State of the ASU Public Enterprise and Arizona State University

Mission and Goals Review

Michael M. Crow
Tempe, Arizona
February 9, 2023

ASU

ASU Design

ASU is a comprehensive **public research university,** measured not by whom it excludes, but by **whom it includes** and **how they succeed;** advancing **research and discovery** of public value; and assuming **fundamental responsibility** for the economic, social, cultural and overall health of the **communities it serves.**

The ASU design aspirations guide the pursuit of our charter

Leverage Our Place
ASU embraces its cultural, socioeconomic and physical setting.

Transform Society
ASU catalyzes social change by being connected to social needs.

Value Entrepreneurship
ASU uses its knowledge and encourages innovation.

Conduct Use-Inspired Research
ASU research has purpose and impact.

Enable Student Success
ASU is committed to the success of each unique student.

Fuse Intellectual Disciplines
ASU creates knowledge by transcending academic disciplines.

Be Socially Embedded
ASU connects with communities through mutually beneficial partnerships.

Engage Globally
ASU engages with people and issues locally, nationally and internationally.

Practice Principled Innovation
ASU places character and values at the center of decisions and actions.

The ASU design aspirations now call for responsibility and principles

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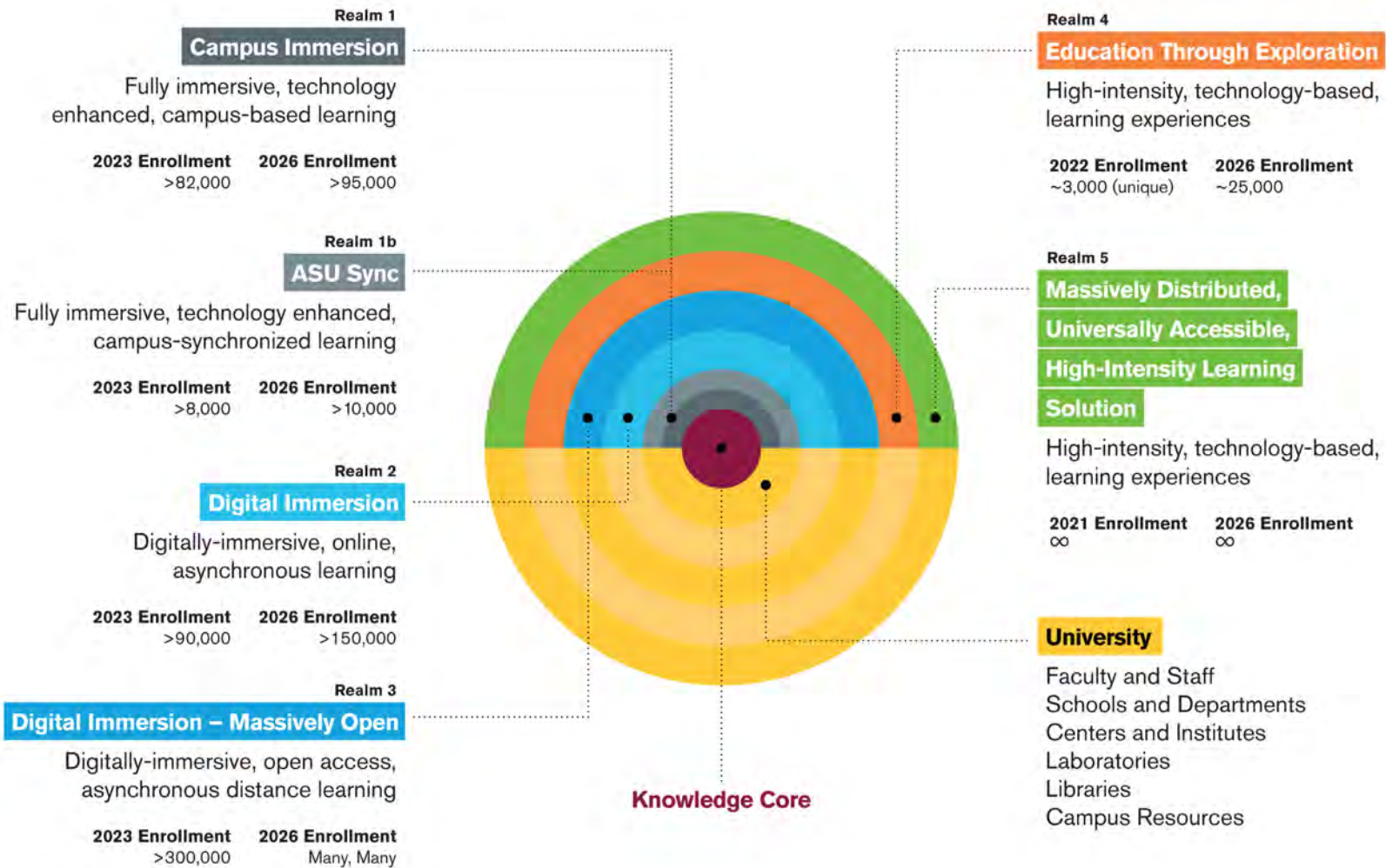ASU connects with communities through mutually beneficial partnerships.

Engage Globally
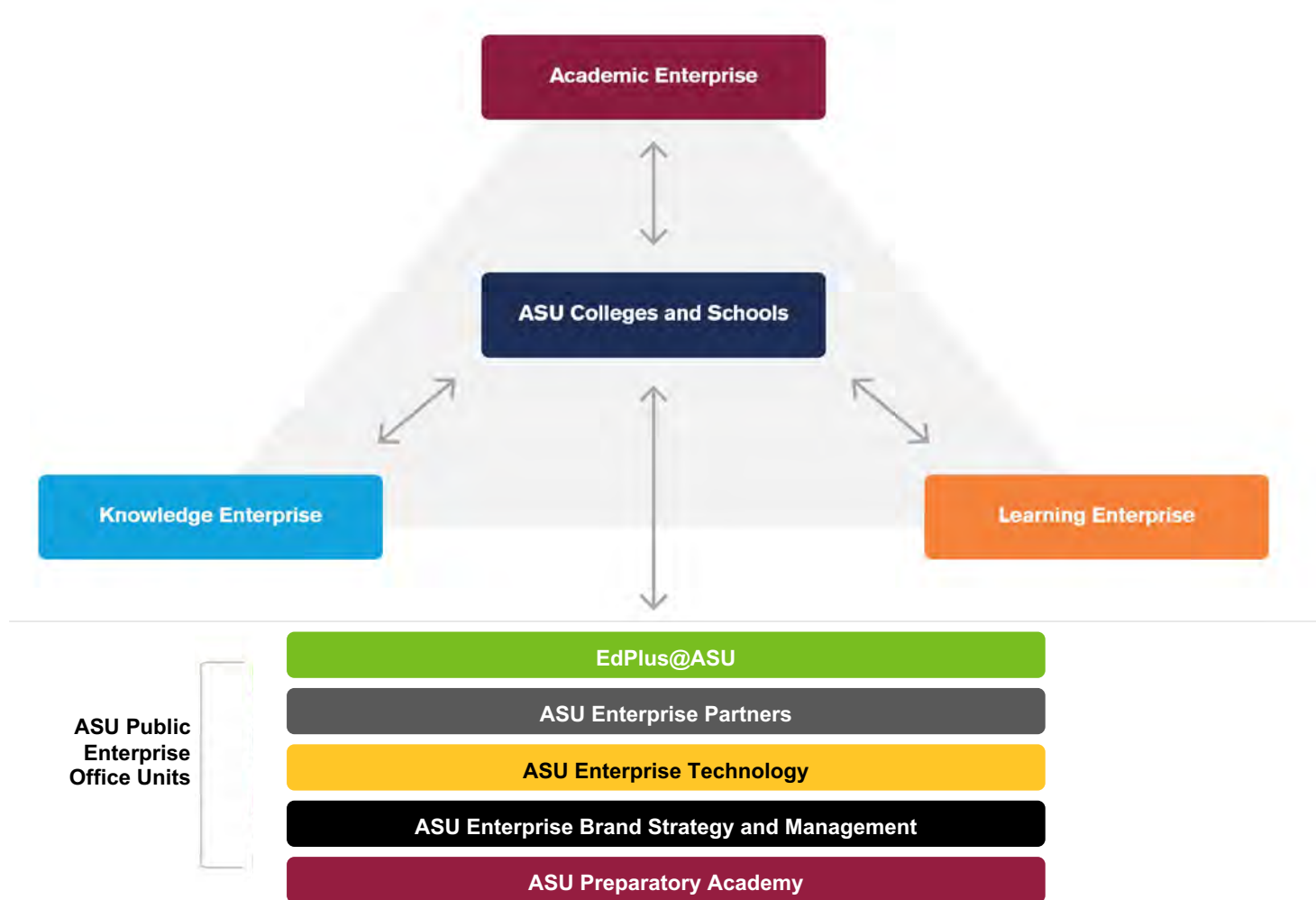ASU engages with people and issues locally, nationally and internationally.

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ASU places character and values at the center of decisions and actions.

ASU

ASU's five realms of teaching and learning support student success

Realm 1

Campus Immersion

Fully immersive, technology enhanced, campus-based learning

2023 Enrollment	2026 Enrollment
>82,000	>95,000

Realm 1b

ASU Sync

Fully immersive, technology enhanced, campus-synchronized learning

2023 Enrollment	2026 Enrollment
>8,000	>10,000

Realm 2

Digital Immersion

Digitally-immersive, online, asynchronous learning

2023 Enrollment	2026 Enrollment
>90,000	>150,000

Realm 3

Digital Immersion – Massively Open

Digitally-immersive, open access, asynchronous distance learning

2023 Enrollment	2026 Enrollment
>300,000	Many, Many

Realm 4

Education Through Exploration

High-intensity, technology-based, learning experiences

2022 Enrollment	2026 Enrollment
~3,000 (unique)	~25,000

Realm 5

Massively Distributed, Universally Accessible, High-Intensity Learning Solution

High-intensity, technology-based, learning experiences

2021 Enrollment	2026 Enrollment
∞	∞

University

Faculty and Staff
Schools and Departments
Centers and Institutes
Laboratories
Libraries
Campus Resources

Knowledge Core

The three domains of the ASU Public Enterprise collaborate to accomplish our mission

ASU Mission and Goals

ASU

ASU mission and goals make clear our expectations

Demonstrate **leadership** in enabling academic excellence and accessibility at scale

Establish **national standing** in academic quality and impact of colleges and schools in every field

Expand **ASU's role as the leading global center** for interdisciplinary research, discovery and development by 2028

Enhance our **local impact** and social embeddedness

Demonstrate leadership in enabling academic excellence and accessibility at scale

ASU

Demonstrate leadership in enabling academic excellence and accessibility at scale

- Maintain the fundamental principle of accessibility to all students qualified to study at a research university.

- Maintain university accessibility to match Arizona's socioeconomic diversity, with undifferentiated outcomes for success.

- Ensure that more than 90% of students continue studies beyond their first year.

- Enhance university graduation rate to greater than 85% and more than 40,000 graduates.

- Continuously enhance quality while maintaining affordability.

- Overcome geographic and financial barriers to education by enrolling 150,000 online degree-seeking students.

- Continuously increase measured student development and learning outcomes.

- Engage learners of all socioeconomic, geographic and demographic backgrounds.
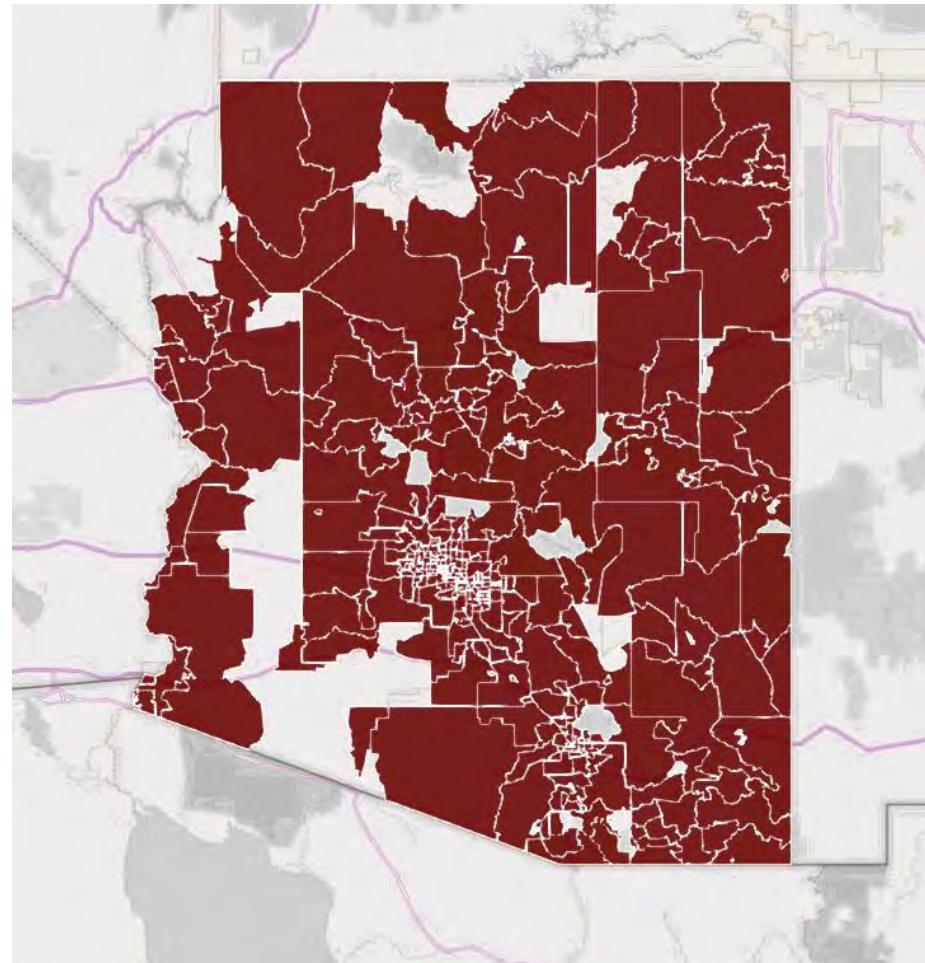
ASU

Undergraduate enrollment reaches highest ever levels

Maintain the fundamental principle of accessibility to all students qualified to study at a research university

Undergraduate Enrollment (AY 2007-08 to AY 2021-22, Estimate for AY 2022-23)

International
- Online
- Campus

Nonresident
- Online
- Campus

Resident
- Online
- Campus

Academic Year includes Fall/Spring/Summer. Level, campus/location, and residency status are based on the most recent enrolled term.
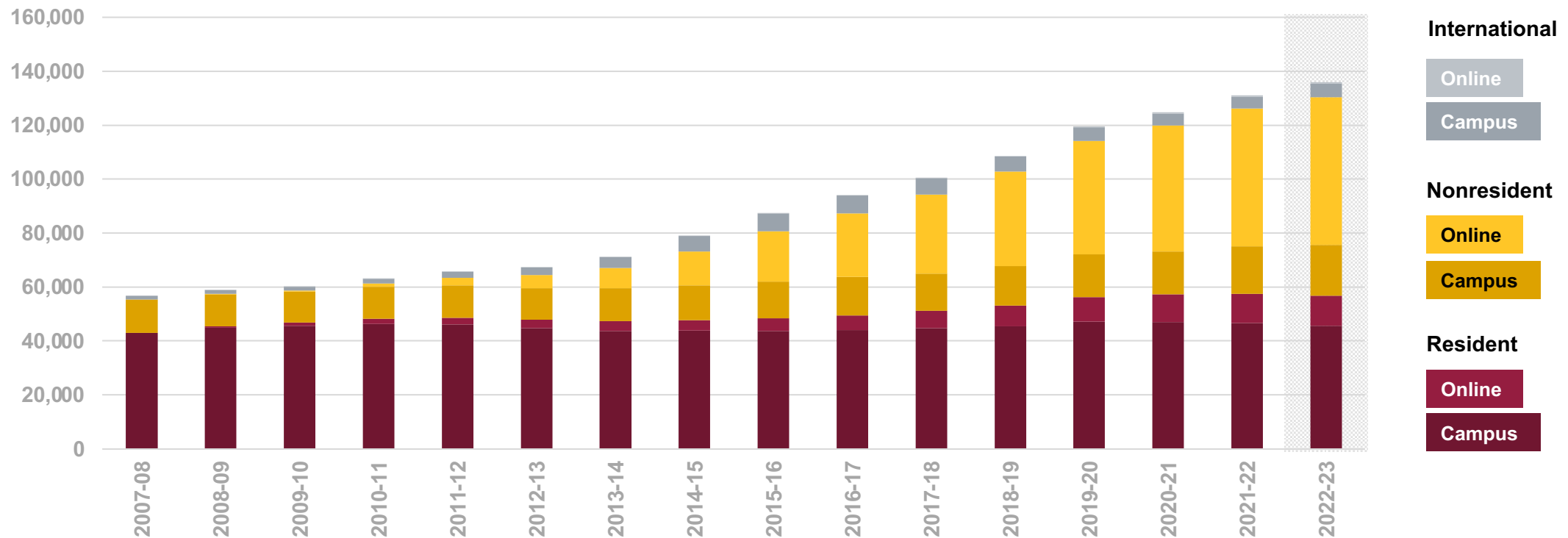
ASU enrolls undergraduates from 88% of Arizona high schools

Maintain the fundamental principle of accessibility to all students qualified to study at a research university

Undergraduate Students Enrolled at ASU (Fall 2022 and Spring 2023)
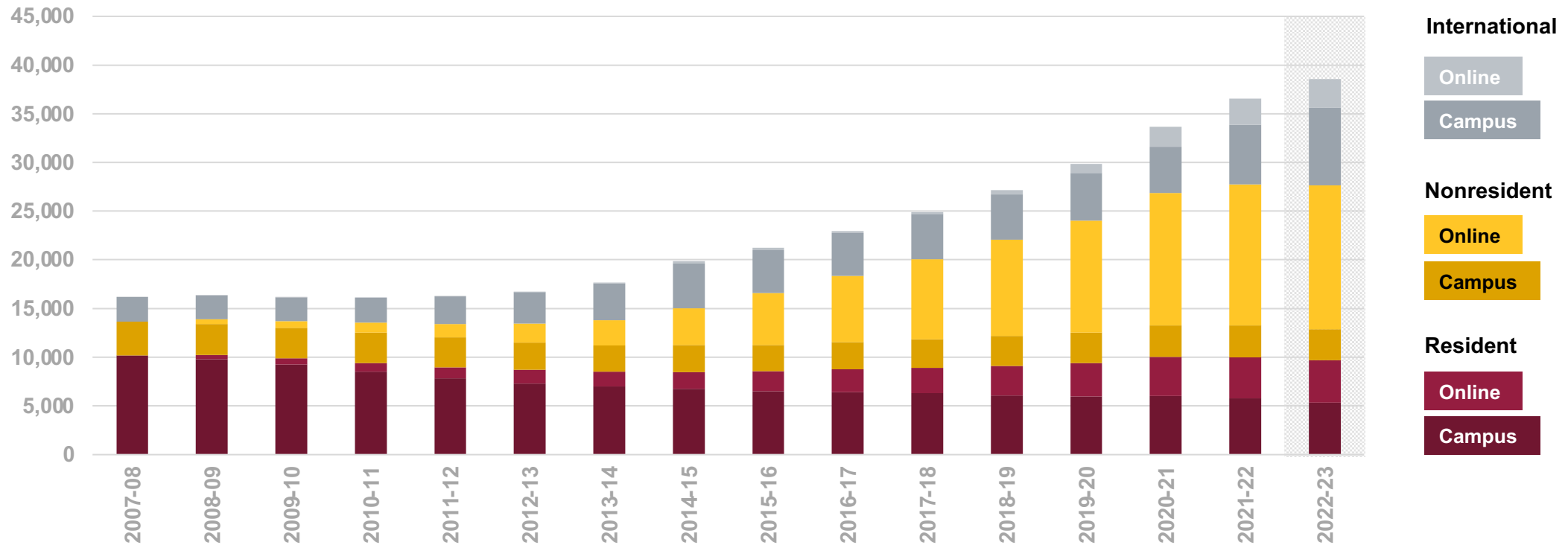
570

Arizona high schools represented

ASU creates access to graduate education for more students

Maintain the fundamental principle of accessibility to all students qualified to study at a research university

## Graduate Enrollment (AY 2007-08 to AY 2021-22, Estimate for AY 2022-23)

International
- Online
- Campus

Nonresident
- Online
- Campus

Resident
- Online
- Campus

Academic Year includes Fall/Spring/Summer. Level, campus/location, and residency status are based on the most recent enrolled term.

ASU expands access for Arizona high school graduates

Maintain university accessibility to match Arizona's socioeconomic diversity, with undifferentiated outcomes for success

Arizona First-Year Students Enrolled at ASU (Fall 2013 to Fall 2021)

8,593
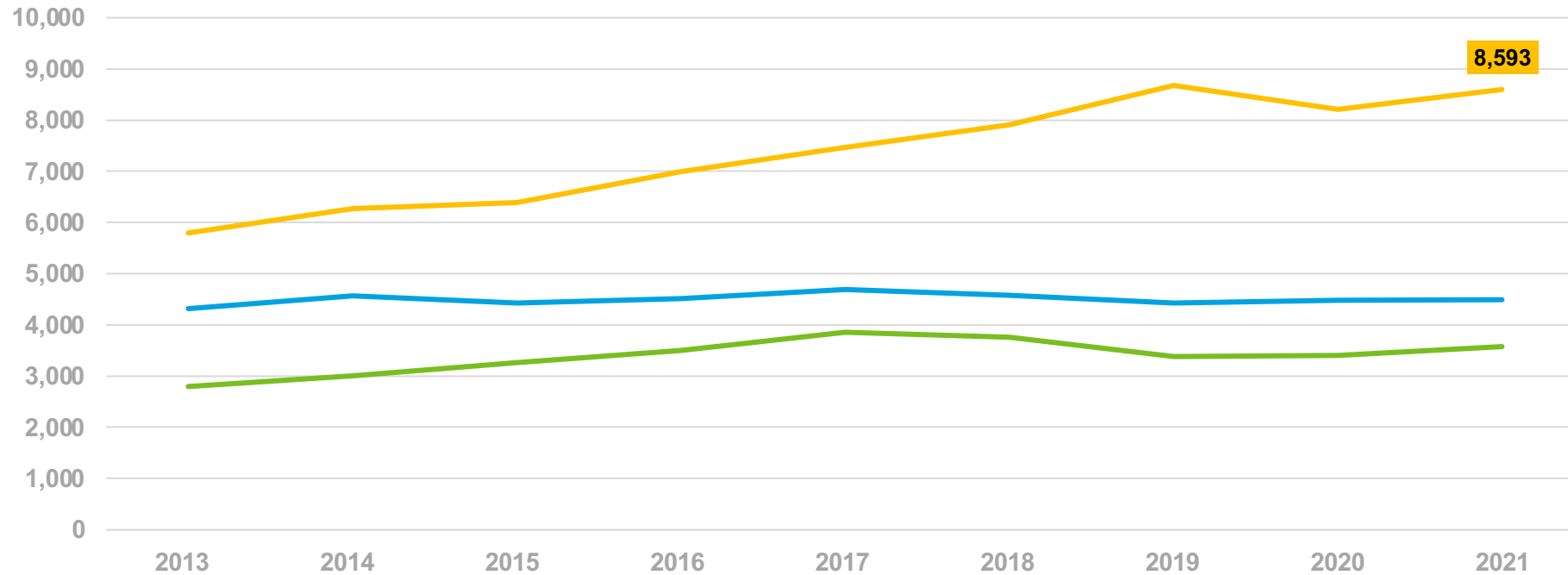
Arizona State University

University of Arizona

Northern Arizona University

ASU West and ASU Polytechnic campuses are critical to our service to Arizona

Maintain university accessibility to match Arizona's socioeconomic diversity, with undifferentiated outcomes for success
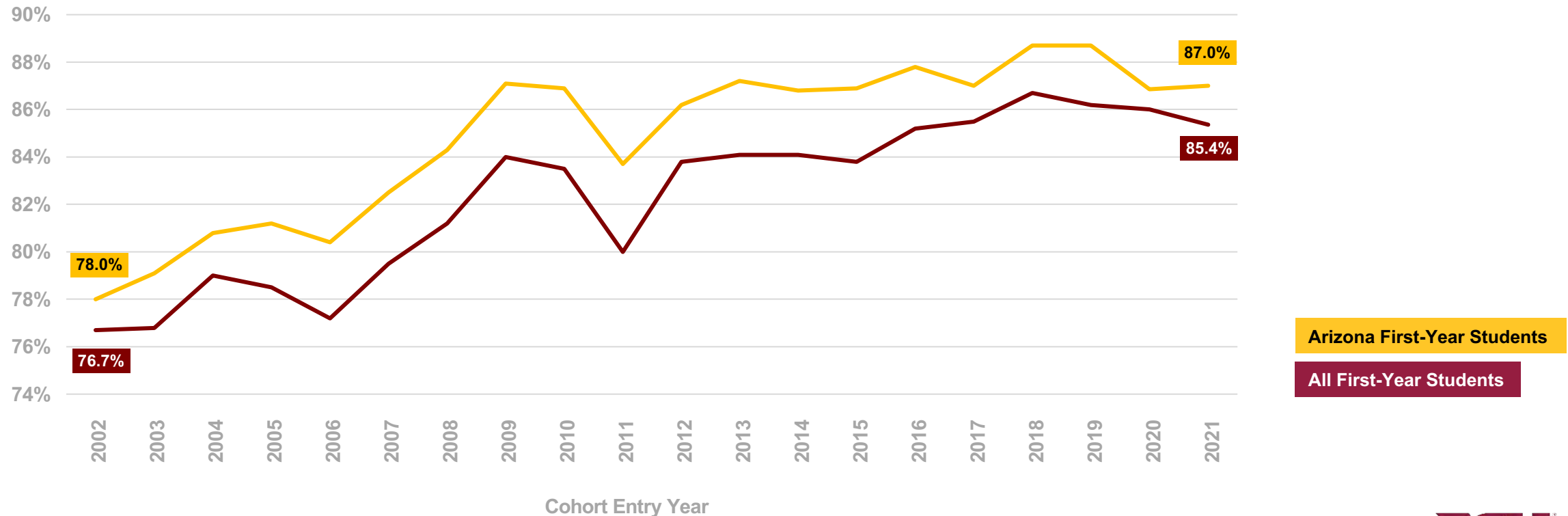

ASU Polytechnic

ASU West

ASU first-year retention is nearing 90%

Ensure that more than 90% of students continue studies beyond their first year

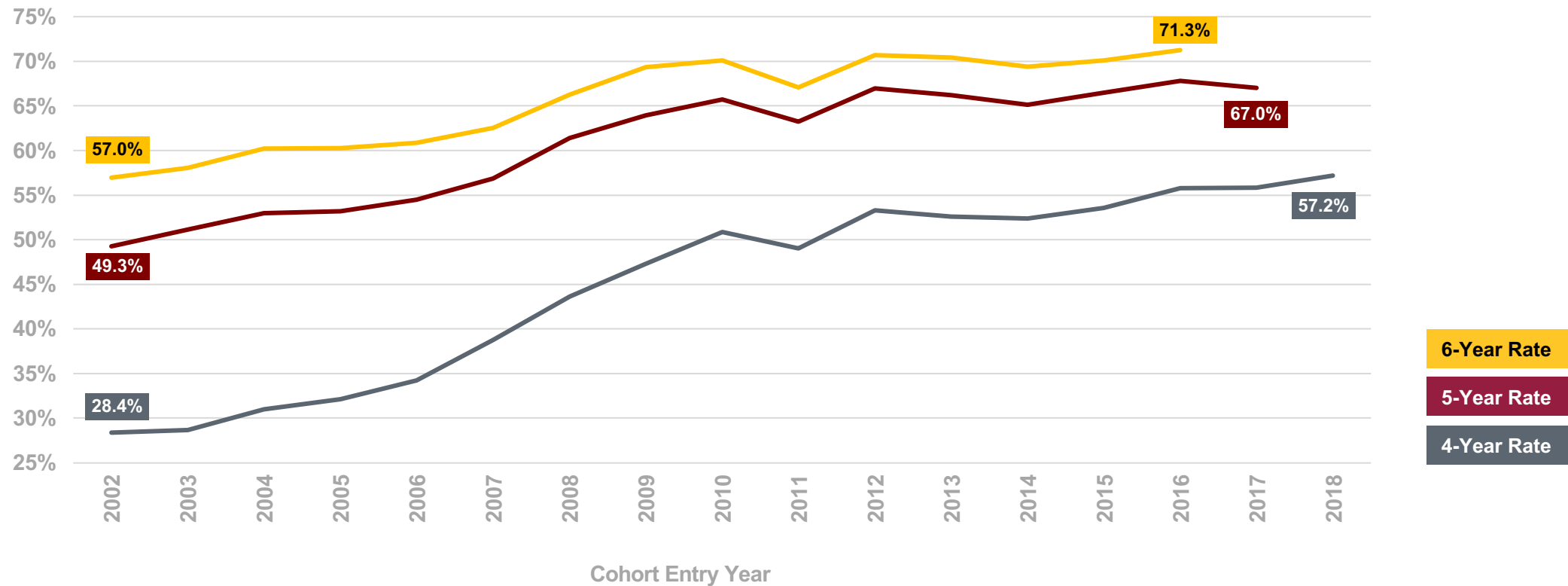## First-Year Student Retention Rates (Fall 2002 to Fall 2021)

Chart data points labeled: 78.0%, 87.0% (Arizona First-Year Students, yellow line); 76.7%, 85.4% (All First-Year Students, dark red line)

Arizona First-Year Students

All First-Year Students

Cohort Entry Year

X-axis: 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Y-axis: 74%, 76%, 78%, 80%, 82%, 84%, 86%, 88%, 90%

ASU

Graduation rates continue growth toward the 85% goal

Enhance university graduation rate to greater than 85% and more than 40,000 graduates

## First-Year Resident Student Graduation Rates (Fall 2002 to Fall 2018)

Legend:
- 6-Year Rate
- 5-Year Rate
- 4-Year Rate

6-Year Rate: 57.0% (2002) → 71.3% (2016)
5-Year Rate: 49.3% (2002) → 67.0% (2017)
4-Year Rate: 28.4% (2002) → 57.2% (2018)

Cohort Entry Year

ASU

ASU graduates more than 35,000 students annually

Enhance university graduation rate to greater than 85% and more than 40,000 graduates

Total Degrees by Year (AY 2002-03 to AY 2021-22, Estimate for AY 2022-23)

Graduate & Professional
- Online
- Campus

Bachelor's
- Online
- Campus
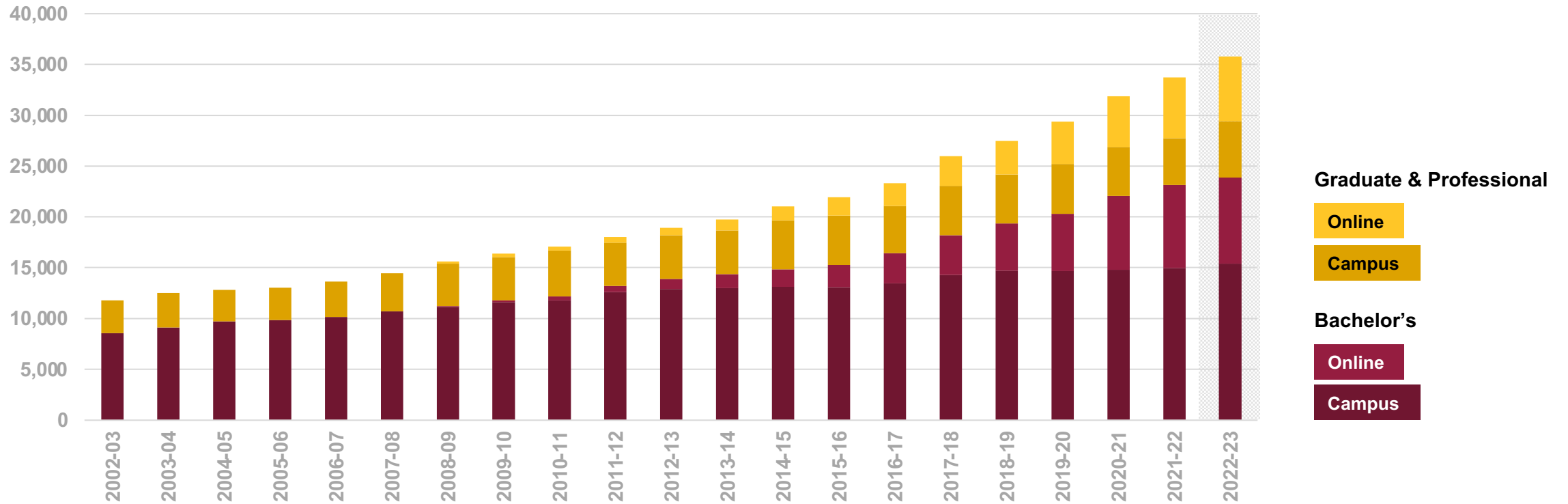
#1 in the U.S. for innovation

ASU ahead of MIT and Stanford

— U.S. News & World Report, 8 years, 2016–2023

BEST COLLEGES
U.S.News & WORLD REPORT
MOST INNOVATIVE
2022–2023

Continuously enhance quality while maintaining affordability

No. 1 in U.S. and No. 2 in the world for global impact

Times Higher Education, 2022

No. 6 in Total Research Expenditures among Institutions without a Medical School

National Science Foundation Higher Education Research and Development Rankings, 2021

ASU

ASU excellence earns recognition

Continuously enhance quality while maintaining affordability

No. 1 in U.S. for innovation

Ahead of MIT and Stanford

— U.S. News & World Report, 2016-2023

No. 1 in the U.S. and No. 2 in the world for global impact in research and stewardship

Ahead of Michigan State and Penn State

— Times Higher Education, 2022

A leader in undergraduate education

— The Princeton Review, 2023

Top 10 in the U.S. for total research expenditures among Universities without a medical school

ahead of Caltech and Carnegie Mellow University

— National Science Foundation HERD Survey, 2022

Recipient of the Carnegie Foundation Community Engagement Classification through 2025.

— Carnegie Foundation, 2015

No. 1 public university chosen by international students

— Institute of International Education, 2021

Top 10 'Best Buy' college in the U.S.

— The Fiske Guide to Colleges, 2023

'Top producing' university of elite scholars for 10 consecutive years

— Lorraine W. Frank Office of National Scholarships Advisement, 2022

No. 8 among worldwide universities granted U.S. patents

— National Academy of Inventors and the Intellectual Property Owners Association, 2022

No. 1 in Pac-12 with all-time best Academic Progress Rate

— NCAA, 2022

No. 2 producer of Teach for America corps members

— Teach For America, 2022

Graduate programs among the Top 10 in the U.S.

— U.S. News & World Report, 2023

A top-12 ranked law school

ahead of University of Illinois at Urbana-Champaign and University of California-Davis

— U.S. News & World Report, 2023

Top 10 in the U.S. for community and national service

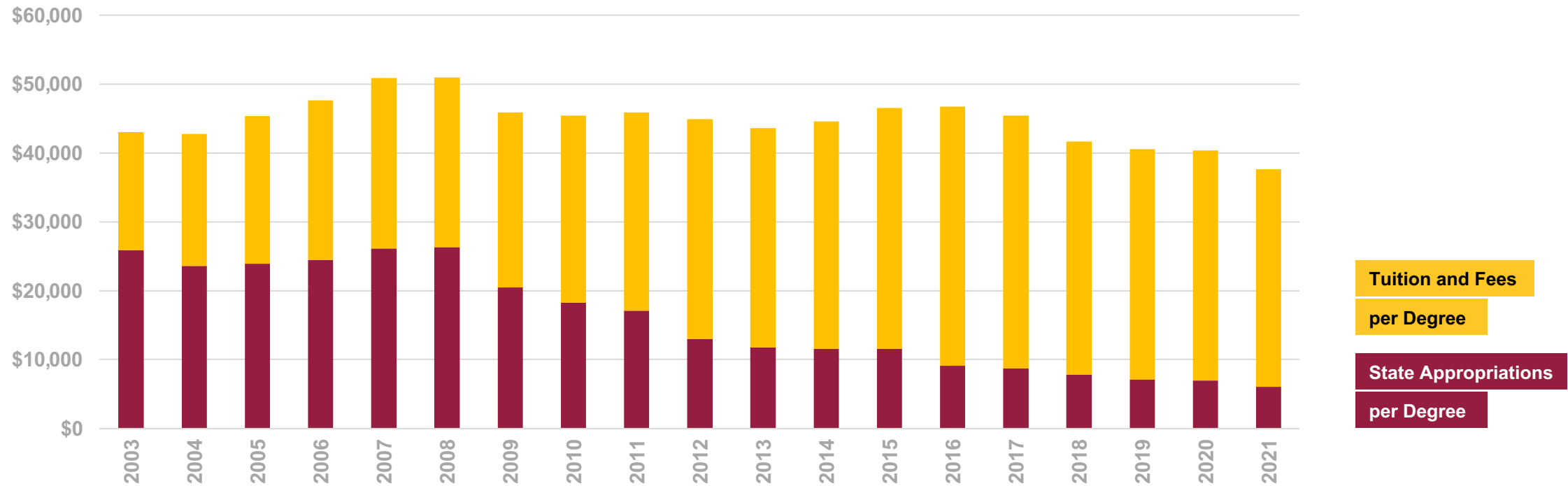ahead of Duke, UNC-Chapel Hill and Johns Hopkins

— Washington Monthly, 2022

Tuition supports ASU education given declines in state investment

Continuously enhance quality while maintaining affordability

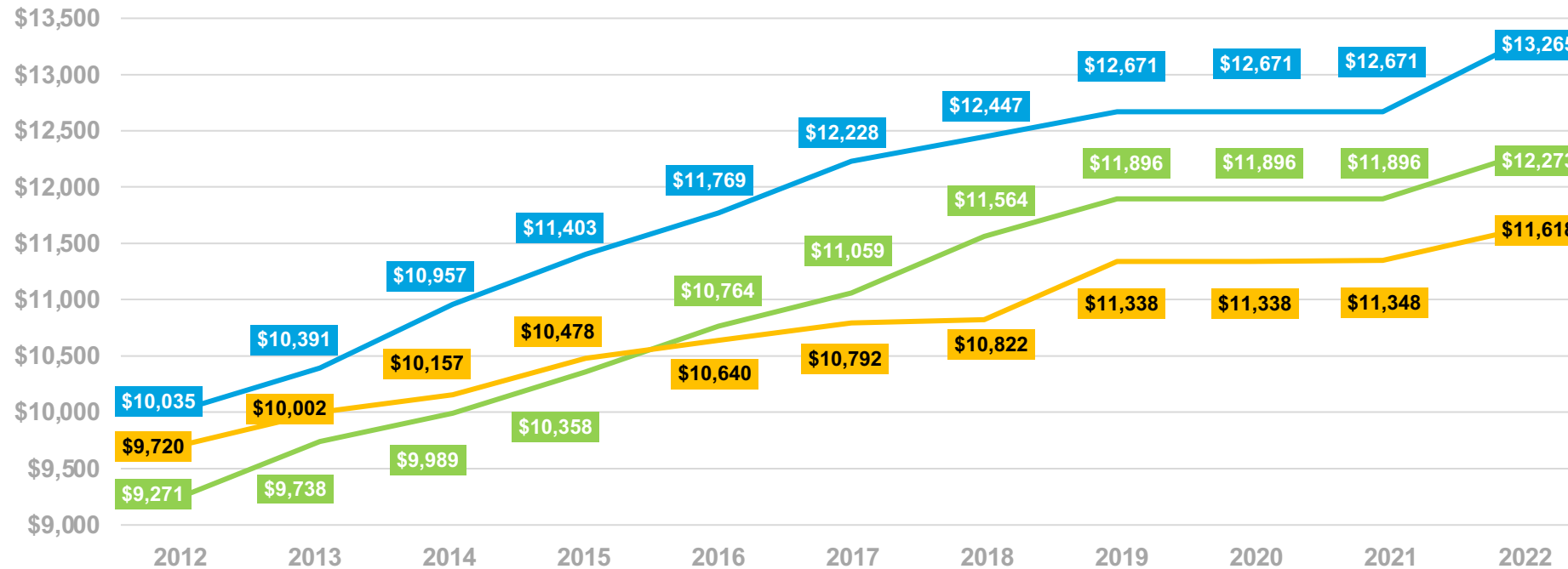## Tuition and Appropriations per Degree (FY 2003 to FY 2021) in 2003 Dollars

Tuition and Fees per Degree

State Appropriations per Degree

Amounts set to base year 2003 using Higher Education Price Index (HEPI). Source: Integrated Postsecondary Education Data System, Commonfund.

ASU

ASU has committed to modest annual tuition adjustments

Continuously enhance quality while maintaining affordability

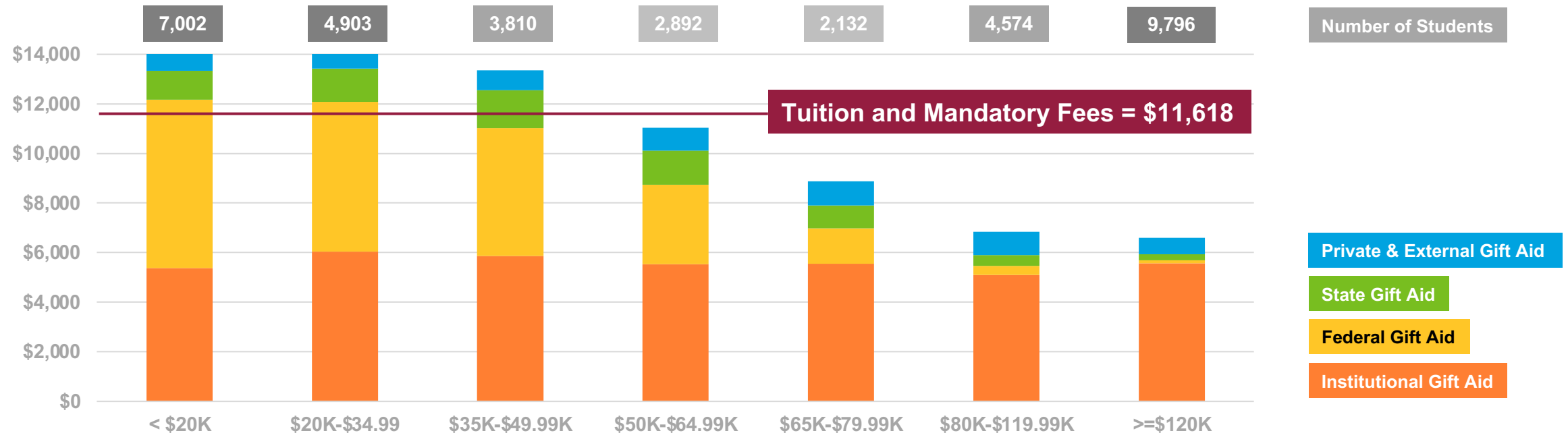## Tuition and Fees for New Resident First-Year Students (Fall 2012 to Fall 2022)

University of Arizona (blue):
- 2012: $10,035
- 2013: $10,391
- 2014: $10,957
- 2015: $11,403
- 2016: $11,769
- 2017: $12,228
- 2018: $12,447
- 2019: $12,671
- 2020: $12,671
- 2021: $12,671
- 2022: $13,265

Northern Arizona University (green):
- 2012: $9,271
- 2013: $9,738
- 2014: $9,989
- 2015: $10,358
- 2016: $10,764
- 2017: $11,059
- 2018: $11,564
- 2019: $11,896
- 2020: $11,896
- 2021: $11,896
- 2022: $12,273

Arizona State University (yellow):
- 2012: $9,720
- 2013: $10,002
- 2014: $10,157
- 2015: $10,478
- 2016: $10,640
- 2017: $10,792
- 2018: $10,822
- 2019: $11,338
- 2020: $11,338
- 2021: $11,348
- 2022: $11,618

University of Arizona

Northern Arizona University

Arizona State University

24

ASU remains affordable by providing significant gift aid

Continuously enhance quality while maintaining affordability

Estimated Average Gift Aid Awards by Family Income for Resident Undergraduate Students (2022-23)

							Number of Students
7,002	4,903	3,810	2,892	2,132	4,574	9,796	

Tuition and Mandatory Fees = $11,618

Legend:
- Private & External Gift Aid
- State Gift Aid
- Federal Gift Aid
- Institutional Gift Aid

Income categories: < $20K | $20K-$34.99 | $35K-$49.99K | $50K-$64.99K | $65K-$79.99K | $80K-$119.99K | >=$120K

Estimated values based on Fall aid patterns before Spring and Summer disbursements. Year-end actuals may differ.

ASU

Total online enrollment has continued to increase

Overcome geographic and financial barriers to education by enrolling 150,000 online degree-seeking students

Total Online Enrollment (AY 2007-08 to AY 2021-22, Estimate for AY 2022-23)

Legend: International, Nonresident, Resident

15,114

Academic Year includes Fall/Spring/Summer. Level, campus/location, and residency status are based on the most recent enrolled term.

ASU
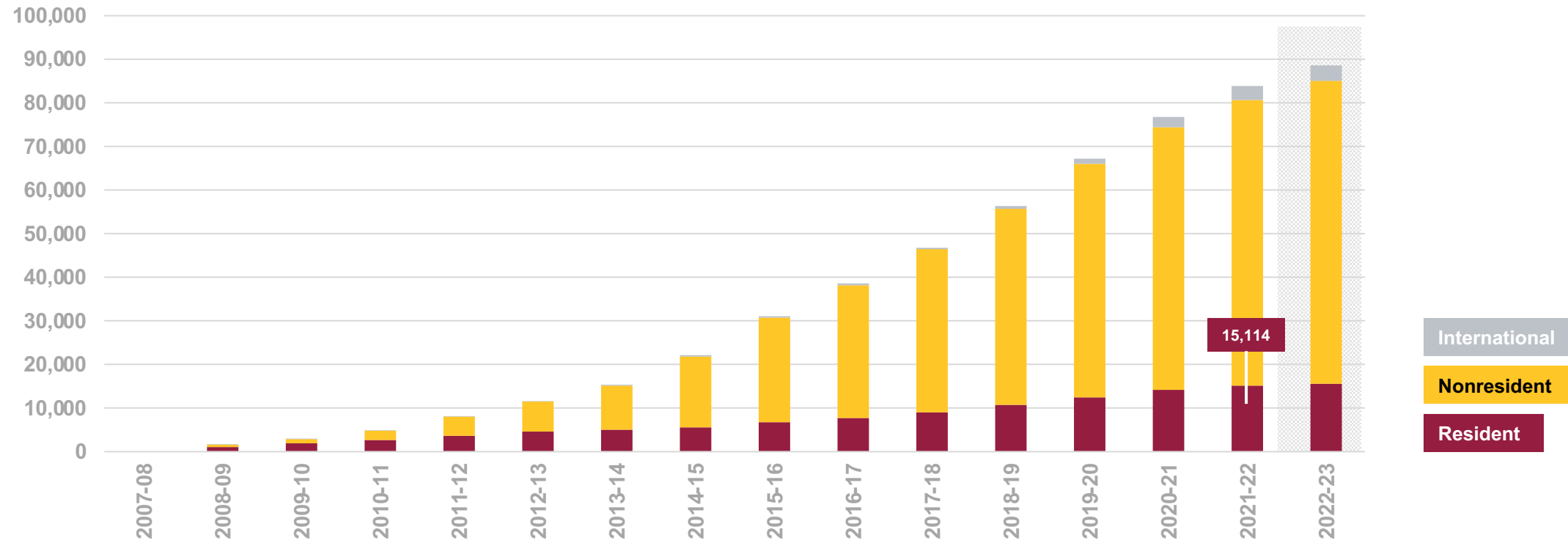
ASU continues to drive innovation for improved student success

Continuously increase measured student development and learning outcomes

Degree Selection and Progression
- Interactive degree planner
- Credit mobility suite
- Universal articulation agreements
- Exploratory majors

Teaching and Learning Innovation
- General education redesign
- MACS Accelerator
- Virtual learning environments
- Full launch of ASU Sync

Integrated Case Management
- Predictive analytics
- Proactive advising
- Holistic student data
- Health and wellness

Comprehensive Academic Support
- Work + Learn
- Experiential learning
- 24/7 academic support network
- University College redesign

ASU

NEO-STEM will transform science learning

NEO-BIO will power the first adaptive learning biology curriculum
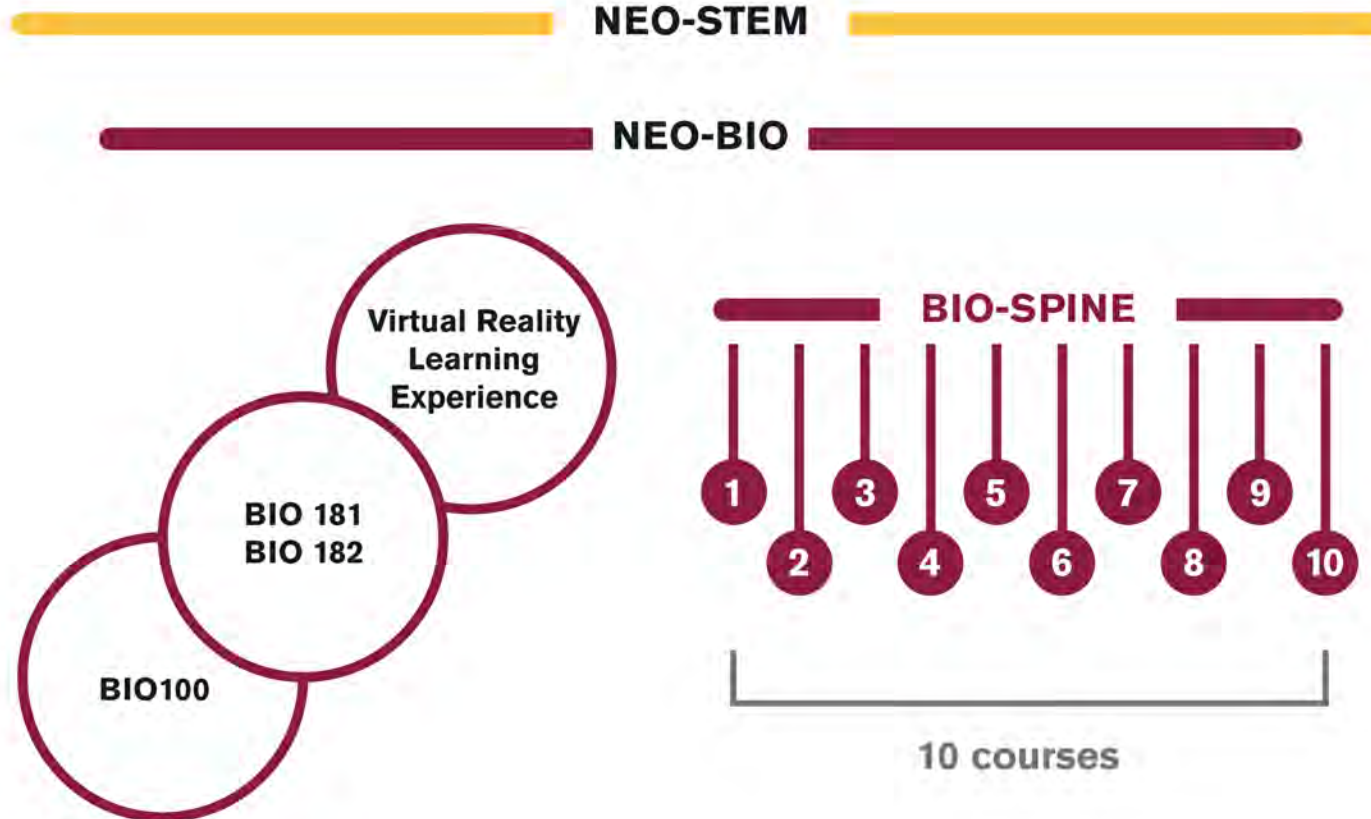
# Dreamscape Learn is transforming education through exploration

- Dreamscape Learn is a collaborative venture between Dreamscape Immersive and Arizona State University. Its mission is to improve learning outcomes by merging the most advanced experiential pedagogy with the entertainment industry's best cinematic storytelling.

- Since launching at ASU, over 14,000 students and guests have experiences Dreamscape Learn from 2020 to present.

- In a Spring 2022 study, students in DSL courses were **1.7 times more likely** to receive an A in lab assignments and rated their experience a 4.4 out of 5.

ASU is accessible to low-income students

Engage learners of all socioeconomic, geographic and demographic backgrounds

Full-Time First-Year Enrollment by Income (Fall 2002, Fall 2012, Fall 2022)
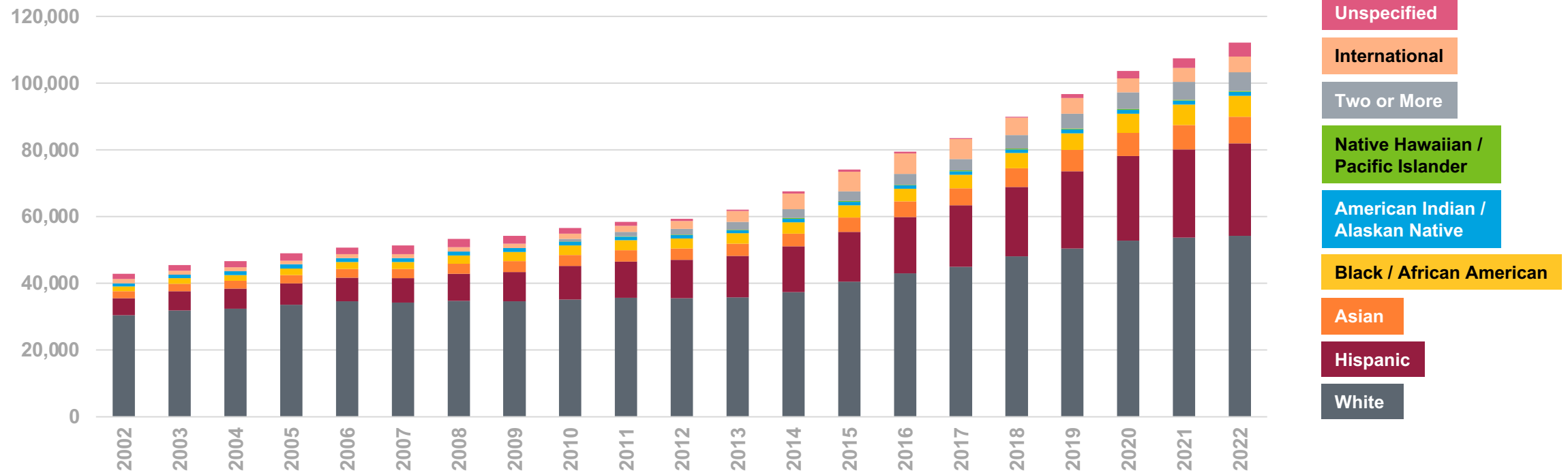
Fall 2002
Fall 2012
Fall 2022
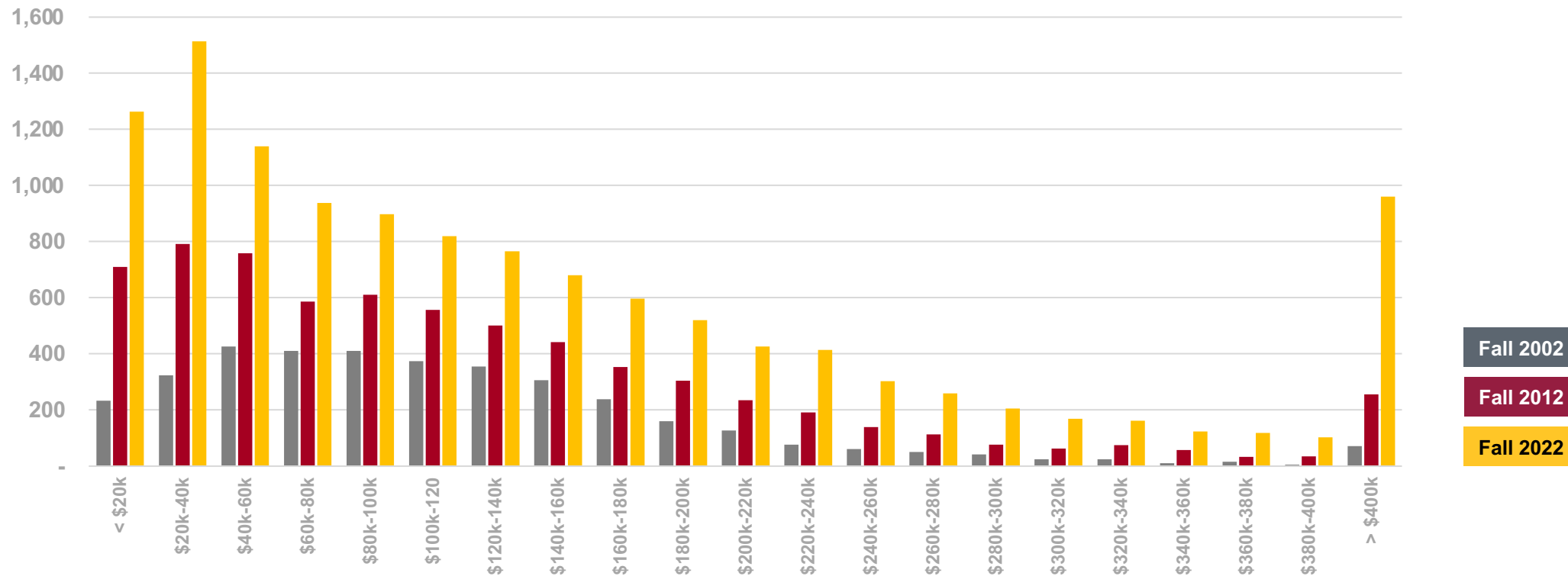
ASU serves students from diverse populations

Engage learners of all socioeconomic, geographic and demographic backgrounds

Total Undergraduate Enrollment by Race/Ethnicity (Fall 2002 to Fall 2022)

Legend:
- Unspecified
- International
- Two or More
- Native Hawaiian / Pacific Islander
- American Indian / Alaskan Native
- Black / African American
- Asian
- Hispanic
- White

Decades of work have led to Hispanic-Serving Institution designation

Engage learners of all socioeconomic, geographic and demographic backgrounds

SPARKS

WeGrad

me3

Hispanic-Mother Daughter Program

**DREAMzone**

Transfer Pathways

Access ASU

Decision Center for Educational Excellence

Enrollment of Pell Grant recipients and first-generation students continued to grow

Engage learners of all socioeconomic, geographic and demographic backgrounds

Change in Pell Grant Recipient and First-Generation Enrollments Relative to AY 2002-03 (AY 2002-03 to AY 2021-22)

+35,888
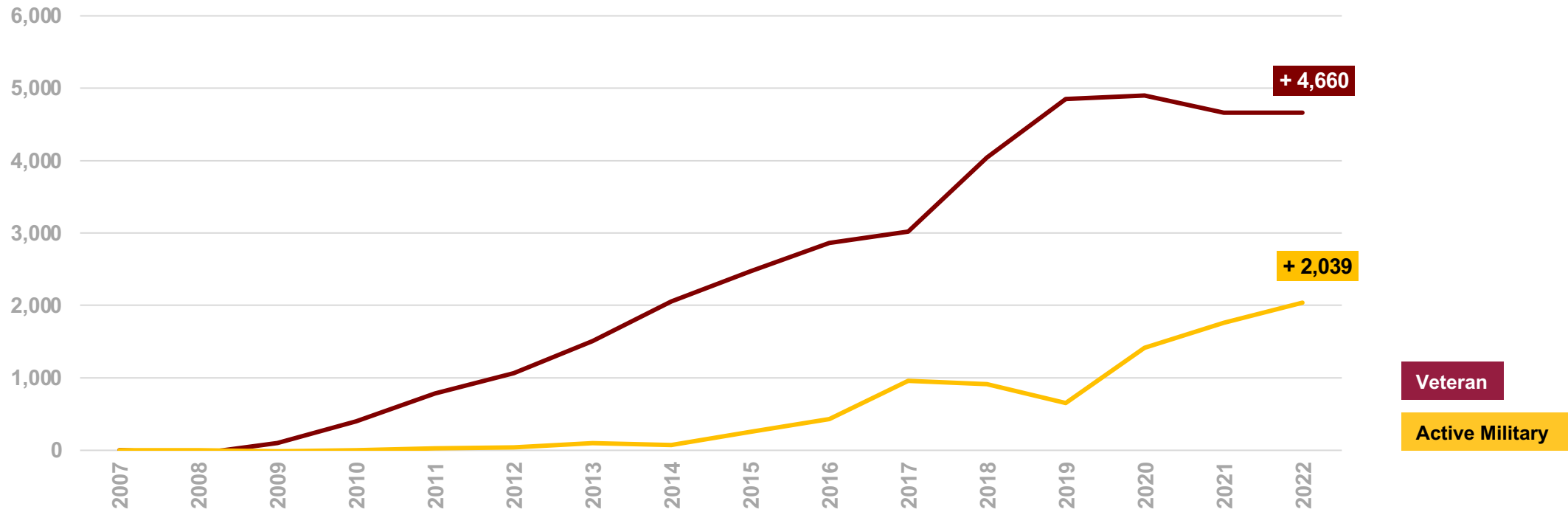
+24,142

Pell Recipients

First-Generation
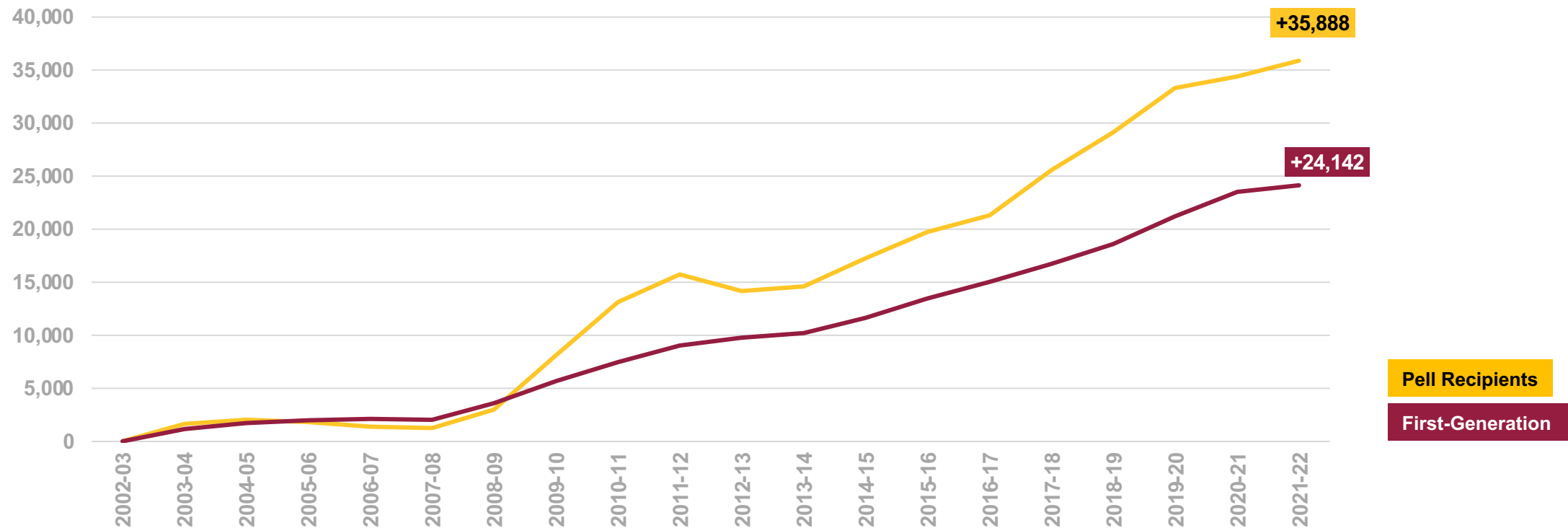
Veteran and active military enrollment has increased significantly since 2007

Engage learners of all socioeconomic, geographic and demographic backgrounds

Change in Military and Veteran Student Enrollments Relative to Fall 2007 (Fall 2007 to Fall 2022)

+ 4,660

+ 2,039

Veteran

Active Military

ASU engages learners from around the world

Engage learners of all socioeconomic, geographic and demographic backgrounds

No. 1

public university chosen by international students

Institute of International Education, 2021

Top 10 Countries

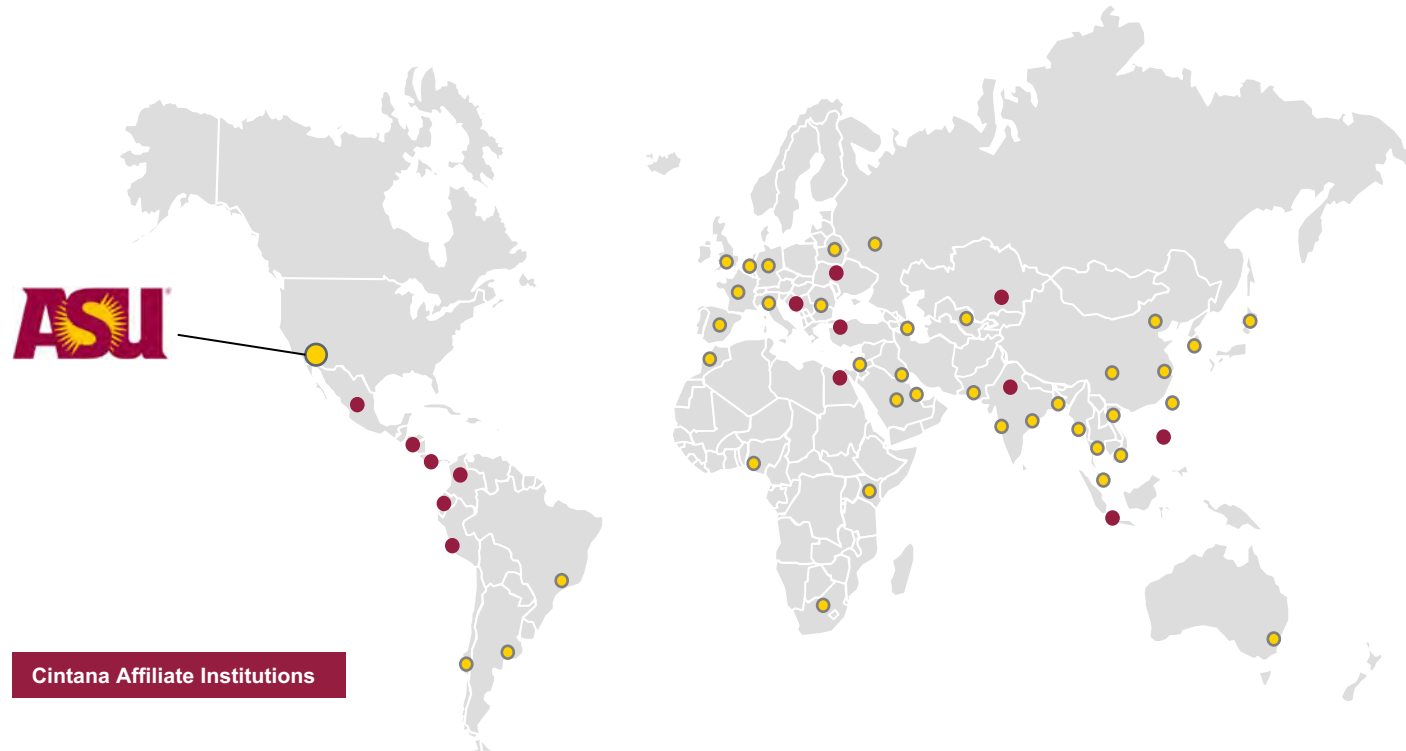|	
India	Taiwan
China	Vietnam
Saudi Arabia	Mexico
Canada	Egypt
Republic of Korea	United Arab Emirates

ASU

We are building a global university network to fuel impact

Engage learners of all socioeconomic, geographic and demographic backgrounds

Cintana Affiliate Institutions

In partnership with **Cintana Education,** ASU is building a global network of universities to increase access to quality higher education, with academic collaborations, student mobility and research and training projects.

Fourteen universities with more than 115,00 students in Colombia, Costa Rica, Ecuador, Egypt, India, Indonesia, Kazakhstan, Mexico, Montenegro, Philippines, Turkey and Ukraine are part of the ASU-Cintana Alliance and powered by ASU.

The network will expand to include **50 universities by 2030**.

ASU is engaged and serving learners on both coasts

Engage learners of all socioeconomic, geographic and demographic backgrounds

ASU California Center

ASU Barrett & O'Connor Center

Establish national standing in academic quality and impact of colleges and schools in every field

ASU

Establish national standing in academic quality and impact of colleges and schools in every field

- Advance and maintain national standing in academic quality for each college and school.

- Attain national standing in learning and post-graduation outcomes for students in all colleges and schools.

- Become the leading university academically (faculty, discovery, research, creativity) in at least one department or school within each college and school.

ASU

ASU is a leading knowledge enterprise

Advance and maintain national standing in academic quality for each college and school

National Science Foundation Higher Education Research and Development Rankings (2021)

Total Research Expenditures: 42 of 910 ahead of

THE UNIVERSITY OF CHICAGO · BROWN · PRINCETON UNIVERSITY · Caltech · UNIVERSITY of VIRGINIA · University of Colorado Boulder · VIRGINIA TECH.

UA ranked 36

Total Research Expenditures among Institutions without a Medical School: 6 of 750 ahead of

NC STATE UNIVERSITY · PRINCETON UNIVERSITY · Carnegie Mellon University / THE ROCKEFELLER UNIVERSITY / Science for the benefit of humanity · University of Colorado Boulder · UNIVERSITY OF NOTRE DAME · Caltech

NSF Funded Expenditures: 18 of 604 ahead of

PennState · JOHNS HOPKINS UNIVERSITY · USC University of Southern California · UCLA · Berkeley UNIVERSITY OF CALIFORNIA · THE UNIVERSITY OF ARIZONA. · HARVARD UNIVERSITY

ASU

ASU schools and colleges earn recognition

Advance and maintain national standing in academic quality for each college and school

A top ranked law school in the nation

(ahead of University of Illinois at Urbana-Champaign, University California-Davis, and University of California-Irvine)

— U.S. News & World Report, 2023

No. 1 journalism school in overall programs for creative achievement

— Broadcast Education Association, 2022

W. P. Carey School of Business has 29 degree programs, both undergraduate and graduate and including online that rank among the country's top 25.

— U.S. News & World Report, 2023

Two graduate fine arts programs in ASU's Herberger Institute of Design and the Arts rank in the U.S. top 10.

— U.S. News & World Report, 2020

Mary Lou Fulton Teachers College is No. 12 in U.S. News & World Report's annual rankings of America's best graduate education programs and No. 4 among U.S. public universities.

— U.S. News & World Report, 2023

School of Public Affairs holds eight top 10 spots in U.S. News & World Report graduate programs rankings.

— U.S. News & World Report, 2021-2023

W. P. Carey School of Business has 6 Top 10 online graduate programs.

— U.S. News & World Report, 2022

Watts College of Public Service and Community Solutions has seven graduate programs ranked in the Top 10 nationally.

— U.S. News & World Report, 2023

School of Earth and Space Exploration ranks No. 12 among graduate schools for earth sciences

(ahead of Yale, Cornell, Rice, Virginia Tech and Ohio State).

— U.S. News & World Report, 2023

Top 20 for earned doctorates.

— National Science Foundation, 2022

ASU Online is among the top 10 for bachelor's degrees in the U.S. five years in a row.

— U.S. News & World Report, 2022

No. 1 in visual and performing arts doctorates.

— National Science Foundation, 2022

A top university worldwide for academic reputation.

— Times Higher Education World Reputation Rankings, 202

The Thunderbird School of Global Management is ranked No. 1 in the world for international trade

(ahead of Harvard, MIT and Stanford)

— QS International Trade Rankings, 2023

ASU

Arizona students exemplify excellence at ASU

Attain national standing in learning and post-graduation outcomes for students in all colleges and schools

Rhodes Scholarship Winner

Nathaniel Ross (2022)
Barrett, The Honors College

Biological Sciences, Political Science,
Applied Quantitative, Science and History

Master of Science in Biology
and Society (May 2023)

Truman Scholar Finalist (2022)

Udall Scholar (2021)

Finn Scholar (2019)

Marshall Scholarship Winner

Katie Sue Pascavis (2023)
Ira A. Fulton Schools of Engineering

Mechanical Engineering and
Global Health

Goldwater Scholarship for Excellence
in STEM Research (2022)

Udall Scholar (2022)

President, Engineers Without
Borders at ASU

Truman Scholarship Winner

Armando Montero (2023)
Barrett, The Honors College

Political Science, Economics and Health

Youngest-ever Tempe Union High School
District governing board (2020)

Maricopa County Co-Director,
Arizona School Boards Association

ASU Policy Analyst (2021-)

ASU

ASU graduates are highly successful in the workforce

Attain national standing in learning and post-graduation outcomes for students in all colleges and schools

#2

Ranking in Teach for America recruitment

#5

Wall Street Journal ranking of top universities favored by employers (ahead of Penn State, Texas A&M, University of Illinois and Purdue).

#9

Forbes ranking of U.S. universities with alumni working at Fortune 500 companies.

Top 10

SHL survey university ranking for technology hires (2020).

#13

Times Higher Education ranking of U.S. universities producing the most employable graduates (ahead of John Hopkins, Georgia Tech and UCLA).

#34

Global Employability Rankings Survey of U.S. universities producing the most employable graduates (ahead of John Hopkins, Georgia Tech and UCLA).

82%

Percentage of new Fulton Schools of Engineering (FSE) graduates that were employed or received a job offer within 90 days of graduation.

51%

Percentage of FSE students participating in student teaching, field experience, clinical rotations, practicums or internships.

100%

Percentage of the 2021 classes of Master of Taxation and Master of Science in Information Systems Management that were employed 6 months after graduation.

ASU

ASU academic programs are top ranked nationally

Become the leading university academically (faculty, discovery, research, creativity) in at least one department or school within each college and school

No. 1 Best Online Programs - Bachelor's, Business

W. P. Carey School of Business

— U.S. News & World Report

No. 2 Best Graduate School Rankings, Project Management

W. P. Carey School of Business

— U.S. News & World Report

No. 2 Best Undergraduate Business Programs Rankings, Supply Chain Management/ Logistics

W. P. Carey School of Business

— U.S. News & World Report

No. 1 Survey of Earned Doctorates, Visual and Performing Arts

Herberger Institute for Design and the Arts

— National Science Foundation

No. 1 Best Online Master's Education Programs, Education: Ed Administration & Supervision

Mary Lou Fulton Teachers College

— U.S. News & World Report

No. 1 Best Online Master's Education Programs, Education: Ed/Instructional Media Design

Mary Lou Fulton Teachers College

— U.S. News & World Report

No. 2 Best Online Master's Education Programs, Education: Curriculum & Instruction

Mary Lou Fulton Teachers College

— U.S. News & World Report

No. 2 Best Online Master's Engineering Programs, Engineering: Electrical

Ira A Fulton Schools of Engineering

— U.S. News & World Report

No. 3 Best Online Master's Engineering Programs, Engineering: Management

Ira A Fulton Schools of Engineering

— U.S. News & World Report

No. 4 Best Online Programs - Bachelor's, Psychology

Integrative Sciences and the Arts

— U.S. News & World Report

No. 4 Best Graduate School Rankings, Legal Writing

Sandra Day O'Connor College of Law

— U.S. News & World Report

No. 1 Best Graduate School Rankings, Homeland/National Security

Watts College of Public Service and Community Solutions

— U.S. News & World Report

No. 2 Best Graduate School Rankings, Criminology

Watts College of Public Service and Community Solutions

— U.S. News & World Report

No. 3 Best Graduate School Rankings, Geochemistry

The College

— U.S. News & World Report

ASU

Expand ASU's role as <u>the</u> leading global center for interdisciplinary research, discovery and development by 2028

ASU

Expand ASU's role as the leading global center for interdisciplinary research, discovery and development

- Launch the prototype medical center for the planet.

- Become <u>the</u> leading American center for discovery and scholarship in the integrated social sciences and comprehensive arts and sciences.

- Enhance research competitiveness to more than $1 billion in annual research expenditures.

- Drive regional economic competitiveness through research, discovery and socioeconomically integrated programs.

- Serve as a leading American center for innovation and entrepreneurship.

- Create the leading global center for education and learning technology.

ASU

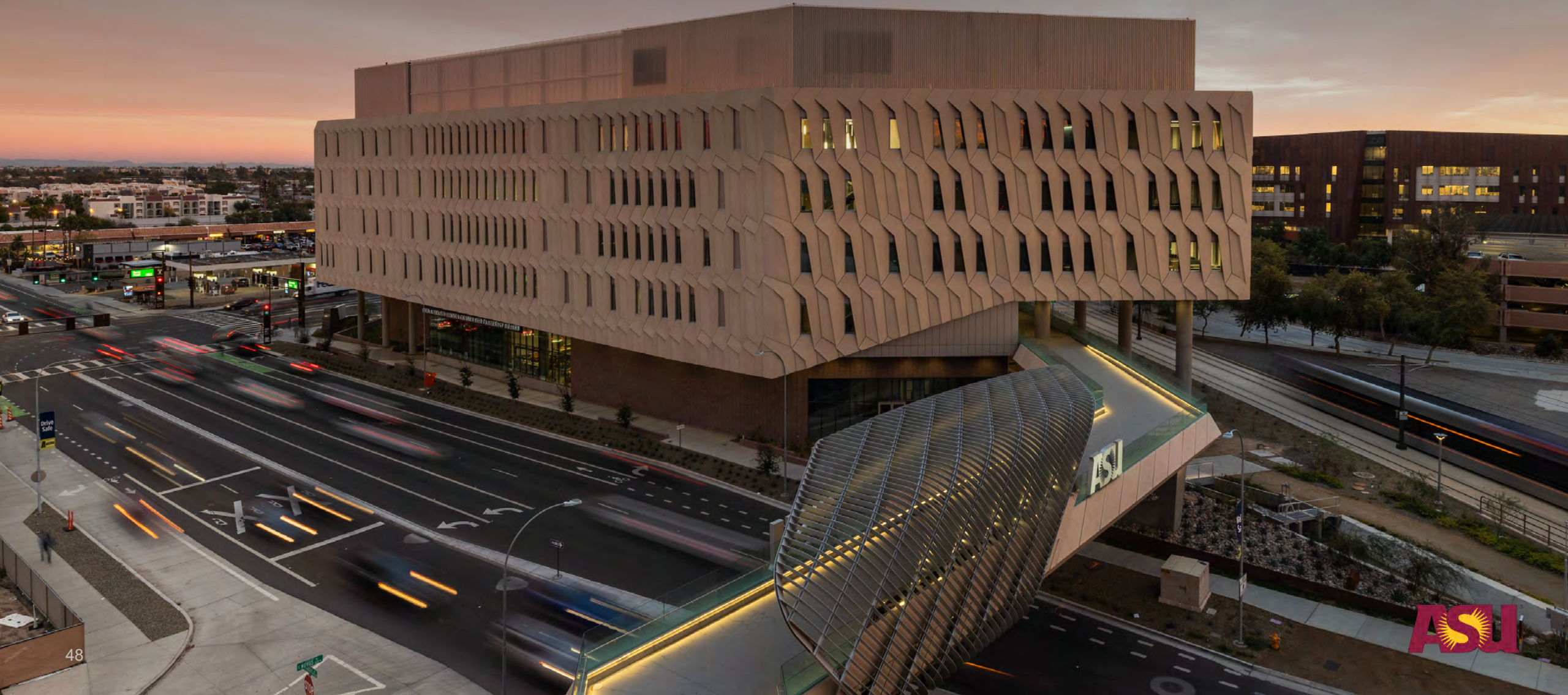# Julie Ann Wrigley Global Futures Laboratory is the prototype medical center for the planet

Launch the prototype medical center for the planet

Rob and Melani Walton Center for Planetary Health

Launch the prototype medical center for the planet

Bermuda Institute of Ocean Sciences

Launch the prototype medical center for the planet

Center for Global Discovery and Conservation Science, Hilo

Launch the prototype medical center for the planet

ASU leads discovery in the humanities and social sciences

National Science Foundation Higher Education Research and Development Rankings (2021)

Transdisciplinary (other sciences): 1 of 253 ahead of

Northwestern University • University of Pittsburgh • JOHNS HOPKINS UNIVERSITY • THE OHIO STATE UNIVERSITY • Massachusetts Institute of Technology • MICHIGAN STATE UNIVERSITY • THE UNIVERSITY OF ARIZONA.

Social Sciences: 4 of 490 ahead of

Cornell University • UCLA • THE UNIVERSITY of NORTH CAROLINA at CHAPEL HILL • Berkeley UNIVERSITY OF CALIFORNIA • THE UNIVERSITY OF ARIZONA. • PennState • Penn University of Pennsylvania

Humanities: 15 of 400 ahead of

Yale • Northwestern University • UNIVERSITY of VIRGINIA • PennState • THE UNIVERSITY OF ARIZONA. • EMORY UNIVERSITY • UCLA

ASU

ASU catalyzes a future of sustained prosperity for Arizona

ASU plays a key role in Arizona's New Economy Initiative, which will:

- Create **40,000 n**ew high-wage jobs by 2041.
- Increase economic output to **$6.9 billion.**
- **Double** the return on the state's investment by 2032.

The New Economy Initiative builds on ASU's role as a catalyst for economic growth and resilience and two decades of enabling accessible, high-quality education and innovative research that meets the needs of the market and society.

Scale of Fulton Schools of Engineering drives regional economic outcomes

Drive regional economic competitiveness through research, discovery and socioeconomically integrated programs

School of Biological and Health Systems Engineering	School of Computing and Augmented Intelligence Engineering	School of Electrical, Computer and Energy Engineering	School for Engineering of Matter, Transport and Energy	School of Sustainable Engineering and the Built Environment	The Polytechnic School	School of Manufacturing Systems and Networks
811 Students 659 Undergraduate 152 graduate	**11,320 Students** 7,560 undergraduate 3,760 graduate	**3,691 Students** 2,501 undergraduate 1,190 graduate	**4,608 Students** 3,536 undergraduate 1,072 graduate	**2,332 Students** 1,491 undergraduate 841 graduate	**6,877 Students** 5,573 undergraduate 1,304 graduate	**121 Students** 50 Undergraduate 71 Graduate

7 interdisciplinary programs **26 undergraduate programs** **48 graduate programs** **2 campuses + ASU Online** **Fall 2022: 30,297 Students**

*Includes 537 students who are non-degree seeking or who are enrolled in "Dean's Office Programs that do not reside in a school.

The Global School

Advancing engineering design on a global scale

The Engineering and Design Institute: London (TEDI)

ASU KING'S College LONDON UNSW THE UNIVERSITY OF NEW SOUTH WALES

Produce new kinds of graduates:
- Creators and innovators
- Entrepreneurs and problem solvers
- Global citizens who are the engineers and technologists of the future

ASU-Cintana Alliance

ASU CINTANA EDUCATION

Global network of innovative and forward-looking universities
- Coordinated degree programs
- International exchange programs for students and faculty
- Research collaboration opportunities

ASU

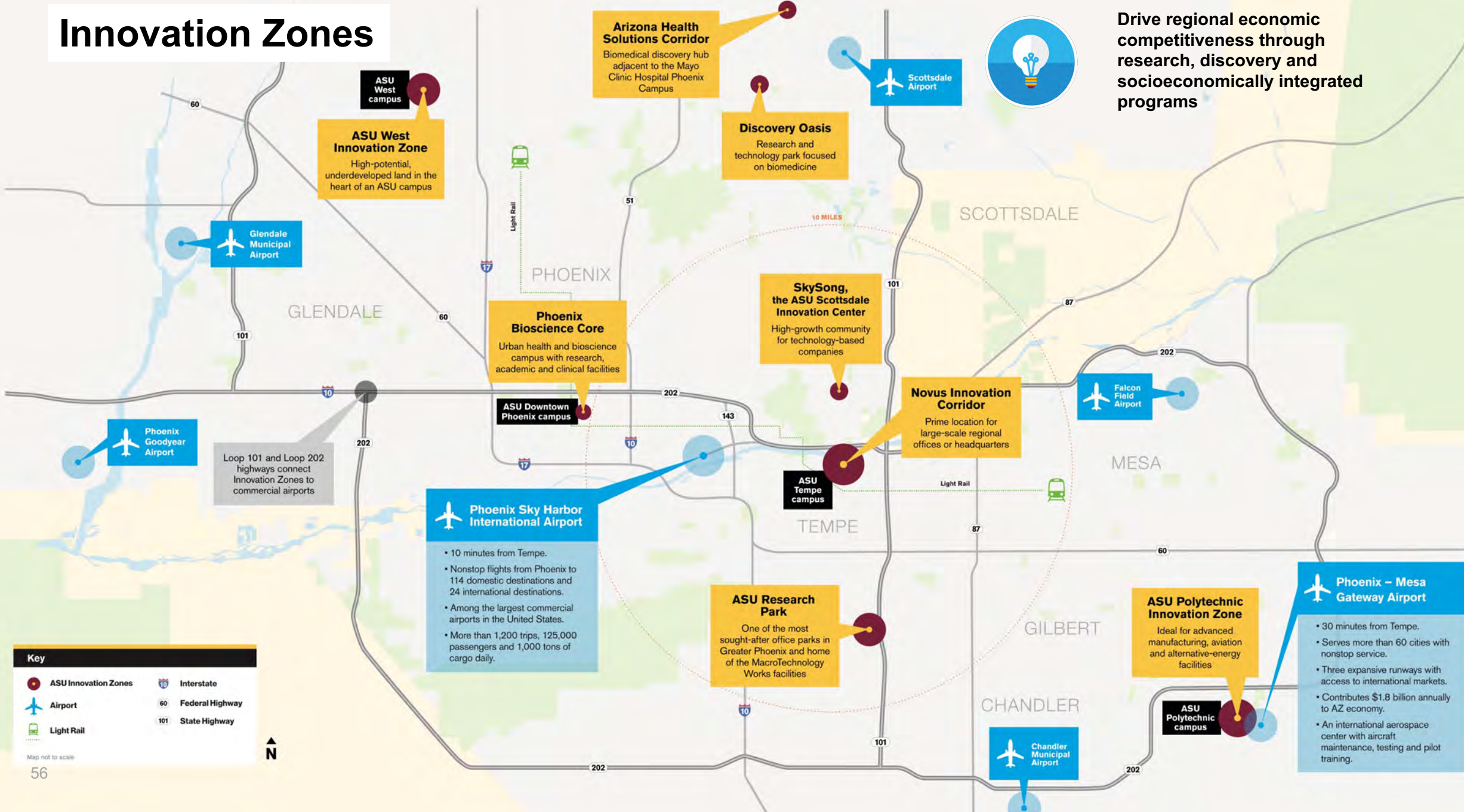# Fulton School of Manufacturing Systems and Networks

Drive regional economic competitiveness through research, discovery and socioeconomically integrated programs

Innovation Zones

Drive regional economic competitiveness through research, discovery and socioeconomically integrated programs

ASU West campus

ASU West Innovation Zone
High-potential, underdeveloped land in the heart of an ASU campus

Arizona Health Solutions Corridor
Biomedical discovery hub adjacent to the Mayo Clinic Hospital Phoenix Campus

Discovery Oasis
Research and technology park focused on biomedicine

Scottsdale Airport

Glendale Municipal Airport

PHOENIX

GLENDALE

SCOTTSDALE

10 MILES

Phoenix Bioscience Core
Urban health and bioscience campus with research, academic and clinical facilities

SkySong, the ASU Scottsdale Innovation Center
High-growth community for technology-based companies

Novus Innovation Corridor
Prime location for large-scale regional offices or headquarters

Falcon Field Airport

ASU Downtown Phoenix campus

ASU Tempe campus

MESA

Phoenix Goodyear Airport

Loop 101 and Loop 202 highways connect Innovation Zones to commercial airports

Light Rail

Phoenix Sky Harbor International Airport
- 10 minutes from Tempe.
- Nonstop flights from Phoenix to 114 domestic destinations and 24 international destinations.
- Among the largest commercial airports in the United States.
- More than 1,200 trips, 125,000 passengers and 1,000 tons of cargo daily.

TEMPE

ASU Research Park
One of the most sought-after office parks in Greater Phoenix and home of the MacroTechnology Works facilities

ASU Polytechnic Innovation Zone
Ideal for advanced manufacturing, aviation and alternative-energy facilities

Phoenix – Mesa Gateway Airport
- 30 minutes from Tempe.
- Serves more than 60 cities with nonstop service.
- Three expansive runways with access to international markets.
- Contributes $1.8 billion annually to AZ economy.
- An international aerospace center with aircraft maintenance, testing and pilot training.

GILBERT

CHANDLER

ASU Polytechnic campus

Chandler Municipal Airport

Key

- ● ASU Innovation Zones
- ✈ Airport
- 🚈 Light Rail
- 🛣 Interstate
- 🛣 Federal Highway
- 🛣 State Highway

Map not to scale

N

Novus

Drive regional economic competitiveness through research, discovery and socioeconomically integrated programs

Media and Immersive eXperience (MIX) Center

Drive regional economic competitiveness through research, discovery and socioeconomically integrated programs

Wexford Phoenix Bioscience Core Campus

Drive regional economic competitiveness through research, discovery and socioeconomically integrated programs

Omni Tempe Hotel at ASU

Drive regional economic competitiveness through research, discovery and socioeconomically integrated programs

Skysong Innovations garners worldwide recognition

Serve as a leading American center for innovation and entrepreneurship

200+
New companies launched by ASU entrepreneurs working with Skysong Innovations

$1.2B
Outside investments attracted by new companies

6th
In best tech transfer for universities without a medical school 21st overall ahead of:

Northwestern University

HARVARD UNIVERSITY

Duke UNIVERSITY

8th
In U.S. utility patents issued to universities worldwide in 2021 ahead of:

Caltech

JOHNS HOPKINS UNIVERSITY

UNIVERSITY OF MICHIGAN

11th
In innovation productivity among large comprehensive research universities ahead of:

Stanford University

Penn UNIVERSITY of PENNSYLVANIA

UNIVERSITY of WASHINGTON

ASU

Skysong Innovations impact spans sectors

Serve as a leading American center for innovation and entrepreneurship

ASU's startups are changing the way the world solves problems:

• Closing critical gaps in home health care
• DNA origami to fight cancerous tumors
• Better autism diagnosis and treatment
• A "metabolic analyzer" to aid weight loss and manage fitness
• A vaccine that could prevent cancer in dogs

External Financing Reported by ASU Startups, by Sector, Since 2003 (Dollars in Millions)

Bar chart showing External Financing by Sector:
- Sustainability: ~$530M
- Devices: ~$215M
- Energy: ~$190M
- Diagnostics: ~$150M
- Therapeutics: ~$90M
- Tools & Reagents: ~$40M
- Vaccines: ~$35M
- Software & Networking: ~$25M
- Materials & Nanotech: ~$5M

ASU
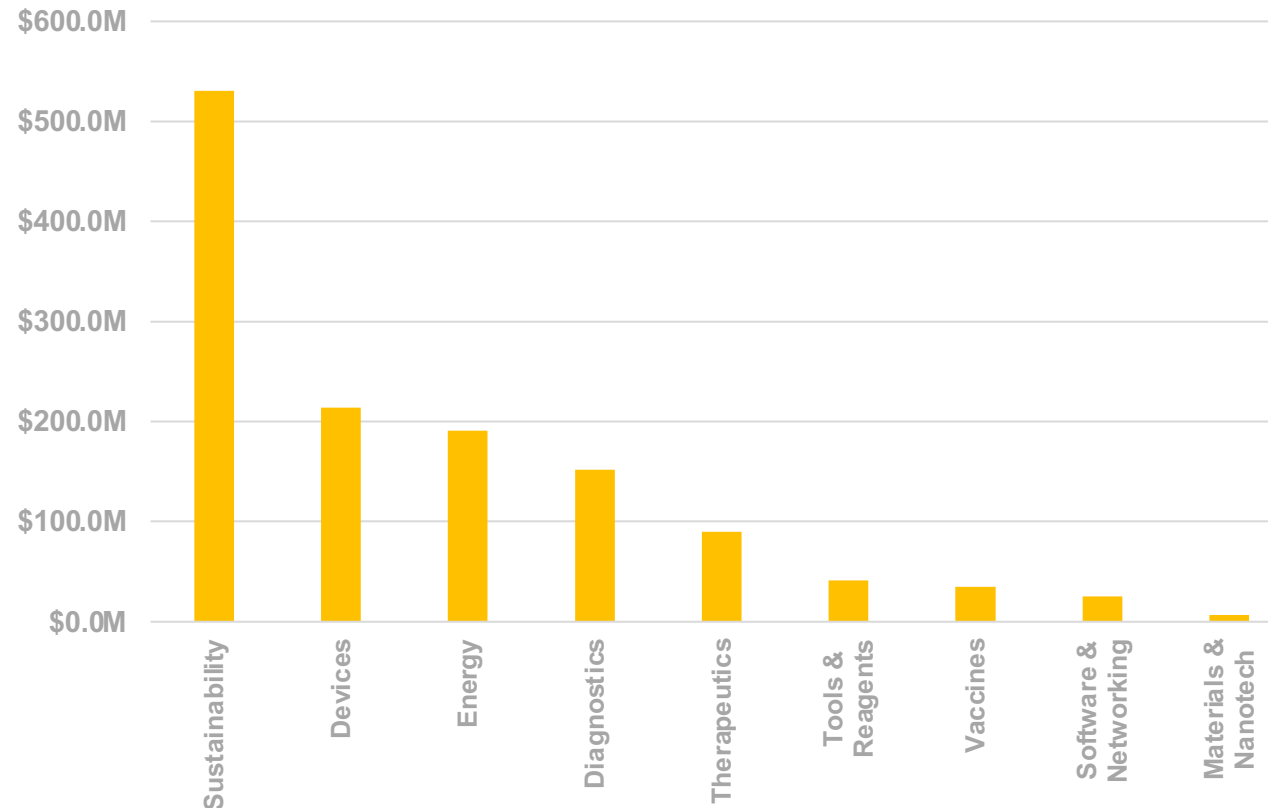
Fusion on First

Serve as a leading American center for innovation and entrepreneurship

ASU Digital Learning Platform powers teaching and learning

Create the leading global center for education and learning technology
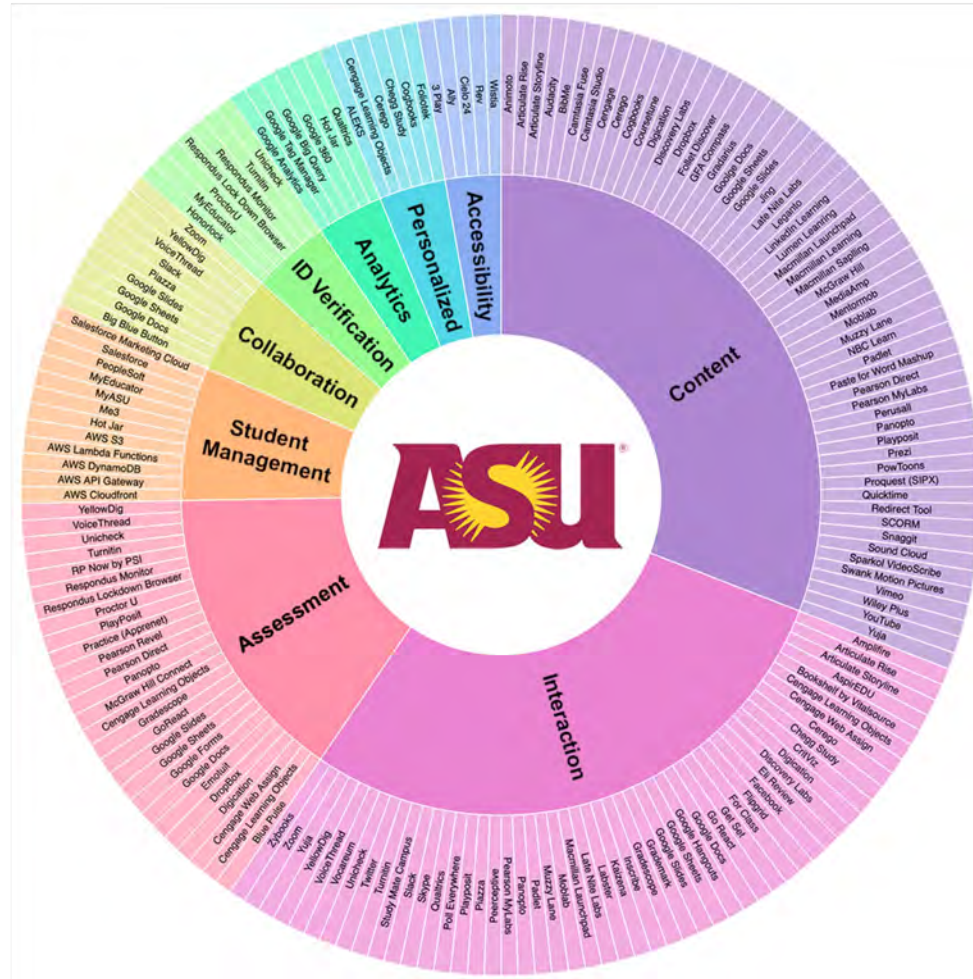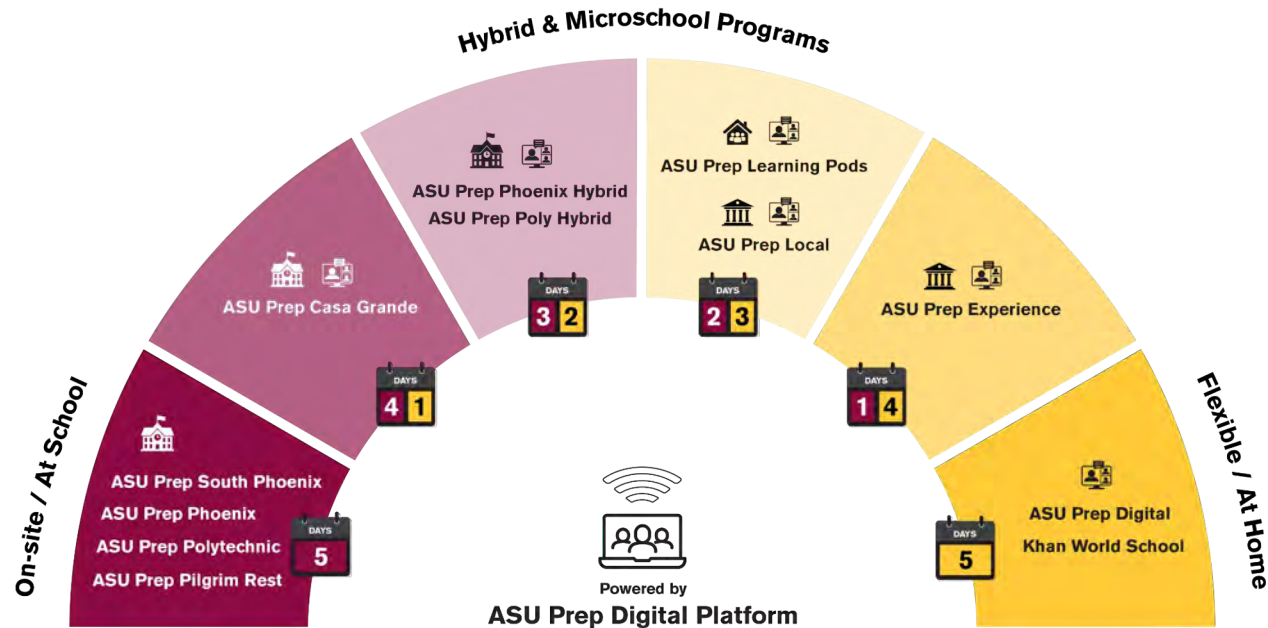
Enhance our local impact and social embeddedness

Enhance our local impact and social embeddedness

- Leverage ASU as a public enterprise to strengthen Arizona's interactive network of teaching, learning, and discovery resources.

- Co-develop solutions to the critical social, technical, cultural and environmental issues facing 21st-century Arizona, ensuring sustainability and resilience.

- Meet the needs of 21st-century Universal Learners through personalized learning pathways that promote adaptability to emergent social and technological changes.

ASU Prep offers varied learning models to facilitate broad access

Leverage ASU as a public enterprise to strengthen Arizona's interactive network of teaching, learning, and discovery resources

Hybrid & Microschool Programs

On-site / At School

ASU Prep Phoenix Hybrid
ASU Prep Poly Hybrid

ASU Prep Learning Pods

ASU Prep Local

ASU Prep Casa Grande

DAYS 3 2

DAYS 2 3

ASU Prep Experience

DAYS 4 1

DAYS 1 4

ASU Prep South Phoenix
ASU Prep Phoenix
ASU Prep Polytechnic
ASU Prep Pilgrim Rest

DAYS 5

ASU Prep Digital
Khan World School

DAYS 5

Flexible / At Home

Powered by
ASU Prep Digital Platform

ASU Prep is serving more than 33,000 learners in Arizona and beyond

3,800+

learners served in K-12 immersion schools on four Arizona campuses

24,000

learners served in partnership with other schools around the world

5,600+

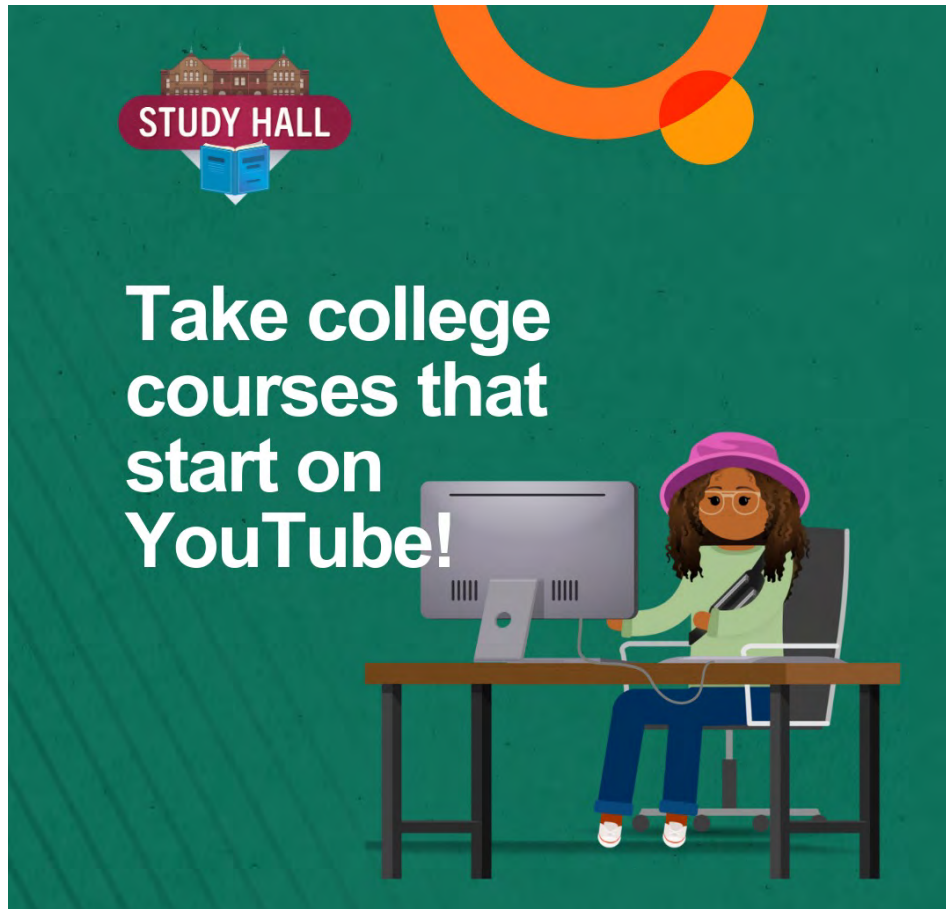learners served in K-12 full-time digital offerings around the world

18,000

teachers trained in 1,500 schools in our Arizona Virtual Teaching Institute

ASU

Any learner can access ASU courses with Study Hall

STUDY HALL

Take college courses that start on YouTube!

ASU college courses will be available on YouTube in March 2023 for any learner looking to pursue a college degree through a partnership with YouTube and Crash Course.

Learners can earn college credit in English Composition, College Math, US History and Human Communication.

Learners can watch course content for free. They can also opt to pay $25 to take the full online course, with a separate fee for course credit.

ASU

ASU selected to lead the Arizona Water Innovation Initiative

Leverage ASU as a public enterprise to strengthen Arizona's interactive network of teaching, learning, and discovery resources

A **$40 million investment** will fund the multiyear initiative to provide swift, actionable and evidence-based solutions to ensure a secure future water supply.

It includes the **Global Center for Water Technology**, which will work on:

- Technology, policy, law and infrastructure for coastal water desalination
- Advanced technology for more water-efficient agricultural operations
- Commercialization and deployment of water treatment and reuse technology that supports energy production and microchip manufacturing
- New designs for urban water conservation

ASU

ASU is a global hub for microelectronics activity

Co-develop solutions to the critical social, technical, cultural and environmental issues facing 21st-century Arizona, ensuring sustainability and resilience

U.S. President Biden at TSMC

President Biden attended the TSMC Phoenix plant celebration and spoke with President Crow.

U.S. Commerce Secretary Gina Raimondo

Secretary Raimondo joined U.S Senator Mark Kelly on a tour of ASU MacroTechnology Works.

Ambassador Esteban Moctezuma Barragan

Ambassador Moctezuma visited ASU to sign an MOU to boost semiconductor production in North America.

U.S. Undersecretary of Defense for Research and Engineering Heidi Shyu

Undersecretary Shyu visited ASU MacroTechnology Works.

ASU

MacroTechnology Works

Co-develop solutions to the critical social, technical, cultural and environmental issues facing 21st-century Arizona, ensuring sustainability and resilience

Mayo-ASU Alliance for Health Care

Co-develop solutions to the critical social, technical, cultural and environmental issues facing 21st-century Arizona, ensuring sustainability and resilience

Universal Learner Courses have created an alternative path to ASU

Co-develop solutions to the critical social, technical, cultural and environmental issues facing 21st-century Arizona, ensuring sustainability and resilience

Universal Learner Course Enrollment (FY 2016 to FY 2022)
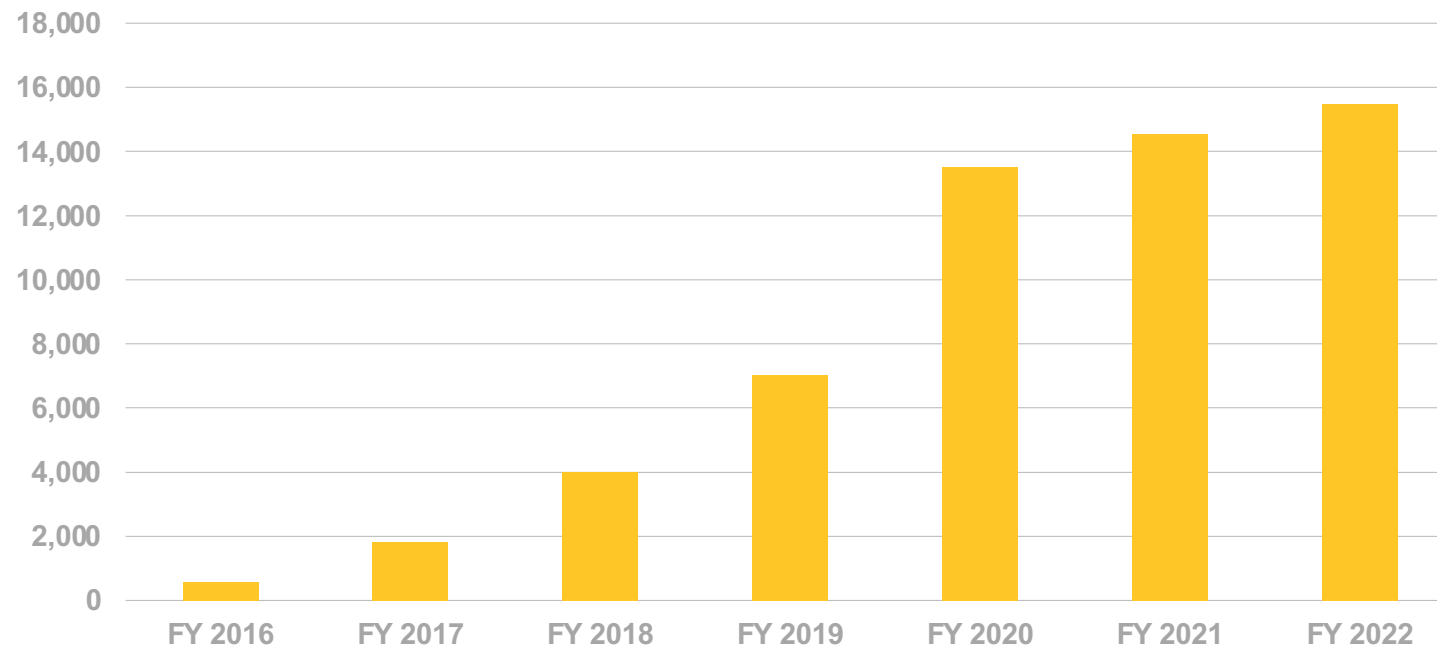
Once admitted to ASU, Earned Admission students perform academically at the same level or better than those admitted through the traditional admissions process.

CareerCatalyst provides upskilling opportunities for Universal Learners

ASU CareerCatalyst
Arizona State University

Professional Skills for Everyone

Setting learners up to be top job candidates through soft skills, or professional skills.

Skills learners can use these skills in their job right away.

Technical Skills

ASU is investing in skills training to fuel the growth of Industries of the Future and the state's economy.

- Advanced Materials
- Manufacturing
- Human Performance
- Extreme Environments
- Advanced Communications

Enrollment

	FY19	FY20
	51,538	164,327
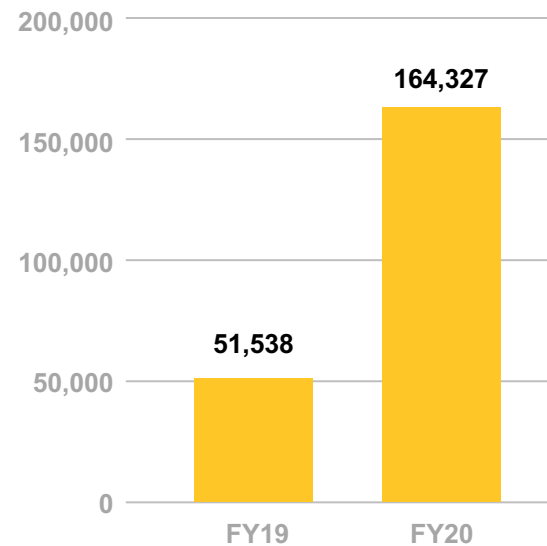
310K+

learners enrolled in learning offerings, including courses, bootcamps, certificates and workshops

25M+

views of educational content, including videos, games, blogs, website content and museum visits

750+

partnerships with K-12 schools, other educational institutions and organizations and corporations

74

Starbucks collaboration is growing proven pathways to a college education

Meet the needs of 21st-century Universal Learners

Starbucks College Achievement Plan (SCAP)
- Full tuition coverage for benefits-eligible employees, or partners, to earn their bachelor's degree through ASU Online
- 10,000 SCAP graduates
- 23,000+ students enrolled in SCAP

Starbucks Global Academy
- Over 600,000 course enrollments, 155,000+ unique learners in 80+ countries, and 7 languages
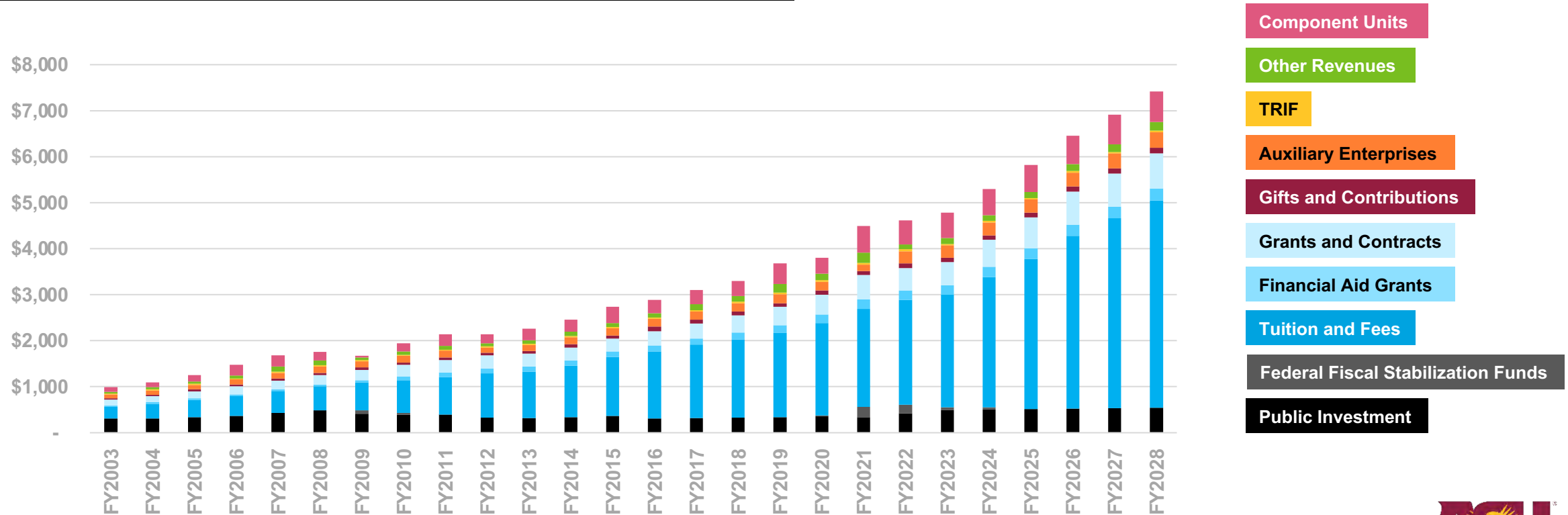
ASU

Mirabella at ASU

Meet the needs of 21st-century Universal Learners

Financial Review

Revenues have more than quadrupled over past two decades

Net Revenues for ASU and Component Units in Millions

(Actual for FY 2003 to FY 2022, Projections for FY 2023 to FY 2028)

Legend:
- Component Units
- Other Revenues
- TRIF
- Auxiliary Enterprises
- Gifts and Contributions
- Grants and Contracts
- Financial Aid Grants
- Tuition and Fees
- Federal Fiscal Stabilization Funds
- Public Investment

The FY21 Component Unit Revenues and Sponsored Project Expenditures figures are much higher due COVID stimulus funds.
The component units revenues are used on university-wide enterprise reports instead of the component units revenues (less eliminations), beginning in 2022

ASU fundraising supports the enterprise

Performance and Projections for New Gifts and Commitments

(Dollars in Millions, Actuals for FY 2003 to FY 2022, Estimates Beginning FY 2023)
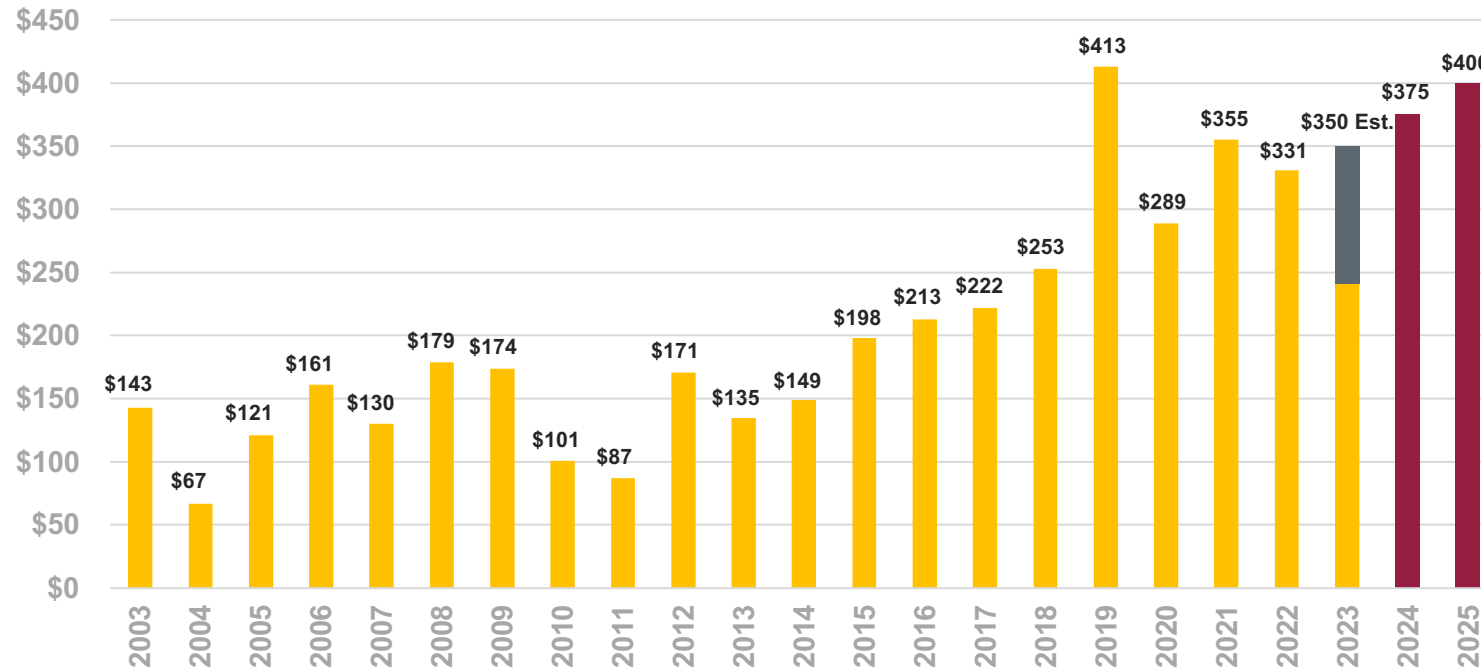
Endowment value reached

$1.356B

ASU named the **Rob and Melani Walton Center for Planetary Health** in Tempe along with the **F. Francis and Dionne Najafi Thunderbird Global Headquarters** in Downtown Phoenix.
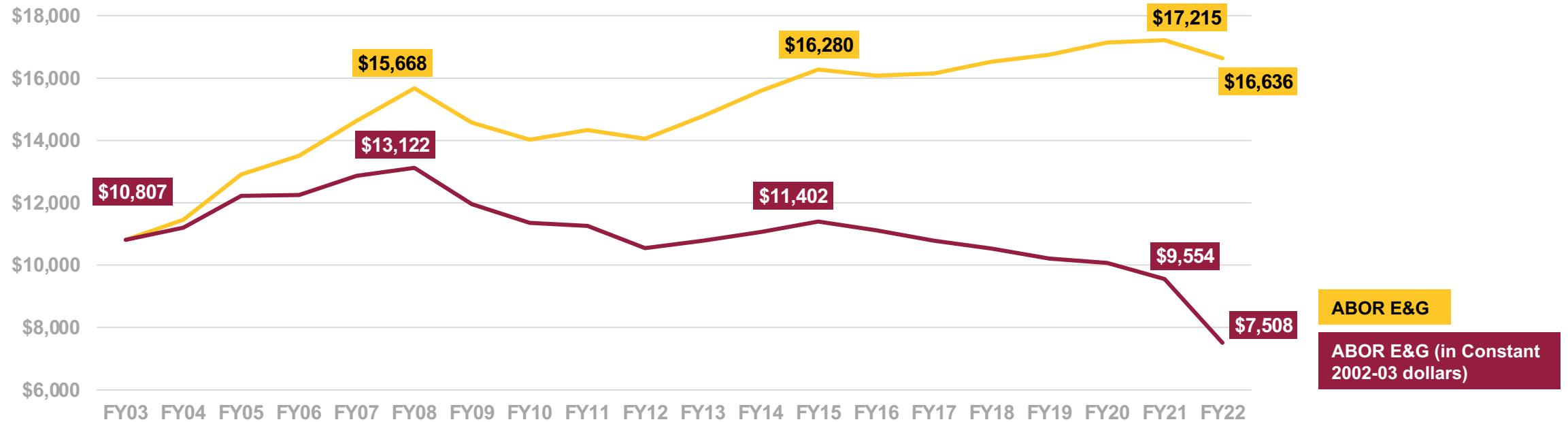
Projected
Actual

ASU receives less resources per degree awarded than the national median

Tuition and Appropriations per Degree for Universities Sharing Key Design Elements with ASU (FY 2021)

Source: Integrated Postsecondary Education Data System
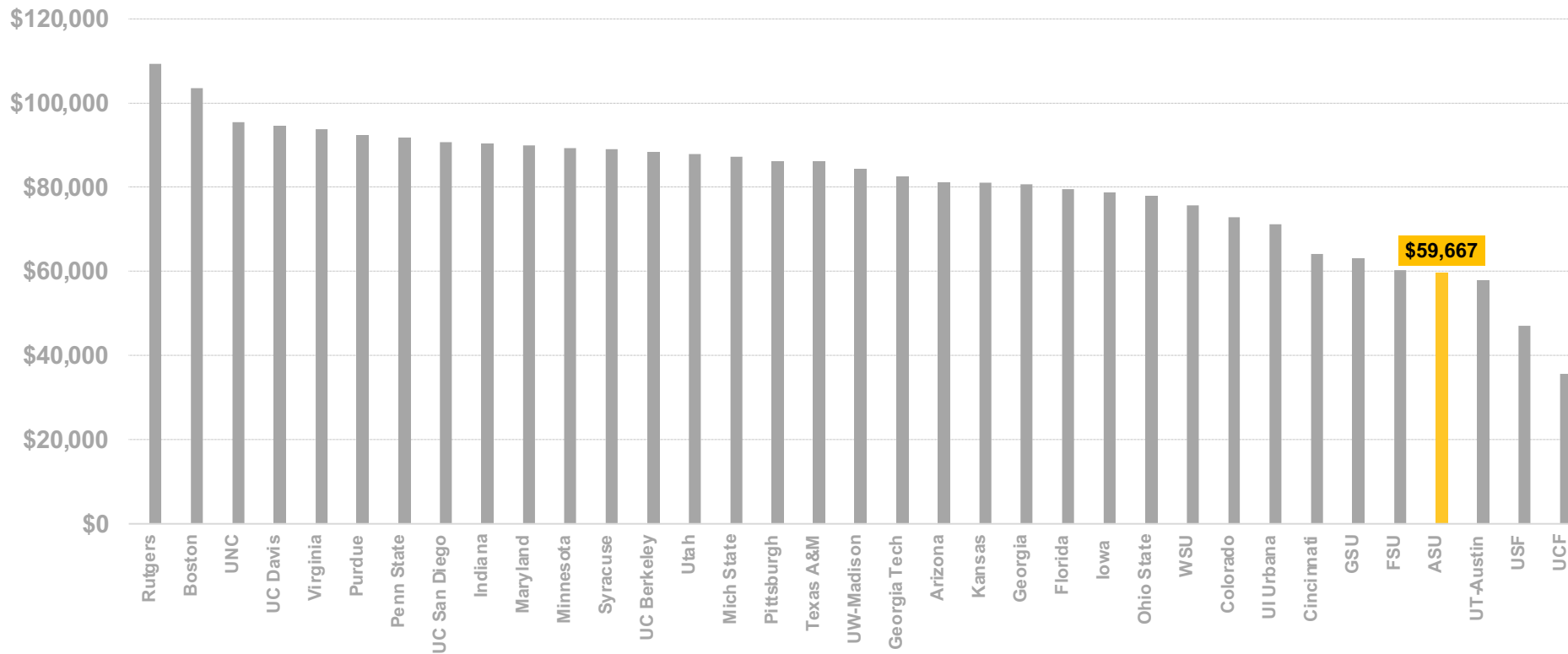
Maintaining current cost levels will require discipline, technology, and scale

Education and General (E&G) Expense Net of Scholarship Allowance (FY 2003 to FY 2022)

$17,215

$16,636

$15,668

$16,280

$13,122

$10,807

$11,402

$9,554

$7,508

ABOR E&G

ABOR E&G (in Constant 2002-03 dollars)

FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16 FY17 FY18 FY19 FY20 FY21 FY22

Note: Converting Dollar Amounts to Constant 2002-03 dollars using the Consumer Price Index (CPI)

ASU

What is next?

ASU

What is next?

Whatever is needed.

ASU

What is next?

Whatever is needed.

How about a healthier Arizona?

ASU

ASU Health

A Learning Health Ecosystem

president@asu.edu