

# The Future of Research & Development (or where do all the answers live?)

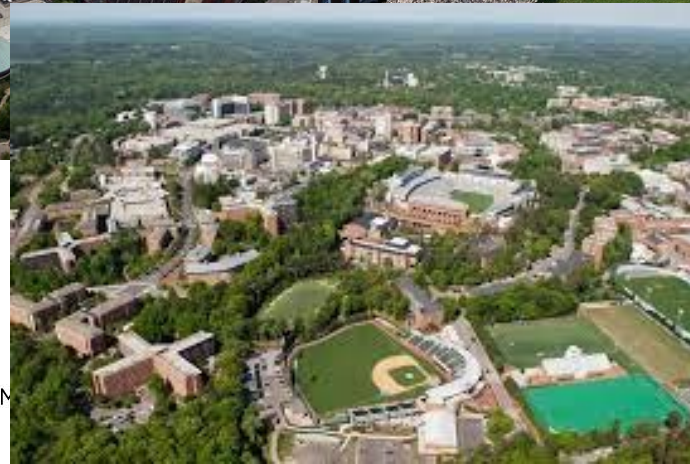


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Private Sector

Federal Research Programs

Research Universities



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## Private Sector R&D



## Federal Research



## University Based R&D

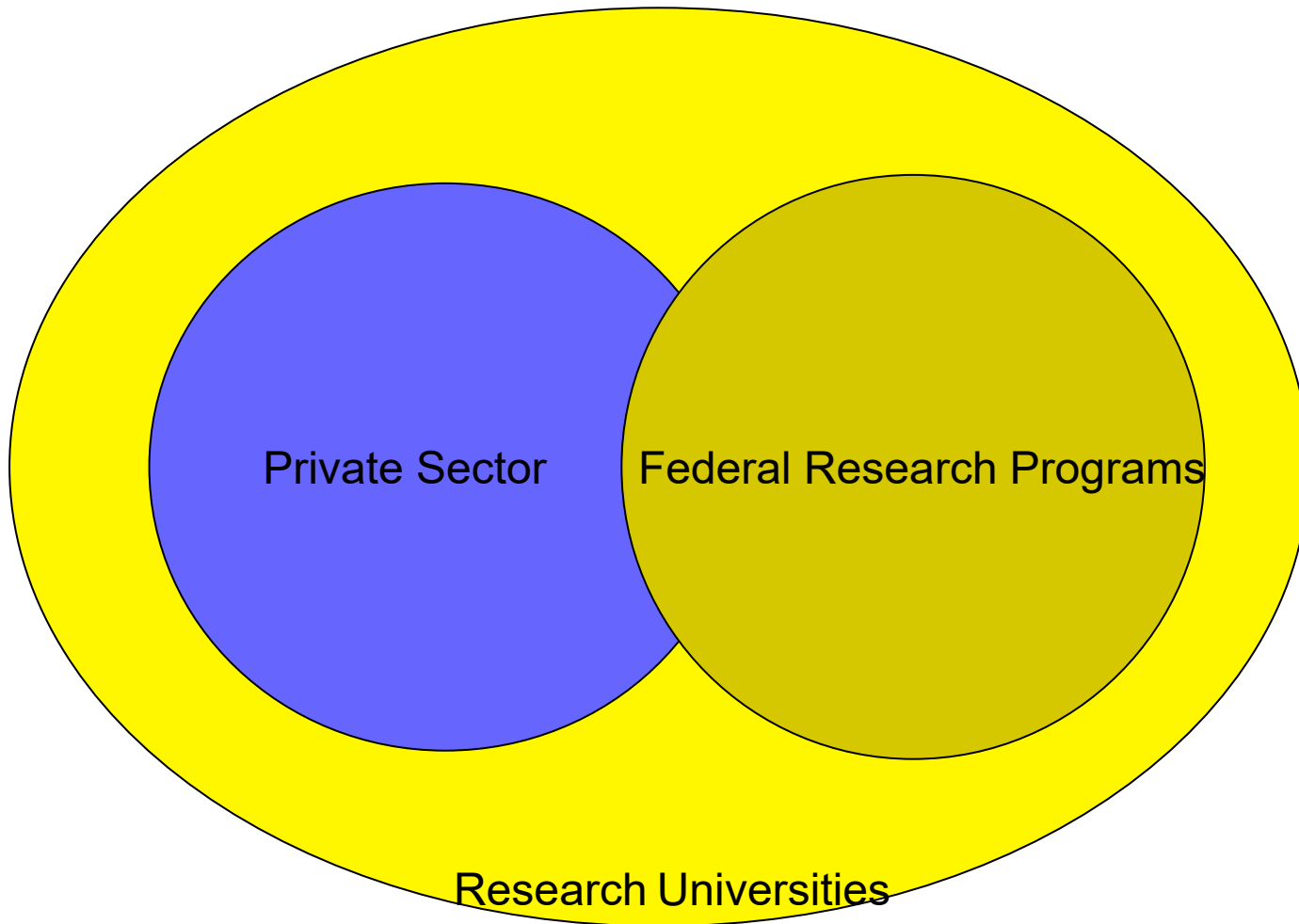




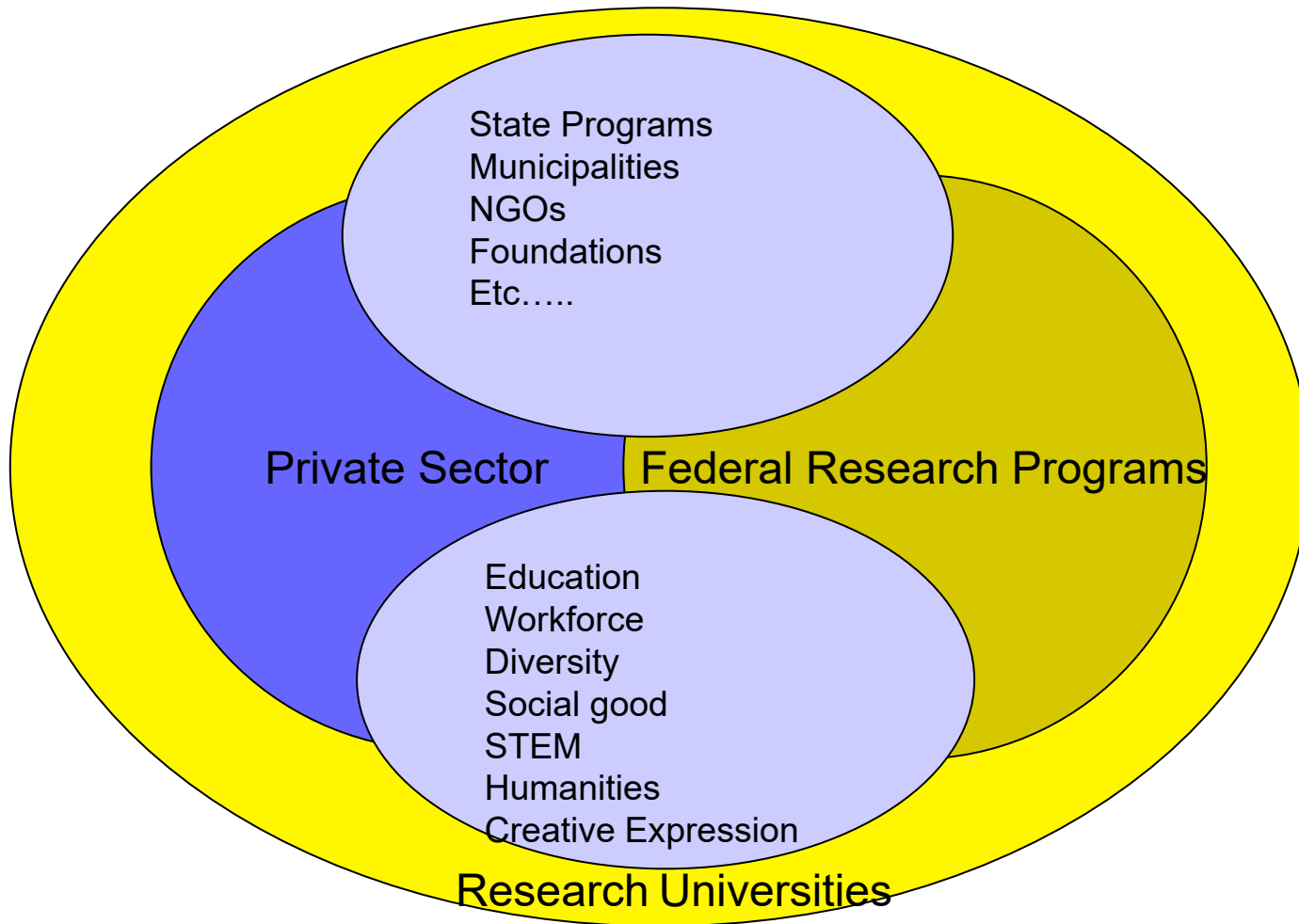
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# Texas State University

- Over 38,808 students; 34 largest university in the U.S.
- Degree Programs
  - 97 bachelor's
  - 93 master's
  - 14 doctoral (newest: PhD in Applied Computer Science)
- 50% of our students are ethnic minorities
- Ranks 14<sup>th</sup> in the nation for bachelor's degrees awarded to Hispanic students
- A Federally Designated Hispanic Serving Institution
- Ranked in the top 50 schools in the nation (top 5 in Texas) in R&D expenditures in the Humanities
- Ranked in the top quartile nationally in total R&D expenditures
- A Carnegie designated Research University (R2)
- >80% of R&D funding from federal sponsors
- World-class faculty





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# TEXAS STATE UNIVERSITY: THE HEART OF THE TEXAS INNOVATION CORRIDOR



# Research & Innovation with Relevance

## Areas of Excellence

- Material Sciences
- Engineering
- Criminal Justice/Public Safety
- Water and the Environment
- Wildlife sciences
- Data Sciences
- Archeology & Anthropology
- Translational Health Sciences
- Social/Behavioral Sciences
- Creative Expression/Performing Arts



NATIONAL  
ENDOWMENT  
FOR THE  
HUMANITIES



National Institutes  
of Health



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# The How of Applied Research at Texas State University

## ❖ University Research Centers

- Texas School Safety Center
- Materials Application Research Center
- Freeman Center
- Xiphophorus Genetic Stock Center
- Meadows Center for Water and the Environment
- Center for Innovation and Entrepreneurship
- Translational Health Research Center

## ❖ Intentional strategy to seek large federal grants for applied research

- Advanced Law Enforcement Rapid Response Training Center (DOJ)

## ❖ Science Technology & Advanced Research (STAR) Park

- 11 For-profit companies with defined partnerships with Texas State

## ❖ Traditional University driven Technology Transfer

- Patents, licensing agreements, company startups

## ❖ Connected Infrastructure for Education, Demonstration and Applied Research (CIEDAR)

- A focused strategy to bridge the silos between the academic research world and for-profit companies

## ❖ Texas State I-Corps Site for Entrepreneurship



# The Who of Applied Research at Texas State University

- World-class faculty across multiple colleges, departments, disciplines
- Graduate and undergraduate students in various degree programs
- Alumni of Texas State
- All of the support offices
- Community
- Partners outside of Texas State

Research produces the raw material for  
technology transfer —————> knowledge





## Technology Transfer

- ❖ A process that moves knowledge from the lab to the market
- ❖ A process that converts scientific and technological findings into marketable goods or services
- ❖ Assignment of intellectual property generated in one place to another place through defined processes

# Technology Transfer

## What? Who? **How?** Why?

- ❖ Protection of Intellectual Property



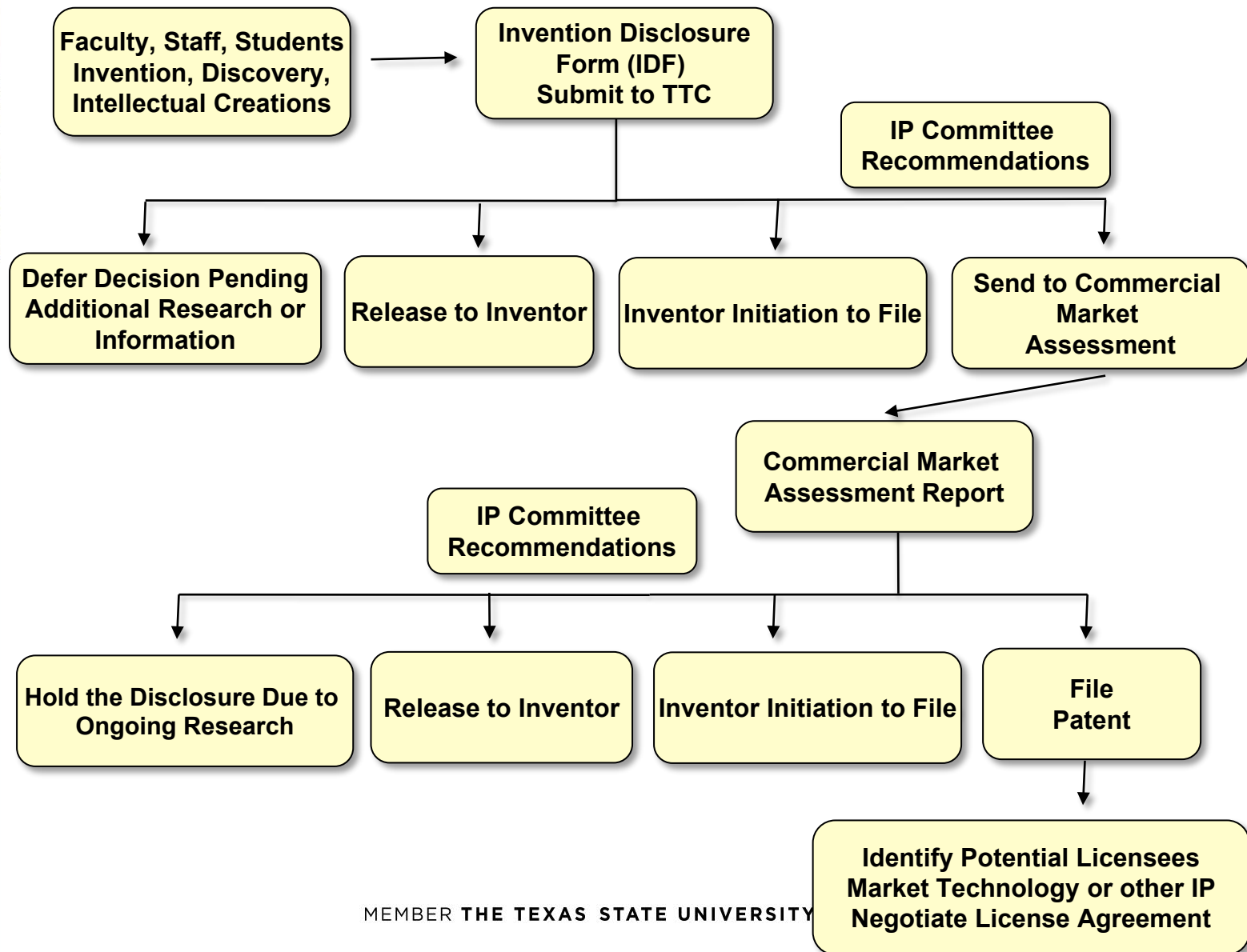
- ❖ Licensing (handing off the baton)

universities are not in the best position to monetize research findings...that is where the private sector comes in

Collaboration  
Partnerships  
Win-Win  
Public good



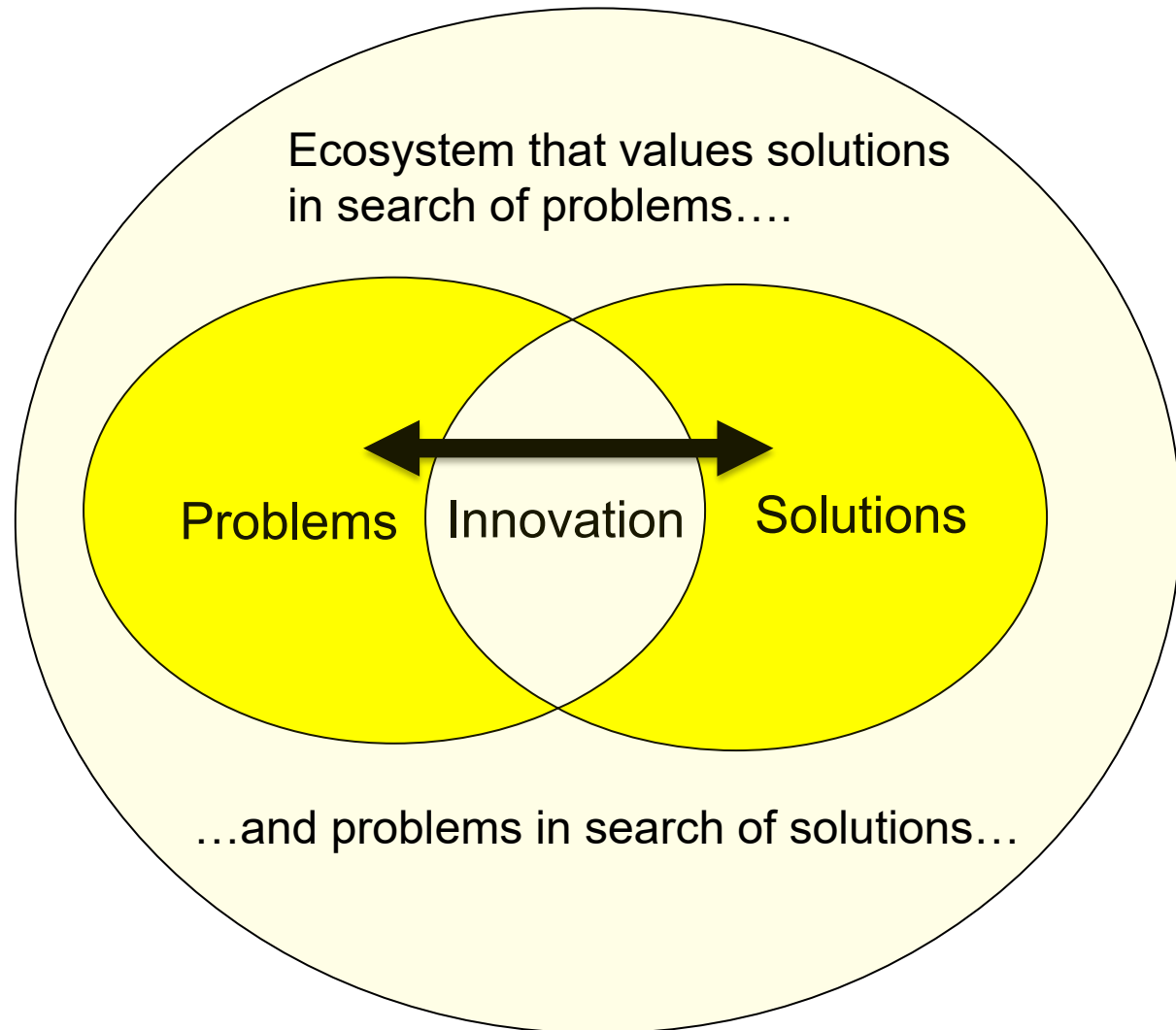
# IP & Technology Transfer Process



Where the answers live....

Creating the future.....

The modern comprehensive research university





# Office of Research & Sponsored Programs

[www.txstate.edu/research/](http://www.txstate.edu/research/)

## Strategic Research Initiatives

**Evy Gonzales**

[eg13@txstate.edu](mailto:eg13@txstate.edu)



## Research Integrity & Compliance

**Sean Rubino**

[srubino@txstate.edu](mailto:srubino@txstate.edu)



## Pre-Award Support

**Kay Beauchamp**

[sb45@txstate.edu](mailto:sb45@txstate.edu)



## Research Records & Systems Services

**Dr. Yongxia Xia**

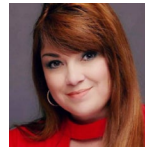
[ys11@txstate.edu](mailto:ys11@txstate.edu)



## Post-Award Support

**Marivel Alvarez**

[ma17@txstate.edu](mailto:ma17@txstate.edu)



## Technology Transfer & Contracts

**Dr. Reddy Venumbaka**

[sv04@txstate.edu](mailto:sv04@txstate.edu)



## Methodology, Measurement & Statistical Analysis

**Dr. Larry Price**

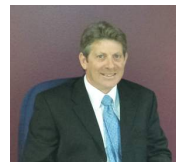
[mmsaorsp@txstate.edu](mailto:mmsaorsp@txstate.edu)



## Assistant VP Research

**Dr. Mike Blanda**

[mb29@txstate.edu](mailto:mb29@txstate.edu)





# Thank you!

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