

2022 CAMPUS MASTER PLAN RESTART (2020 CAMPUS MASTER PLAN)

SUSTAINABILITY AND WELLNESS



AYERS SAINT GROSS
JUNE 02, 2022

Agenda

- Introductions
- Overview of 2020 Master Plan
- Restart Parameters
- Process and Topics for Next Session

Detailed Agenda Provided Separately

An aerial photograph of a university campus, likely the University of Arizona, showing numerous red-brick buildings, green spaces, and palm trees. In the background, a range of mountains is visible under a clear sky. The entire image is overlaid with a semi-transparent dark blue filter.

Introductions

Who is in the Room?





Overview of 2020 Campus Master Plan

Workshop Recap



Workshop Recap



Workshop Recap



Executive Summary Draft



ENGAGEMENT AND PARTICIPATION

Carefully orchestrated, consistent engagement and interaction with diverse stakeholders is an essential activity throughout the planning process. This effort provided detail and dynamics of the campus and became a primary vehicle for conversations to create moments of discourse capturing input, advice, and concerns. In turn, engagement provided the planning team with opportunities for education and distillation of the institutional mission and enterprise priorities.

Campus Community Relationship Committee (CCRC) engagement for input and feedback on issues in and around the campus community.

WHO DID WE ENGAGE?

LEADERSHIP GROUPS

- Steering Committee
- Operational Committee
- Senior Leadership Team

PHYSICAL IMPACT FOCUS GROUPS

- Arts
- Campus Branding & Gateway
- Off-Campus Facilities Planning
- Campus Life
- Campus Health & Wellness
- Campus Access & Transportation
- Accessibility
- Campus Infrastructure
- Space Planning
- Campus Sustainability
- Campus Landscape
- Athletics
- Recreation

POLICY IMPACT FOCUS GROUPS

- Academics
- Research
- UMSAP
- UK Strategic Plan Leadership

OTHER WORKING GROUPS

- Planning & Transportation
- Historic Preservation
- Campus Community Relationship Committee

HOW DID WE ENGAGE?

35 Engagement Meetings	1 Campus-wide Open House	3 Neighborhood Meetings (Open Houses & Report Back)
5 Workshops	6,000+ Days of Engagement	450+ Days of Engagement
18 Focus Groups (open to all)	210 Participants	30 Neighborhood Associates
5 Meetings (Special Committee)	400 Copies	40+ Languages
	100+ Sign-In Comments	

1,308 Total Participants

STUDENT SUCCESS

FOCUS GROUP DISCUSSION NOTES

- The physical layout of some services is not conducive to student success, and many services are clustered in multiple locations more than a mile apart. University needs to consider opportunities to co-locate services that were not possible in the Student Success Service Plan. Academic Affairs including BURSAR & Registrar, A&S, etc.
- Need to develop central-based system for tracking student success resource usage.
- Need better physical and digital connection of services and resources.
- Need to better define what is "campus" responsibility vs. "center" responsibility.
- Need to do better providing resources for academic engineering teams.
- Need to better incorporate group space, location, rooms, project rooms, etc. into projects - particularly as a part of universal design standards/guidelines.
- Multicultural center identified in Strategic Plan is a challenging topic - Master Plan cannot address but can advocate that University take steps to discuss correct solution.

STRATEGIC PLAN EXTRACTS

- New programming for First Year, Transfer, Graduate, and International students.
- Strengthen teaching, learning, and mentorship.
- Advance research, advising, and achievement.
- Build First Year Foundation.
- Intentionally connect to research and foster American advancement.
- Center for Creative Strategies & Innovation Ecosystem.
- Global Education & Global Care & Multilingual Webinars.

POTENTIAL RECOMMENDATIONS

- Develop strategy to better serve student academic services (BURSAR, Registrar, etc.) in closer proximity and potentially in more central location (multiple potential locations).
- Define general attributes and languages for innovation and collaboration spaces and consider parameters for requirements in reinvention projects.
- Recommend that the institution consider policy and technology solutions to better track student use of resources.
- Consider identifying policy for the inclusion of group spaces in future projects as appropriate.
- Consider the creation of "student success" living spaces near the center of campus.
- Identify potential locations for physical student success resources identified in the Strategic Plan.
- Identify recommended or large of S&P space for the university to benchmark as a goal.

BRANDING & IDENTITY

BRANDING & IDENTITY

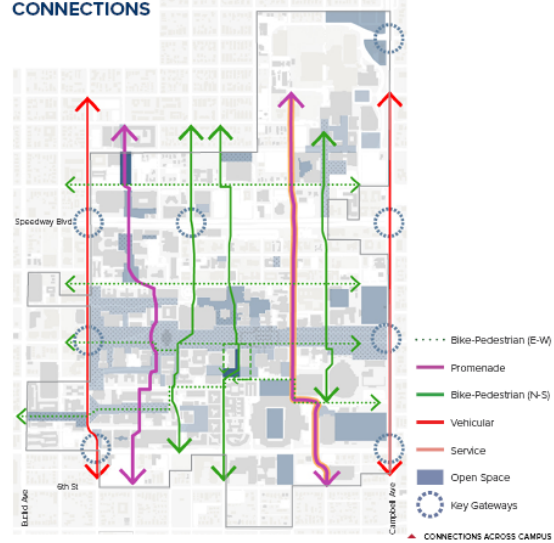
As a part of the ongoing efforts to improve the physical branding and identity of the campus, there was an effort to have a coordinated, comprehensive network of campus approaches, boundaries, and gateways. These will greatly ease way and enhance access routes to major campus destinations. The three major components to the effort include:

- Approaches and Boundaries - identified a number of gateway access points into campus for signage.
- Approaches and Boundaries - provided the approaches and report to identify potential improvements in the edges.
- Physical improvements - identify specific projects with a coordinated effort with the City of Tucson that will enhance the experience of the campus entry experience.

These concepts were identified prior to the master planning process and would need to be revisited after the process requires.

Frameworks

CONNECTIONS



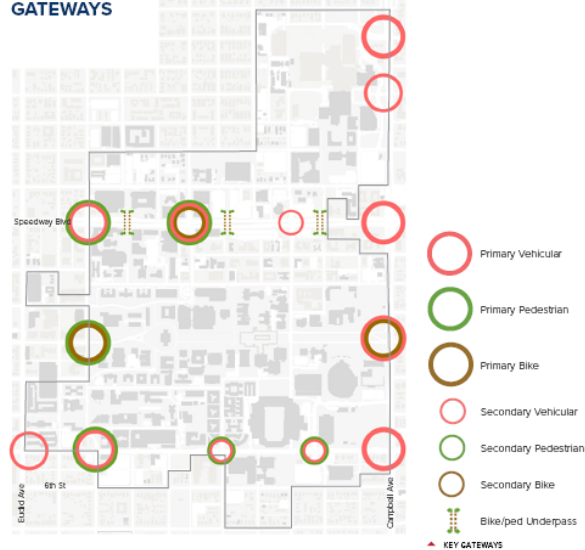
CONNECTIONS

One of the most heavily discussed topics during all the workshops were the North-South Connectors. These have evolved from distribution of instructional and research space and the patterns of movement of students, faculty, and staff across the campus. They are broadly categorized into three categories:

- Promenade - major connectors that are high capacity in volume, especially during peak hour.
 - Olive Road; Cherry Avenue
- Ped/Bike - dedicated connectors for ped/bike movement and don't allow vehicular movement.
 - Park Avenue; Mountain Avenue; Highland Avenue; Warren Avenue; Campbell Avenue
- Service - connectors used for internal servicing purposes between the north and south of campus.
 - Cherry Avenue

Diagonal Connectors: A slight modification on the discussion for the North-South Connectors mentioned above is the diagonal connectors. These are not formally defined but key discussions have been held to address the major routes traveled across campus along diagonal routes. A key example of this was the connection between the science concourse and the UAHS areas.

GATEWAYS

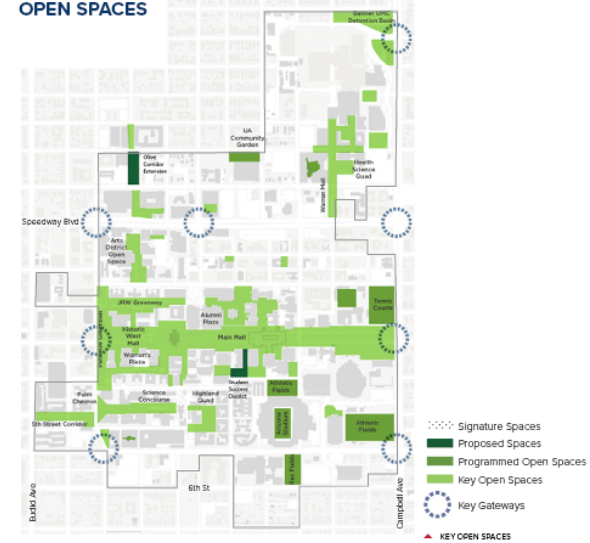


GATEWAYS

Gateways are categorized in two broad categories based on their volume and modes of transportation. Based on the volume, they are classified into primary and secondary gateways, while based on the modes of transportation they are categorized into vehicular, bicycle, and pedestrian gateways. The two overlap to result in the eight most used gateways for the campus as indicated in the image above. The list of primary and secondary gateways is below:

- | | |
|----------------------------------|--------------------------------------------|
| • Primary Gateways | • Secondary Gateways |
| - 6th Street & Park Ave | - 6th Street & Highland Ave |
| - 6th Street & Campbell Ave | - 6th Street & National Championship Drive |
| - University Blvd & Campbell Ave | - Speedway Blvd & Olive Rd |
| - Speedway Blvd & Park Ave | - Speedway Blvd & Highland Ave |
| - Speedway Blvd & Mountain Ave | - Speedway Blvd & Warren Ave |
| - Speedway Blvd & Campbell Ave | |
| - Adams Street & Campbell Ave | |
| - Park Ave & University Blvd | |

OPEN SPACES



OPEN SPACES

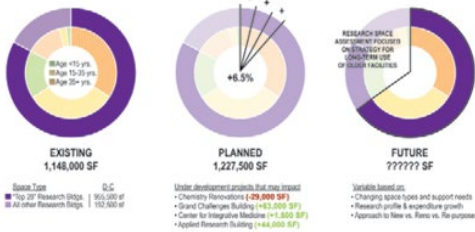
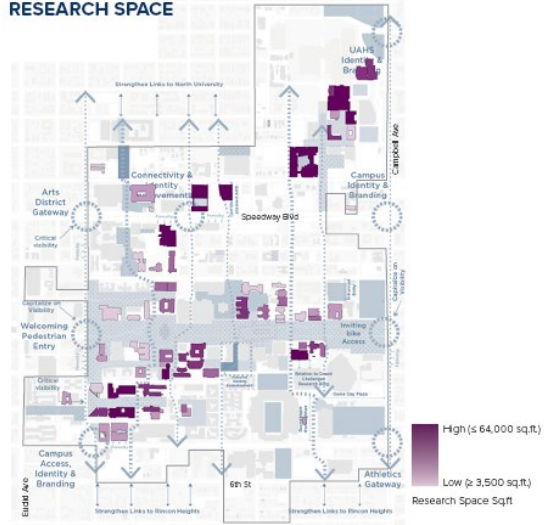
UArizona's campus is an interwoven environment of buildings, shaded walks, courtyards, and dramatic open spaces. The campus is envisioned as a system of these elements and each device supports and contributes to the whole. Over the development of the campus, many successful open spaces and walks have been created. As the campus continues to evolve and support greater usage, new opportunities arise to transform exterior spaces for the greater benefit to the campus and its users.

The open spaces are classified into two categories based on the use: Open Use and Programmed Open Spaces. Additionally, there are two categories treated as overlays: Proposed Open Space and Signature Open Spaces.

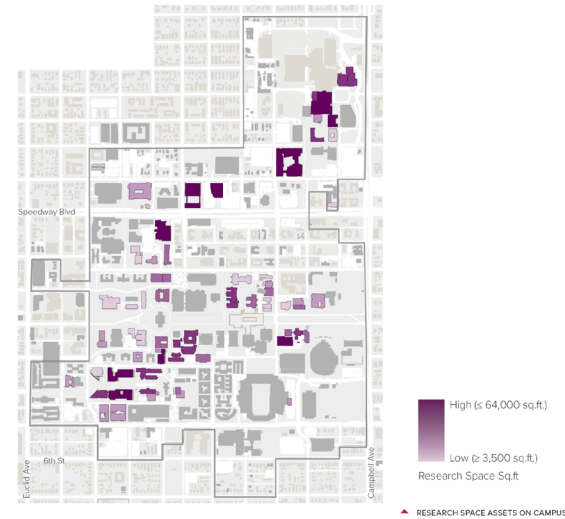
- Open Use Spaces - open spaces that do not have an assigned use or function and are used flexibly.
- Programmed Open Spaces - open spaces that have a specific assigned use.
- Proposed Spaces - Spaces that are designated as future open spaces.
- Signature Open Spaces - open spaces that are an integral part of the campus history and identity.

Frameworks

RESEARCH SPACE



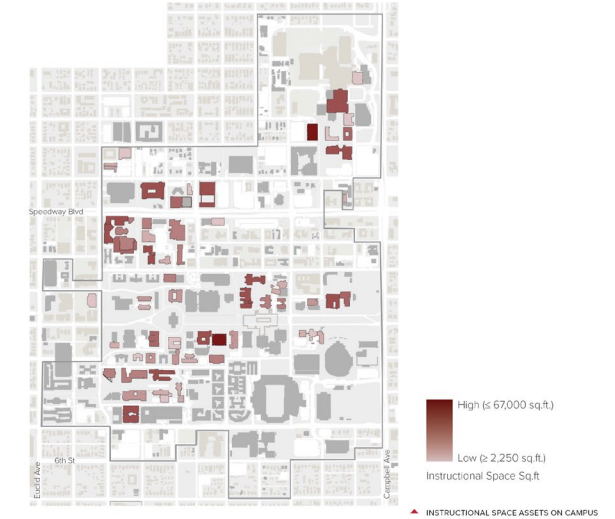
RESEARCH SPACE ASSETS



RESEARCH SPACE

- Space distribution
 - The research space has highly concentrated pockets across campus like the UAHS, Engineering, Science concourse buildings in the southwest of the campus.
- Projected needs
 - There is an anticipated growth in expenditures and faculty, but not a specific target.
 - Interdisciplinary is a good goal for all future UAArizona buildings including research – Grand Challenges is seen as a potential showcase.
 - Hub locations, either new or existing buildings, or in the greenspace framework, will need to be determined.
 - A matrix of elements or functional resources that support the character of the area will need to be developed within the hub.
 - Hubs should be used to support shared core resources when possible.
 - Hubs should create places for interdisciplinary and trans-disciplinary intersections.

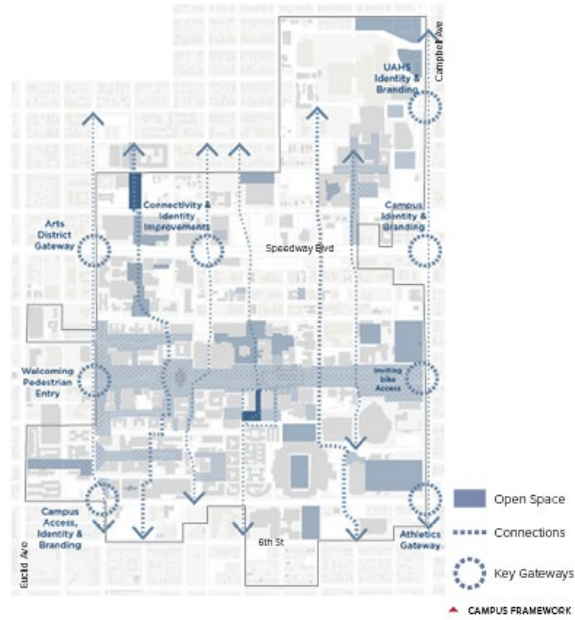
INSTRUCTIONAL SPACE ASSETS



INSTRUCTIONAL SPACE

- Space distribution
 - The instructional space is fairly well-distributed with some concentrated areas across campus.
 - There are hubs in the arts district, science concourse, chemistry building, and the UAHS campus.
- Quality of space and projected needs
 - The existing space types are mostly traditional style classrooms with a few seminar halls and lecture halls.
 - There is a need for collaborative classrooms with flexibility across the entire campus.
- Ongoing efforts
 - UAArizona should plan for 25-27 NASF/FTE in new building renovations.

CAMPUS FRAMEWORK



CAMPUS FRAMEWORK

One of the key aspects of the Master Plan is the Campus Framework. Although there are a number of factors that contribute to the campus environment, four key aspects are identified that help define the campus framework:

- Gateways
- Open Spaces
- Connections
- Planning Projects

Frameworks

COMPOSITE CAMPUS FRAMEWORK

Multiple factors contribute to the campus environment. Four key aspects are identified that help define the campus framework:

- Gateways
- Open Spaces
- Connections / Circulation
- Planning Projects (current and proposed)
- Transit

Sustainability

WHERE WE LEFT OFF...



WORKSHOP 04 - FOCUS GROUP NOTES

- Master Plan needs to consider the “People” component, but this is a much larger topic that extends beyond the Master Plan - the Master Plan should encourage support of students and understanding of the unique UA context in regards to Hispanic, Native American, and other underrepresented populations
- Meaning of Sustainability to UArizona
 - Triple bottom line: People, Climate, and Economics
 - “Environmentally sound, Socially Just, Economically viable”
 - Philosophical set of values we embed into the students education and experience so that they can carry it forward
 - University of Arizona setting an example to the world
- Urgency for sustainability will increase over the next 10 years (life of Master Plan)
 - More ubiquitous and locally focused
- The Office of Sustainability (newly formed) had a very short period of time to prepare content for the Strategic Plan - if they could re-do today it would be more specific
- Find a way to capture future targets from exercise as aspirations

STRATEGIC PLAN ALIGNMENT - EXTRACTS

- Institutionalize commitment to Hispanic, Native American, and underrepresented voices
- Live our core values
- Sustainability and resiliency throughout UA Operations
- Campus culture of sustainability and community partnership

Sustainability

WHERE WE LEFT OFF...



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STRATEGIC PLAN ALIGNMENT - EXTRACTS

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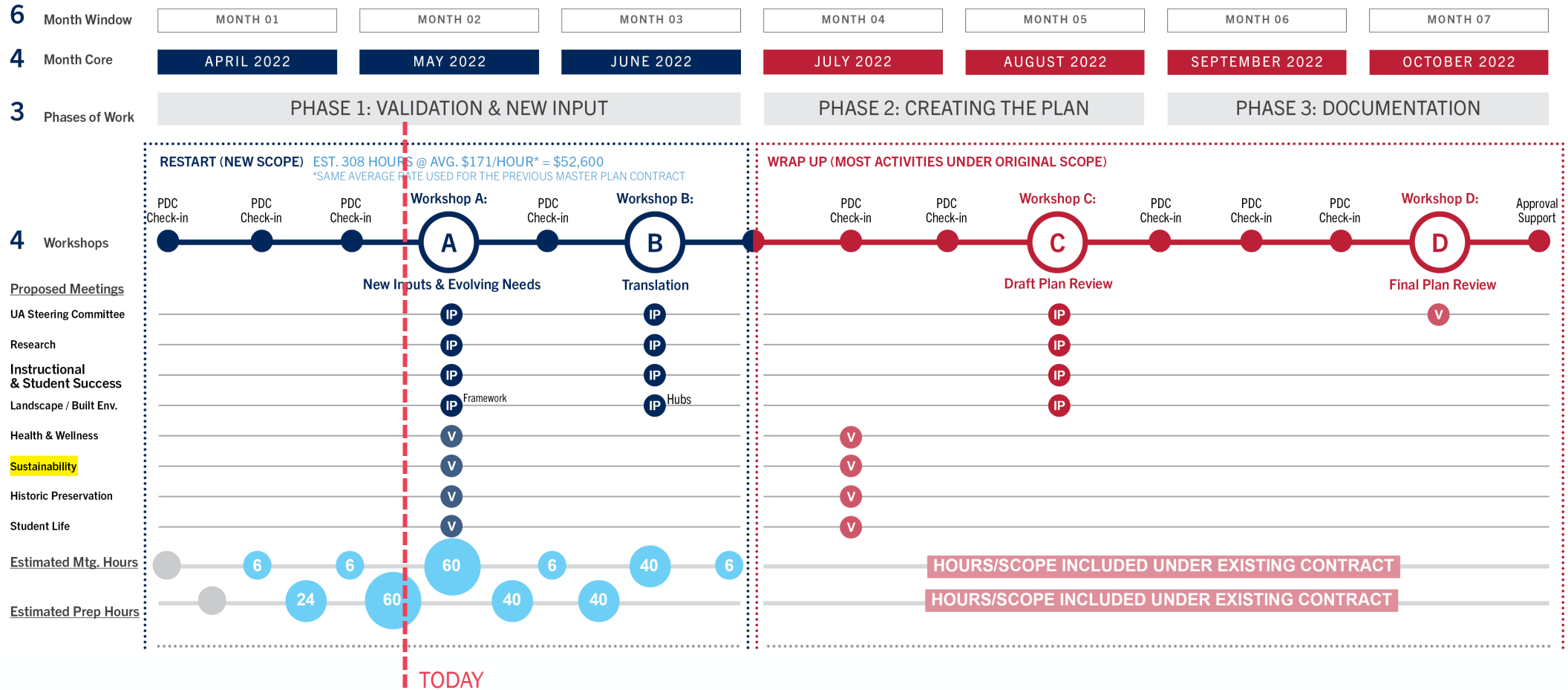
POTENTIAL RECOMMENDATIONS

- Create a value statement for MP (PDC + ASG + Office of Sustainability)
- Communication recommendations: engage marketing and communications department to communication & signage package
- Recommendation for a landscape master plan that takes a closer look at landscape standards and guidelines, and identifies opportunities to reduce turf and improve % native landscape to cut down on water costs and usage
- Advocate the continued consideration of strategies that will reduce UA's reliance on fossil fuels
- Increase tree canopy and shade through native plantings to improve campus experience
- Advocate for policies and programs that promote sustainability-related education and outreach both on and off campus (partner with community)
- Support policies that advance Social Justice
- Include Strat Plan Sustainability items in MP

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Restart Parameters

(proposed) Restart Schedule



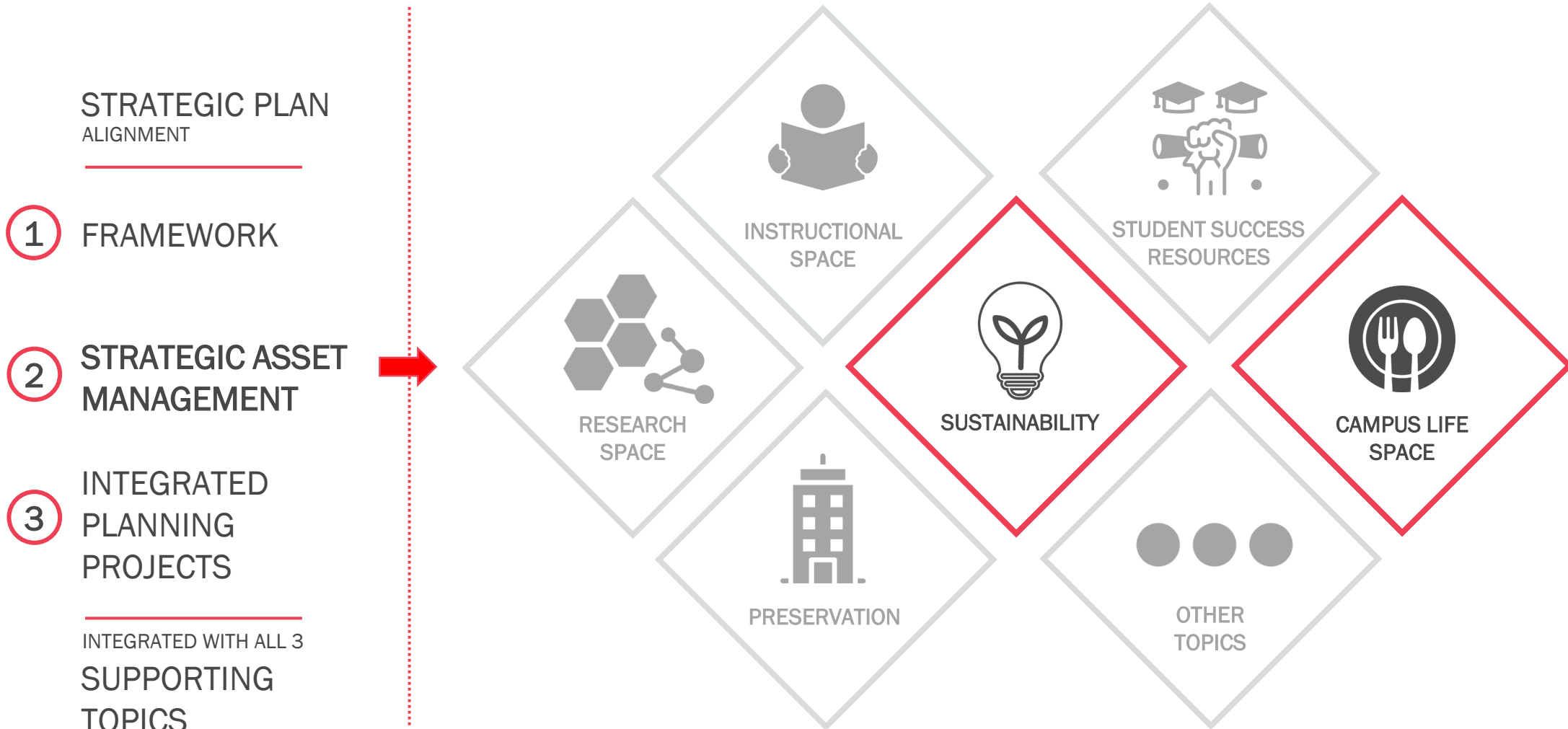
Restart Considerations

PDC overview



Master Plan Structure: Strategic Assets

MASTER PLAN ORGANIZATION



Summary of Previous Steering Committee Meeting

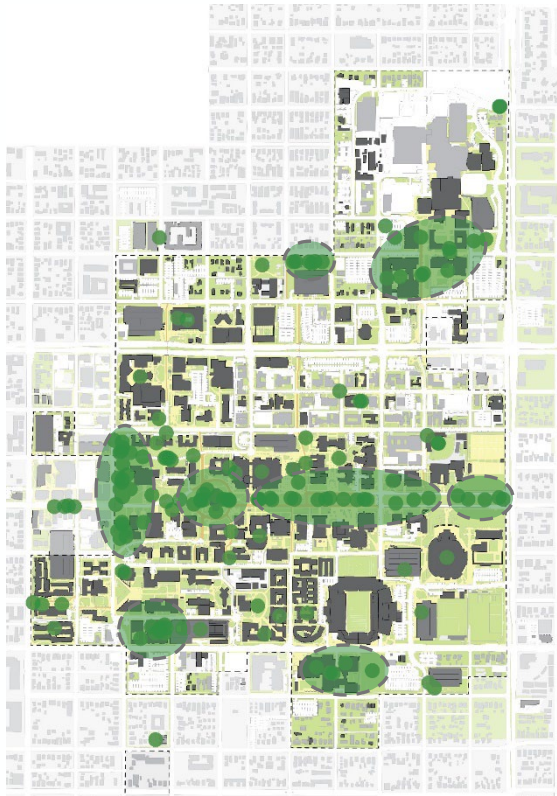
(MAY 11, 2022)

Major Topics for Re-analysis and Confirmation within the Restart Phase:

- SWOT
- Enrollment
- Boundaries
- Gateways
- Circulation
- Transit
- Innovation
- Wayfinding
- Sustainability

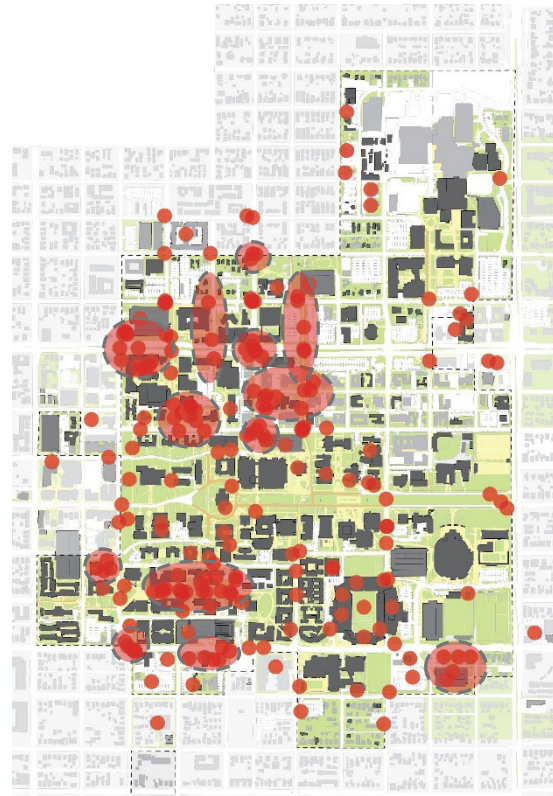


Steering Committee SWOT Suggestions



Strengths

- West Gate – gateway and entry
- Old Main
- Research Facilities - ENR2/HSIB
- Main Mall
- Rec Center
- Community Garden



Weaknesses

- Gateway and Intersections along Speedway Blvd. & 6th St.
- North-South Connectivity
- Density & Infill along Speedway Blvd. & 6th St.
- Southwest Campus Quad



Opportunities

- Underutilized Parking Lots
- Gateways and Housing
- Land Use Synergies along Speedway Blvd. & 6th St.
- Open Space Improvements in Southwest Campus
- Southern Edge Land Uses



Threats

- Older Buildings on Campus
- Intersections and Bike/Pedestrian Pathways
- East Speedway Gateway
- Arizona Stadium – deferred maintenance

**Topic:
Strengths,
Weaknesses,
Opportunities,
and Threats
(SWOT)**

*SWOT needs to be
reassessed*

Steering Committee

SPECIFIC COMMENTS

- Threats: there are challenges of work and sustainability
- Threats: totally unacceptable level of danger for pedestrians
- Threats: column feels “tepid” compared to other categories
- Post-pandemic the world has changed, opportunity to focus on *things mentioned by Liesl*:
 - Sustainability
 - Circulation
 - Food deserts
 - Maintenance deferrals

Topic: Enrollment

*Future enrollment
profiles and impact on
space and utilization*

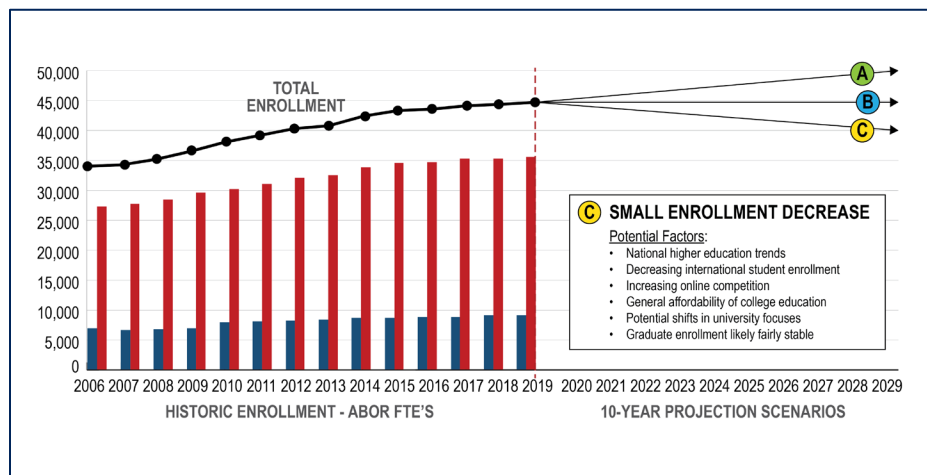
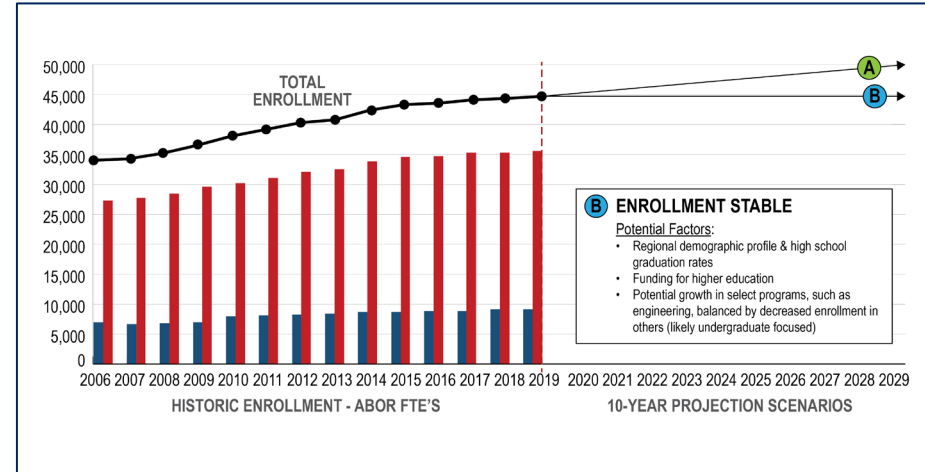
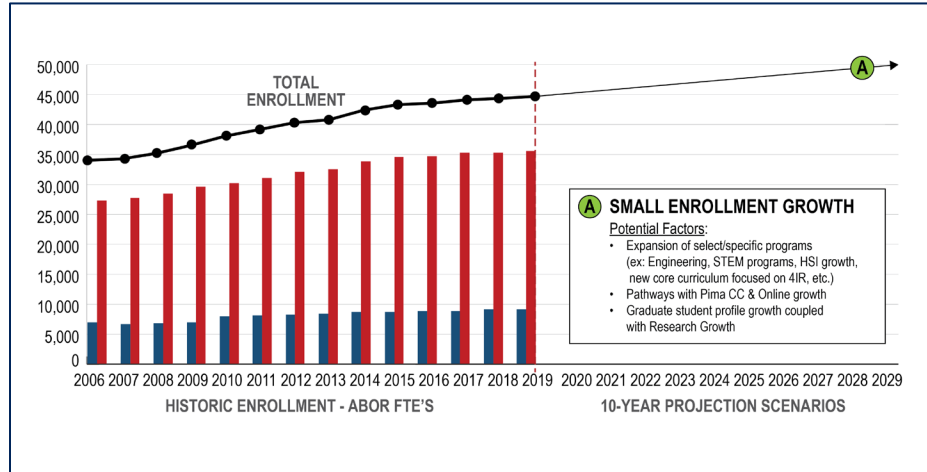
Steering Committee

SPECIFIC COMMENTS

- Analytics have captured the number of students on campus for the past 2 years
 - Based on Wi-Fi connections
 - This data will be informative
 - Already know how many people are coming to campus each day
- Physical vs online demographics, subsequent use patterns
- Decouple grad and undergrad growth patterns because they will be different
- Long-term graduate profiles to support Tier 1 research goals

Steering Committee Topic: Enrollment

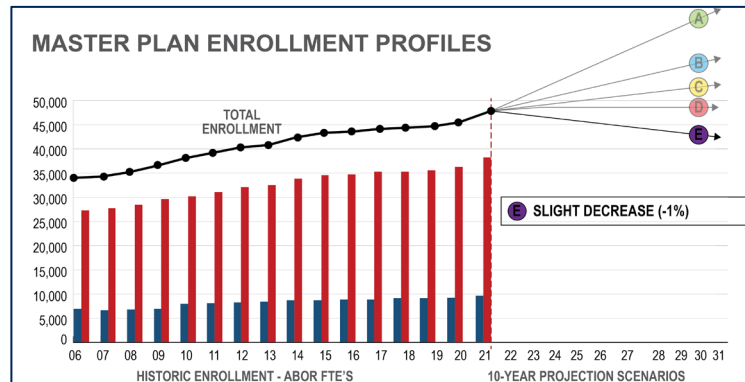
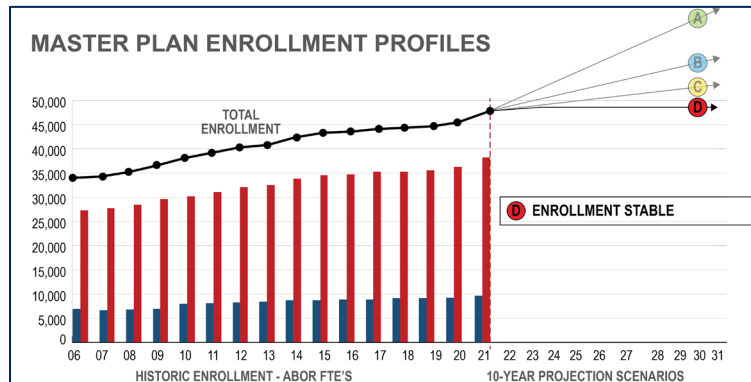
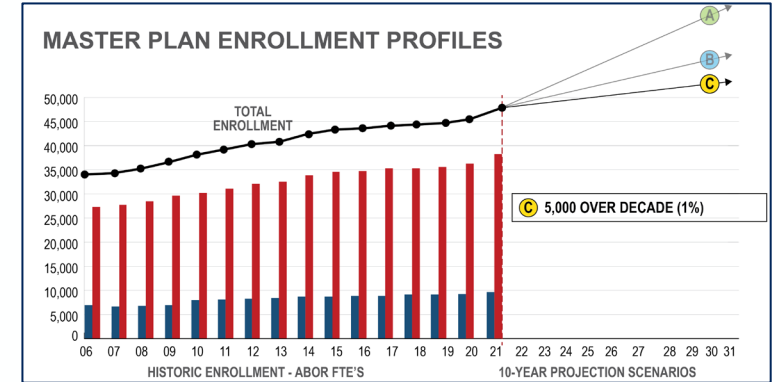
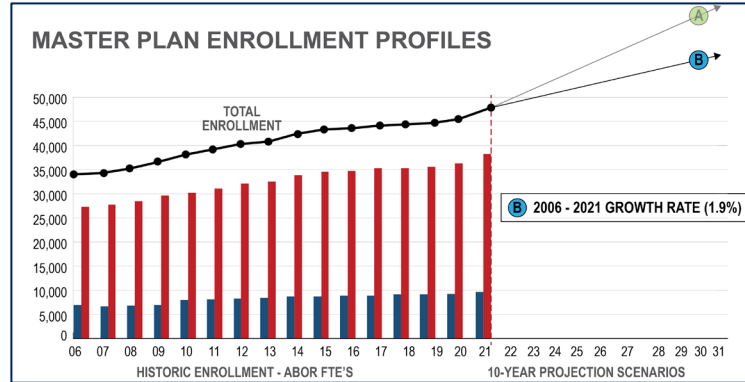
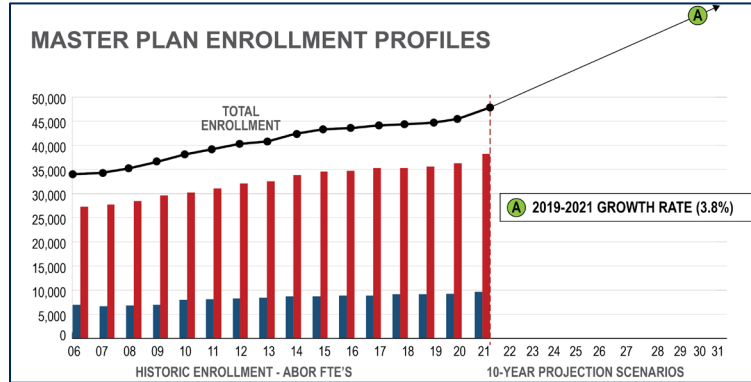
PREVIOUS ENROLLMENT PROJECTIONS (2019)



	Enrollment Profile	Graduate Enrollment	Undergraduate Enrollment	Total Enrollment	What This Means?
EXISTING (FALL 2019 ABOR FTE)	EXISTING PROFILE (FALL 2019)	9,094	35,620	44,714	
10-YEAR PROJECTION SCENARIOS (2020-2030)	A SMALL ENROLLMENT GROWTH Potential Factors: • Expansion of select/specific programs (ex: STEM programs, HSI/border, etc.) • Pathways with Pima CC & Online growth • Graduate student profile growth coupled with Research Growth	9,500 - 10,500	36,500 - 39,500	46,000 - 50,000	Strategic program growth (new & existing)
	B ENROLLMENT STABLE Potential Factors: • Regional demographic profile & high school graduation rates • Funding for higher education • Potential growth in select programs balanced by decreased enrollment in others	8,500 - 9,500	34,500 - 36,500	43,000 - 46,000	Enrollment shifts will take place to align with priorities, but net count will remain fairly stable
	C SMALL ENROLLMENT DECREASE Potential Factors: • National higher education trends • Decreasing international student enrollment • Increasing online competition • General affordability of college education • Potential shifts in university focuses	8,000 - 9,000	31,500 - 34,500	39,000 - 43,000	Overall enrollment figures return to ~2010 levels, but graduate FTE grows as a % of total

Steering Committee Topic: Enrollment

UPDATED ENROLLMENT PROJECTIONS (2021)

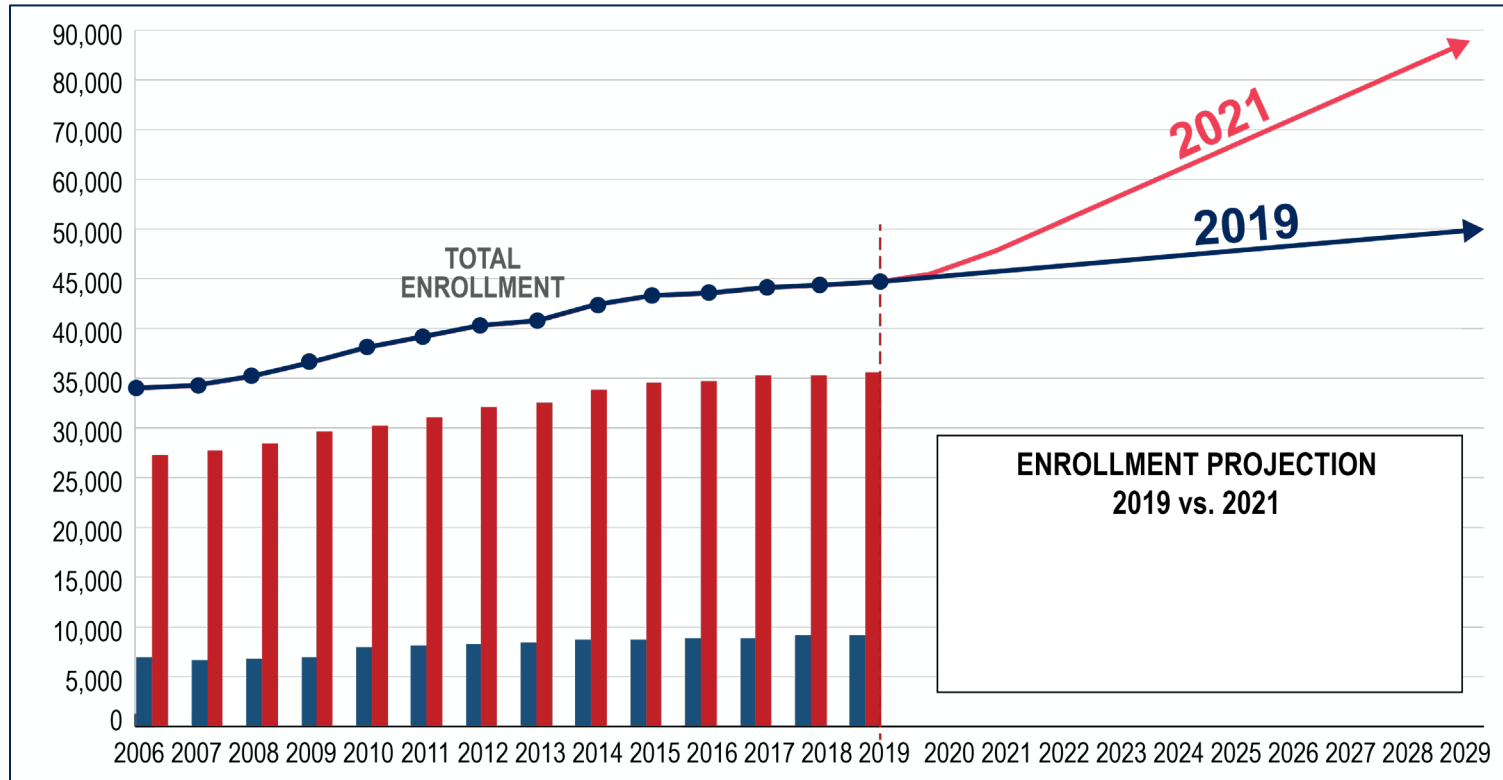


MASTER PLAN ENROLLMENT PROFILES

	Enrollment Profile	Graduate Enrollment	Undergraduate Enrollment	Total Enrollment	What This Means?
EXISTING (FALL 2021 ABOR FTE)	EXISTING PROFILE (FALL 2021)	10,943	38,528	49,471	
10-YEAR PROJECTION SCENARIOS (2022-2031)	A 2019 - 2021 GROWTH RATE %	14,740 - 15,881	51,919 - 55,938	66,666 - 71,828	???
	B 2006 - 2021 GROWTH RATE %	12,716 - 13,203	44,786 - 46,503	57,506 - 59,711	???
	C 1% OVER DECADE	11,845 - 12,082	41,716 - 42,554	53,565 - 54,641	???
	D ENROLLMENT STABLE	10,943 - 11,162	38,528 - 39,302	49,471 - 50,464	???
	E SLIGHT DECREASE	10,093 - 9,892	35,547 - 34,839	45,646 - 44,737	???

Steering Committee Topic: Enrollment

2019 VS. 2021 PROJECTIONS (PROJECTION A 2019 VS. PROJECTION A 2021)



2021

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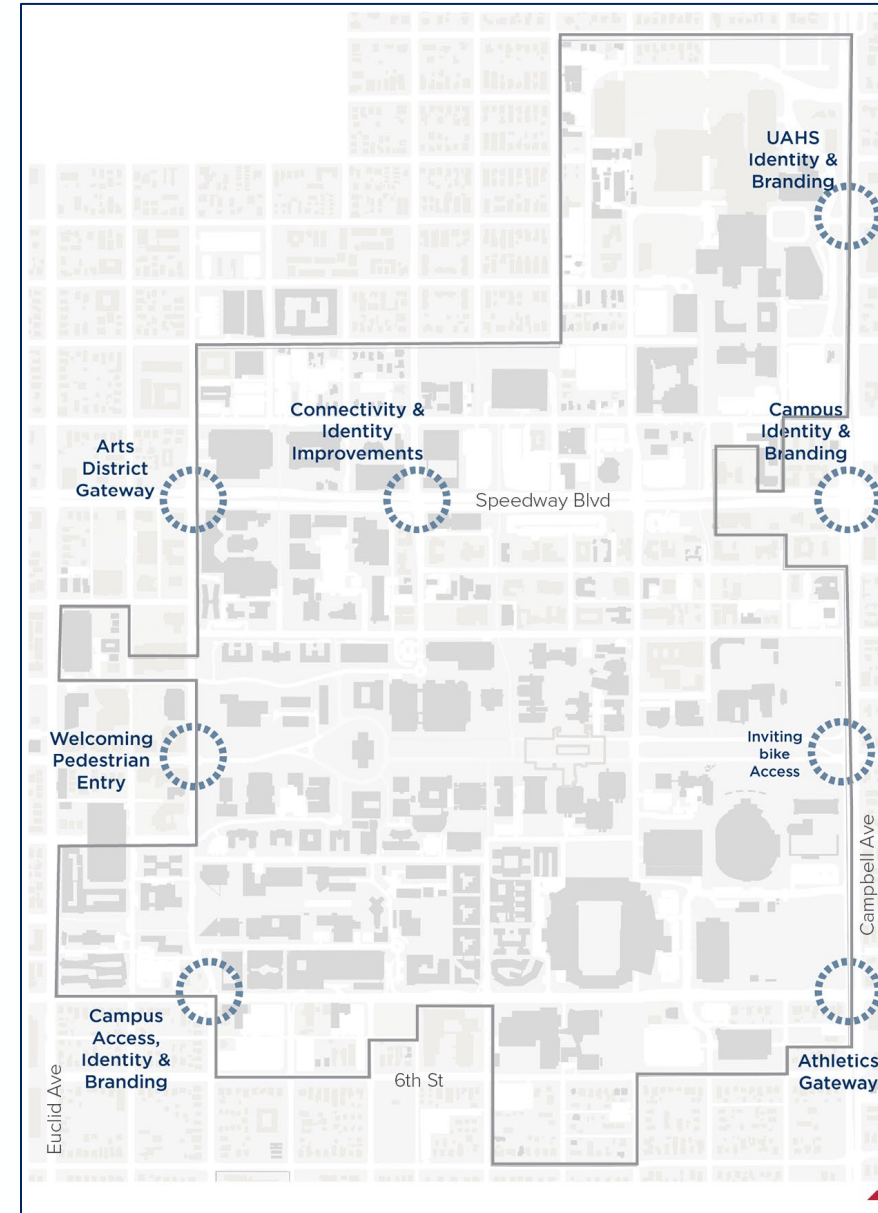
2019

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Topic: Gateways

Previous analysis of key gateway existing conditions focused on:

- 6th Street & Park Avenue
- 6th Street & Campbell Ave
- University Blvd & Park Ave
- University Blvd & Campbell Ave
- Speedway Blvd & Park Ave
- Speedway Blvd & Mountain Ave
- Speedway Blvd & Campbell Ave



Topic: Circulation

Rationalization of how to handle circulation, the connectivity of the plan

Steering Committee

SPECIFIC COMMENTS

- How do we move people on bikes, on foot, on golf cart, on car, other EVs?
- Create a more comprehensive framework for different modes of transportation
- Separate meeting or workshop for transportation
- Alignment with Sustainability and Planning
- Assess parking location and capacities

Topic: Circulation

- ⋯ Bike / Pedestrian (E-W)
- Bike / Pedestrian (N-S)
- Promenade
- Vehicular
- Parking



Topic: Transit

*Master Plan framework
needs to revisit transit
and pedestrian interface*

Steering Committee

SPECIFIC COMMENTS

- Give definition to open space and transit patterns
- We live in a desert, want to deal with heat islands – surface parking?
- We must figure out how to migrate outdoor spaces to handle increased pressure, hotter climate
- Integrate transit with public systems
- Think about scales of transit from public to transit
 - Are technical studies necessary for this?

Topic: Transit

— Sunlink Streetcar

• On-campus Routes

— Purple Line

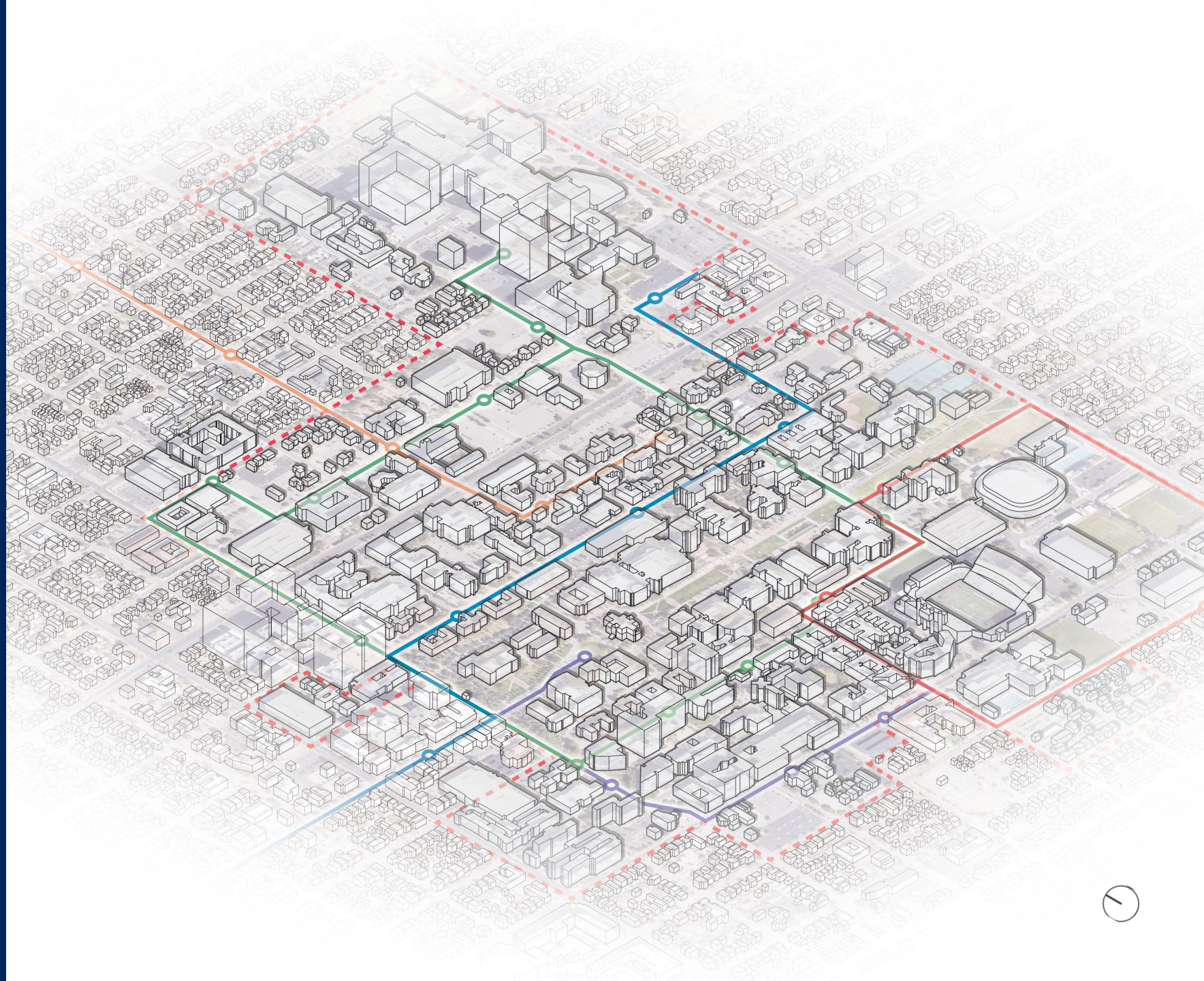
— Green Line

• Off-campus Routes

— Red Line

— Orange Line

• Policy and protocols?



Topic: Innovation

Innovation spaces need to be included in one way or another in every building.

Steering Committee

SPECIFIC COMMENTS

- Need overt and continuous attention to innovation spaces
- Innovation spaces need to be included in one way or another in every building
- Space typologies, attributes, and characteristics
- Discipline-specific resources
- Discovery space

Topic: Innovation

Innovation spaces need to be included in one way or another in every building.



Topic: Wayfinding

Review other options including website, mobile apps, and on-campus information.

Steering Committee

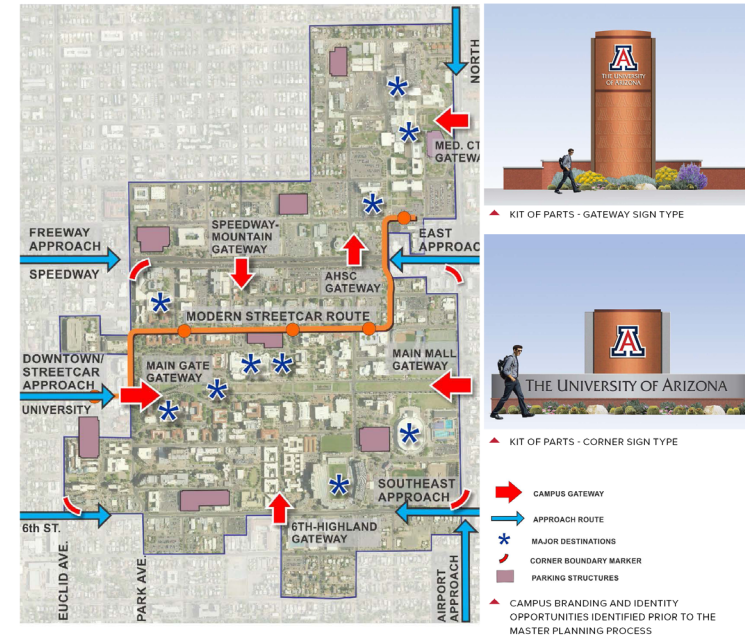
SPECIFIC COMMENTS

- How will wayfinding integrate with the master plan?
- Review branding, identity, and edge condition studies
- Review other options including website, mobile apps, and on-campus information
- Need to advance GIS models
- Showcasing sustainability and campus as a learning lab

Topic: Wayfinding

Review other options including website, mobile apps, and on-campus information.

BRANDING & IDENTITY



BRANDING & IDENTITY

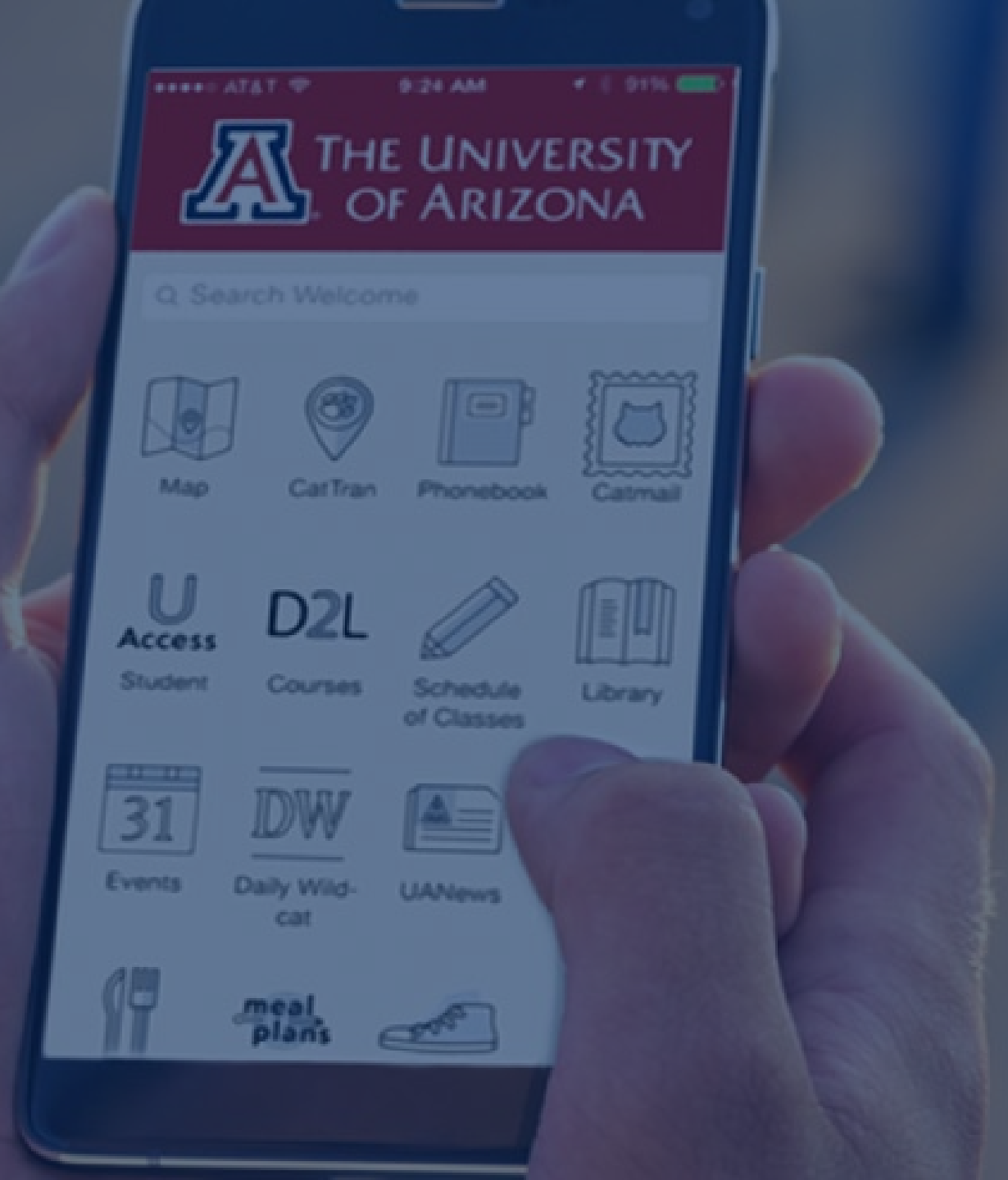
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- UArizona Gateways - identified a number of gateway access points into campus for signage.
- Approaches and Boundaries - prioritized the approaches and helped to identify potential improvements in the edges.
- Planned Improvements - identified specific projects with a coordinated effort with the City of Tucson that will enhance the experience of the campus entry sequences.

These concepts were identified prior to the master planning process and would need to be revisited after the process resumes.

Topic: Wayfinding

Review other options including website, mobile apps, and on-campus information.



Topic: Sustainability

*Master Plan framework
needs to revisit
circulation and
pedestrian interface*

Steering Committee

SPECIFIC COMMENTS

- Sustainability and climate action working group that will put out RFP this summer
- Give definition to open space: circulation, identify where the “oases” are
- We live in a desert, want to deal with heat islands and open space character
- Pandemic marked a pivot to more sustainable approach
- Elevate landscapes further: outside spaces more important than inside, a reflection of climate
- We must figure out how to migrate outdoor spaces to handle increased pressure, hotter climate
- Showcase sustainability and campus as a learning lab
- Other input...

Topic: Sustainability

- Bike Paths
- Sidewalks
- Landscaped Spaces
- Programmed Spaces
- Key Spaces

- Stormwater retention
- “Oases” / micro-climates
- Building performance
- Cultural connections



Discussion Point

- Do you see the campus differently over the past 2 years?
- Do we have new programs or initiatives that impact the master plan?



Discussion Point

- Any general thoughts about how the campus functions today?
- What impacts and changes have occurred regarding providing work and services?





Process and Topics for Next Session

Sustainability

YOUR LAST INPUT

FUTURE ASPIRATIONS EXERCISE (SUSTAINABILITY FOCUS GROUP)

PHYSICAL ENVIRONMENT

Improve campus open spaces including transitioning to away from non-native water intensive plantings and increasing campus tree canopy (25% target mentioned)

Live Green: Use the built environment to connect people, inspire, educate, and facilitate interactions

Landscape framework plan & landscape coordination committee

Increased multi-modal infrastructure/connectivity through campus and into surrounding communities

Treat stormwater as a utility

Goal: Stop burning fossil fuels

Greater integration of smart building techniques and technologies (ex: PV panels, motion-activated lighting, etc.)

MOBILITY & TRANSIT

More electric vehicle charging stations

Alternative fuel Cat-tran shuttles

Adopt green/living streets approach to campus mobility networks

Reduce the am-amount of traffic allowed in the interior of campus

Improve, maintain, and increase bicycle path and parking infrastructure

Policies that support increased use of campus and public transit infrastructure

FUTURE ASPIRATIONS EXERCISE (SUSTAINABILITY FOCUS GROUP)

PEOPLE

Universal access and design goal for all existing and future buildings

Social Justice: Understand how we can appropriately advocate and support underrepresented voices including HSI and Native Americans

Participation in more organizations that promote sustainability, Social Justice, and resiliency (ex: University Climate Change Coalition)

Dedicated staff to bridge between academic, research, and student efforts using the campus as a living lab

OPERATIONS

Create cohesive institution-wide policies and targets around waste, water management, sustainable procurement and contracting, and paper usage reduction

Set targets and roadmaps for Carbon Neutrality and Carbon Negative (by 2040?) operations

Limit new construction and focus on existing building renovation and repurposing due to embodied carbon

Increase opportunities to work with the City of Tucson on achieving mutual goals

EDUCATION & OUTREACH

Sustainability literacy Gen Ed requirement for students and orientation training for faculty and staff

"Toot our horn" - Expand communication about what we do and expand/increase visibility of existing programs/competitions

Find ways to showcase diverse cultures, background, & history

Create/expand formal applied research structures



WORKSHOP 04 - FOCUS GROUP NOTES

- Master Plan needs to consider the "People" component, but this is a much larger topic that extends beyond the Master Plan - the Master Plan should encourage support of students and understanding of the unique UA context in regards to Hispanic, Native American, and other underrepresented populations
- Meaning of Sustainability to UAArizona
 - Triple bottom line: People, Climate, and Economics
 - "Environmentally sound, Socially Just, Economically viable"
 - Philosophical set of values we embed into the students education and experience so that they can carry it forward
 - University of Arizona setting an example to the world
- Urgency for sustainability will increase over the next 10 years (life of Master Plan)
 - More ubiquitous and locally focused
- The Office of Sustainability (newly formed) had a very short period of time to prepare content for the Strategic Plan - if they could re-do today it would be more specific
- Find a way to capture future targets from exercise as aspirations

STRATEGIC PLAN ALIGNMENT - EXTRACTS

- Institutionalize commitment to Hispanic, Native American, and underrepresented voices
- Live our core values
- Sustainability and resiliency throughout UA Operations
- Campus culture of sustainability and community partnership



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POTENTIAL RECOMMENDATIONS

- Create a value statement for MP (PDC + ASG + Office of Sustainability)
- Communication recommendations: engage marketing and communications department to communication & signage package
- Recommendation for a landscape master plan that takes a closer look at landscape standards and guidelines, and identifies opportunities to reduce turf and improve % native landscape to cut down on water costs and usage
- Advocate the continued consideration of strategies that will reduce UA's reliance on fossil fuels
- Increase tree canopy and shade through native plantings to improve campus experience
- Advocate for policies and programs that promote sustainability-related education and outreach both on and off campus (partner with community)
- Support policies that advance Social Justice
- Include Strat Plan Sustainability items in MP

Your Last Input

January – March 2020

PAST ACHIEVEMENTS

PHYSICAL ENVIRONMENT Sustainable design Stimulate growth using green infrastructure	PHYSICAL ENVIRONMENT LEED Silver	MOBILITY & TRANSPORT Increased parking for staff campus use of shuttles busses to busier	OPERATIONS Full part of Sustainability plan normative to all housing RFPs	PHYSICAL ENVIRONMENT LEED Sustainable Water Midwest Water
EDUCATION & OUTREACH 11 years of dorm utility companies	PHYSICAL ENVIRONMENT Energy efficient local college of Sustainable Design (LEED)	PHYSICAL ENVIRONMENT Save water conserving dormitory transient campus	PHYSICAL ENVIRONMENT LEED University of Arizona	PHYSICAL ENVIRONMENT LEED UNIVERSITY of ARIZONA
EDUCATION & OUTREACH Collected over 100,000 lbs for Dodge the Dumpster 2019	PHYSICAL ENVIRONMENT Water reuse for general plant	PHYSICAL ENVIRONMENT 2 LEED PLANT Dorms	PHYSICAL ENVIRONMENT LEED UNIVERSITY of ARIZONA	PHYSICAL ENVIRONMENT LEED UNIVERSITY of ARIZONA
EDUCATION & OUTREACH Hosted at-dorm Recycle Party competition for over 13 years	PHYSICAL ENVIRONMENT LEED Low-flow fixtures installed in dorms	MOBILITY & TRANSPORT Cold Bidding Line.	PHYSICAL ENVIRONMENT LEED UNIVERSITY of ARIZONA	PHYSICAL ENVIRONMENT LEED UNIVERSITY of ARIZONA
EDUCATION & OUTREACH Trained all Residence Staff on Utility reporting in 2019 over 1000 people	MOBILITY & TRANSPORT Bike Sharing Program increased to 50%.	MOBILITY & TRANSPORT Bike Sharing Program increased to 50%.	PHYSICAL ENVIRONMENT LEED UNIVERSITY of ARIZONA	PHYSICAL ENVIRONMENT LEED UNIVERSITY of ARIZONA
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CURRENT INITIATIVES

EDUCATION & OUTREACH Earth Hour	EDUCATION & OUTREACH Earth Hour	MOBILITY & TRANSPORT Natural Bicycle Lane Designation	OPERATIONS 2020 Sustainability Reporting starting 2021	PEOPLE People connections to space design for better work and learning environments	PHYSICAL ENVIRONMENT LEED SILVER MIDWEST WATER REQUIREMENT
EDUCATION & OUTREACH Recycling program	EDUCATION & OUTREACH Recycling program	MOBILITY & TRANSPORT Bike Sharing Program increased to 50%.	OPERATIONS 2020 Sustainability Reporting starting 2021	PHYSICAL ENVIRONMENT LEED SILVER MIDWEST WATER REQUIREMENT	PHYSICAL ENVIRONMENT LEED SILVER MIDWEST WATER REQUIREMENT
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FUTURE ASPIRATIONS

EDUCATION & OUTREACH Expand Lacrosse to cover dorms	EDUCATION & OUTREACH Expand Lacrosse to cover dorms	MOBILITY & TRANSPORT Bike Sharing Program increased to 50%.	OPERATIONS 2020 Sustainability Reporting starting 2021	PEOPLE People connections to space design for better work and learning environments	PHYSICAL ENVIRONMENT LEED SILVER MIDWEST WATER REQUIREMENT
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Your Last Input: Past Achievements

January – March 2020

EDUCATION & OUTREACH

11 years of dorm utility competitions

EDUCATION & OUTREACH

Collected over 100,000 lbs for Dodge the Dumpster 2019

MOBILITY & TRANSIT

Limited parking for 50k+ campus- use of alternate transit programs to offset

MOBILITY & TRANSIT

EV charging stations increased to 23 from 3

EDUCATION & OUTREACH

Hosted all-dorm recycle mania competition for over 13 years

EDUCATION & OUTREACH

Trained all housing staff (student + professional) in 2019 over 1,000 people

MOBILITY & TRANSIT

60% of students don't drive to campus

MOBILITY & TRANSIT

50% subsidy for UPASS

OPERATIONS

Addition of sustainability questionnaire to all housing RFPs

MOBILITY & TRANSIT

Gold bicycling unw.

Your Last Input: Past Achievements

January – March 2020

PHYSICAL ENVIRONMENT
Significant on-site stormwater mgmt. using green infrastructure & water harvesting

PHYSICAL ENVIRONMENT
LEED Silver

PHYSICAL ENVIRONMENT
Low flow fixtures installed in dorms

PHYSICAL ENVIRONMENT
Campus arboretum

PHYSICAL ENVIRONMENT
ENR2- current best example of sustainable design at UA

PHYSICAL ENVIRONMENT
Passive water harvesting demonstrations throughout campus

PHYSICAL ENVIRONMENT
ENR2 landscape & water harvesting

PHYSICAL ENVIRONMENT
Community gardens

PHYSICAL ENVIRONMENT
Historic preservation plan

PHYSICAL ENVIRONMENT
2 LEED Platinum dorms

PHYSICAL ENVIRONMENT
CAPLA underwood garden

PHYSICAL ENVIRONMENT
Campus arboretum

Your Last Input: Current Initiatives

January – March 2020

EDUCATION & OUTREACH

- Public education
- workshops
- Community of Engagement
- Training

EDUCATION & OUTREACH

Greening the games with athletics

EDUCATION & OUTREACH

ENR2 agrivoltaic project

EDUCATION & OUTREACH

Battle of the utilities

EDUCATION & OUTREACH

Earth Hour

EDUCATION & OUTREACH

Recycle mania

EDUCATION & OUTREACH

Annual downtown exhibit in Tuscon – envisioning city as carbon + water neutral in 2050 – led by CAPLA

EDUCATION & OUTREACH

Eco-reps peer education

EDUCATION & OUTREACH

Collaboration / sponsor between CAPLA studio courses & city + county e.g. TDOT, flood control, city manager, county sustainability

EDUCATION & OUTREACH

Sustainability action plan for main campus is being drafted by office of sustainability

EDUCATION & OUTREACH

Dodge the dumpster

EDUCATION & OUTREACH

Waste signage

Your Last Input: Current Initiatives

January – March 2020

PHYSICAL ENVIRONMENT

LEED Silver facility requirement

PHYSICAL ENVIRONMENT

-Building projects to include adjacent land development

MOBILITY & TRANSIT

Platinum bicycling university designation

MOBILITY & TRANSIT

Park-n-Ride / walk lots

PHYSICAL ENVIRONMENT

Water & energy efficiency demonstration projects at CAPLA

PEOPLE

- Creating connections to spark new ideas & initiatives (our focus on environment, but broader too)
- Linking cross-campus

MOBILITY & TRANSIT

Tucson bike share

MOBILITY & TRANSIT

Campus bus valet program

OPERATIONS

100% renewable grid-based electricity starting 2021

OPERATIONS

Open new computing facility in Rio Rico, AZ

Your Last Input: Future Aspirations

January – March 2020

EDUCATION & OUTREACH

Campus wide sustainability training (intro knowledge) (new student orientation)

EDUCATION & OUTREACH

Demonstration of diverse culture

EDUCATION & OUTREACH

Expand lucid to cover dorms

EDUCATION & OUTREACH

Providing public education to raise awareness

EDUCATION & OUTREACH

Sustainability integrated into all new student + new staff / faculty orientations

EDUCATION & OUTREACH

Sustainability literacy gen. ed requirement for all U Arizona graduates

EDUCATION & OUTREACH

Create structures to formally connect UA urban env. research to campus as an applied lab/setting for research

EDUCATION & OUTREACH

Change people behavior about waste and waste management

EDUCATION & OUTREACH

Expand engagement in sustainability competitions in dorms

EDUCATION & OUTREACH

Expand achievement communication globally

EDUCATION & OUTREACH

“Toot our horn” about sustainability achievements

EDUCATION & OUTREACH

Change the outreach and public education

Your Last Input: Future Aspirations

January – March 2020

MOBILITY & TRANSIT

More EV charging stations

MOBILITY & TRANSIT

Increased Sun Tran usage

MOBILITY & TRANSIT

Less traffic allowed in interior of campus

MOBILITY & TRANSIT

Bike paths & bike parking maintained & increased

MOBILITY & TRANSIT

Alternative fuel Cat Tran shuttles

MOBILITY & TRANSIT

Adopt a green / living streets approach to campus circulation network

MOBILITY & TRANSIT

Increased Cat Tran service

Your Last Input: Future Aspirations

January – March 2020

PHYSICAL ENVIRONMENT

Formalize a green infrastructure initiative program

PHYSICAL ENVIRONMENT

Need landscape framework plan

PHYSICAL ENVIRONMENT

Increased multi-model connectivity to Tucson + surrounding neighborhoods

PHYSICAL ENVIRONMENT

Greater integration of PV instead of “solar ready” just do the solar

PHYSICAL ENVIRONMENT

Build the sciences concourse open space!

PHYSICAL ENVIRONMENT

All landscape development to be arid lands oriented

PHYSICAL ENVIRONMENT

Need landscape coordination committee!

PHYSICAL ENVIRONMENT

ENR2 landscape & water harvesting

PHYSICAL ENVIRONMENT

More motion-sensor lighting in dorms

PHYSICAL ENVIRONMENT

Transition from water-intensive / irrigation heavy plantings on main campus (native, drought-tolerant, pollinator friendly)

PHYSICAL ENVIRONMENT

Continuing to create inspiring spaces on campus- facilitate cross-campus interaction + inspire folks to learn + live green

PHYSICAL ENVIRONMENT

Update surface water master plan

PHYSICAL ENVIRONMENT

Treat stormwater as a utility

PHYSICAL ENVIRONMENT

25% + tree canopy on campus

Your Last Input: Future Aspirations

January – March 2020

OPERATIONS

Cohesive waste policies, recycling

OPERATIONS

Focus on local, urban food procurement

OPERATIONS

Net positive urban water footprint working with Tucson community

OPERATIONS

Moving toward all electronic “paperwork”
...agendas
...FSO requirements
...etc.

OPERATIONS

Adopt a “one water” approach to water mgmt. on campus (join / follow regional trends on this)

OPERATIONS

Focus on sustainable procurement + contracting, including in built environment & LEED EBOM

OPERATIONS

- Reduce food waste
- Nothing useful should go in landfill

OPERATIONS

Sustainable procurement, investing + contracting policies for U Arizona

OPERATIONS

Carbon negative in all university operations by 2040

OPERATIONS

Improve social and environmental justice

Your Last Input: Future Aspirations

January – March 2020

PHYSICAL ENVIRONMENT

Goal- plant more trees (heat island, shade, carbon sequestration, ecosystem services)

PHYSICAL ENVIRONMENT

Goal- reduce grass & overseeding

PHYSICAL ENVIRONMENT

Goal- stop burning fossil fuel (nat. gas)

PHYSICAL ENVIRONMENT

Goal- capture / use more rainwater

PEOPLE

Reach out more community on-campus / out of campus

PEOPLE

Engage community within

PEOPLE

Dedicated staff to bridge between academic, research, & student efforts and using the campus as a living lab

PEOPLE

Diverse cultural centers

PEOPLE

Universal access

PEOPLE

Continue to educate (esp. undergrads) on sustainability engagement. e.g. res life = key!

PEOPLE

University climate change coalition + enhancing climate resiliency

PEOPLE

How does High School influence campus environment?

Your Last Input: Key Takeaways

Past Achievements

- LEED certified bldgs. (i.e., ENR2)
- Dorm recycling competition (Dodge the Dumpster, Recycle Mania-- student engagement)
- Increase alternate transit (bicycling, charging stations, public transit / park-n-rides)
- Landscaping / water mgmt. / harvesting
- Increased sustainability education to staff and students

Current Initiatives

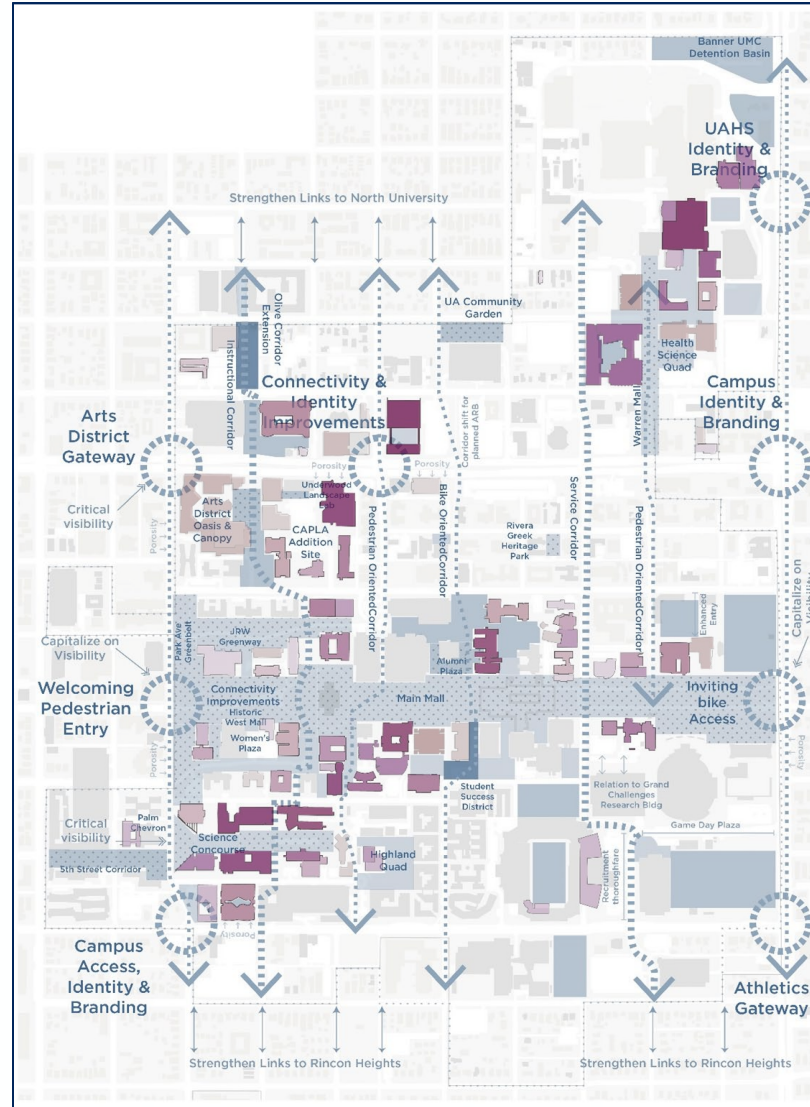
- Past Achievements PLUS...
- Sustainability Action Plan
- Increase public outreach / connections
- Increase water & energy efficiency

Future Aspirations

- Increase public transit usage, more bike paths & parking
- Increase student / staff engagement, education, awareness campus-wide
- Reduce food waste
- Carbon negative by 2040
- Water: Net positive footprint & stormwater mgmt.
- Landscaping: Coord. Committee
- Clean energy

Site Plan Hubs

- 6th Street
 - 6th Street & Park Ave
 - 6th Street & Campbell Ave
- University Blvd
 - University Blvd & Park Ave
 - University Blvd & Campbell Ave
- Speedway Blvd
 - Speedway Blvd & Park Ave
 - Speedway Blvd & Mountain Ave
 - Speedway Blvd & Campbell Ave
- Adams St & Campbell Ave

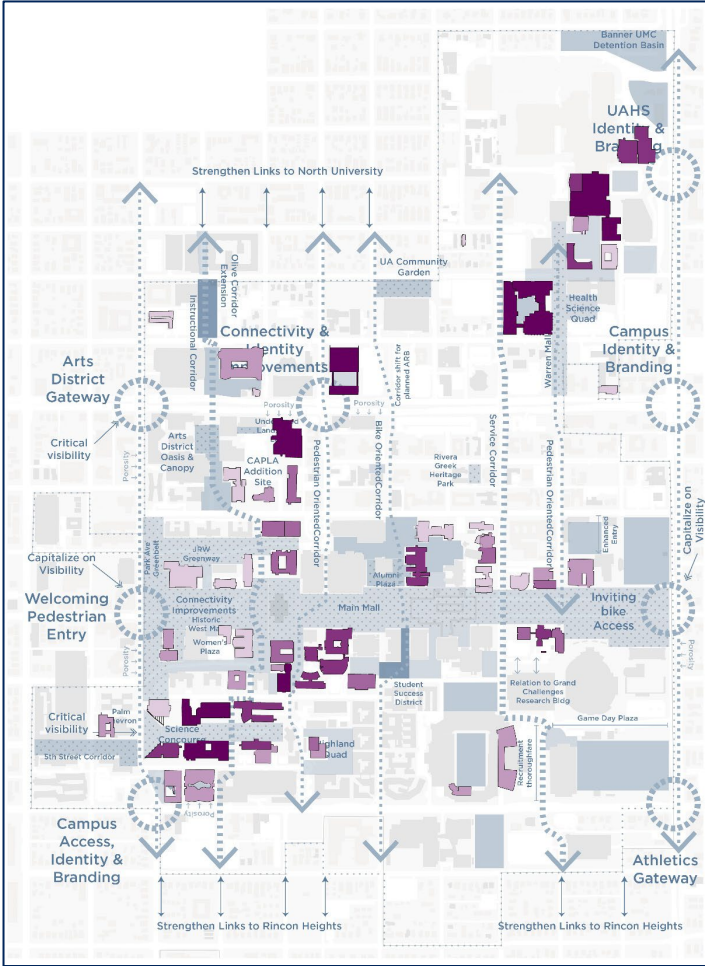
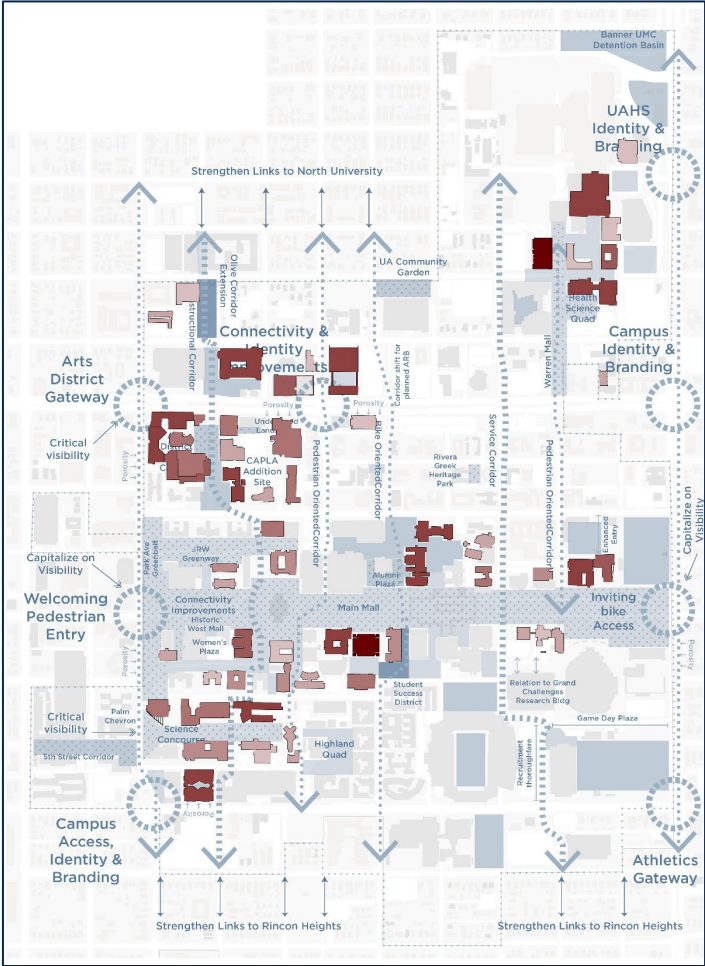
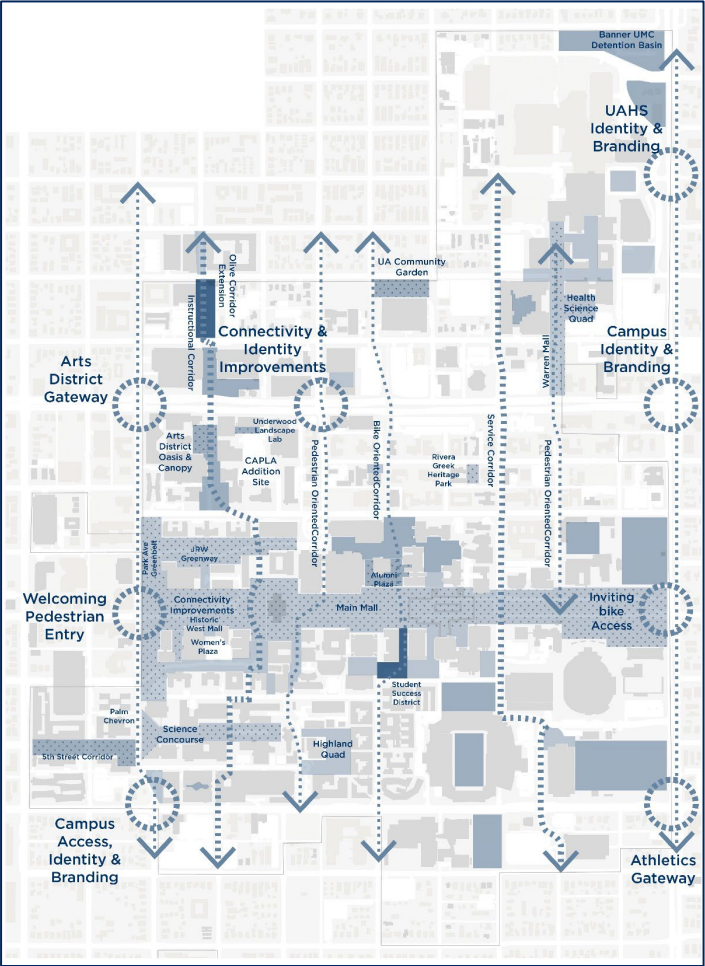


Site Plan Hubs

Gateways and Open Spaces

Instructional Hubs

Research Hubs



Workshop Exercise

Describe Health and Wellness and how should the University support it?

Previously Answered...	Agree	No Opinion	Disagree
Today's students have great awareness of health and wellness topics, and their access to resources is a critical component of their higher education experience.			
Today's students have great mental health awareness and balance is especially important today.			
Ensuring easy access and awareness to resources is a challenge. We need to reach students online, in-person, at events, and be in a physical location that makes it easy for them to utilize resources.			
University leadership can better support health and wellness.			
Integrated wellness programming for employees needs to be highlighted as pillar.			

Workshop Exercise

How does Sustainability interconnect with health and wellness?

Previously Answered...	Agree	No Opinion	Disagree
Sustainability should be a “red thread” and integrated with everything at UA.			
All staff, services, and resources address sustainability in a different way. Collectively, it is about breaking silos and improving our campus and community.			
Cultural sustainability (diversity, equity, inclusion, etc.) is a huge health and wellness driver.			

What else?

Workshop Exercise

(From Research)

*How does sustainability
interconnect with
research at the
University?*

Previously Answered...	Agree	No Opinion	Disagree
Through sustainable facilities, but we need to be careful about what this means (i.e.: “net zero” goal established for CIM) and set achievable goals.			
Sustainability is multiple lenses – triple bottom line – economic, environmental, cultural, and social.			
Re-purpose buildings as appropriate – let this be a sustainable value/ethic for UA.			

Workshop Exercise

(From Instructional)

*How does Sustainability
interconnect with
teaching, learning, and
student success?*

Previously Answered...	Agree	No Opinion	Disagree
Cultural sustainability entails support for student success in all its definition while they are at UA.			
Institutional cultural sustainability means that we have policies and spaces that will support our continued success in achieving our mission.			
Universal Access & Design is an over-riding principle moving forward.			
Sustainability is seen as a value for current students; each subsequent generation values it more and more.			

Workshop Exercise

(From Instructional)

*How does Sustainability
interconnect with
teaching, learning, and
student success?*

Previously Answered...	Agree	No Opinion	Disagree
Perception is that ENR2 and the Rec Center are sustainable – but opportunity to better explain/promote sustainability messages to improve awareness.			
Opportunity to use campus as a living lab to advance sustainability.			
Academic/teaching bridges to community impact.			
Older buildings present sustainability challenges, but are also opportunities.			

Next Steps

- Determine the next meeting and what format it will be in
- What other information is useful to you from other groups?



Next Steps

SUSTAINABILITY AND WELLNESS

Programmatic

- Develop and depict comprehensive service model for Health and Wellness
- Develop the scope for the Sustainability MP and describe KEY drivers for the Campus
- Consider the sequence of topics and implementation
- Better Capture current accomplishments

Typologies

- Develop definition and strategies for:
 - Programs and educational aspects
 - Building performance
 - Campus and environmental quality
 - Operational Protocols
 - Cultural sustainability and Organizational development

Physical Planning

- Use the Masterplan to identify the topics and intersections supporting the Sustainability MP
- Develop long term infrastructure systems and parameters
- Calibrate Frameworks for Transit, Circulation, Utilities, Campus capacity, Natural Resources and Environmental quality and others to match current practices.



Thank You!