ADVANCING STRATEGIC COLLABORATION

Tecnólogico de Monterrey & The University of Texas at San Antonio

September 29, 2023

Dr. Taylor Eighmy, UTSA President

“GREAT CITIES
NEED GREAT
UNIVERSITIES...”

STRATEGIC DESTINATIONS

OUR VISION FOR 2018-2028

1

Model for Student Success

2

Great Public Research University

3

An Innovative Place to Work, Learn and Discover

DESIGNATIONS OF EXCELLENCE

Tier One Research Classification

Recognizes UTSA as one of USA's top 4% research institutions

Excelencia in Education Seal of Excelencia

Recognizes UTSA's leadership in advancing Latino student success

Community Engagement Classification

Highlights UTSA's commitment to serving the San Antonio region

Innovation & Economic Prosperity University

Recognizes UTSA's leadership in fostering economic growth, prosperity and innovation.

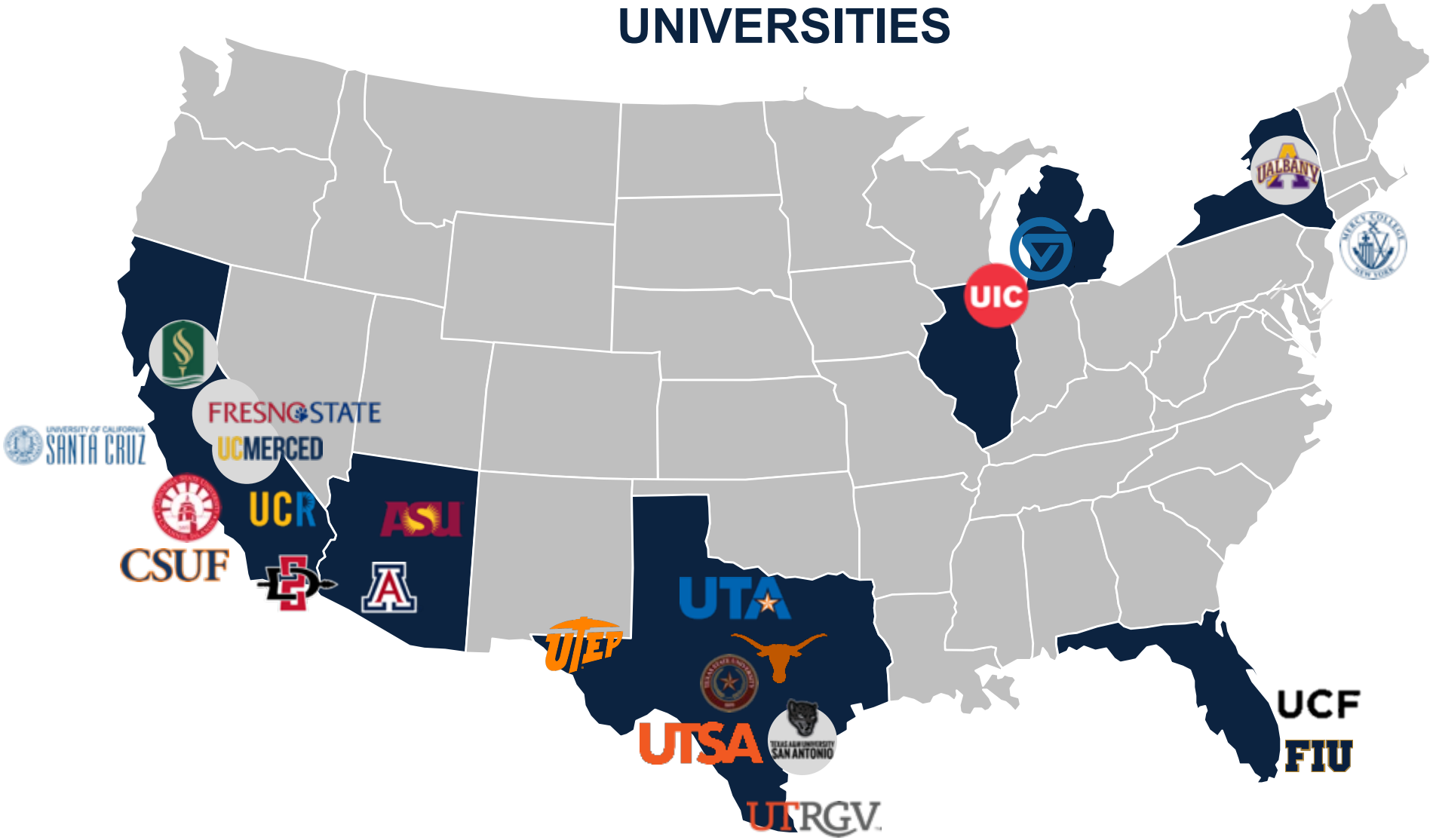
HISPANIC SERVING & CARNEGIE R1

ALLIANCE MEMBER UNIVERSITIES

ALLIANCE OF HISPANIC SERVING RESEARCH UNIVERSITIES

SEAL OF EXCELENCIA

UNIVERSITIES



SEAL OF EXCELENCIA
Excelencia IN EDUCATION
INSTITUTIONS SERVING LATINOS

155
INTERNATIONAL AGREEMENTS
123 academic + 32 research

139
INSTITUTIONS

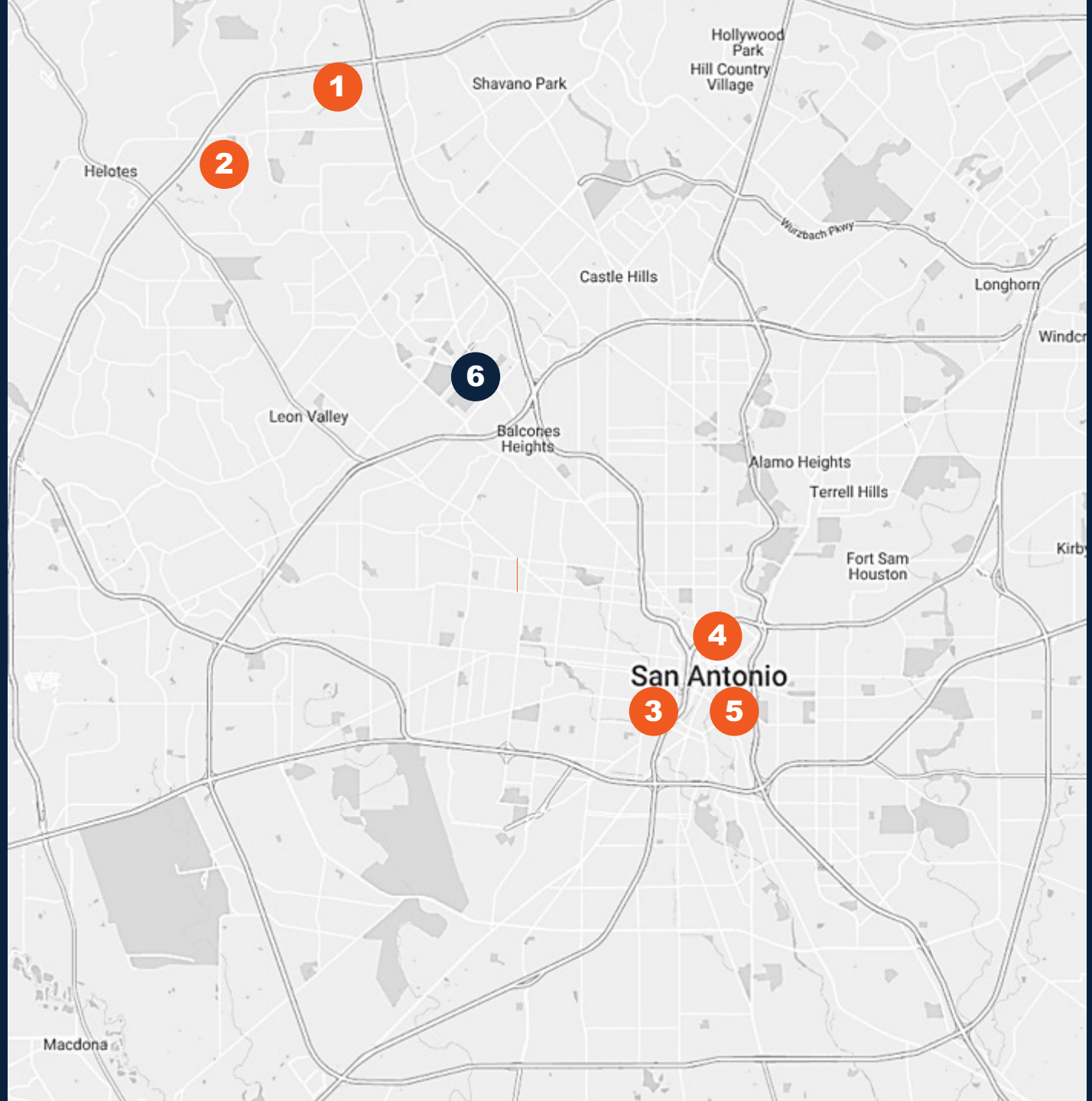
34
COUNTRIES

5
CONTINENTS

FIVE CAMPUSES

ONE UNIVERSITY

UTSA is the **largest university in San Antonio**, which is the 7th biggest city in the United States



1 - MAIN

2 - PARK WEST

3 - DOWNTOWN

4 - SOUTHWEST

5 - HEMISFAIR

6 – UT HEALTH SA

SAN PEDRO I

UTSA DOWNTOWN CAMPUS

DELL Technologies
ROADRUNNER DATA CENTER

SCHOOL OF DATA SCIENCE

14+ Degree & Certificate Programs

Academic Partners Include:

- Alvarez College of Business
- College of Science
- Klesse College of Engineering & Integrated Design
- University College

9+ Strategic Partners

MITRE · H-E-B · Meta · National Security Agency · DRAPER VENTURE NETWORK · United States Census Bureau · Frost Bank · VictoryCapital · DELL Technologies

INTENTIONAL COLLISION

3+ University Level Institutes

- Matrix AI Consortium
- Open Cloud Institute
- The Cybersecurity Manufacturing Innovation Institute

AMD · intel · cisco · SIEMENS

16+ Capability & Domain Labs, including:

- Cyber-Informed Engineering
- Internet of Things
- Machine Learning
- Secure AI
- Bioinformatics Research
- Computational Biology
- Next Generation Census

NATIONAL SECURITY COLLABORATION CENTER

6+ Strategic Partners

MITRE · leidos · Microsoft · aws · Peraton · DELL Technologies

5+ DOE Partners

INL Idaho National Laboratory · Sandia National Laboratories · OAK RIDGE National Laboratory

6+ Federal Partners

- National Security Agency
- U.S. Cyber-command
- 16th Air Force Information Warfare
- Department of Homeland Security
- Army Research Laboratory (ARL)
- Air Force Research Laboratory

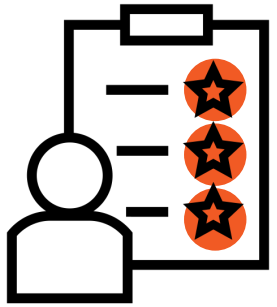
Our School of Data Science Community of Practice:
UC Berkeley | NYU | Rice | Stanford | Michigan | UNC | Virginia | Washington | Wisconsin

SAN
PEDRO II
UTSA DOWNTOWN CAMPUS

Our Ecosystem

Research | Education | Workforce | Economy

STRENGTHS



- Data Science
- Cyber Security
- Artificial Intelligence
- Quantum Computing
- Semi-conductors & Materials Sciences
- Biosciences
- Health Informatics
- Academic Programs

OPPORTUNITIES

- Bilateral Mexico-Texas Economy
- Cultural Alignment
- Nearshoring
- Collaborative Ecosystem
- Now is the Right Time

UTSA Tecnológico de Monterrey

COLABORACIONES

Dual Master Degree
in Cybersecurity

Joint Research
material science, marketing, nutrition, engineering, chemistry, computer science, AI, cybersecurity

Quantum Collaborative
with Arizona State University

Student Exchange
summer research

UTSA Tecnológico de Monterrey

COLABORACIONES

Human Mobility Lab

Using VR & AR to inform human mobility in the urban environment

Co-Located
faculty, staff & graduate students

Applies to Monterrey
and other urban environments

San Antonio
serves as a living lab

Awarded NSF Grants
totaling $1.1M

Peta Room, San Pedro I

COLABORACIONES

ConTex enhances research collaborations connecting Texas and Mexico

Current Projects

Promoting Technology Entrepreneurship in Mexico Through Social Networking Skills Training
Dr. Dante Benito Castro Solano (TEC) and Dr. Teja Guda (UTSA)

Nano-colloids of Core-shell Particles as a New Approach for the Optical Sensing of Contaminants of Emerging Concern
Dr. Nancy Ornelas Soto (TEC) and Dr. Kathryn Mayer (UTSA)

Design of Rotor Blades to Maximize Wind Energy Production
Dr. José Francisco Herbert Acero (UTSA), ConTex Postdoctoral Fellow and TEC graduate

The University of Texas System

ConTex

Tecnológico de Monterrey

Dr. Solano and **Dr. Guda** with their research team

COLABORACIONES

UT Health San Antonio is focused on transforming health and healthcare for a diverse society

Primary driver of San Antonio's **$44B** health care and biosciences sector

Six Schools - Medical, Dental, Nursing, Health Professions, Graduate, Public Health

UT Health San Antonio

Tecnológico de Monterrey

Research Collaborations

- Obesity
- Alzheimer's Disease
- Cancer
- Genetics
- Diabetes
- Aging
- Mitochondrial Disease
- Drug Discovery
- Mental Health, Substance Use Disorders

COLABORACIONES

Sustainable Manufacturing Program
biochar for CO2 capture | advanced recycling
carbon-fiber reinforced polymers

Mi Salud
researching population health

Longstanding history
and shared advisory roles

SwRI and Tec establish “El Instituto de Investigaciones” in 1950

UTSA®
CREATING
BOLD
FUTURES