

UTSA[®]

The University of Texas
at San Antonio[™]

**Building
Partnerships**
to meet
**Global Security
Challenges**

Dr. Taylor Eighmy
August 14, 2018





Charting Our Cybersecurity Future

Cyber UTSA

A leader in cyber education since 1999



Undergraduate

B.B.A. Cyber Security
(online and residential)

B.B.A. Information Systems

B.S. Computer Engineering

B.S. Computer Science
Cyber Security Concentration
Cyber Operations Track



Masters

M.S. Computer Engineering

M.B.A. Cyber Security
Concentration

M.B.A. Information Systems
Concentration

M.S. Data Analytics

M.S. Information Technology
Cyber Security Concentration

M.S. Computer Science
Cyber Security Concentration
Data Science Concentration



Doctoral

Ph.D. Information Technology

Ph.D. Computer Science



Certificate

Cloud Computing

Data Center Design

Pathogenic Outbreak
Investigations

Cyber UTSA

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FACULTY

70

Six of which are endowed from entities such as AT&T and Rackspace (80/20 Foundation)

4 out of 9

colleges at UTSA include cyber programs

STUDENTS

3,145

undergrads in cyber, cloud, computing & analytics

323

masters students

164

doctoral students

98

students earned undergraduate cybersecurity degrees in 2017-18

26

students earned graduate cybersecurity degrees in 2017-18

RESEARCH

\$100+ Million

Research awards in cyber programs since 2000

RANKINGS

#1

Cybersecurity program
Ponemon Institute

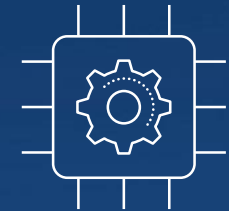
#2

Cybersecurity graduate program
Universities.com

NATIONAL CENTER OF ACADEMIC EXCELLENCE

UTSA's Cyber Designations

National Security Agency & Department of Homeland Security



Information Assurance Education
2002

Information Assurance Research
2009

Cyber Defense
Digital Forensics
Focus Area
2014

Cyber Operations Fundamentals
2018

TALENT ACQUISITION

UTSA is focused on bringing the world's best and brightest researchers to San Antonio, boosting our capacity to solve society's grandest challenges.





Dr. Nicole Beebe

Melvin Lachman Distinguished
Professor in Entrepreneurship

Associate Professor of Information
Systems and Cyber Security

A leader in the
cybersecurity revolution



Cybersecurity

New Faculty Hires



Dr. Peyman Najafirad

Associate Professor of
Information Systems and
Cyber Security

Previously at Rackspace



Dr. David Dampier

Interim Chair and
Professor of Information
Systems and Cyber
Security

*Previously at Mississippi
State University*



Dr. Bradley Thayer

Professor of Political
Science and International
Cybersecurity

*Previously at the
University of Minnesota
Duluth*



Dr. Murtuza Jadliwala

Assistant Professor of
Computer Science

*Previously at
Wichita State University*



Dr. Zhan Qin

Assistant Professor of
Electrical & Computer
Engineering

*Previously at
University at Buffalo*



Dr. Guenevere Qian Chen

Assistant Professor of
Electrical & Computer
Engineering

*Previously at Savannah
State University*

A NEW PARTNERSHIP



Idaho National Laboratory

Cybersecurity
Digital Forensics
Data Analytics
Machine Learning
Infrastructure Risk Modeling
Innovative Education Outreach

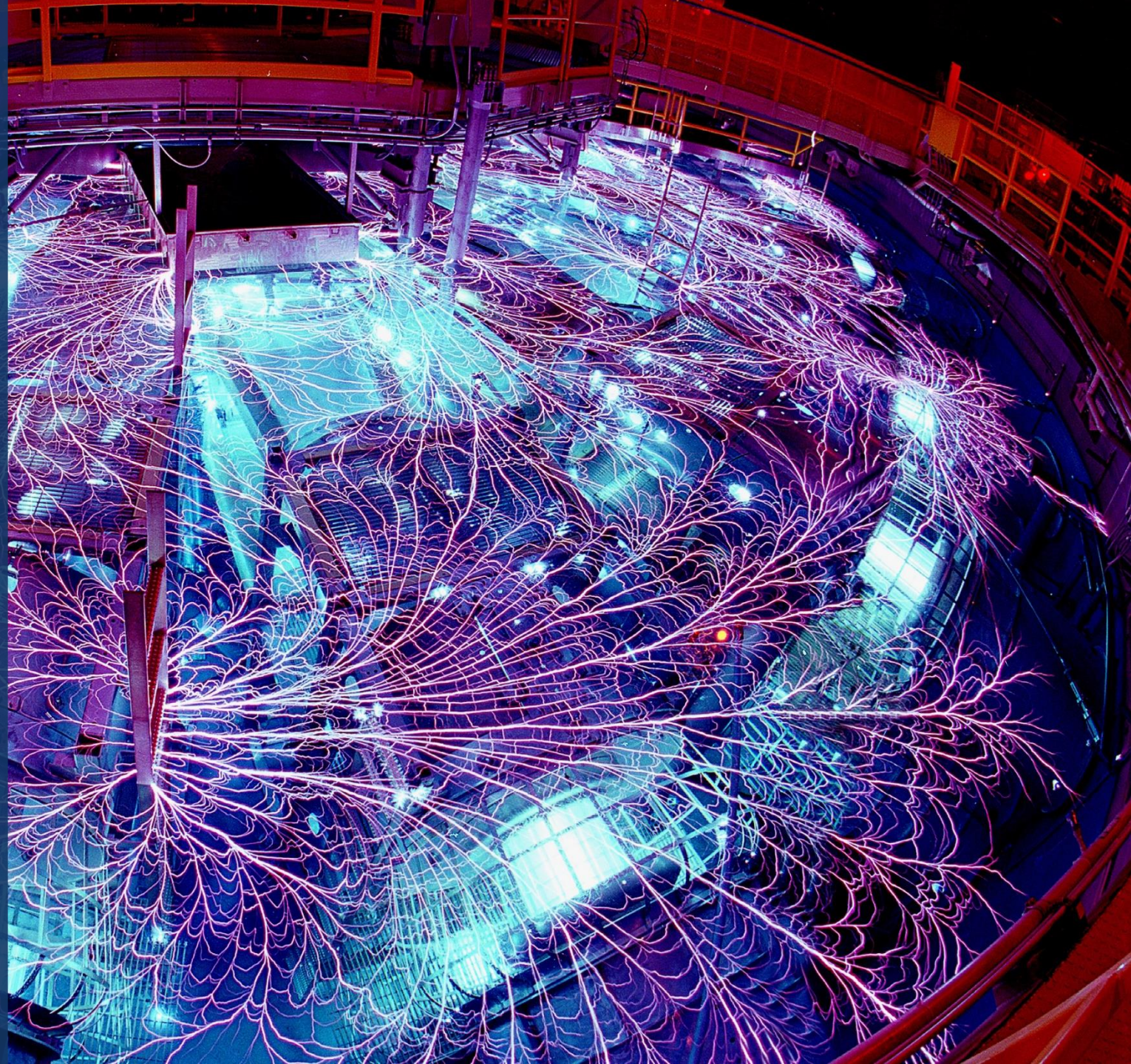


A NEW PARTNERSHIP



**Sandia
National
Laboratories**

Cyber Defense
Cyber Resiliency
Interdependencies of Critical Infrastructure
Supervisory Control & Data Acquisition
Predictive Simulation & Design Optimization





FUTURE CONNECTIONS

Project Tech





UTSA's Current & Future National Security Portfolio

Cybersecurity
& Cloud Computing

Counter Terrorism

Election Security

Cyber Attack/
Deterrence & Policy

Infectious Diseases
& Biological Threats

Military Health
& Wellness

Demographic Methods
& Trends

Governance & Policy

Emergency Management
& Communications

Border & Refugee Issues

Advanced Materials

Nanotechnology

Critical Infrastructure
Protection

Robotics & UAVs

Analytics

High Performance
Computing

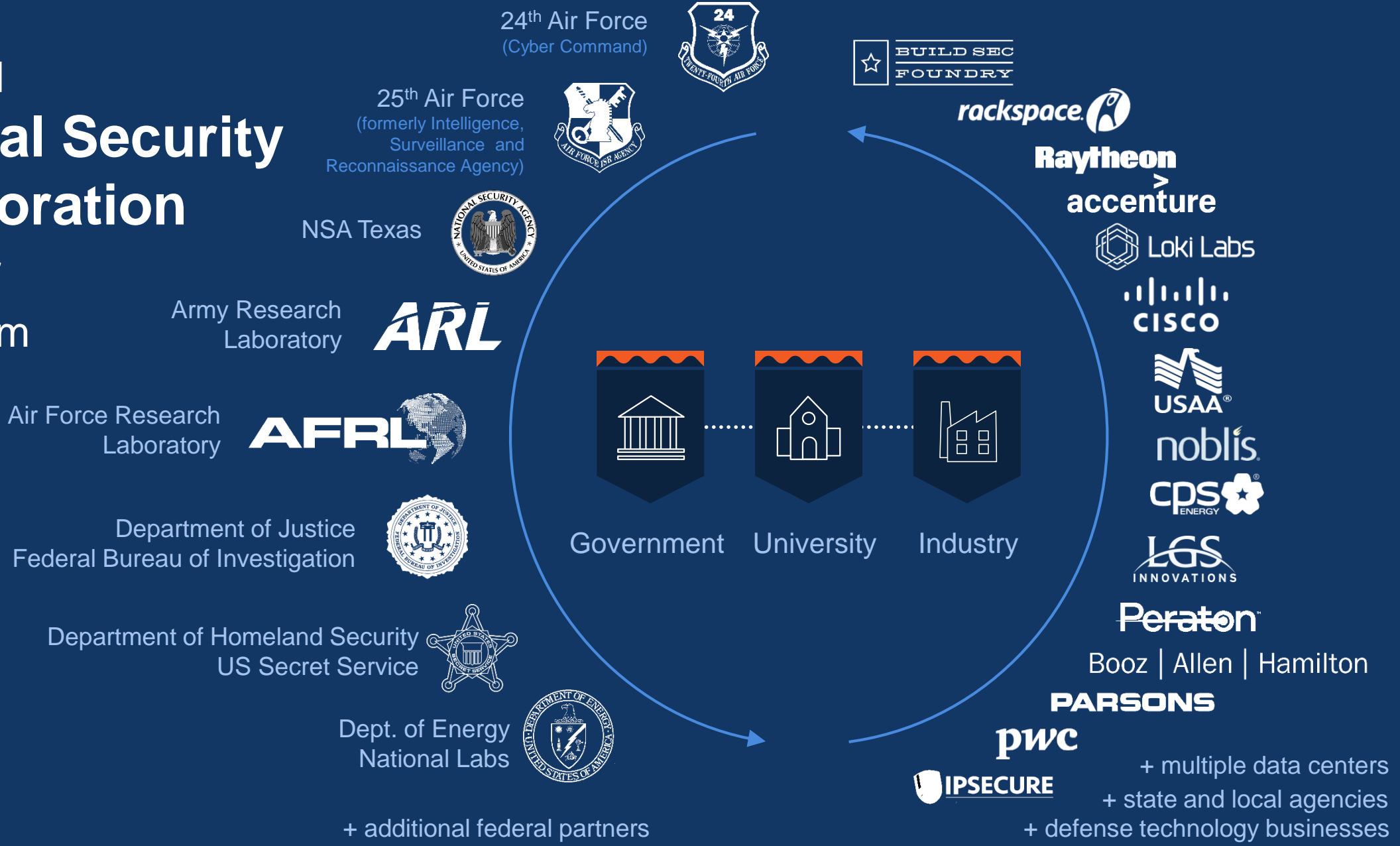
Artificial Intelligence

Machine Learning

Data Visualization

High Tech Intelligence

Proposed National Security Collaboration Center Ecosystem



IMPACT

National Security Collaboration Center

- Fills dire need for cybersecurity workforce
- Fuels San Antonio's Tech Corridor
- Supports major companies growing or moving to San Antonio
- Aligns with federal agency presence
- Advances San Antonio's position as a leader in national security
- Hub for Texas Cyber Corridor



National Security Collaboration Center

Current Industry Partners

CISOs

top producer in the nation

collaboratory

solving the nation's intractable
cyber problems

partners

leaders in the industry

Booz | Allen | Hamilton

Peraton™

accenture

Raytheon

UTSA

noblis

PORT SAN ANTONIO

PARSONS

LGS
INNOVATIONS

BUILD SEC
FOUNDRY

UTSA IS ACTIVELY
PURSUING 11 ADDITIONAL
INDUSTRY PARTNERSHIPS

National Security Collaboration Center Current Federal Partners

coordinated
federal response

synergy
with federal agency density
in San Antonio

model
Government-University-Industry
partnership



25th Air Force



24th Air Force



NSA Texas



Federal Bureau
of Investigation

UTSA

ARL

Army Research
Laboratory



Department of
Energy National Labs



US Secret
Service

UTSA IS ACTIVELY
PURSUING 4 ADDITIONAL
FEDERAL PARTNERSHIPS

IMAGINE

National Security Collaboration Center

Research Centers

- Cyber Center for Security and Analytics
- Collaborative research and training spaces
- Center for Infrastructure Assurance and Security

Sensitive Compartmentalized Information Facility

- Classified Research
- Federal Partners/Contractors

Cyber Protective Operations Center

- Federal Partners

Computational Technology

- Visualization Laboratory
- High Performance Computing
- Cyber Range

Innovation Factory

- Early Stage Technologies
- Student & Faculty Start Ups

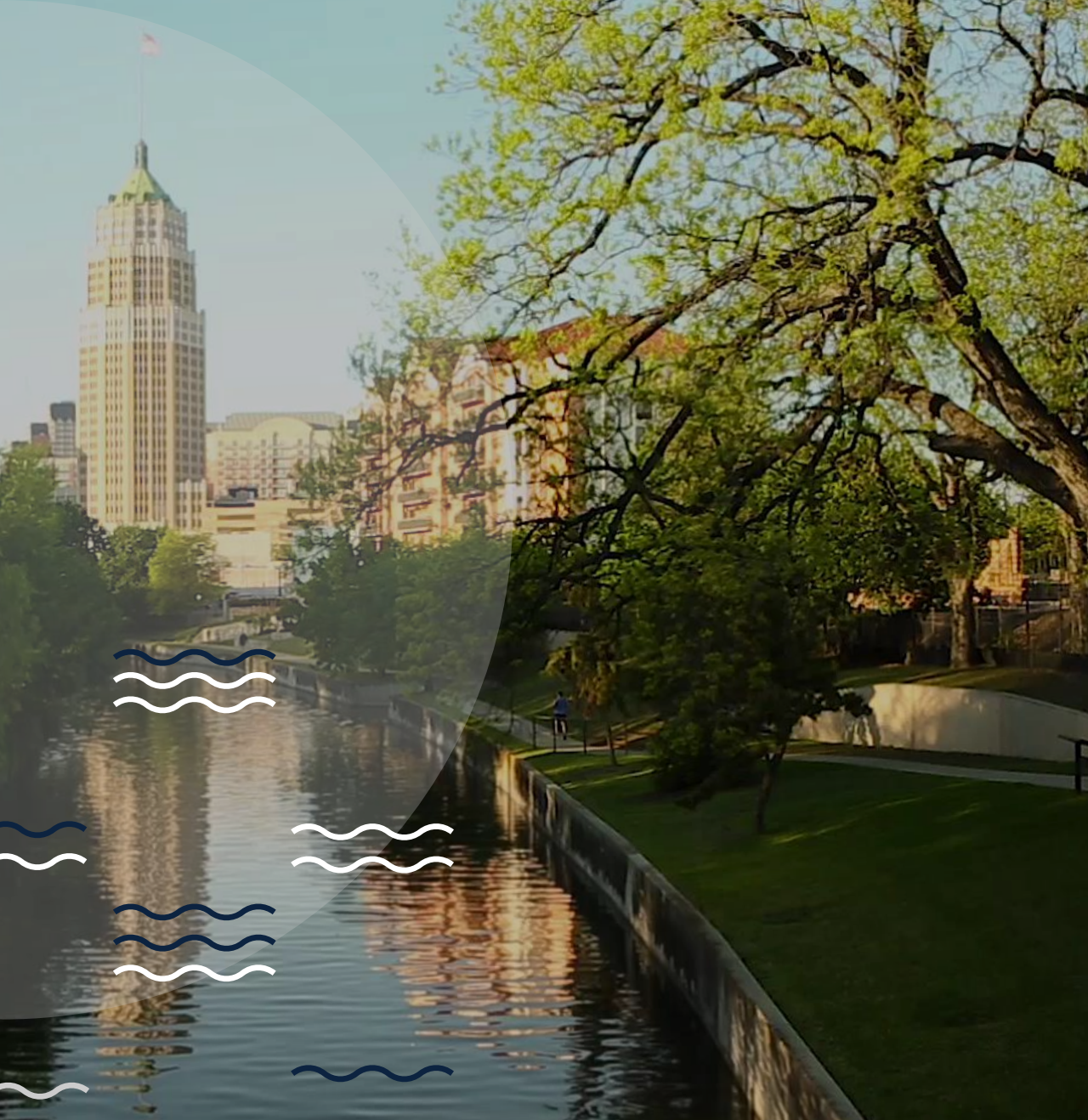
IMAGINE

Texas Cyber Corridor



UTSA[®]

The University of Texas
at San Antonio[™]



Thank you!