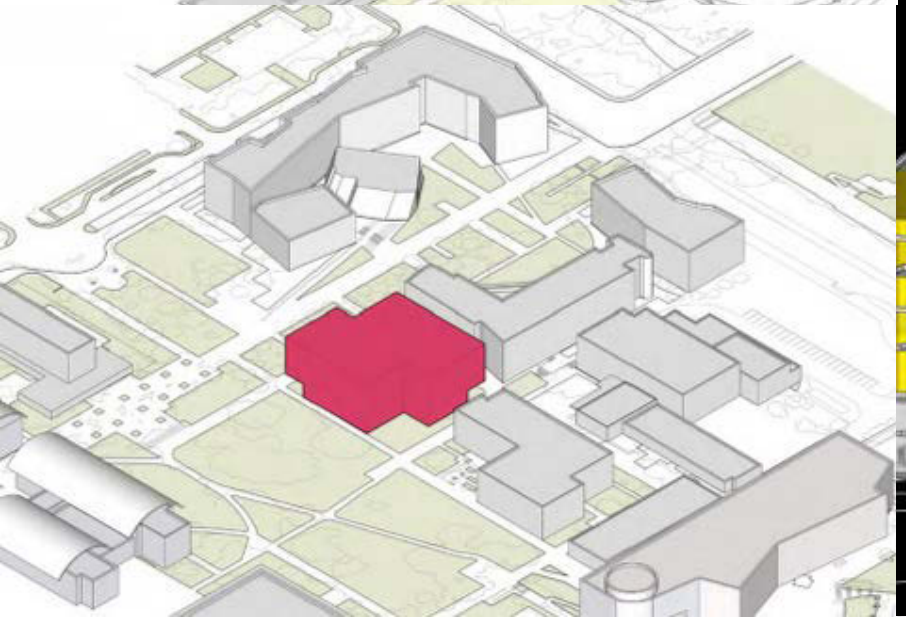
moore ruble yudell
architects & planners

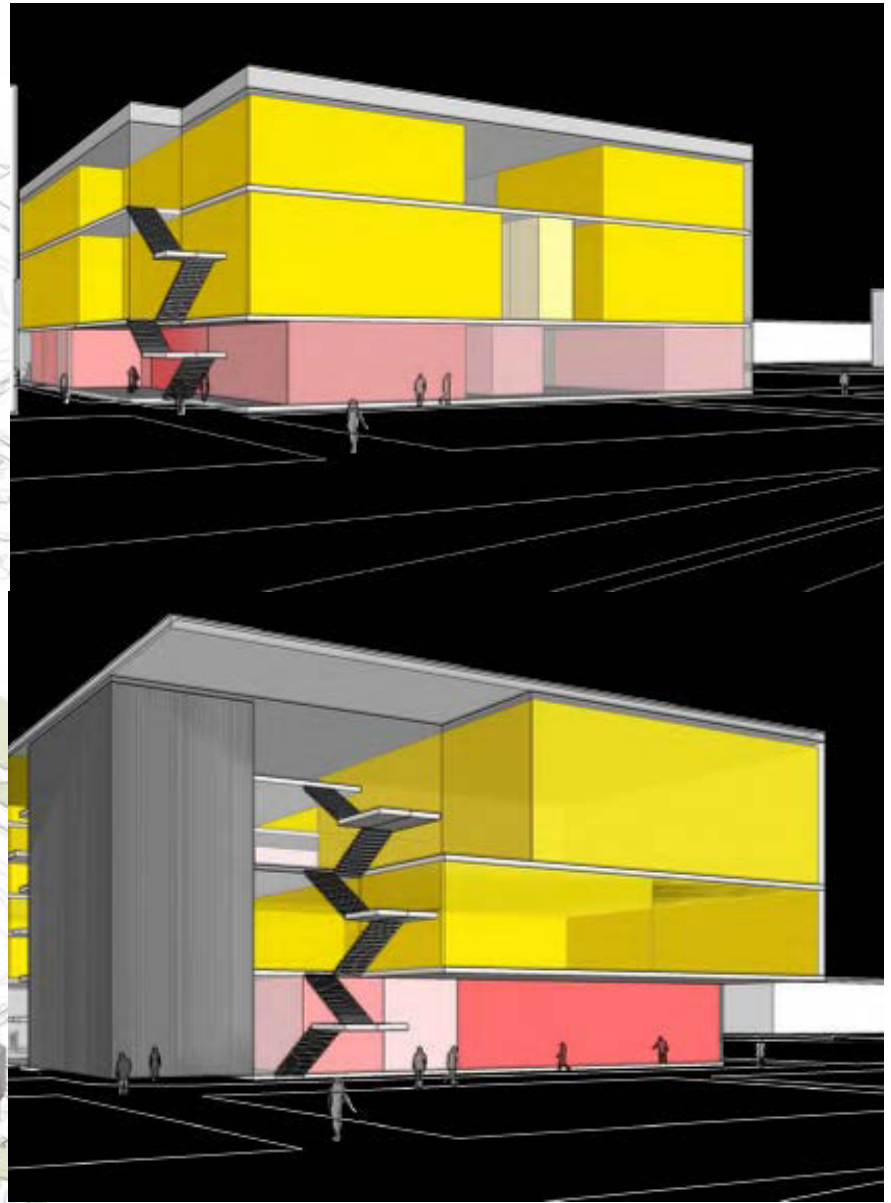
UC RIVERSIDE UNIVERSITY OF CALIFORNIA

- SCUP award
- Design-build
- Support critical research in plant sciences

Student Success Center Building







- 1000 seats classroom building
- State funded
- Critical siting decision
- Design-build delivery model

North District Student Housing

- Vision for 6,000 additional student beds; 2,500 in the first phase
- Focus on growing resident student population
- First public-private partnership

Integrating an Arroyo

- Showcasing a natural system
- …

Commitment to Clean Energy

- 7.4 MW total capacity
- Can meet __% of campus' peak demand
- Immediate to core campus

College of the Desert

Education Master Plan

GOALS

- Completion
- Transfer
- Unit Accumulation
- Workforce
- Equity
- Regional Equity

METRICS

- Successful Enrollment
- Learning Progress
- Momentum
- Success
- Employment
- Earnings

Facilities Master Plan

GOALS

- Upgrades to existing facilities
- Expand and create new facilities to prepare students for their careers and transfer to a 4-yr university
- Upgrade and add classrooms
- Create community-centered education sites
- Improve and expand career and support facilities for special populations

STRATEGIES (Match programs and sites)

- Increasingly flexible, open, adaptable teaching spaces
- Incorporate sustainability and embrace new technology
- Expand transportation options and connections
- Seek new kinds of partners
- Consider various delivery methods
- Diversity and find new funding streams and investment (P3s)
- Set up “shop” at sites - engagement

Central Quad Renewal

- Terminus to the primary campus entrance
- Visual identity and relationship to the surrounding community
- Comprehensive site improvements

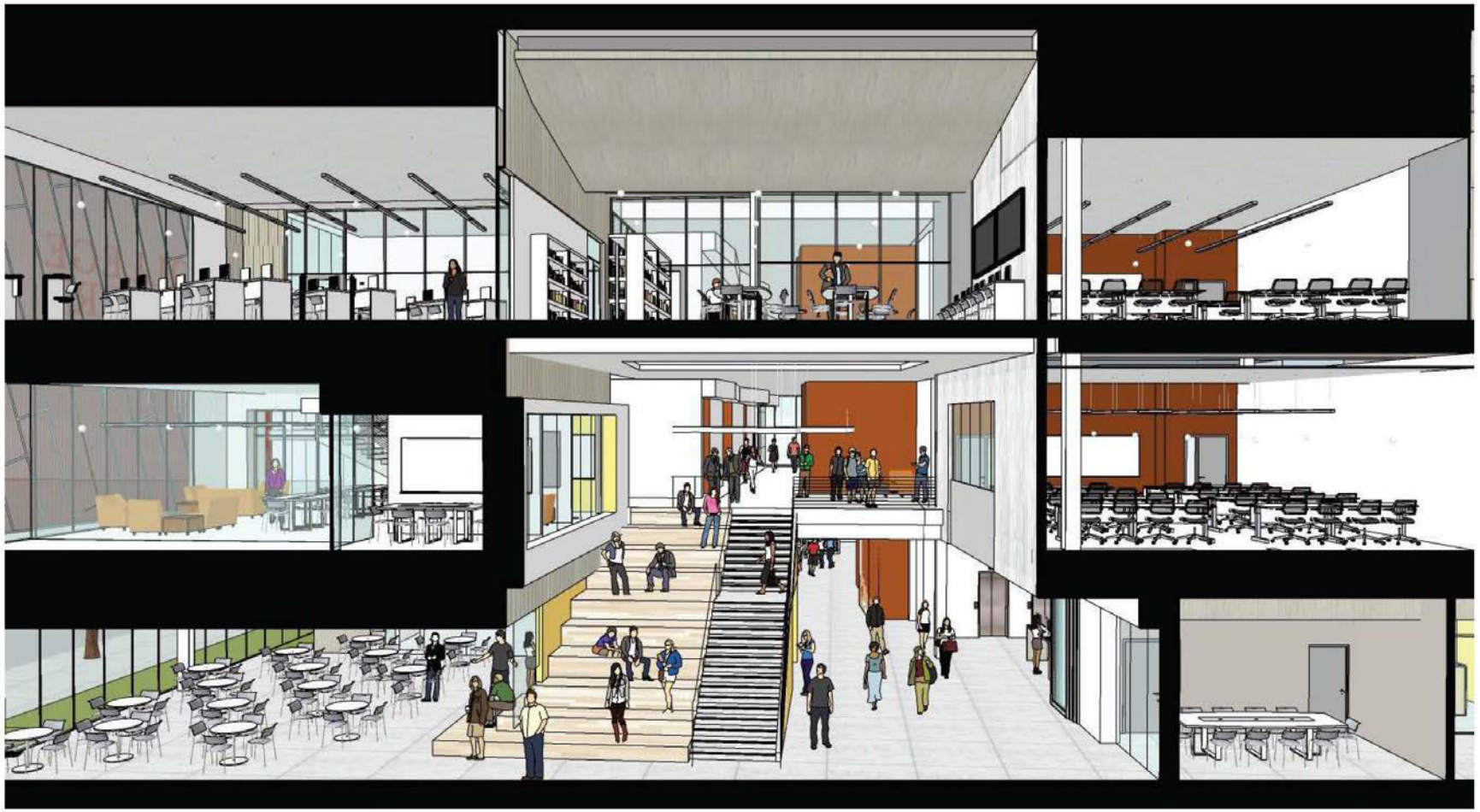
Indio Expansion Project

Indio Expansion Project

Indio Expansion Project

Building Section | North-South

Indio Expansion Project



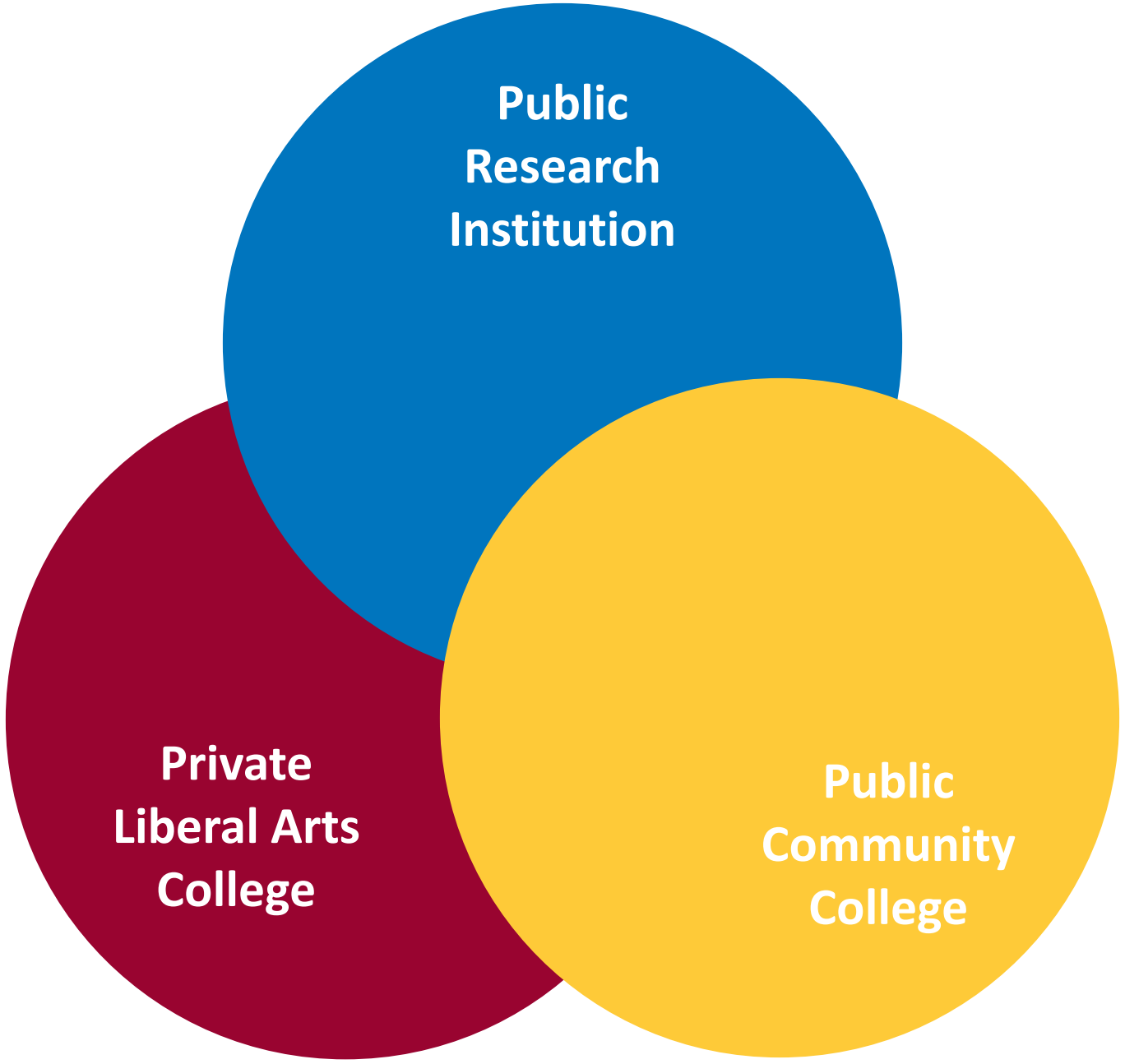
Lobby Section | East-West

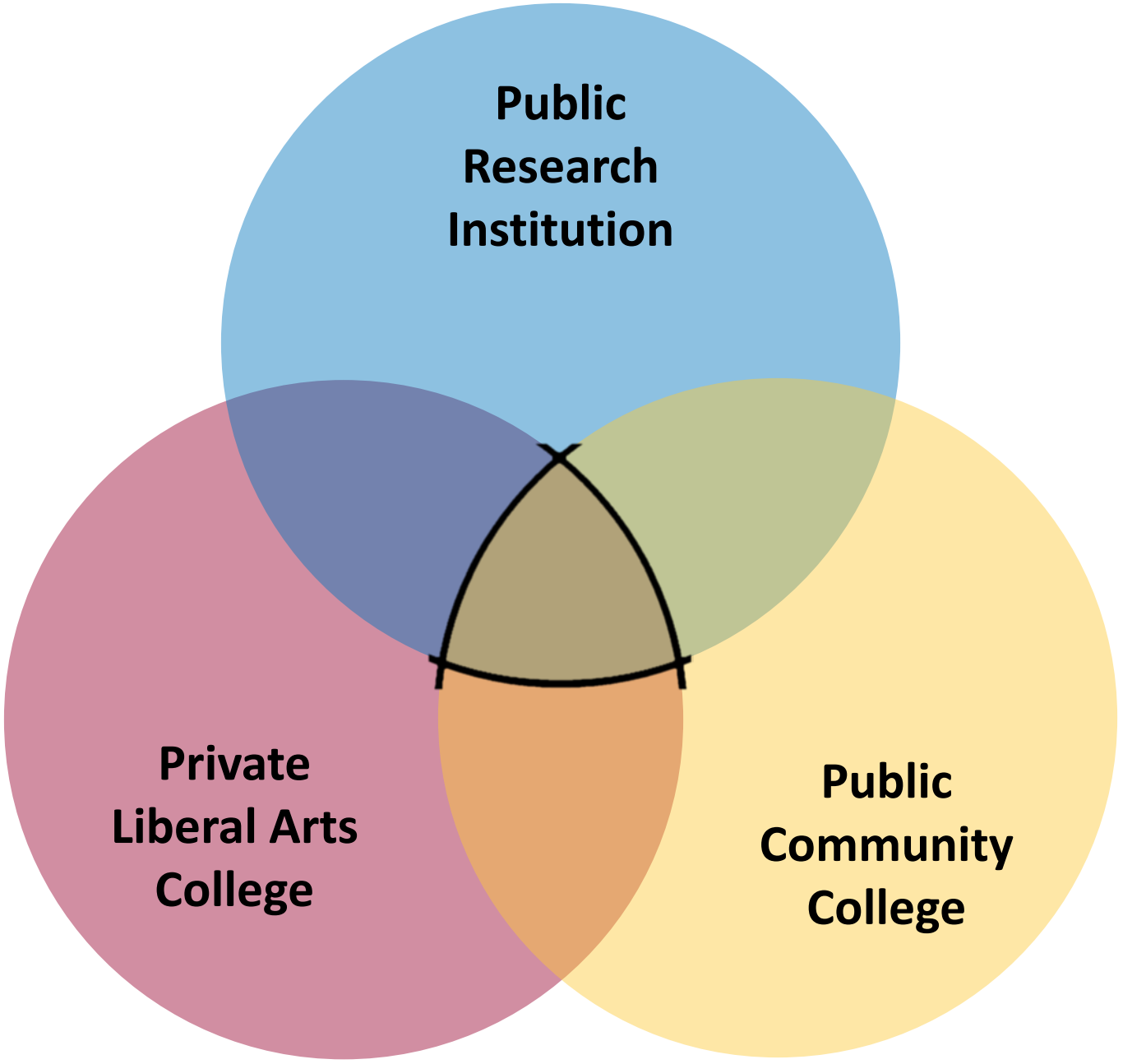
Indio Expansion Project

Indio Expansion Project

Indio Expansion Project

Indio Expansion Project


Public
Research
Institution
Private
Liberal Arts
College
Public
Community
College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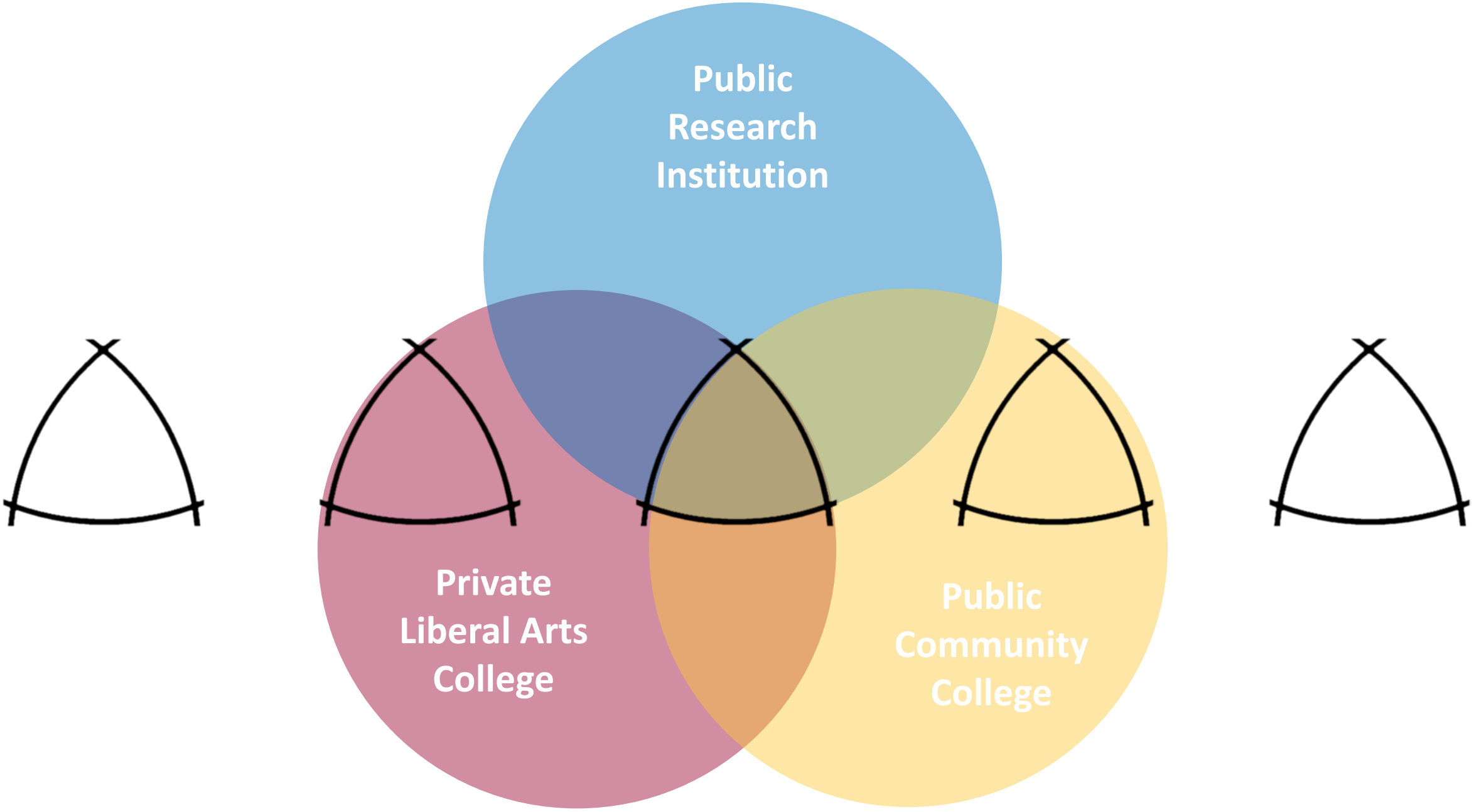
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Public
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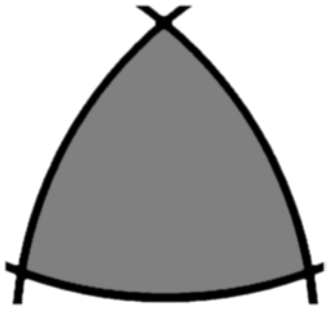
Engagement

Mobility

Partnership

Delivery



Stewardship

What Makes for a Sustainable and Implementable Vision

Engagement

Mobility

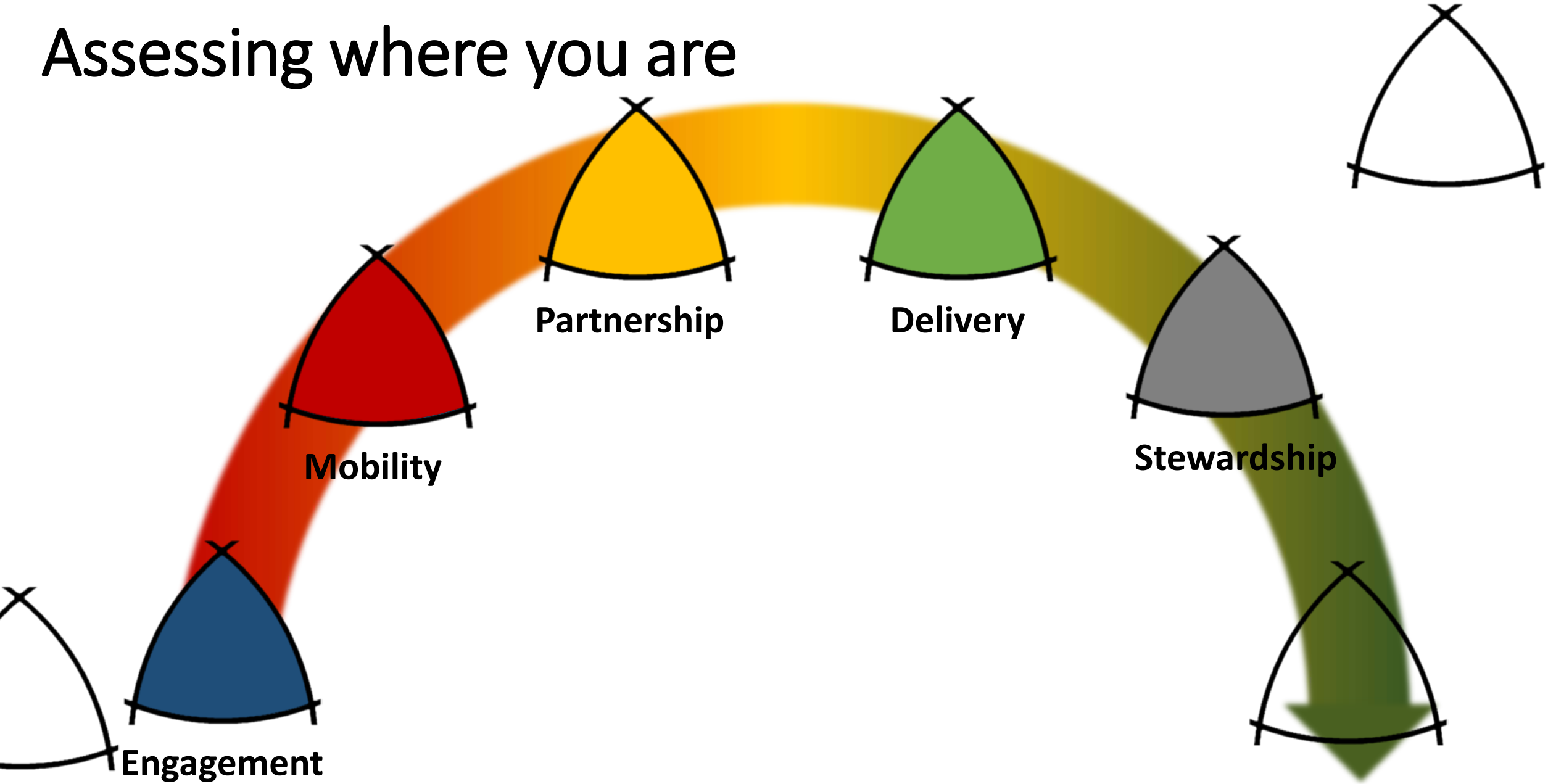
Partnership

Delivery

Stewardship

Surviving, Thriving or Leading?

Assessing where you are



Scanning the landscape

Talk amongst yourself for 5 minutes

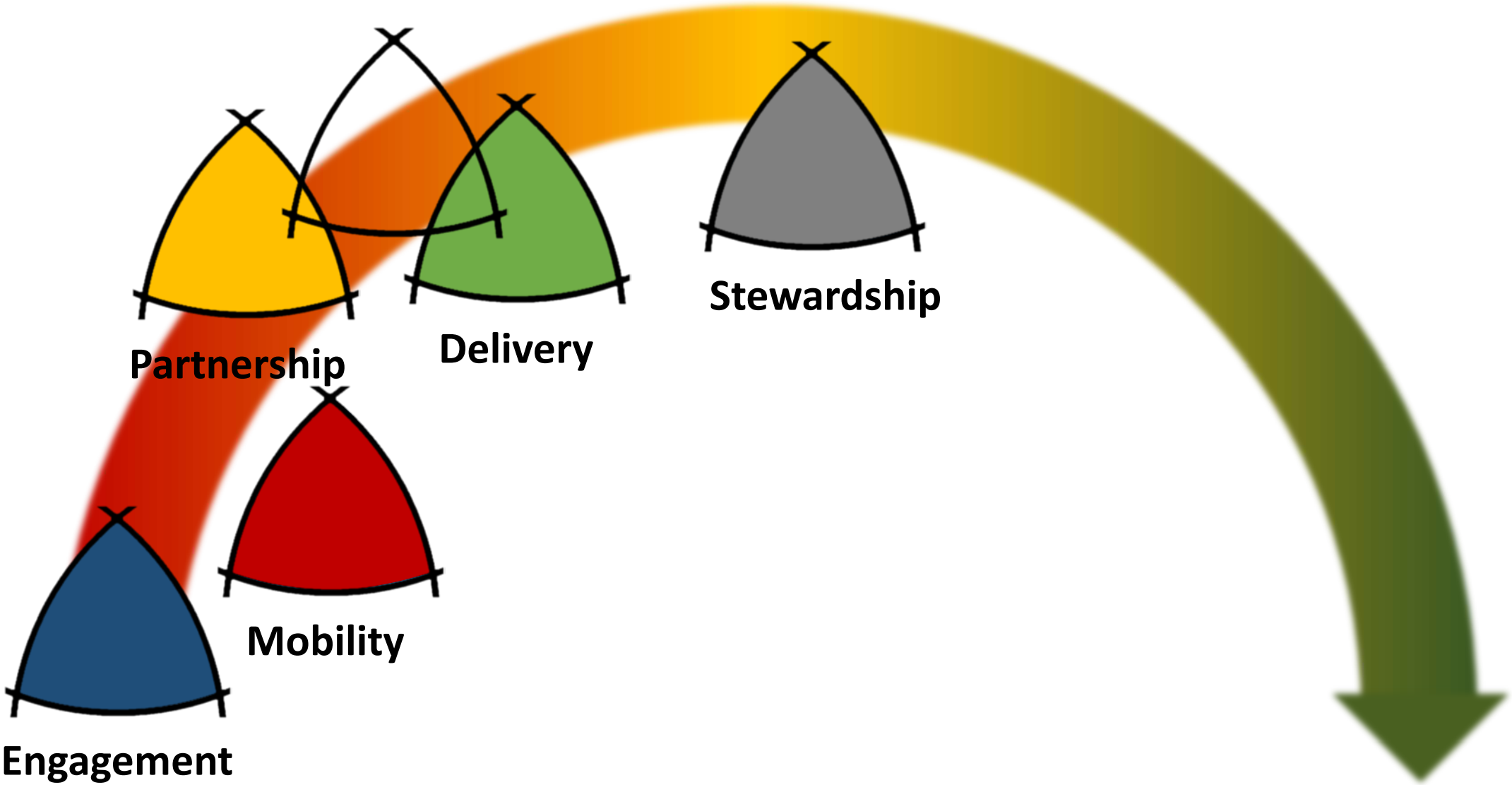
Pick the best and worst example of the theme your table relates to

Pick a spokesperson

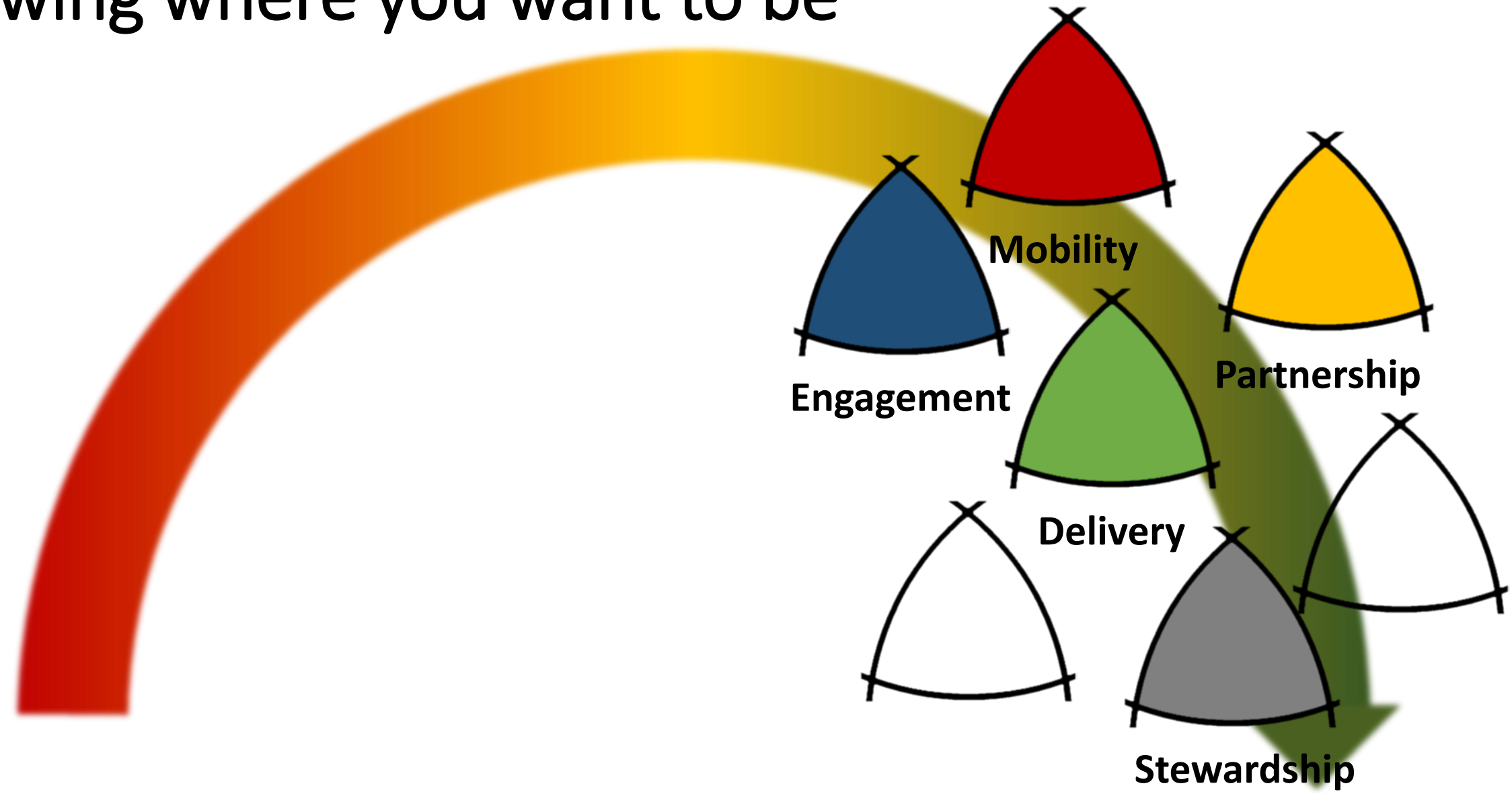
Tell us about your examples in a minute

Closing Comments

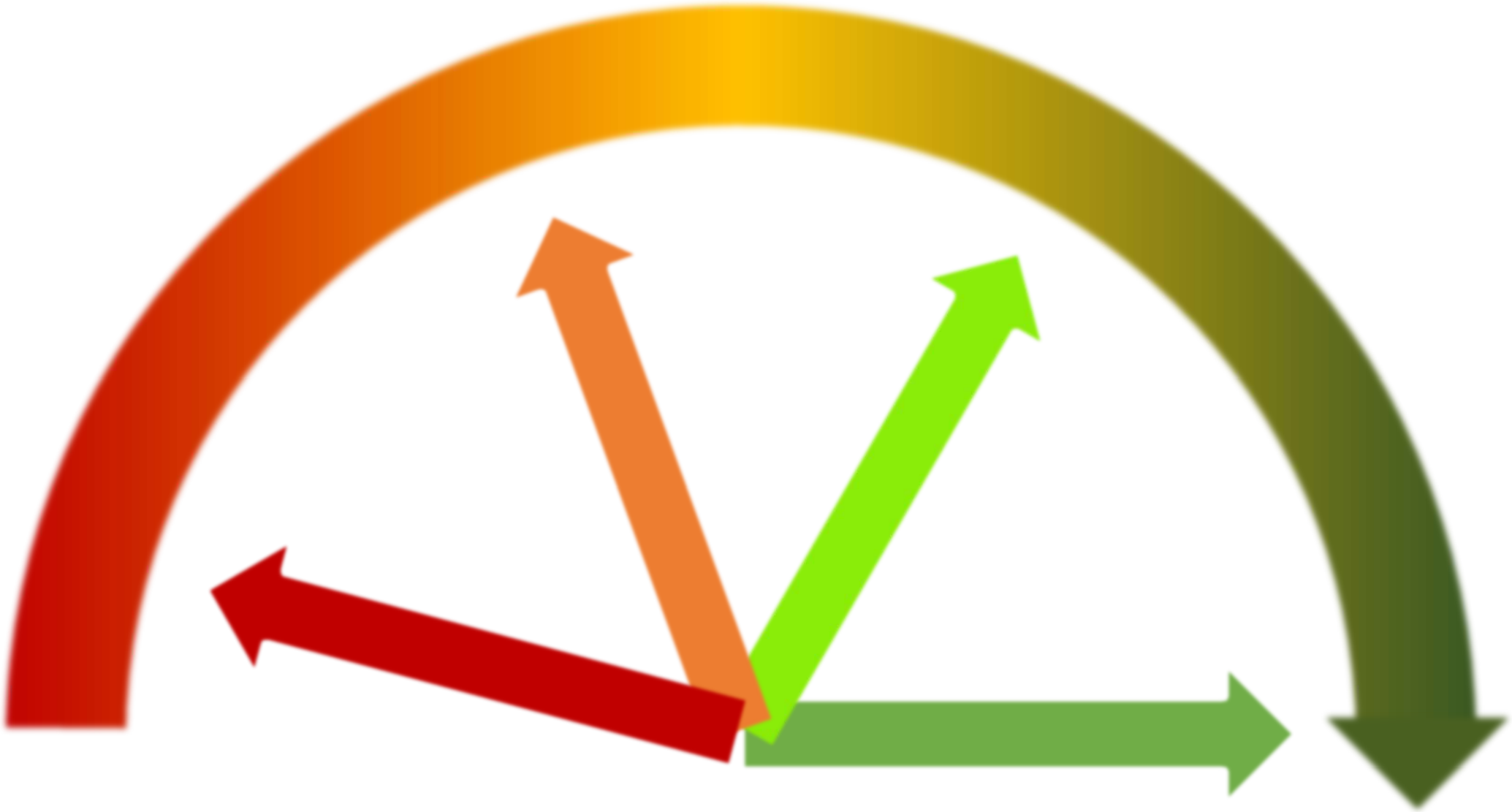
Assessing where you are



Knowing where you want to be



Moving the Needle



Learning Outcomes we Started With

- Synthesize competing demands, like increasing enrollment and environmental stewardship priorities, into a problem statement for your campus planning | **Engagement**
- Describe how to integrate long-range planning for sustainability into your campus's current environmental footprint and structures | **Sustainability**
- Use cost-informed planning and modelling to provide data to make decisions about physical investments | **Delivery**
- Leverage existing partnerships to enhance multiple forms of access to campus | **Mobility, Partnership**

New Themes

- New learning outcome related to Engagement, other TBD

Thank You for your Participation