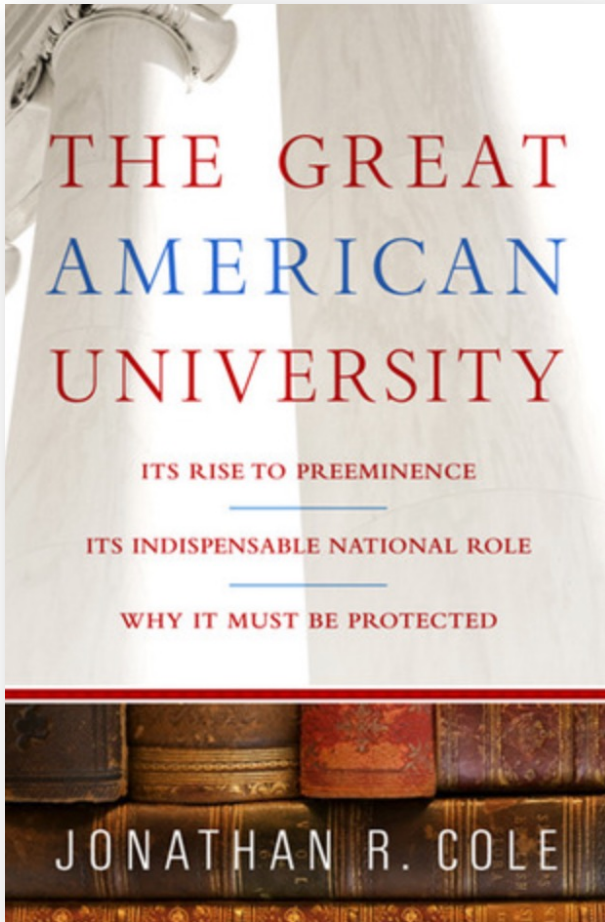




# **BECOMING A GREAT PUBLIC RESEARCH UNIVERSITY**

POSITIONING SAN ANTONIO FOR A BOLD FUTURE

Taylor Eighmy, UTSA President



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“

What has made our universities the greatest in the world is not the quality of our undergraduate education, but the **PRODUCTION OF NEW KNOWLEDGE** through the discoveries that change our lives and the world.

*Jonathan R. Cole  
Columbia University*

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”



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“

There are approximately 5,000 institutions of higher education in the United States and, of these, roughly 150, both public and private, are classified as “research extensive” ... **THESE ARE THE INSTITUTIONS THAT INCREASINGLY FUEL THE NATIONAL ECONOMY** by producing leaders in all sectors of academia, business, industry, and government, and through perpetual innovation in products and processes.

*The Future of the Research University  
Kauffman Foundation*

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”

# UTSA'S TRAJECTORY

## WAYPOINTS



REPORT Published January 27, 2022 · 9 minute read

## Out With the Old, In With the New: Rating Higher Ed by Economic Mobility

The diagram consists of two large, stylized arrows pointing in opposite directions. The left arrow is blue and points left, containing the text 'Historical Prestige Selectivity'. The right arrow is green and points right, containing the text 'Student Outcomes Economic Mobility'. The two arrows are positioned such that they appear to be part of a larger, continuous shape, suggesting a transition or shift from the old to the new.

**Michael Itzkowitz**  
Senior Fellow, Higher Education  
[@mikeltzkowitz](#)

With another college rankings season officially under our belts, an age-old question persists: Do college rankings actually reflect the purpose of our higher education system? Or do they just reproduce existing inequities by rewarding the same wealthy, selective schools that primarily serve students who were already set up for success?

The good news is that a handful of well-known ranking publications have recently attempted to address the implications of this latter question by

JUMP TO SECTION...

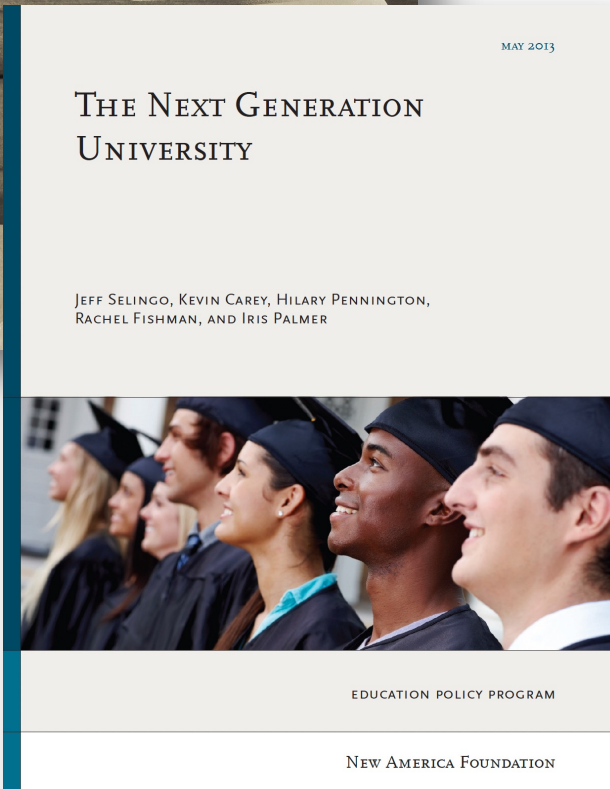
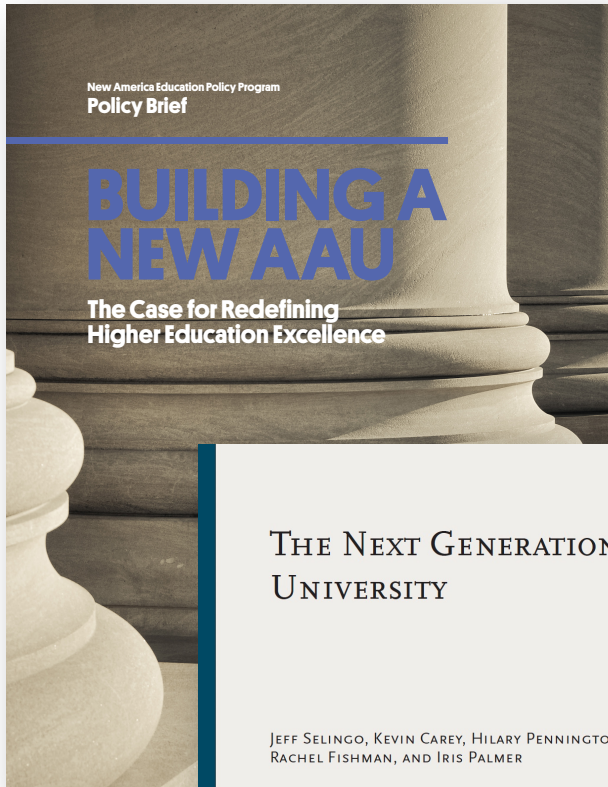


We are in dire need of **A COMPLETELY DIFFERENT APPROACH TO ASSESSING INSTITUTIONS OF HIGHER EDUCATION.**

Instead of prioritizing reputation and selectivity, we propose a new rating system... that attempts to answer the question: 'If the primary purpose of postsecondary education is supposed to be to catalyze an increase in economic mobility, which schools are succeeding in that goal?'

*Michael Itzkowitz*  
*Third Way*





The time has come to create a new definition of greatness in higher learning, one that honors the importance of research and scholarship while **REWARDING INSTITUTIONS THAT ADVANCE THE NATIONAL INTEREST** of helping students from diverse backgrounds earn high-quality college degrees.





ALLIANCE OF  
HISPANIC SERVING  
RESEARCH UNIVERSITIES

# HISPANIC SERVING & CARNEGIE R1

## ALLIANCE MEMBER INSTITUTIONS





# UTSA'S PLANNED TRAJECTORY

## A NEW MODEL

**R1**

Carnegie's highest  
research classification

✓ DEC 2021

**NRUF**

Tier One in the  
State of Texas

✓ MAY 2022

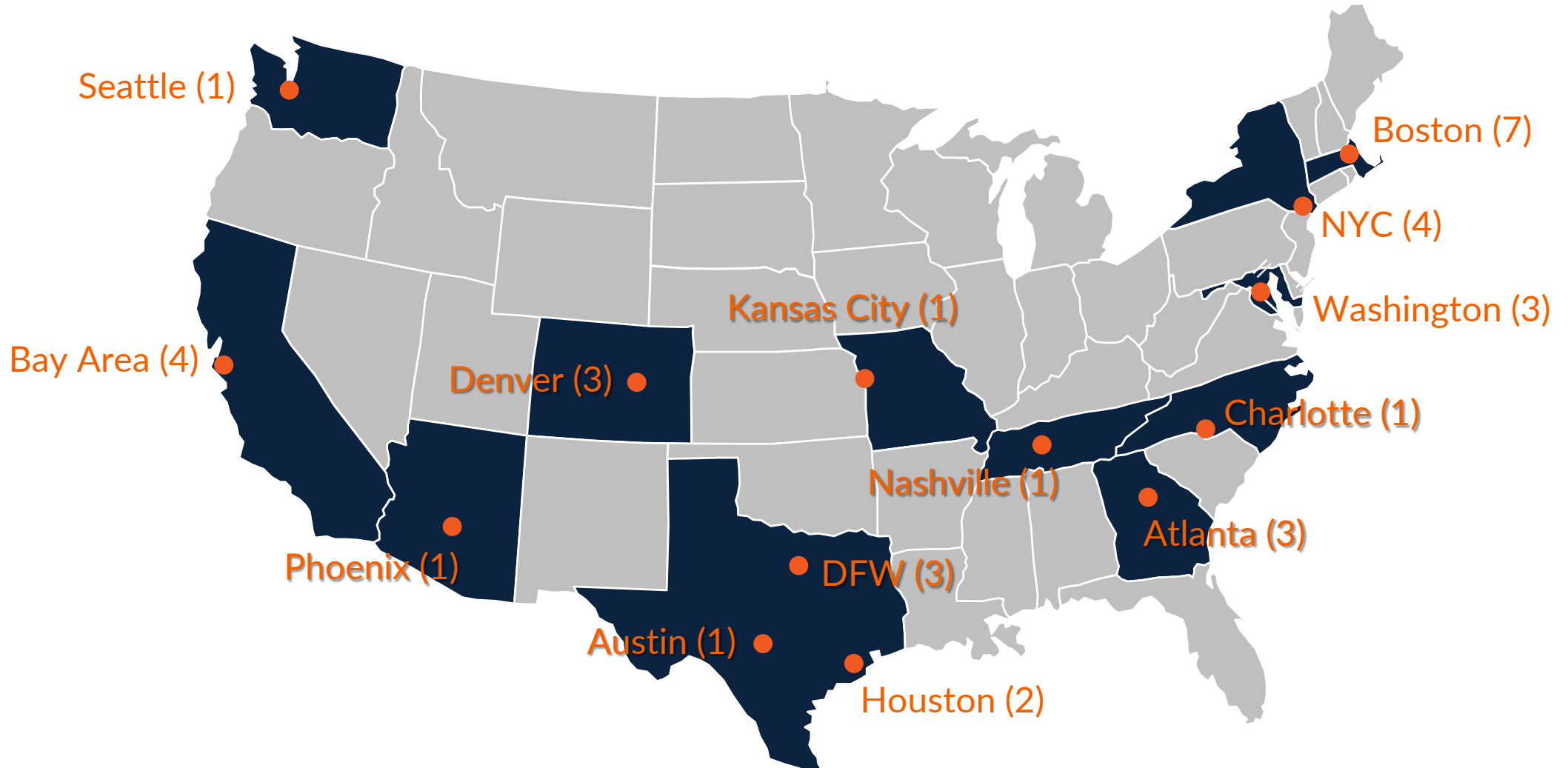
**HSRU**

Alliance of nation's most  
prestigious 'new' research  
Institutions

✓ JUNE 2022

# METRO AREAS

## WITH R1 INSTITUTIONS





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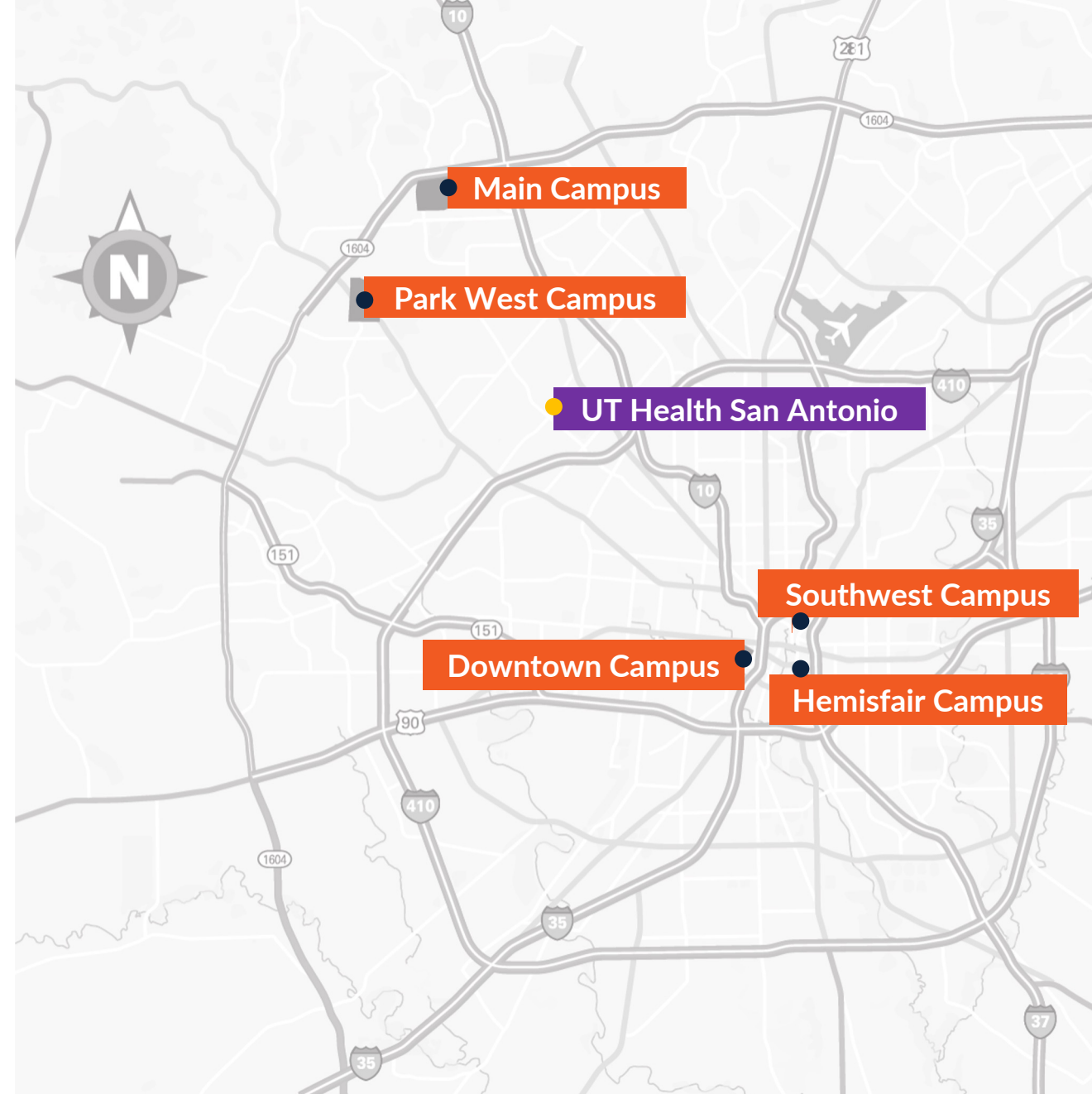
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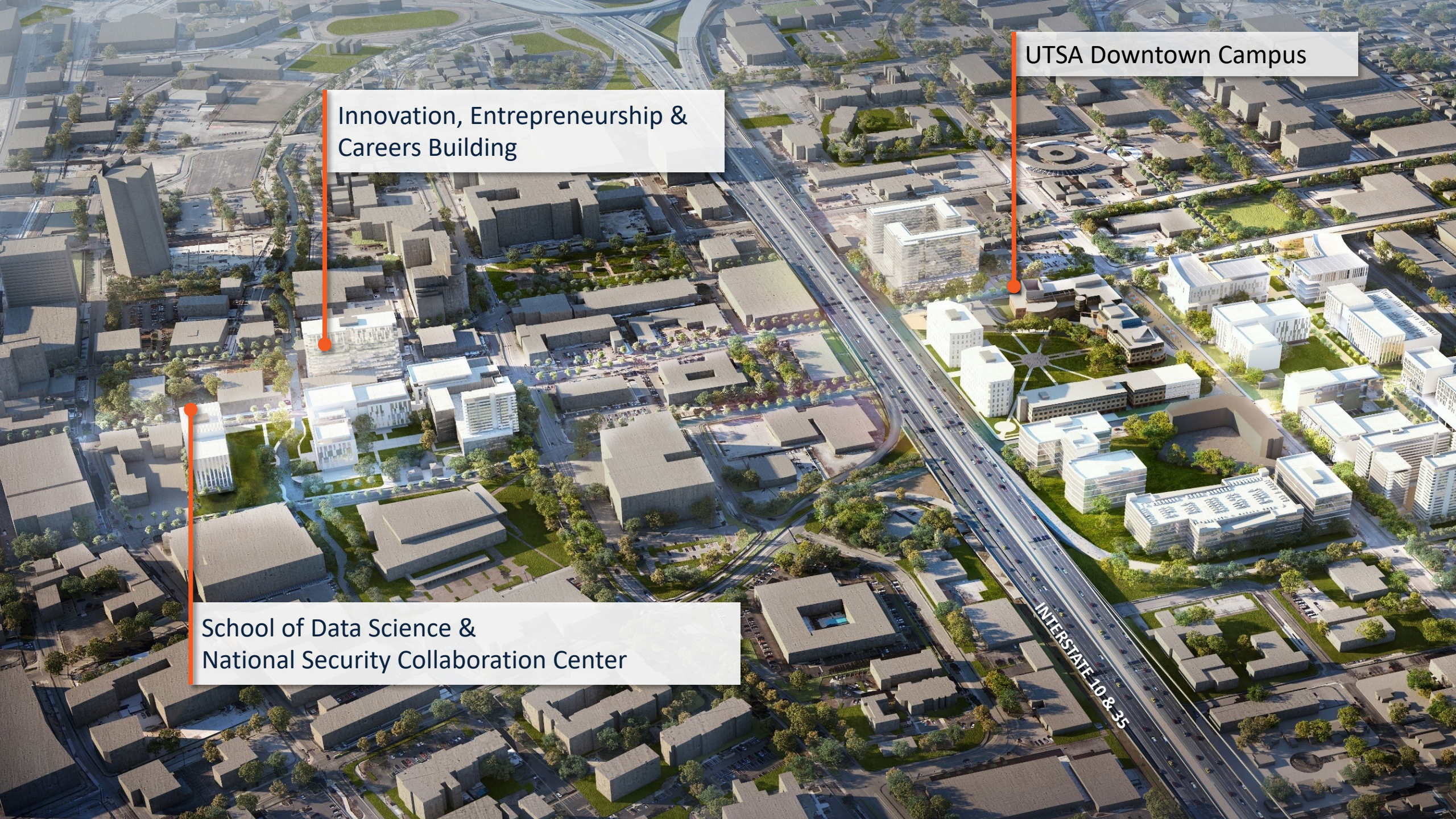
As jobs become more knowledge-driven, the universities produce not only the research that can lead to the creation of new companies and industries in the Greater Boston area, but the ability to **DELIVER A WORKFORCE EDUCATED IN EMERGING TECHNOLOGIES.**

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”

# UTSA'S FIVE CAMPUSES





UTSA Downtown Campus

Innovation, Entrepreneurship & Careers Building

School of Data Science & National Security Collaboration Center

# SCHOOL OF DATA SCIENCE

Inspiring and preparing a generation of diverse data scientists who can make our world more equitable, informed and secure



# FIRST OF ITS KIND IN TEXAS

## SCHOOL OF DATA SCIENCE

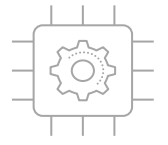
Radical Innovation in Data Generation, Engineering, Analysis, and Protection



Computer Science



Information Systems  
& Cyber Security



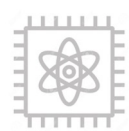
Mathematics  
& Statistics




5G Technology




Artificial Intelligence




Quantum Computing



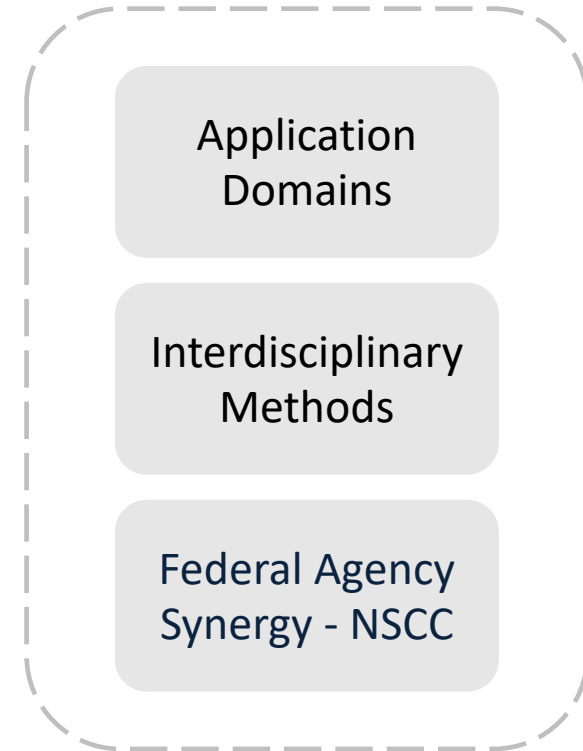
Electrical & Computer  
Engineering



Open Cloud



Bioinformatics



Application  
Domains

Interdisciplinary  
Methods

Federal Agency  
Synergy - NSCC

# NATIONAL SECURITY COLLABORATION CENTER

Catalyzing government-  
university-industry R&D  
collaboration in our national  
security ecosystem





# NATIONAL SECURITY COLLABORATION CENTER

- **Joint Base San Antonio**, largest joint base in the United States
- **16th Air Force**, global cyber operational wing for entire Air Force
- **NSA Texas**, the largest National Security Agency hub outside of Washington, D.C.
- Many other **Department of Defense, national security and cybersecurity agencies** (DHS, FBI, NSA, USSS)
- **2,725 defense contractors** and **\$6B in defense contracts and personnel spending** in 2019
- **New Cybersecurity Manufacturing Innovation Institute** - Department of Energy investing \$111M 2020-25

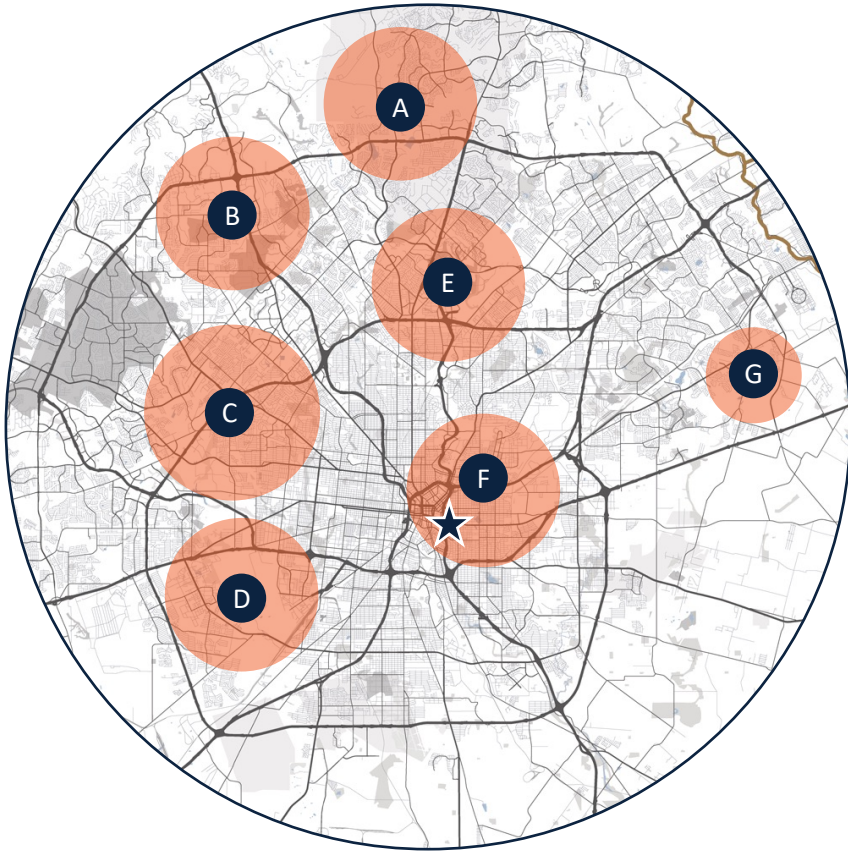
## FEDERAL AND STATE ENTITIES



## REGIONAL INDUSTRY (DATA PARTNERS)



# NATIONAL SECURITY COLLABORATION CENTER



Future location of **UTSA** School of Data Science, National Security Collaboration Center and CyManII

- A**
- Tesoro Corp. (Endeavor)
  - Cisco Systems
  - M2 Technology
  - STS Systems Integration
  - JBSA Camp Bullis

- C**
- Southwest Research Institute Inc.
  - National Security Agency (NSA) Texas
  - Raytheon
  - Mitre Corp
  - Sierra Nevada Corp
- Battelle Memorial Institute
  - Northrop Grumman
  - Texas Biomedical Research Institute
  - UT Health San Antonio

- E**
- UTSA
    - School of Data Science
    - National Security Collaboration Center
    - CyManII
  - Honeywell International Inc
  - Valero Energy Corp.
  - FBI Field Office
  - Accenture Federal Services
  - Chenega Corp.
  - Fluor Marine Propulsion
  - CACI

- B**
- Huntington Ingalls Industries
  - Jacobs Engineering Group
  - The Parsons Group
  - Department of Homeland Security
    - Region 6
    - US Secret Service
  - MedTrust LLC
  - Deloitte

- F**
- AECOM
  - Vesa Health and Technology
  - Fort Sam Houston
  - Labatt Institutional Supply Inc.
  - Texas Army National Guard
  - Texas Air National Guard
  - Brooke Army Medical Center (BAMC)
  - JBSA Fort Sam Houston
    - US Army North
    - US Army Installation Management Command
    - San Antonio Military Medical Center (SAMMC)
    - US Army Mission & Installation Contracting Command
    - Defense Health Agency

- D**
- Leidos Holdings Inc.
  - KBR
  - Science Applications International Corp
  - JBSA Lackland Air Force Base
    - 16<sup>th</sup> Air Force
    - Joint Information Operations Warfare Center
    - 37<sup>th</sup> Training Wing
  - 149<sup>th</sup> Fighter Wing
  - Air National Guard
  - Port San Antonio/Kelly Field Annex
    - 16<sup>th</sup> Air Force
    - 688<sup>th</sup> Cyberspace Wing
    - 67<sup>th</sup> Cyberspace Wing
    - Air Force Life Cycle Management Cryptologic and Cyber Systems Division
  - Air Force Installation and Mission Support Center
  - Air Force Civil Engineer Center
  - Defense Health Agency
  - Port San Antonio (private companies)
    - The Boeing Company
    - StandardAero
    - Lockheed Martin
  - Northrop Grumman
  - Booz Allen Hamilton
  - CACI
  - Salient CRGT
  - PlusOne Robotics
  - Reckon Point
  - CNF Technologies
  - IPSecure
  - Technica, Corp



Booz | Allen | Hamilton



# UTSA<sup>®</sup> NATIONAL SECURITY COLLABORATION CENTER



# CYBERSECURITY MANUFACTURING INNOVATION INSTITUTE (CYMANII)

Next-generation cybersecurity architecture for our nation's manufacturers, one of 16 Manufacturing Innovation Institutes nationally





**UTSA**<sup>®</sup>  
CREATING  
**BOLD**  
FUTURES.<sup>®</sup>

**THANK YOU**  
**SAN ANTONIO**