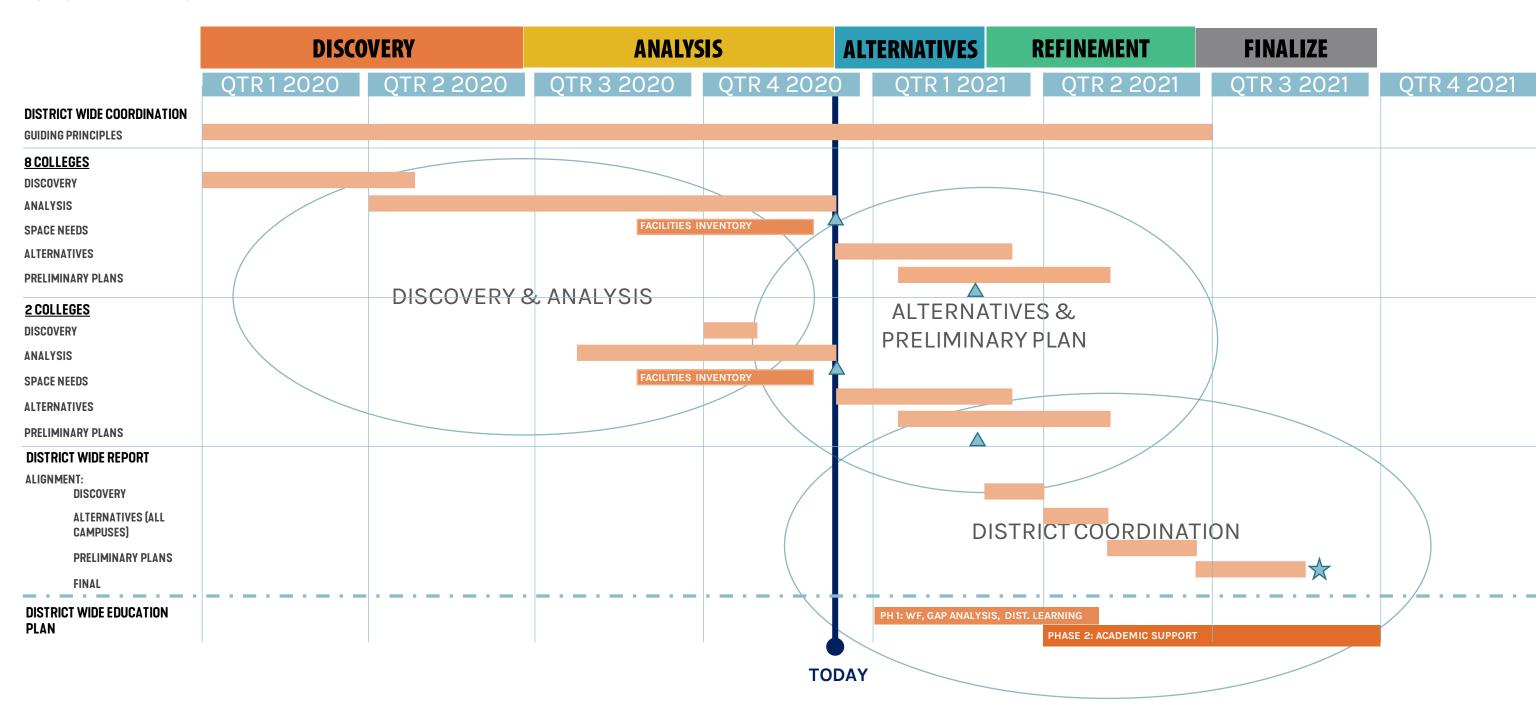


IT'S A GREAT TIME TO PLAN FOR THE FUTURE

TODAY'S AGENDA

- 1) PROCESS & VISION FEEDBACK
- 2 REGIONAL ANALYSIS
- 3 STUDENT DEMOGRAPHICS
- 4) SPACE INVENTORY & UTILIZATION
- (5) PHYSICAL ANALYSIS
- 6 NEXT STEPS

SCHEDULE





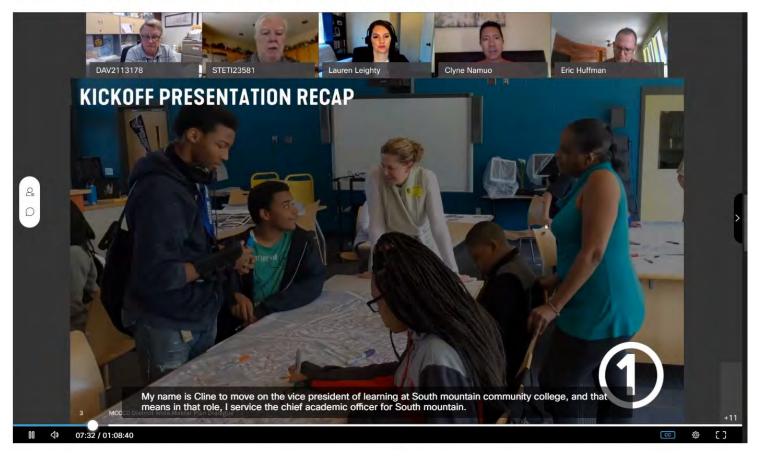
DISCOVERY: KICKOFF VISITS







MCCCD Steering Committee Vision Session (South Mountain CC)-2020050... 💆 🐇



FROM IN-PERSON



ESTRELLA MOUNTAIN CC

WHAT WE HEARD



This plan will be successful if we continue with the positive, open-to-all discussions that currently happen at all levels of leadership.

Students graduate feeling capable and confident in their

Any plan we come up with will be successful if we think through it carefully, work together, and follow through.

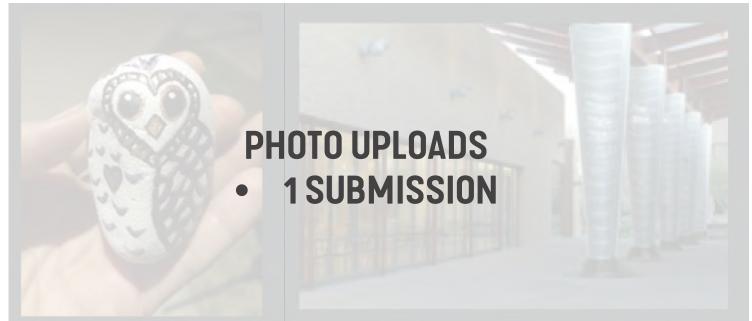
THIS PLAN WILL BE SUCCESSFUL IF...

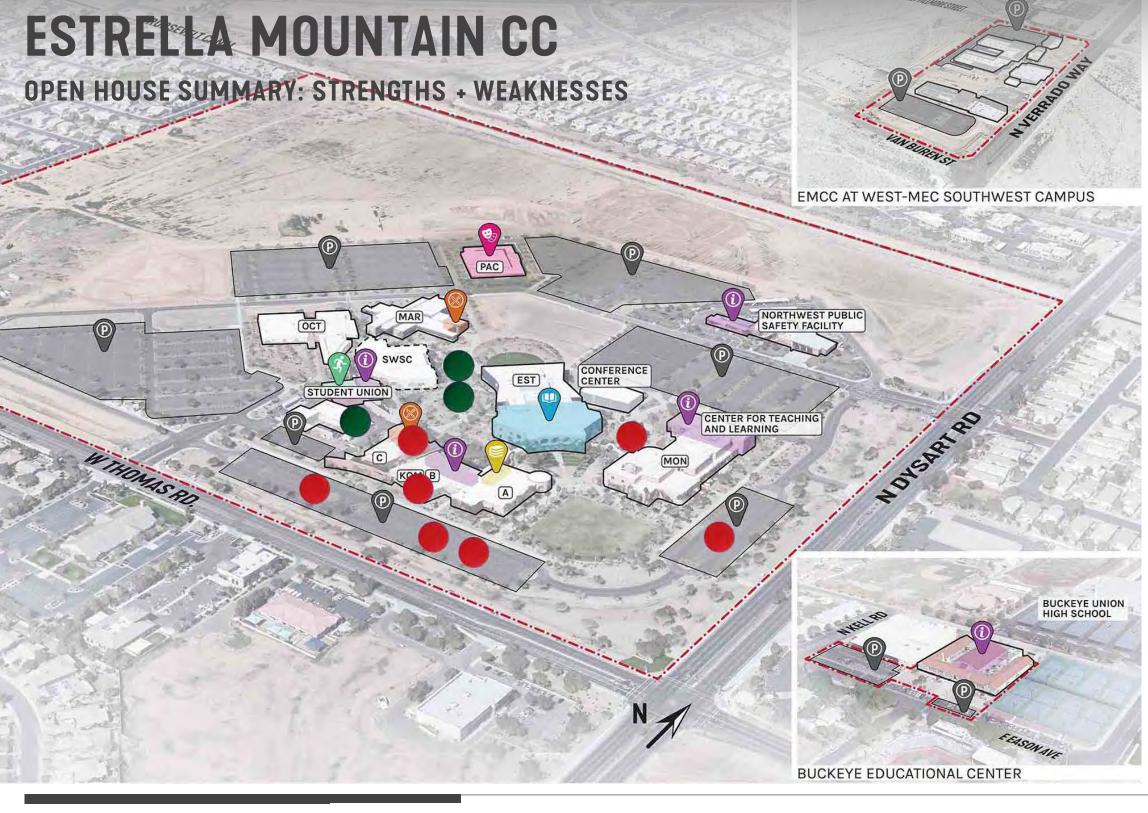
11 RESPONSES

If each individual college considers the good of all students in the district first and not necessarily what is just good for one campus. "We all have input. We remember those who made the school possible, founding and long term faculty, a place for all who spend time here to leave a mark."

it is well thought-out, enables growth for students and faculty, and is scalable.







STRENGTHS

- Aesthetics
- Open Space
- Architecture
- EST 1st floor
- Service Area

WEAKNESSES

- Parking amount and shade
- Street Visibility for first time visitors
- Komatke hall flow and space
- Building Wayfinding

ESTRELLA MOUNTAIN CC

EMERGING THEMES







CTE

- Expand West-MEC
- Focus on Nursing and expand other Allied Health disciplines
- Be flexible and respond to workforce demands with programs offered

STEM

- Continue to focus on advancing technology
- Expand partnerships and internships like Microsoft

CAMPUS + COMMUNITY

- Buckeye School District
- Focus on West Valley Communities
- Expand student services, dining, collaboration spaces

EMCC FEEDBACK & EMERGING THEMES

QUESTIONS

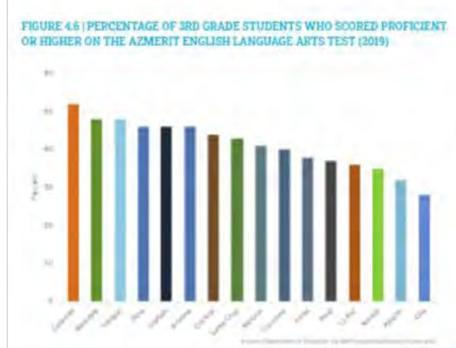
Do these emerging themes seem to capture our goals for the Facilities Plan?

Do the perceived strengths and weaknesses resonate?

How might we best leverage the student voice moving forward?



DISTRICT-WIDE ENVIRONMENTAL SCAN



MCCCD Environmental Scan . June 2020

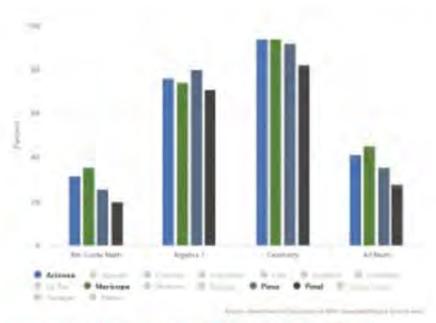


FIGURE 4.7 PERCENTAGE OF 6TH GRADE STUDENTS WHO SCORED PROFICIENT OR HIGHER ON THE AZMERIT MATH TEST (2019)

HOW DO WE COMPARE?

In English language arts, which tests reading and writing skills, 52% of third graders in Greenlee County met or exceeded the state proficiency standards. Maricopa and Yavapai counties tied for second with 48%, with Pima County at 46%. Arizona's counties varied substantially. Five counties scored equal to or higher than the state average of 46%. The remaining counties scored in the 20% to 40% range, with no counties scoring below 28%.

Maricopa County was the top performer for students scoring proficient or higher on the eighth-grade AzMerit test at 36%. Both Pima (26%) and Pinal (20%) counties were below the state average of 32%. Apache County had among the lowest scores in both English language arts and math, which reflects the low test scores among Arizona's Native American students.

Some students in the eighth grade take advanced placement math courses such as Algebra 1 and Geometry. Of the eighth-grade students taking these advanced math courses, a high percentage tested proficient or above.

All math refers to those eighth-grade students who tested proficient or above on at least one of the following assessments: grade 8 math, Algebra 1, Algebra 2, or Geometry.



Value of the Environmental Scan

- Allows campus leadership to proactively respond to external impacts through a more informed facility planning process.
- Opportunity to engage stakeholders from across the district to address district-wide challenges.

CH1: DEMOGRAPHIC TRENDS

CH2: GIS DATA & MAPS

CH 3: COLLEGE READINESS

CH 4: BEST PRACTICES FOR HISPANIC SERVING&

MINORITYINSTITUTIONS

CH 5: ECONOMIC TRENDS

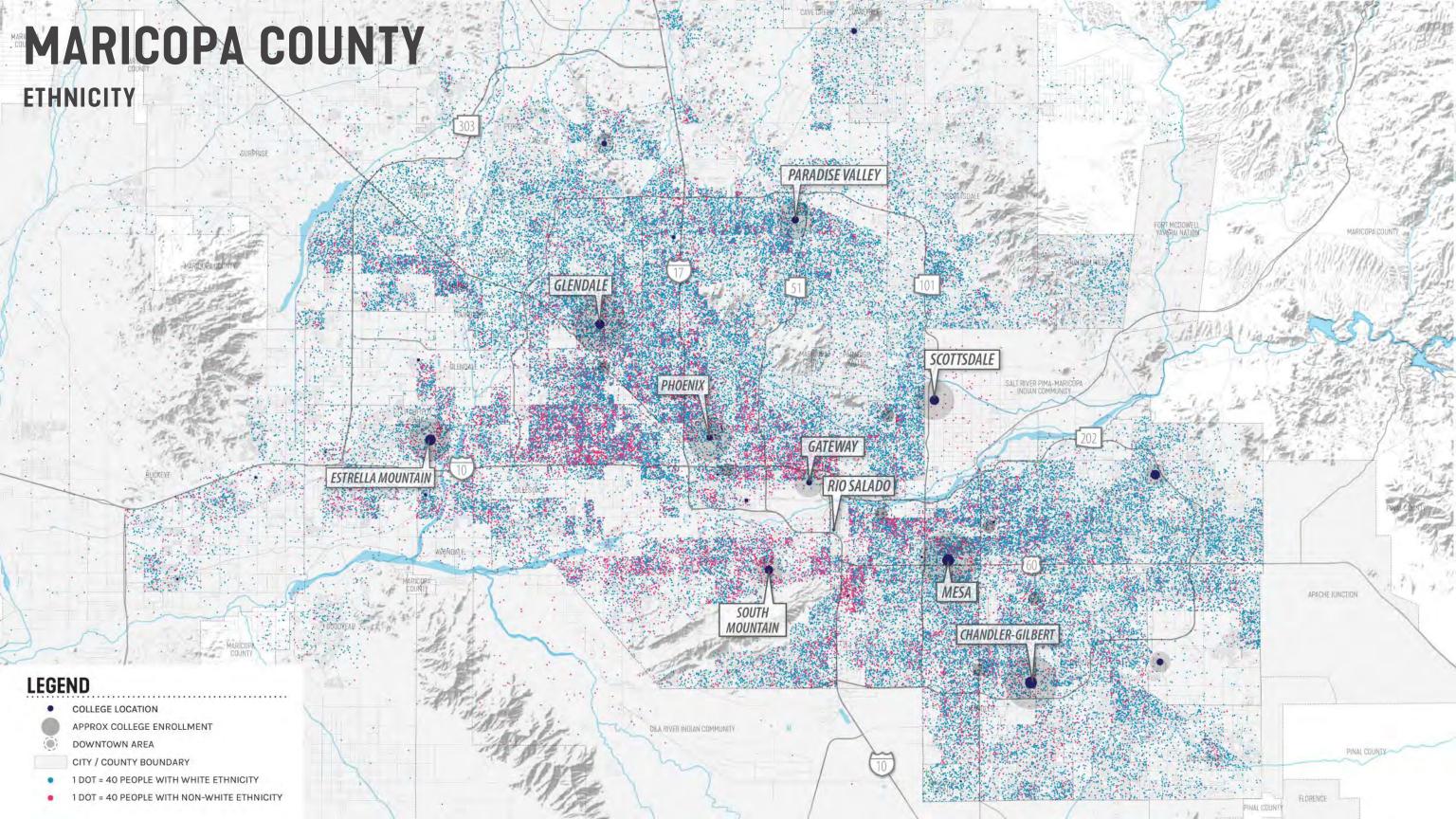
CH6: WORKFORCETRENDS

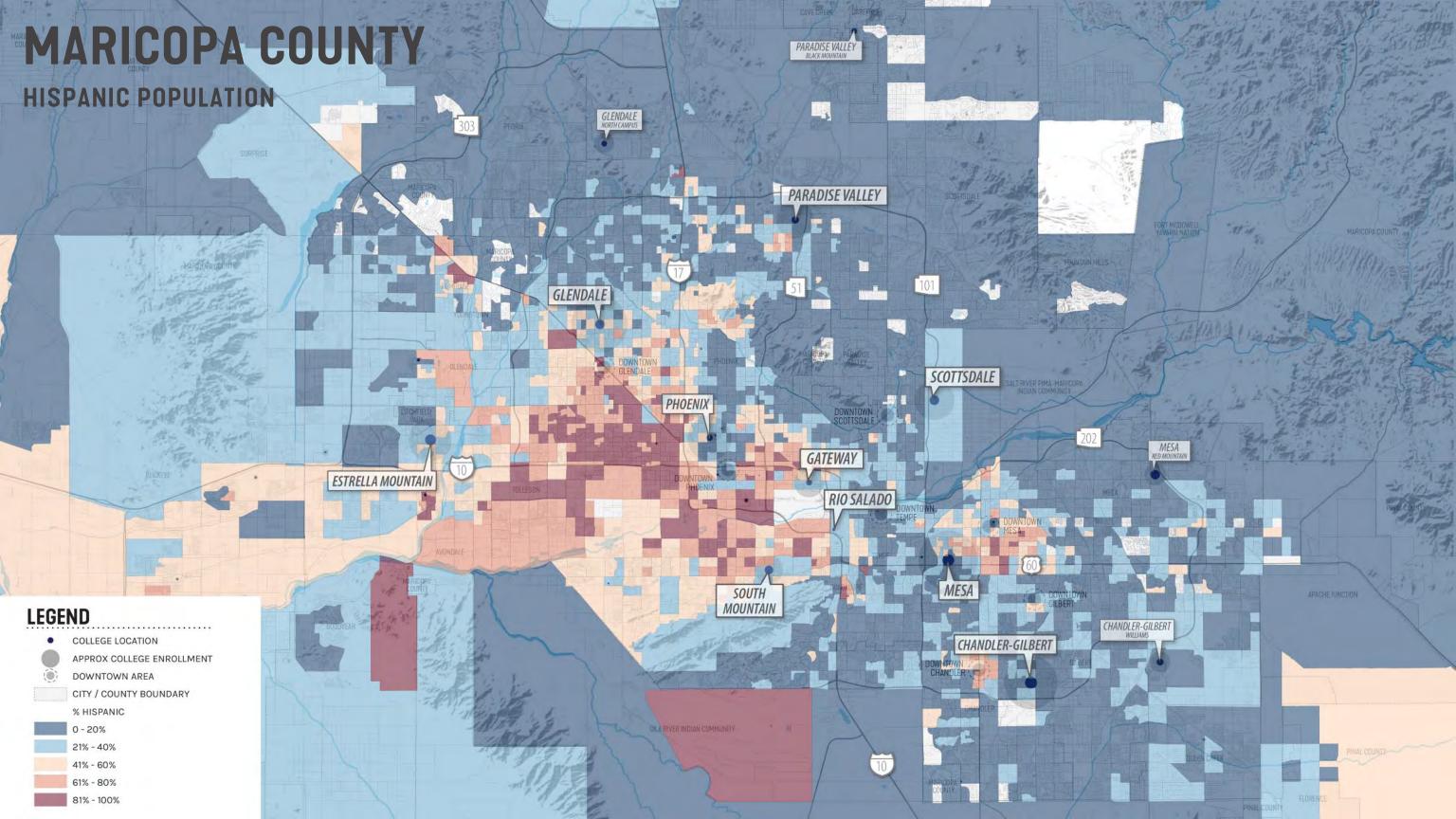
CH7: TECHNOLOGYTRENDS

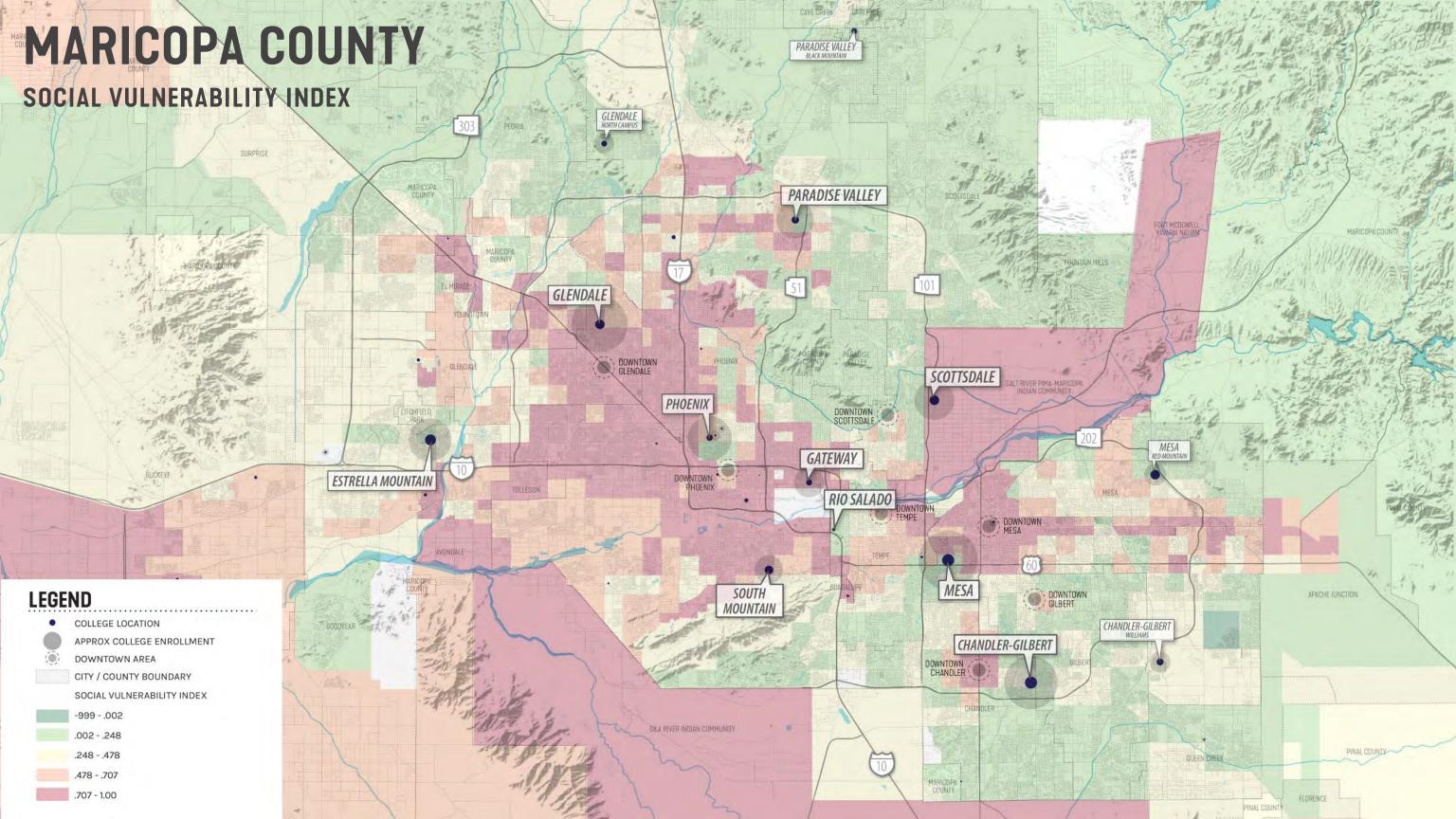
CH8: POLITICAL TRENDS

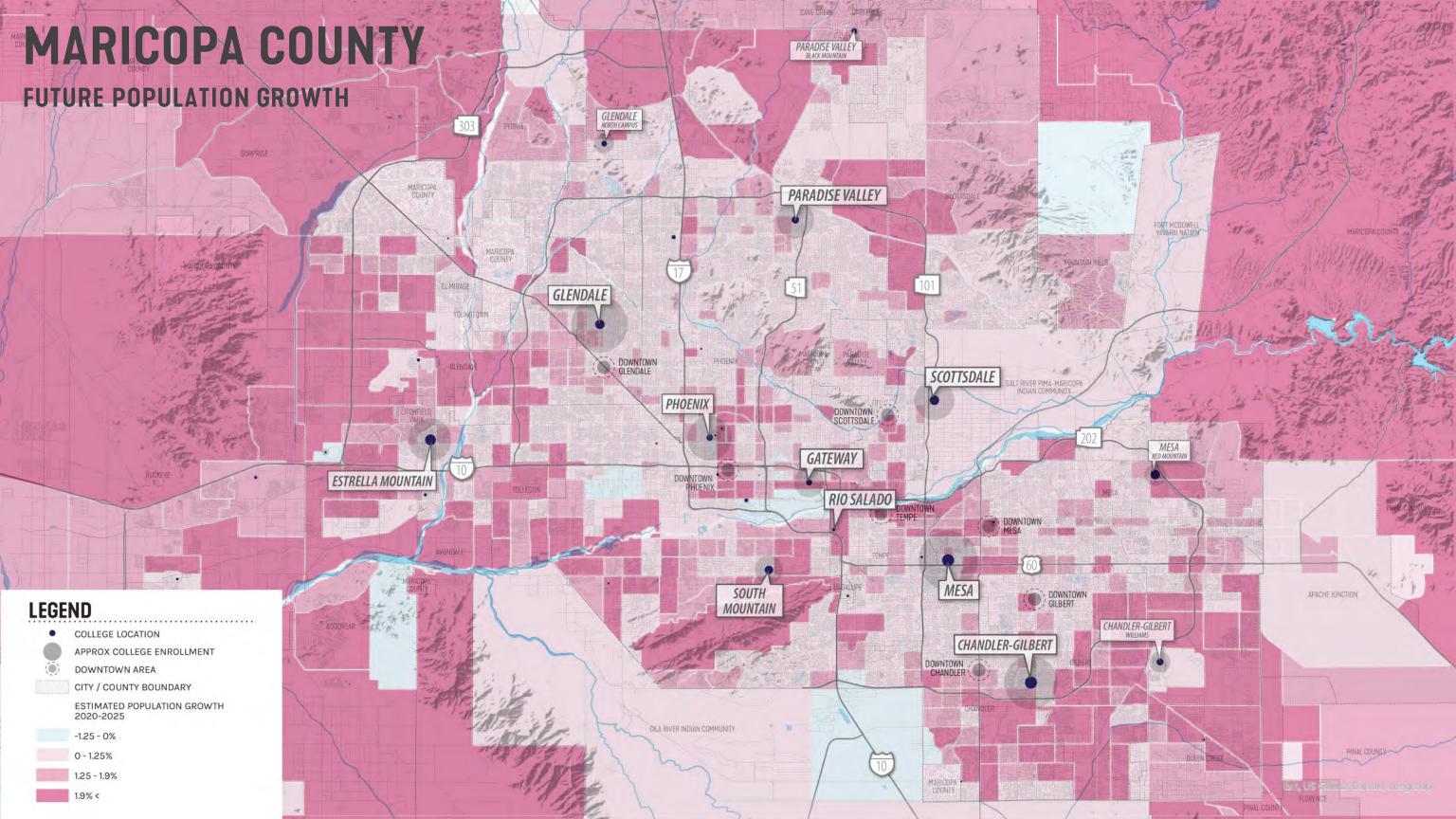
CH9: ENROLLMENT& CAPTURE RATE ANALYSIS

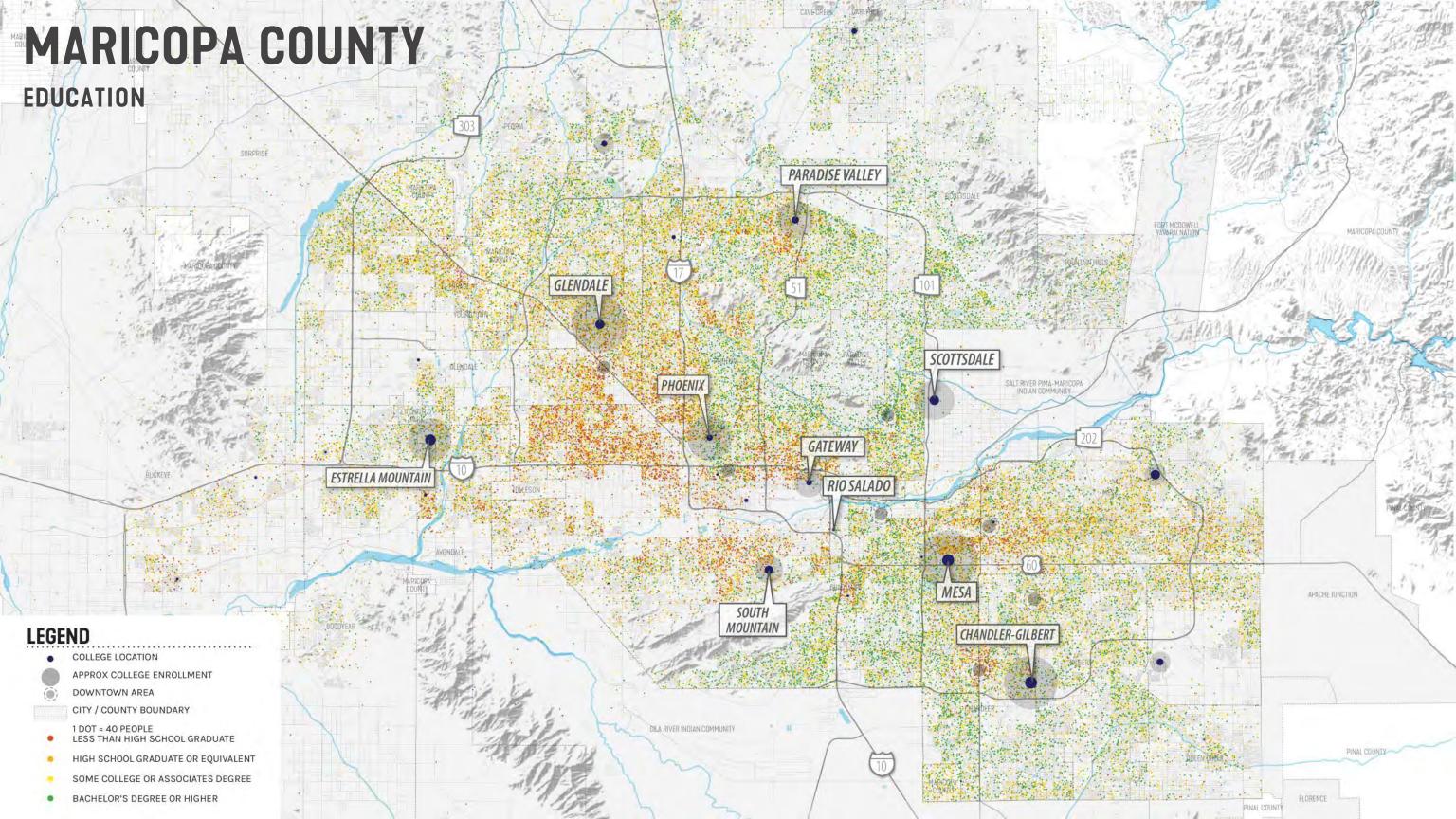
CH 10: MCCCD & PEER INSTITUTION BENCHMARKING





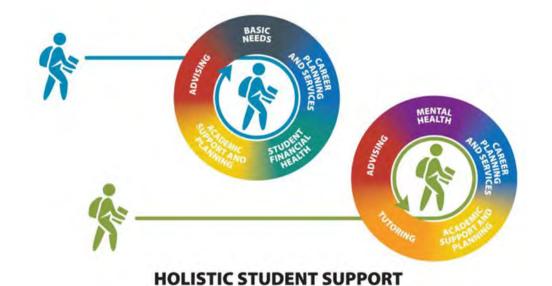




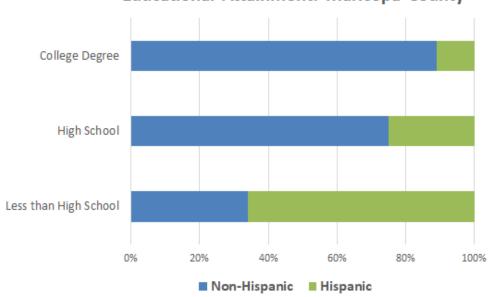


60/30 PLAN

REDUCING BARRIERS TO OPPORTUNITY



Educational Attainment: Maricopa County





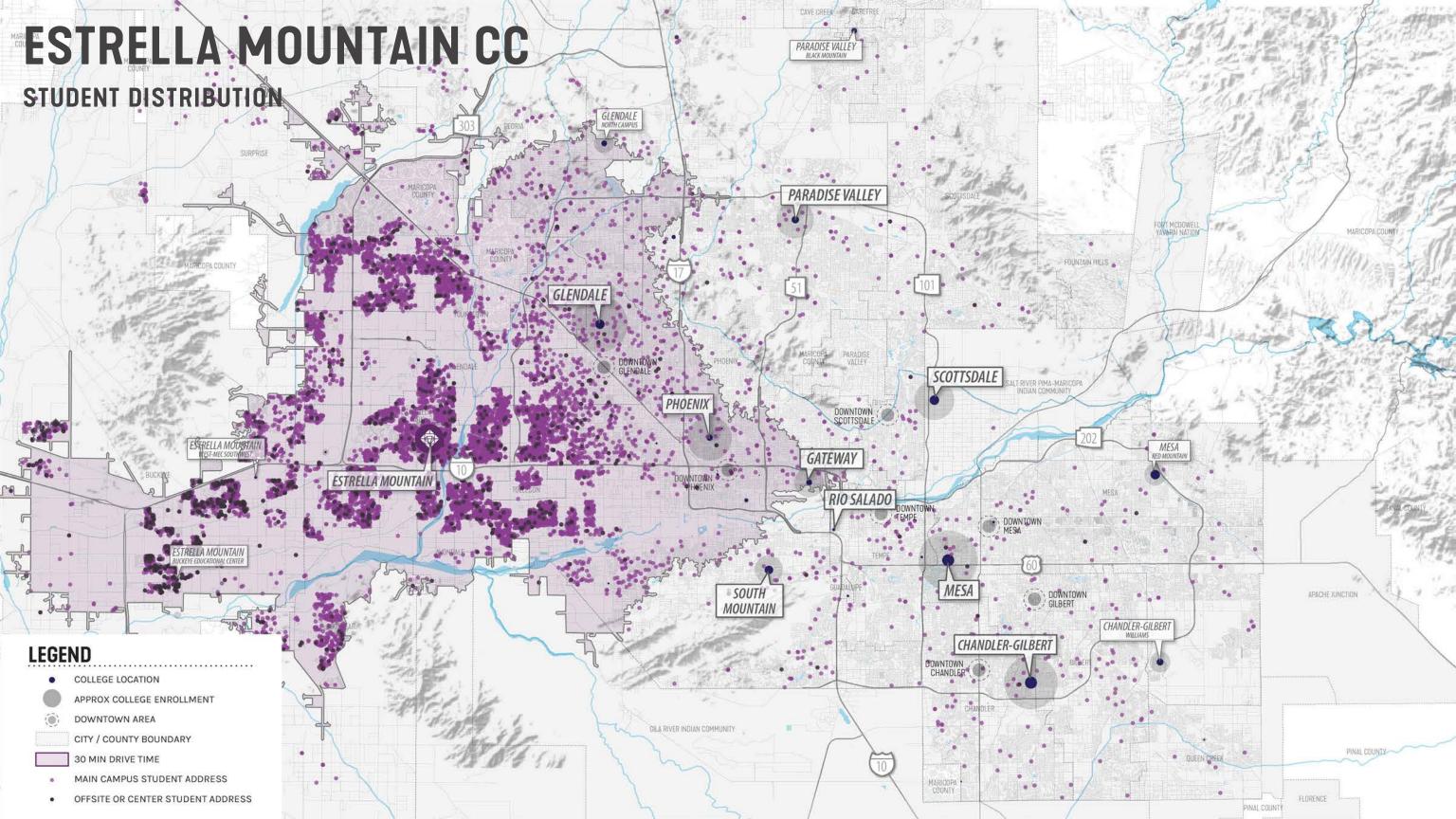
REGIONAL ANALYSIS

KEY TAKEAWAYS & QUESTIONS

• Are there key elements of the regional demographics not captured here that are critical for us to understand?

• How does this demographic information affect Estrella's mission and decision-making regarding curriculum offerings?





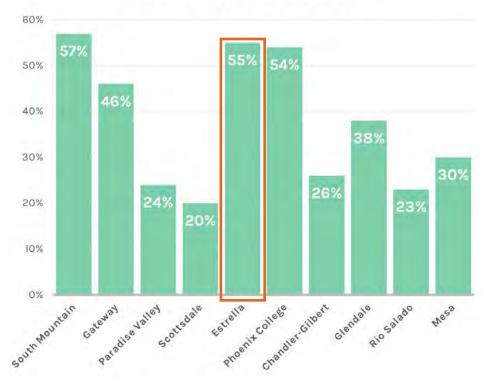
FIRST GENERATION STUDENTS

70% 60% 60% 60% 49% 39% 37% 43% 52% 43% 10% 0% Proceit Contain Case west Scottedate Estrella Contain C

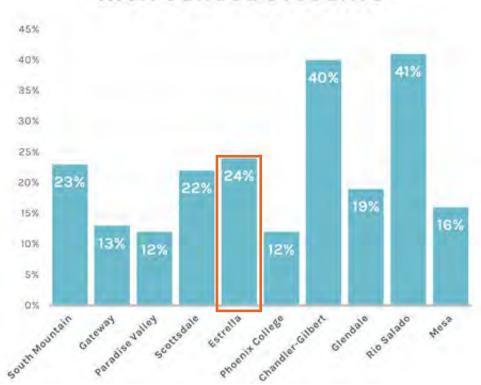
PELL GRANT STUDENTS



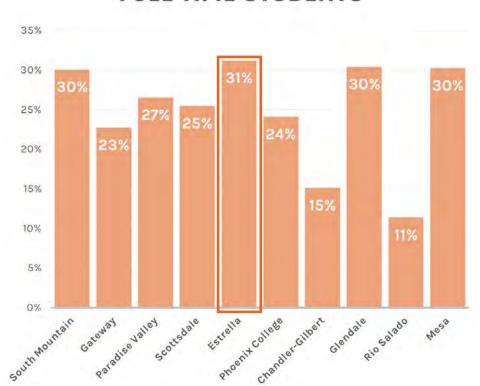
HISPANIC STUDENTS



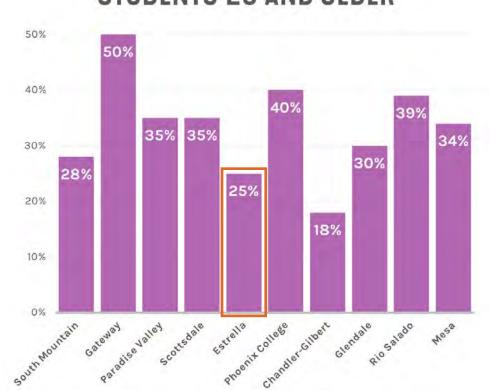
HIGH SCHOOL STUDENTS



FULL TIME STUDENTS



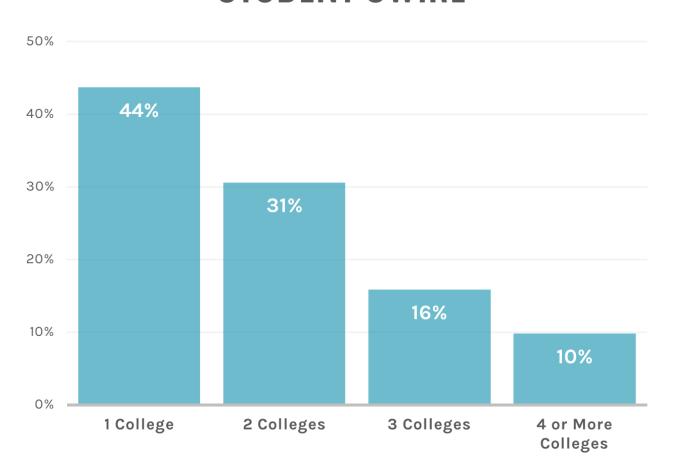
STUDENTS 25 AND OLDER



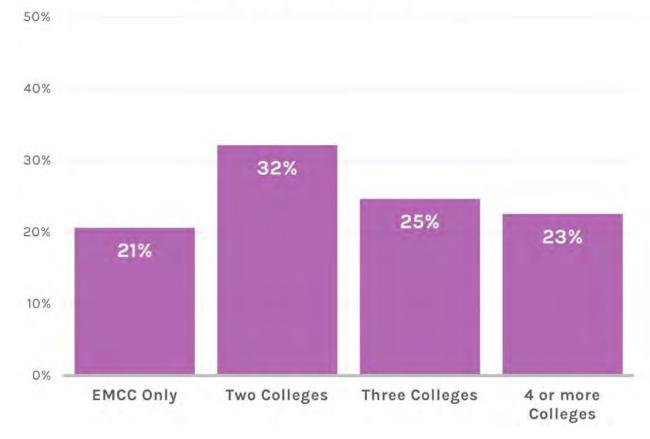
ESTRELLA MOUNTAIN CC

STUDENT SWIRL

DISTRICT STUDENT SWIRL

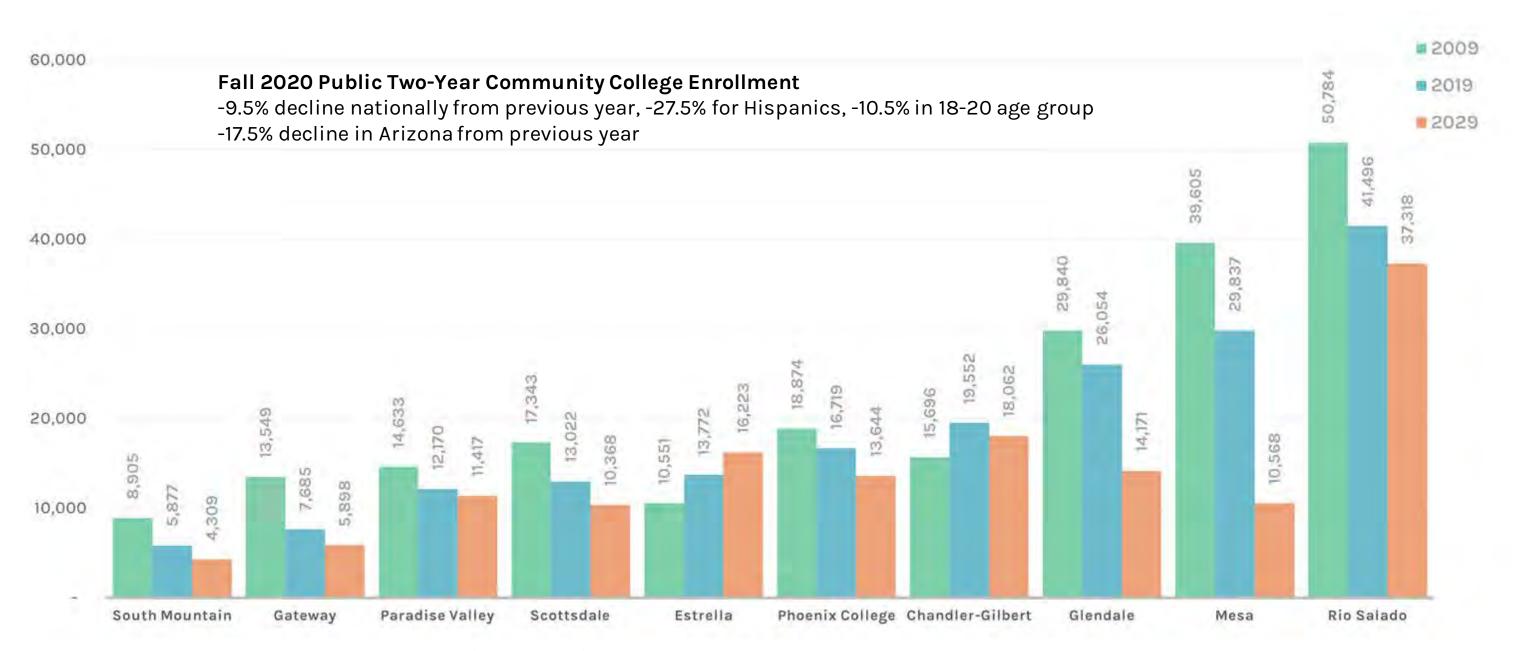


STUDENT SWIRL



ENROLLMENT

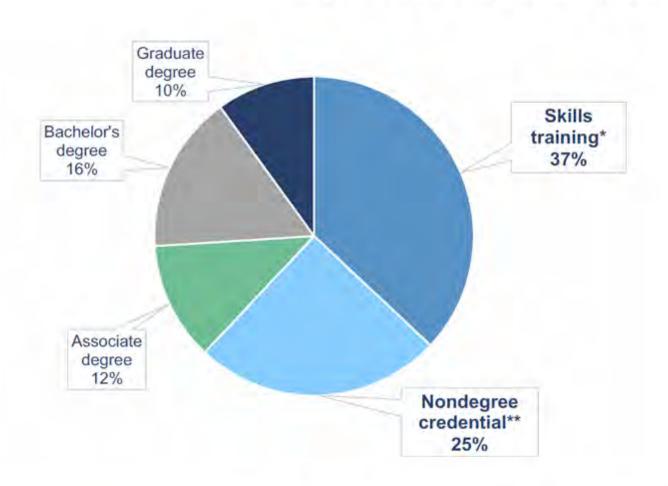
MCCCD ENROLLMENT PROJECTIONS

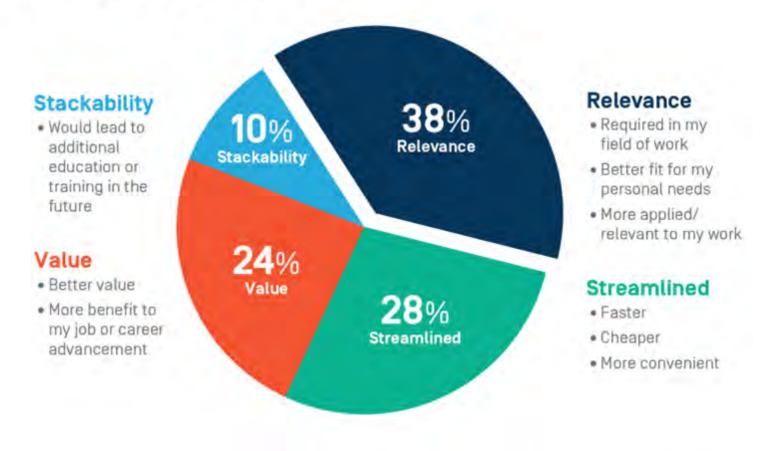


Source: MCCCD Summary Forecast -Faculty Staff Student FTE (November, 2020)

SHIFTING EDUCATIONAL NEEDS

Student Preferred Options for College: August 2020

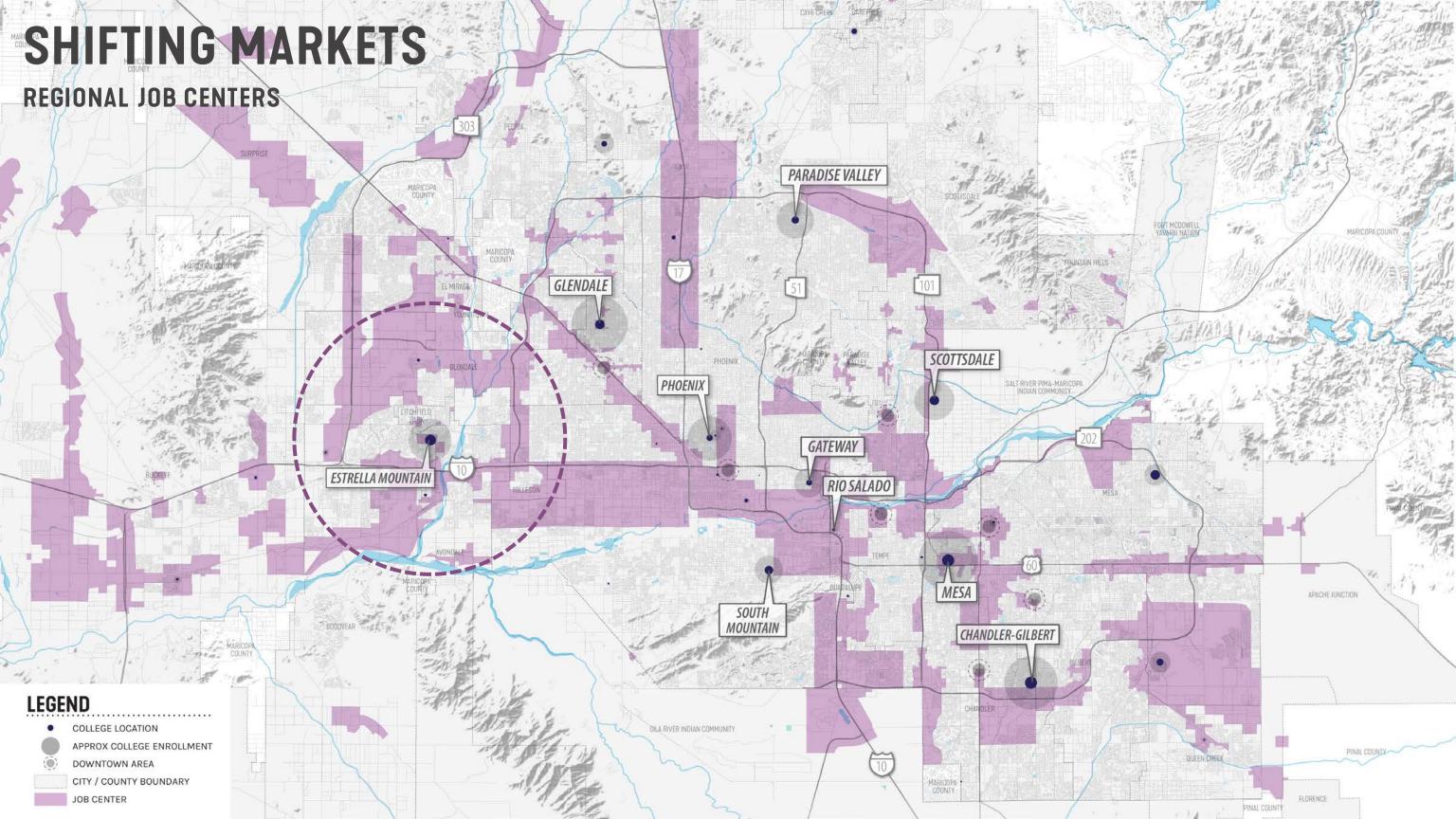






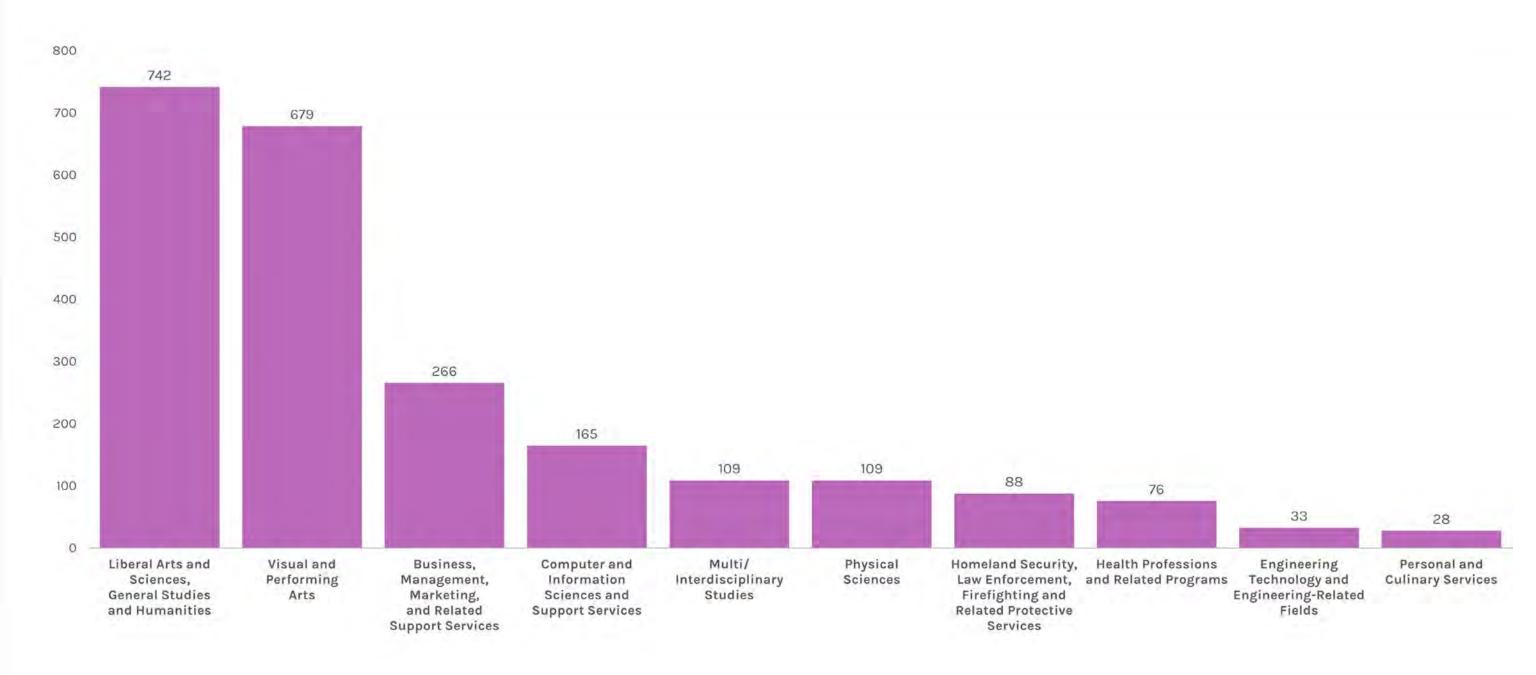
Since the onset of the pandemic, Americans have expressed a consistent preference for nondegree and skills training options

2 in 5 Americans (38%) say the most important factors in choosing an educational program are whether it is related to their work and suited to their personal needs



ESTRELLA MOUNTAIN CC

TOP 10 PROGRAMS BY DEGREE/CERTIFICATE AWARDED



THE TALENT NEEDS OF THE POST-COVID ECONOMY

What might it look like...

THE READINESS ECONOMY

COVID-19 has revealed how ill-prepared we all are. Being more prepared will boost demand in healthcare, infrastructure, cybersecurity, environmental technology, insurance, etc.

THE REMOTE ECONOMY

As more work gets performed remotely, there will be growing dependence on the data and software that are the key underpinnings of the remote economy.

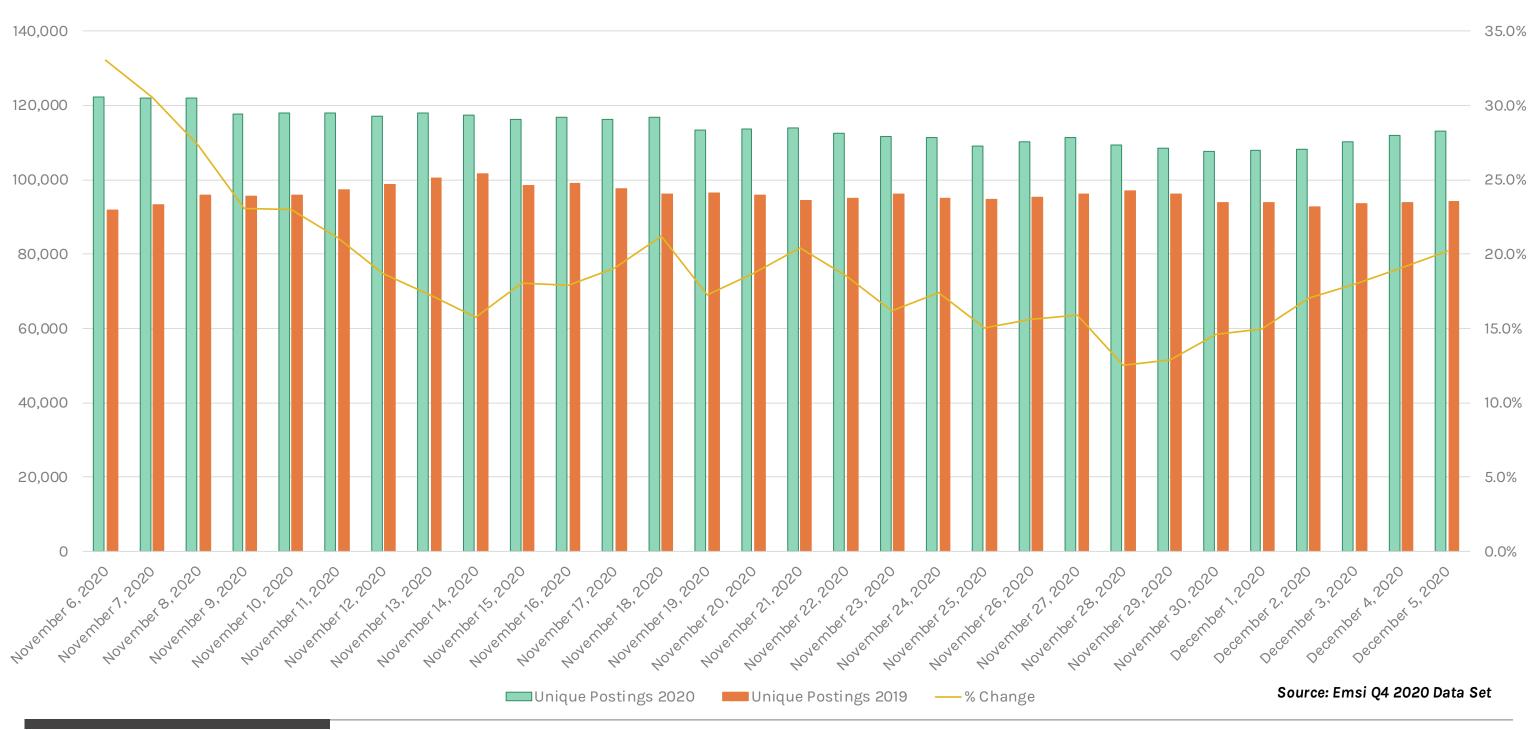
THE LOGISTICS ECONOMY

Manufacturers have come to appreciate the vulnerability of supply chains, etc. Reshoring some industries will put greater focus on advanced manufacturing. Similarly, there will be greater need for logistics expertise.

THE AUTOMATED ECONOMY

Employers will prioritize automation over hiring back low-value workers. Jobs driving automation will thrive.

MARICOPA COUNTY: JOB POSTINGS 2020 VS. 2019



MARICOPA COUNTY JOB POSTINGS BY OCCUPATION*

| soc | Occupation | Unique Postings from Jun 2020 - Nov 2020 | Avg. Unique (Jun 2020 - Nov 2020) | Avg. Posting Intensity (Jun 2020 - Nov 2020) | % Change (Jun 2020 - Nov 2020) | Number of Employers Competing from Jun 2020 - Nov 2020 |
|---------|---|--|---|---|--------------------------------------|---|
| 11-3011 | Administrative Services & Facilities Managers | 15 | 8 | 13:1 | 50% | 6 |
| 11-9021 | Construction Managers | 24 | 8 | 22:1 | 57% | 15 |
| 17-3023 | Electrical & Electronic Engineering Technicians | 96 | 43 | 11:1 | 100% | 51 |
| 29-2031 | Cardiovascular Technicians | 15 | 5 | 13:1 | 50% | 8 |
| 29-2052 | Pharmacy Technicians | 464 | 162 | 17:1 | 131% | 48 |
| 29-2055 | Surgical Technologists | 102 | 50 | 14:1 | 71% | 34 |
| 31-1128 | Home Health & Personal Care Aides | 106 | 38 | 10:1 | 59% | 42 |
| 49-3023 | Automotive Service Technicians | 178 | 78 | 10:1 | 74% | 40 |
| 49-3031 | Bus/Truck Mechanics & Diesel Engine Specialists | 53 | 19 | 10:1 | 108% | 17 |
| 49-9041 | Industrial Machinery Mechanics | 19 | 6 | 10:1 | 125% | 13 |

Source: Emsi Q4 2020 Data Set

^{*}Filtered by: Posting Intensity Greater Than 10:1 & % Change Greater Than 50%

WORKFORCE DEMAND GAP ANALYSIS IN MARICOPA COUNTY: 2020-2030

| Occupation | 2020 Jobs | 2030 Jobs | Avg. Annual Openings | Regional Completions (2019) | Workforce Needs Gap | Typical Entry Level Education | Median Annual Earnings |
|---|--------------|--------------|----------------------------|-----------------------------------|------------------------|-------------------------------------|------------------------------|
| Bookkeeping, Accounting & Auditing Clerks | 19,472 | 21,551 | 2,614 | 502 | (2,112) | Certificate | \$42,618 |
| Nursing Assistants | 8,742 | 11,851 | 1,453 | 656 | (797) | Certificate | \$33,334 |
| HVAC | 7,648 | 9,796 | 1,064 | 274 | (790) | Certificate | \$46,207 |
| Licensed Practical & Vocational Nurses | 5,571 | 7,535 | 684 | 239 | (445) | Certificate | \$56,088 |
| Dental Assistants | 6,087 | 7,367 | 878 | 448 | (430) | Certificate | \$44,151 |
| Telecommunications Equipment Installers | 3,085 | 3,380 | 384 | 17 | (367) | Certificate | \$52,757 |
| Paralegals & Legal Assistants | 5,763 | 6,821 | 768 | 498 | (270) | Associate's | \$52,538 |
| Physical Therapist Assistants | 2,110 | 2,737 | 362 | 122 | (240) | Associate's | \$35,739 |
| Aircraft Mechanics | 3,749 | 4,074 | 353 | 140 | (213) | Certificate | \$68,325 |
| Automotive Service Techs & Mechanics | 9,870 | 11,250 | 1,160 | 1,102 | (58) | Certificate | \$42,802 |

Source: Emsi Q4 2020 Data Set (November 2020)

STUDENT DEMOGRAPHICS

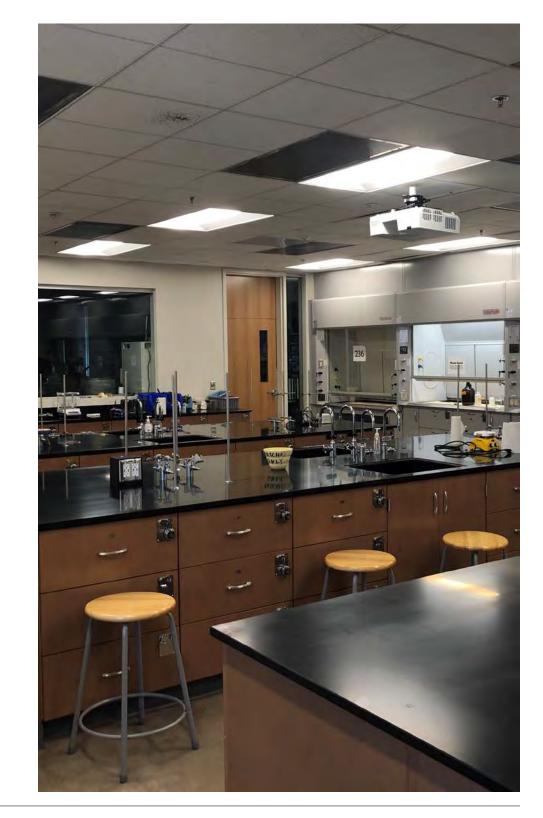
QUESTIONS

- What future changes are anticipated in the college's student demographic? What impact will these changes have on space and facility needs?
- Enrollment changes are predicted between 2019 and 2029. If accurate, how will these changes impact the college moving forward?
- The pandemic is altering both economic and occupational labor demands. Is the college contemplating any new certifications, certificate or degree programs?

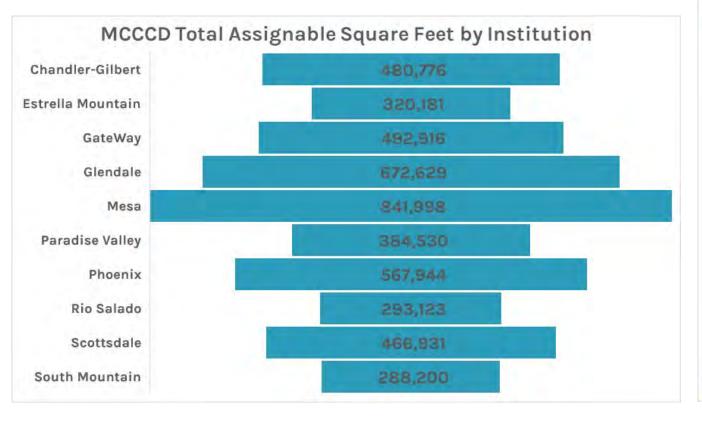


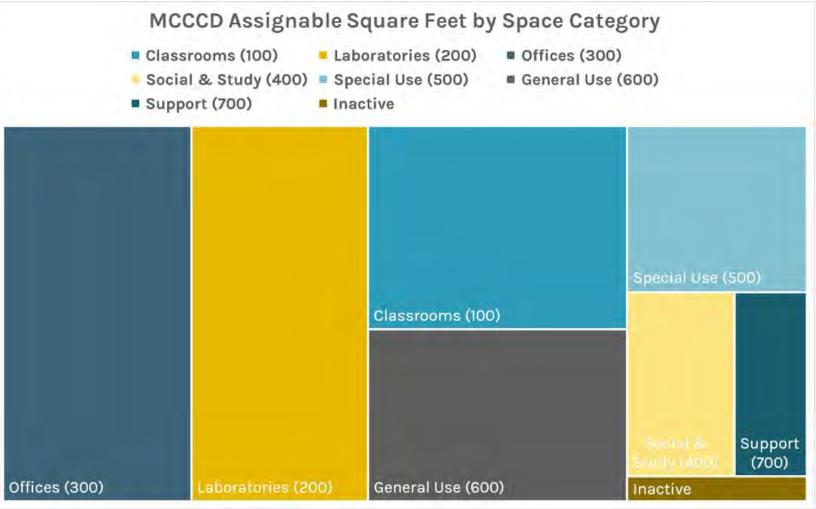
FACILITY INVENTORY

- Developed room-by-room inventory for 6.2 million sf
- Identified space use (i.e. classrooms, teaching labs, offices, etc.)
- Ensured consistent classification of space types across all colleges
- Serves as the basis for space needs analysis
- Developing dashboards for building inventories and instructional space utilization



SPACE METRICS BY INSTITUTION AND SPACE CATEGORY DISTRICT OVERVIEW



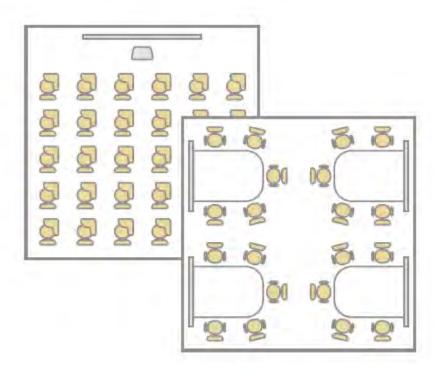


- Ten Campus total is 4,809,228 Assignable Square Feet
- Mesa Community College has the largest amount of space
- Offices are the largest space category at 1,126,084 ASF or 23.4% of total space
- Teaching and open laboratories comprise 1,056,925 ASF or 22% of total space

UTILIZATION METRICS

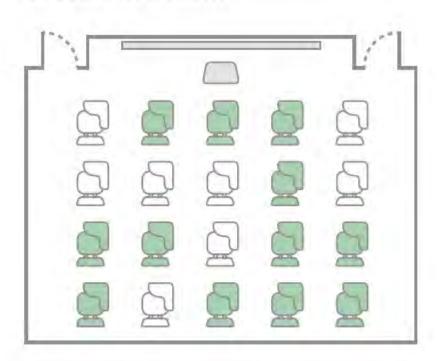
ASSIGNABLE SQUARE FEET (ASF) PER STATION

Space ASF divided by the number of student seats or stations



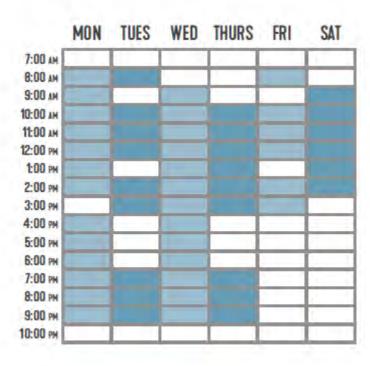
STUDENT STATION OCCUPANCY (SSO)

The percentage of seats filled when a course is scheduled as compared to the actual number of seats in a room



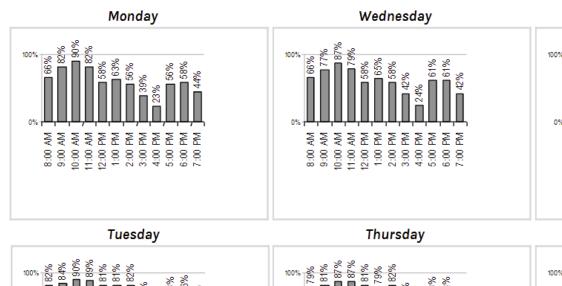
WEEKLY ROOM HOURS (WRH)

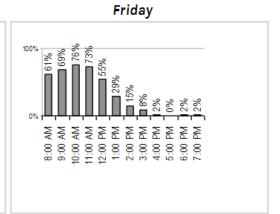
Number of hours per week a credit-bearing course is scheduled into a room

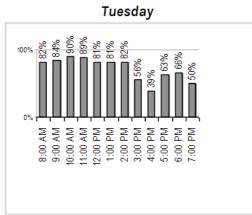


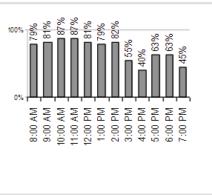
CLASSROOM UTILIZATION OUTCOMES: FALL 2019 ESTRELLA MOUNTAIN - AVONDALE

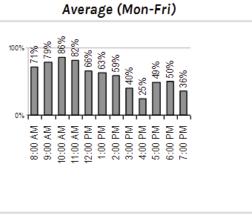
Percent of Classrooms In Use





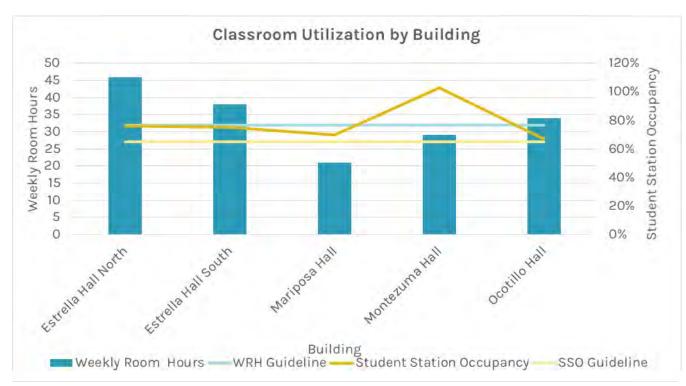






Total classrooms = 62

- Highest Use on Monday and Tuesday at 10:00 AM
- No more than 56 of the 62 classrooms in use at any one time
- Significant utilization on Friday



Actual Utilization:

- 34 Average Weekly Room Hours
- 72% Average Student Station Occupancy

Classroom Guideline:

- 32 Weekly Room Hours
- 65% Student Station Occupancy

LABORATORY UTILIZATION GUIDELINES

Teaching Laboratory Utilization Summary by Campus

| | Teaching Labs (210) | | | Computer Labs (211) | | | Technical Labs (212) | | |
|----------------------------------|--------------------------------------|---------------------------------|--|-------------------------------|---------------------------------|--|-------------------------------|---------------------------------|--|
| Campus' | Average ASF per Station | Average Weekly Room Hours | Hours in Use Student Station Occupancy | Average ASF per Station | Average Weekly Room Hours | Hours in Use Student Station Occupancy | Average ASF per Station | Average Weekly Room Hours | Hours in Use Student Station Occupancy |
| Chandler-Gilbert Pecos Campus | 49.7 | 37 | 67% | 34.6 | 28 | 69% | | | |
| Chandler-Gilbert Williams Campus | 51.2 | 24 | 74% | 48.3 | 12 | 74% | 53.5 | 18 | 45% |
| Estrella Mountain Avondale | 51.2 | 17 | 71% | 44.3 | 28 | 72% | 50.7 | 11 | 69% |
| GateWay Washington Campus | 42.3 | 19 | 67% | 33.4 | 13 | 58% | 103 | 12 | 24% |
| Glendale Main Campus | 43.9 | 28 | 88% | 36.2 | 29 | 60% | 43.8 | 9 | 74% |
| Mesa Southern & Dobson Campus | 46.8 | 25 | 70% | 30.3 | 20 | 67% | 69.9 | 31 | 70% |
| Paradise Valley Union Hills | 43.3 | 20 | 50% | 32.0 | 13 | 70% | 40.1 | 6 | 64% |
| Phoenix College Main Campus | 49.9 | 22 | 69% | 41.8 | 20 | 65% | 47 | 18 | 54% |
| Scottsdale | 43 | 19 | 56% | 31.2 | 26 | 69% | 34.8 | 16 | 67% |
| South Mountain Main Campus | 42.7 | 18 | 57% | 36.1 | 26 | 59% | 36.8 | 8 | 63% |
| Average | 46.4 | 23 | 67% | 36.8 | 22 | 66% | 53.3 | 14 | 59% |
| Lab Utilization Guideline | 24 Weekly Room Hours @ 70% Occupancy | | | | | | 20 hours @ 68% Occupan | | |

COMPARATIVE ANALYSIS: TOTAL FTSE BY ASF/FTSE DISTRICT OVERVIEW

Institutions Close to Trendline:

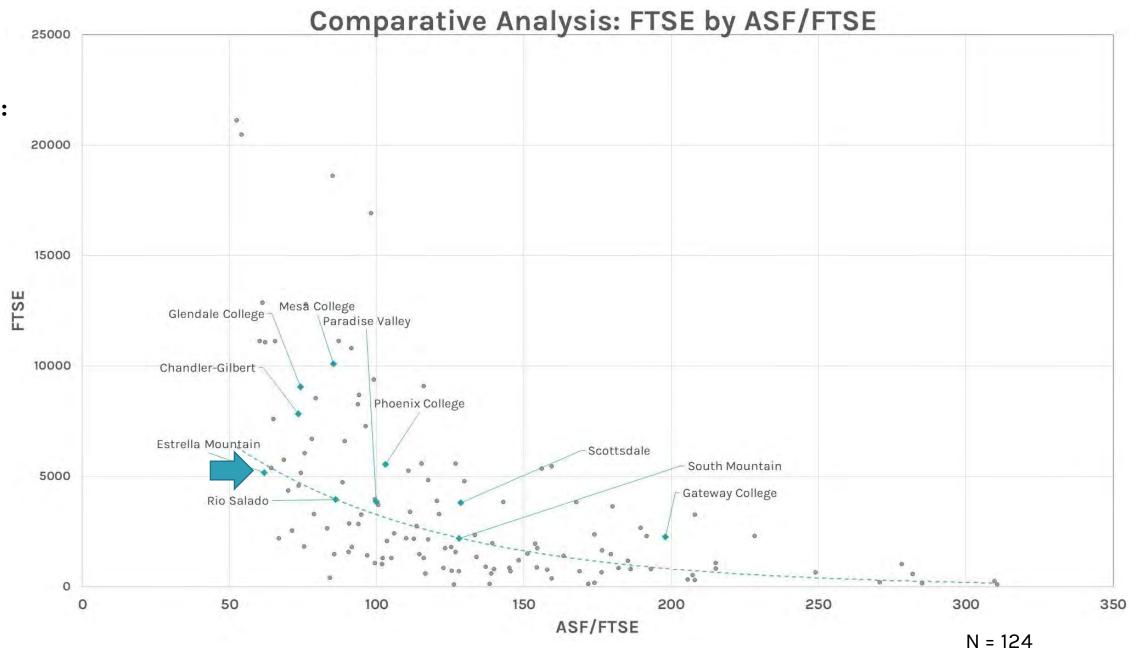
- Estrella Mountain
- Rio Salado
- Paradise Valley
- South Mountain

Slightly Above Trendline:

- Phoenix
- Scottsdale
- GateWay

Above the Trendline:

- Chandler-Gilbert
- Glendale
- Mesa



SPACE INVENTORY, UTILIZATION AND METRICS

QUESTIONS

- Are there internal factors (i.e., technology, scheduling practices, size of rooms) impacting utilization of classrooms and labs?
- Are there strategic goals or strategies that will require new space or the renovation of existing space on your campuses
- Are there pending capital projects that would improve operational efficiency or student success?
- Do answers to responses above require new sites or the consolidation of existing sites?



DREAMING SUMMIT ELEMENTARY ESTRELLA MOUNTAIN CC **LEGEND SCHOOL** Highway **REGIONAL CONTEXT CAMELBACK RD** Major Road LITCHFIELD WIGWAM ····· Trail CREEK MIDDLE SCHOOL PARK RAGE RD **PHOENIX** MILLENIUM HIGH SCHOOL LAND USE Residential Parks / Opens Space WESTERN SKY MIDDLE **ESTRELLA** Commercial INDIAN SCHOOL RD SCHOOL Public / Quasi-Public MOUNTAIN COMMUNITY COLLEGE ROOSEVELT CANAL TRAIL ST THOMAS AQUINAS GRADE SCHOOL CANYON BREEZE ELEMENTARY THOMAS RD PALM VALLEY SCHOOL GOODYEAR RANCHO SANTA FE ELEMENTARY SCHOOL ELEMENTARY SCHOOL 1 mile **AVONDALE** MCDOWELL RD (10)

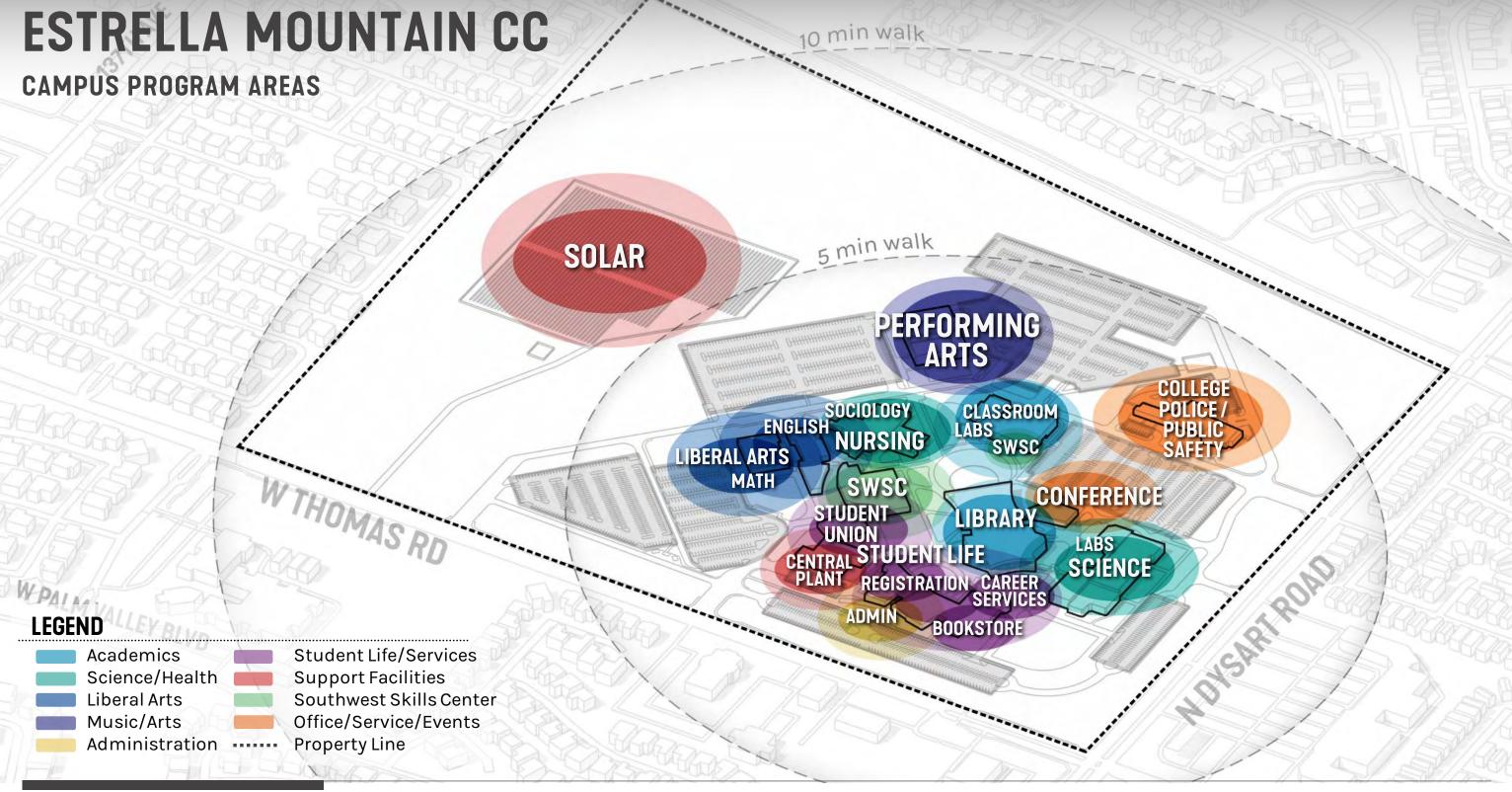
2.5 miles

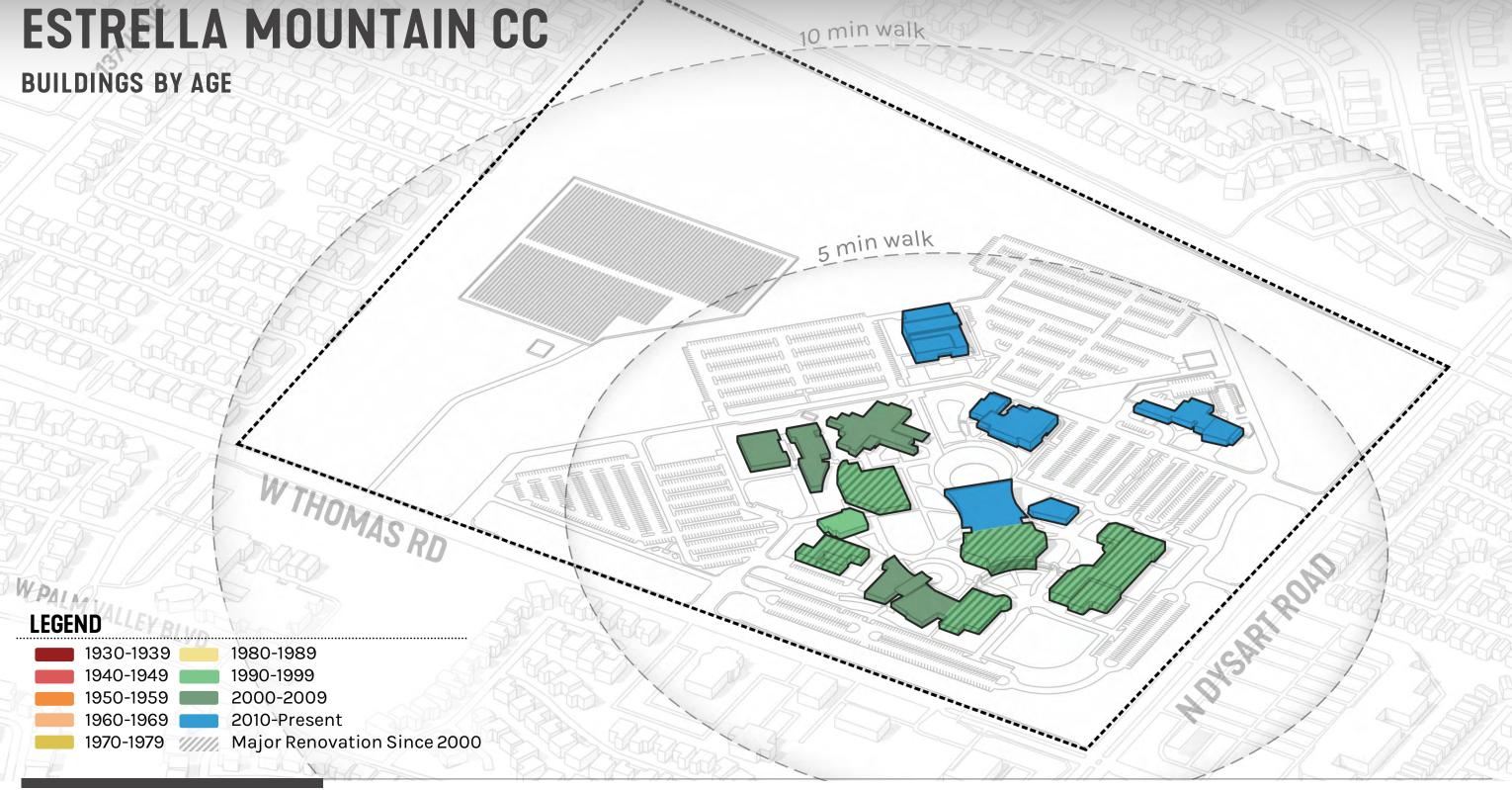
ELD RD

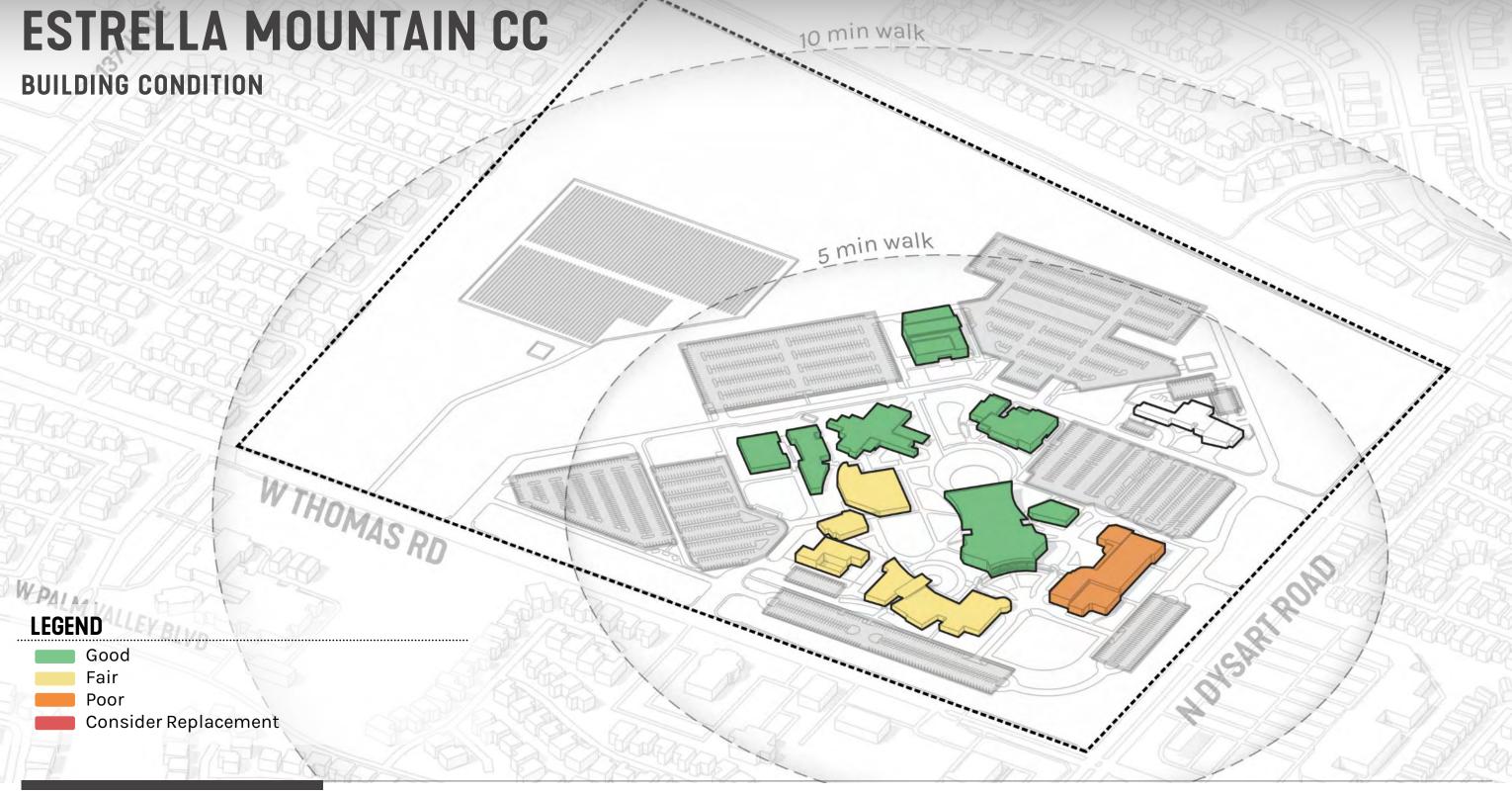
LITC

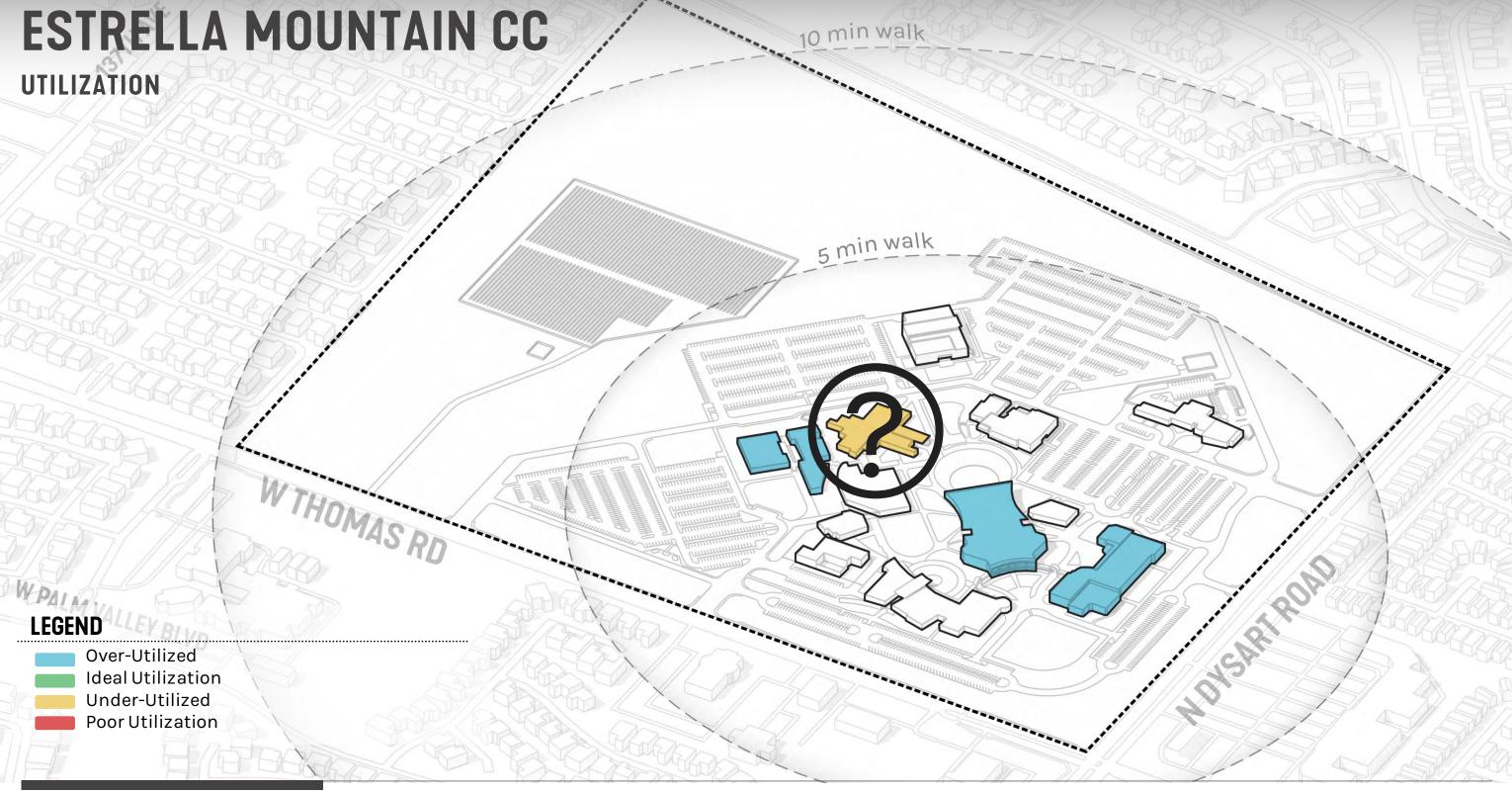
TOLLESON

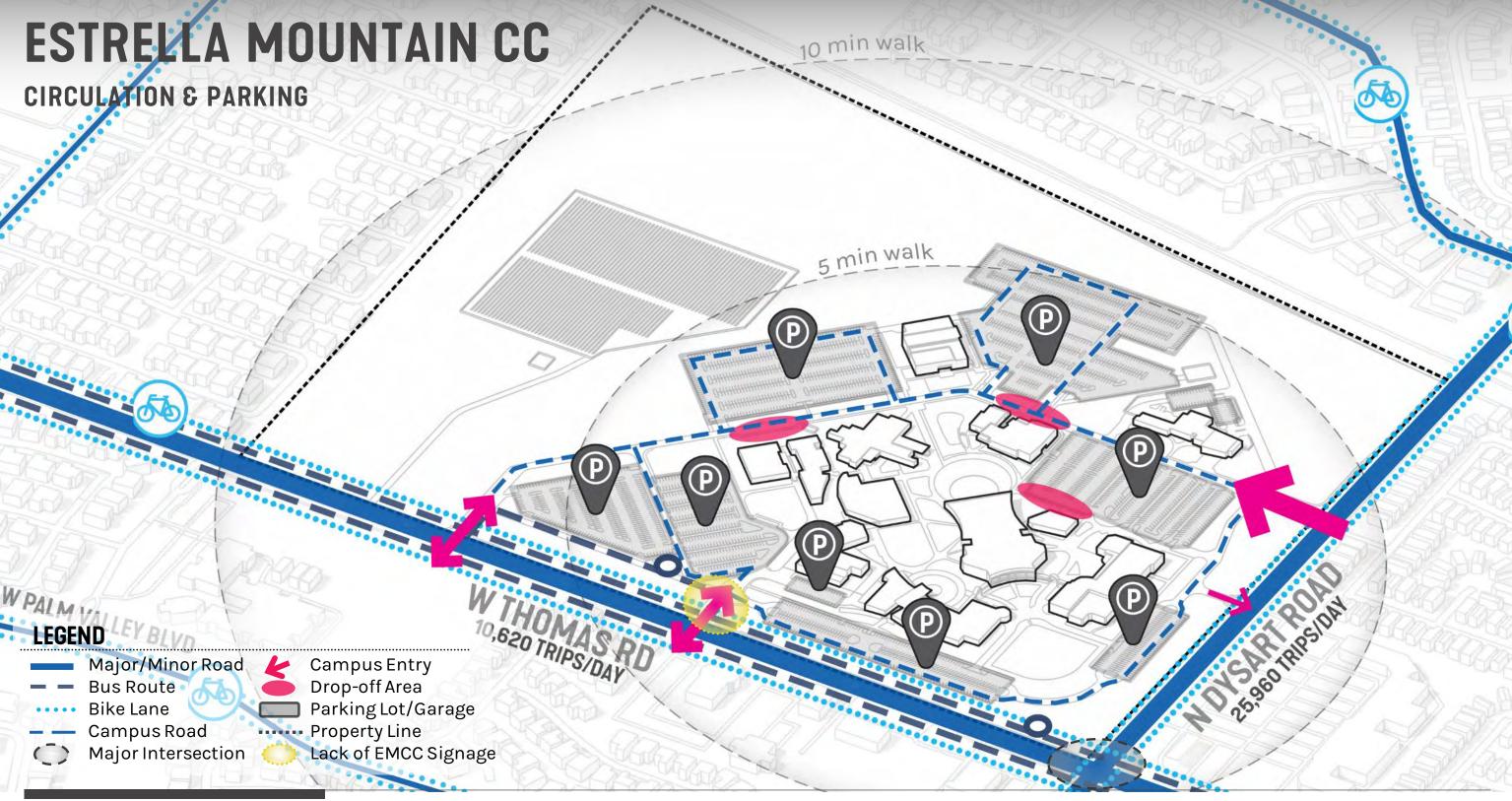
VAN BUREN ST

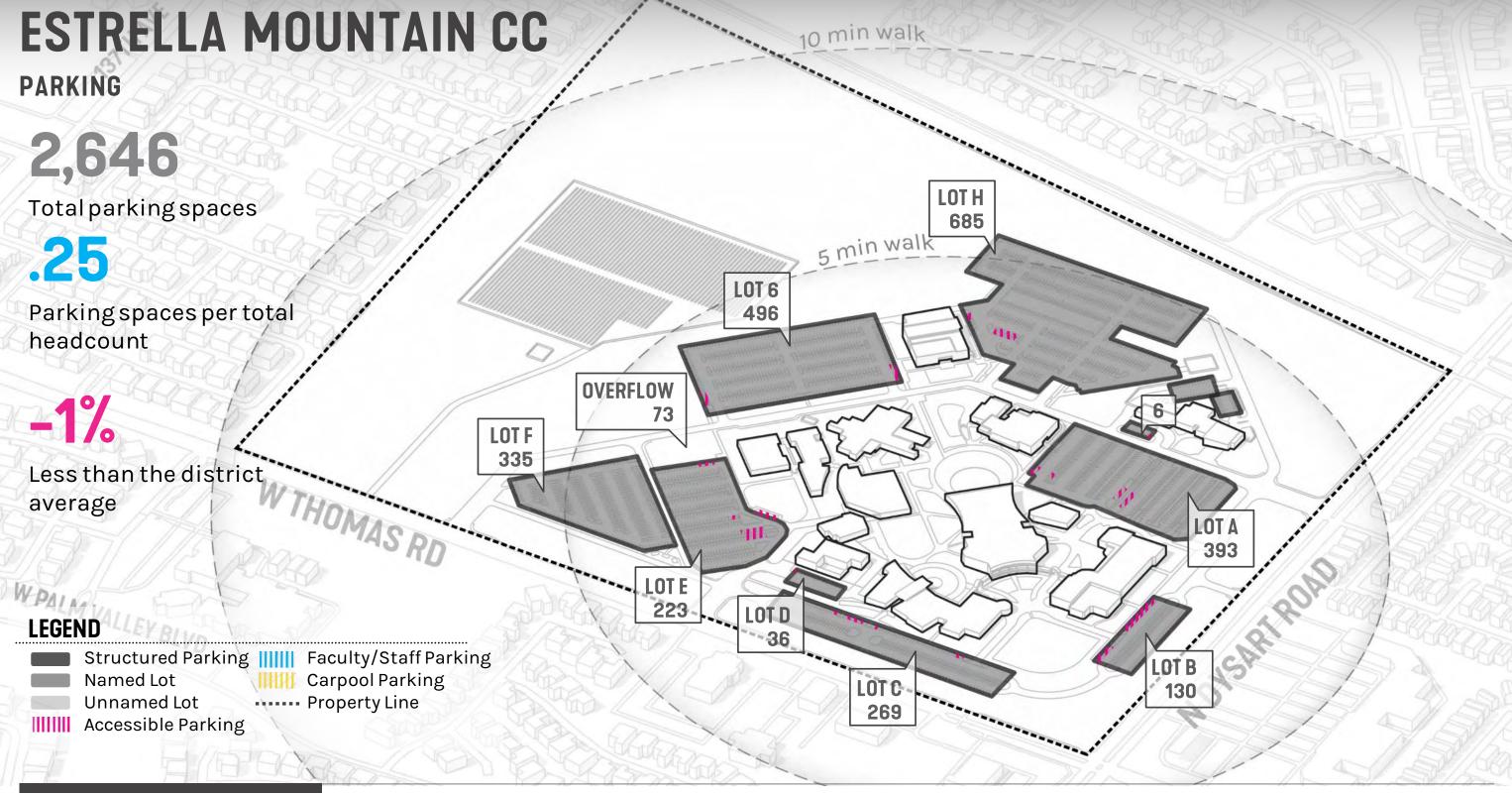


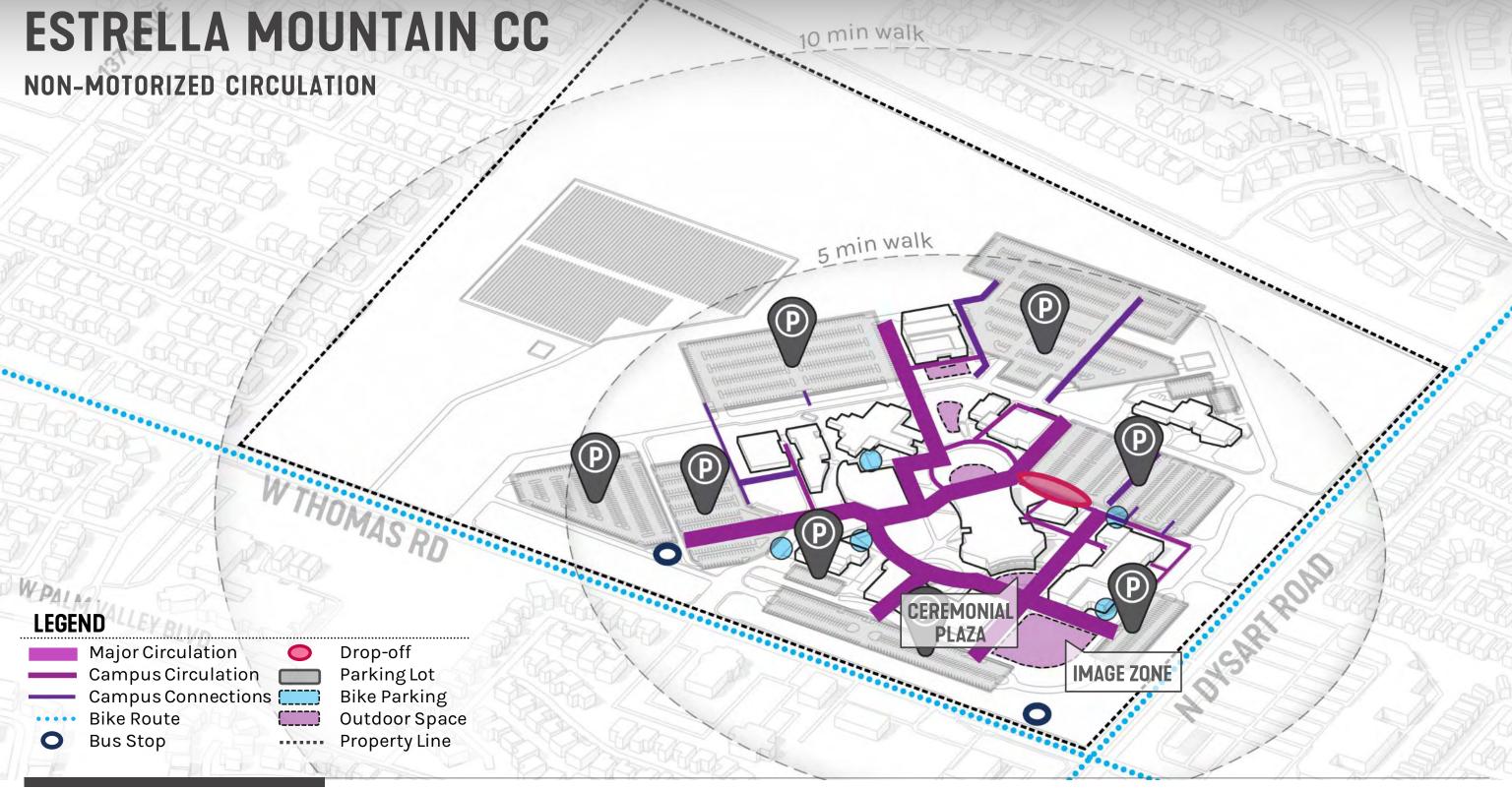


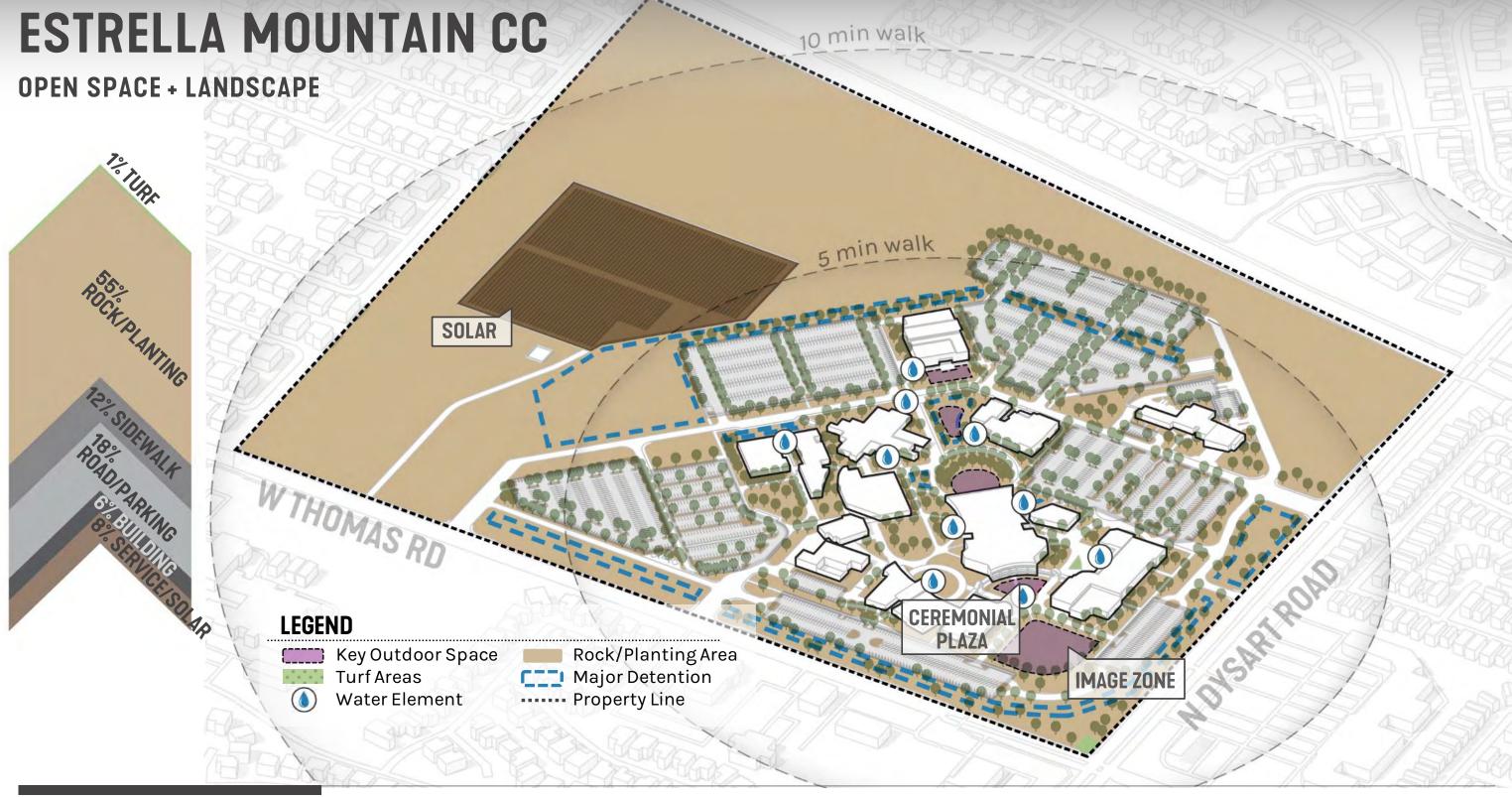












ESTRELLA MOUNTAIN CC

CHARACTER - IDENTITY























ESTRELLA MOUNTAIN CC

OPEN SPACE + LANDSCAPE























PHYSICAL ANALYSIS

KEY TAKEAWAYS & QUESTIONS

- The MAR building appears to be underutilized, while the MON building is considered in poor condition despite age and renovation. Are these assumptions accurate and has there been discussion about the future of these assets?
- Continue to build on a strong landscape framework to provide opportunities for outdoor learning.
- Are there site projects / considerations that we need to understand? Future uses for western part of campus?
- How do we use the Image Zone today? Future?



NEXT STEPS

January 2021:

Engage each college Steering Committee to present and discuss full analysis and receive feedback on future plans and vision

Q1-Q2 2021:

Alternative Scenario Development for each College and the District