

A photograph of a white sign with the text "NEW MEXICO TECH" in dark blue, serif capital letters. The sign is set against a dark blue building with a gabled roof. In the foreground, there is a vibrant garden of tulips in various colors including red, yellow, purple, and pink, with green foliage. The sky is clear and blue.

NEW MEXICO TECH

Presentation to Economic and Rural Development Policy Committee  
Mr. Michael Smith  
Director of Institute for Complex Additive Systems Analysis  
1 July 2026

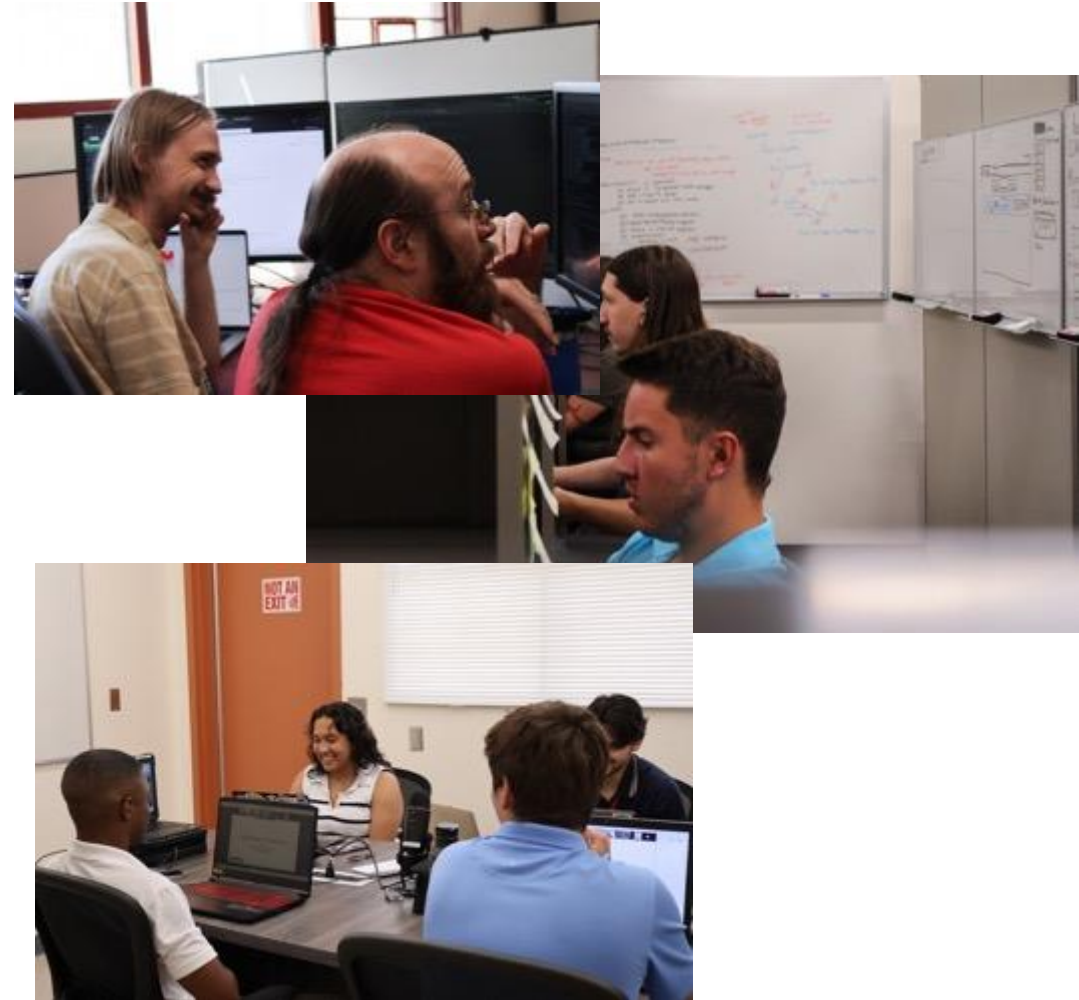
# Institute for Complex Additive Systems Analysis (ICASA) – At a Glance

Created through enabling legislation by State of New Mexico in 2001 (§21-11-8.1). Research division of New Mexico Tech.

- Mission: Protect critical infrastructure through applied research, software development, and analytics
- Expertise: Data Science in the Public Interest (DSPI), national security, complex systems, machine to machine automation
- 250+ student interns supported since inception
- Statewide impact through workforce development, industry partnerships, and public-sector innovation

# ICASA: Statewide Impact

- Develops/retains high-wage critical-thinker workforce
- Builds technology solutions for state, government and industry
- Supports national security, warfighter, defense, energy, and emerging technology sectors
- Attracts external investment and federal funding
- Applied Research → Workforce Development → Tech Innovation → Economic Impact

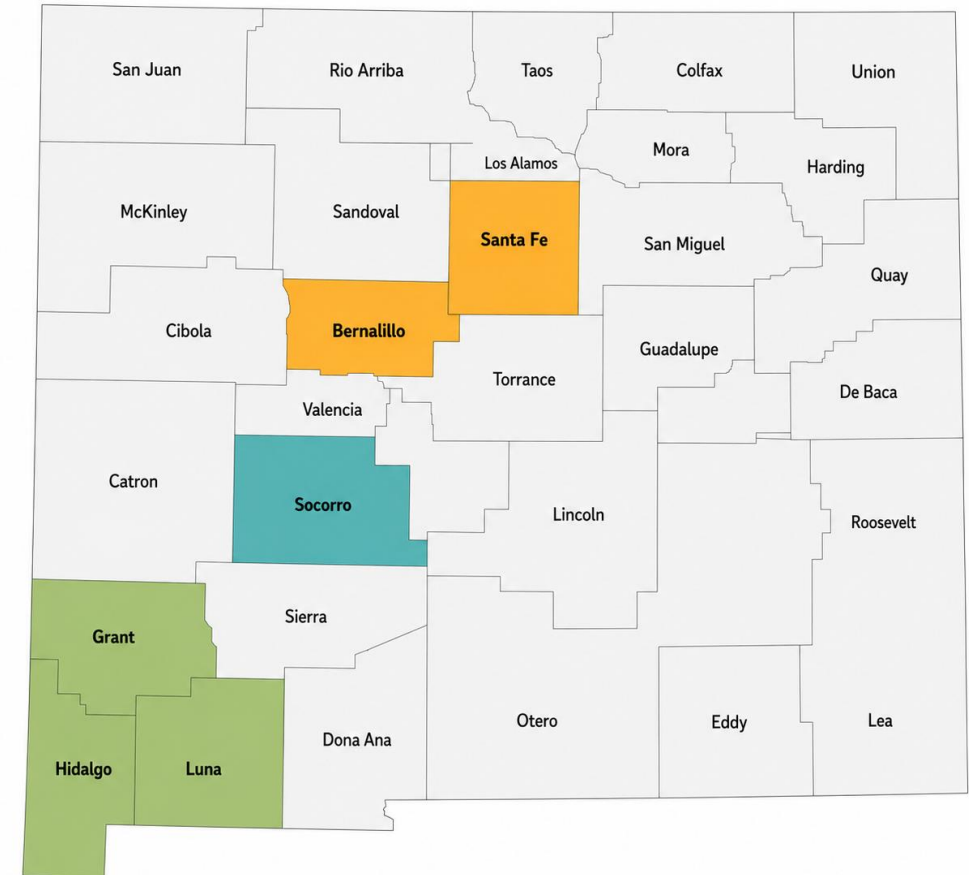


# ICASA: Contributions to Workforce Development

- 250+ students supported through research activities and experiential learning opportunities (undergrad and graduate level)
- Direct engagement with industry, national labs, and public sector agencies (local, state, federal)
- Builds talent pool in data science, critical thinking, systems engineering, engineering, electronic/information warfare
- ICASA Staffing levels
  - 37 FTE (~24 have DoD Clearances up to TS//SCI)
  - 16 students

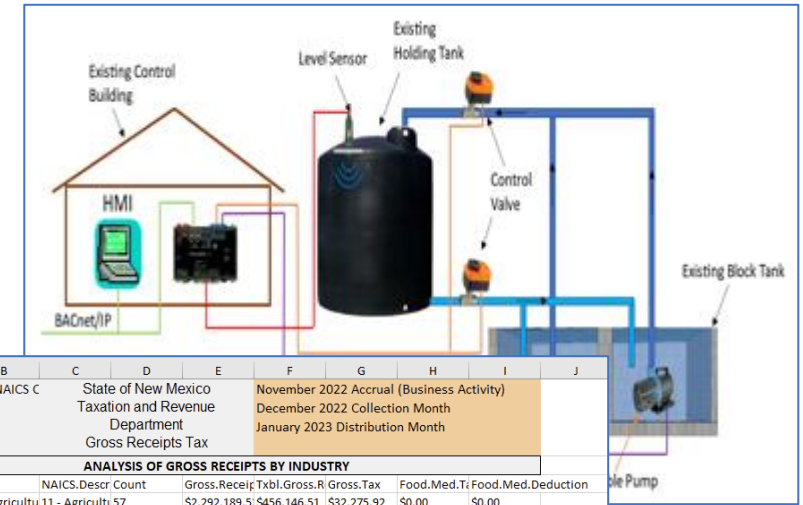
# ICASA: Statewide Reach, Rural Lens

- Intentionally works with organizations across NM
- Playas Research and Training Center (PRTC) supports southwest New Mexico economic activity
- Supports statewide data initiatives
- Technology-enabled economic opportunities beyond the Rio Grande corridor



# ICASA: Success Stories

- Criminal Justice Analytics: Improved data sharing and decision support
- Healthcare Workforce Dashboard: Data-driven planning for New Mexico
- Student Workforce Pipeline: Research experiences leading to high-skill careers
- Playas/PEACE initiatives: Attracting federal investment to rural New Mexico



Report No. 80 -- NAICS C	State of New Mexico Taxation and Revenue Department Gross Receipts Tax	November 2022 Accrual (Business Activity) December 2022 Collection Month January 2023 Distribution Month	
<b>ANALYSIS OF GROSS RECEIPTS BY INDUSTRY</b>			
State Summ:IND	NAICS.Descr Count	Gross.Receiv.TxBL.Gross.R.Gross.Tax	Food.Med.T:Food.Med.Deduction
4 State Summ:11: Agricultu 11 - Agricultu 57		\$2,292,189.51 \$456,146.51	\$32,275.92 \$0.00
5 State Summ:11: Agricultu 111 - Crop Pr 87		\$6,572,666.00 \$1,659,507.11	\$114,127.19 \$0.00
6 State Summ:11: Agricultu 11119 - Othe *		*	*
7 State Summ:11: Agricultu 11112 - Veget *		*	*
8 State Summ:11: Agricultu 11121 - Vege 4		\$959,933.50 \$8,968.80	\$599.79 \$0.00
9 State Summ:11: Agricultu 111219 - Oth *		*	*
10 State Summ:11: Agricultu 11113 - Fruit a 4		\$319,152.82 \$15,575.00	\$912.76 \$0.00
11 State Summ:11: Agricultu 11133 - Nonc *		*	*
12 State Summ:11: Agricultu 111332 - Gray *		*	*
13 State Summ:11: Agricultu 111335 - Tree *		*	*
14 State Summ:11: Agricultu 111336 - Frui *		*	*
15 State Summ:11: Agricultu 111339 - Oth *		*	*
16 State Summ:11: Agricultu 11114 - Green 91		\$8,510,186.31 \$5,101,319.21	\$436,092.49 \$0.00
17 State Summ:11: Agricultu 111411 - Mus *		*	*
18 State Summ:11: Agricultu 111419 - Oth 5		\$192,586.13 \$8,550.00	\$691.29 \$0.00
19 State Summ:11: Agricultu 11142 - Nurs:11		\$0.00 \$-1,068,869.11	\$0.00 \$0.00

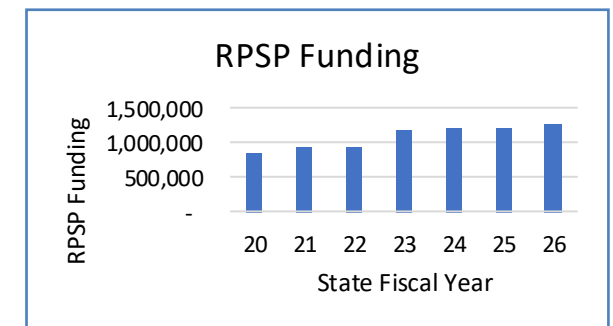
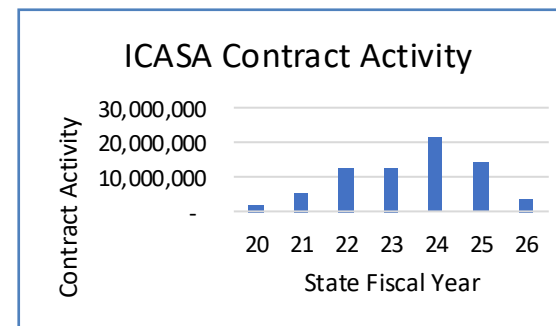
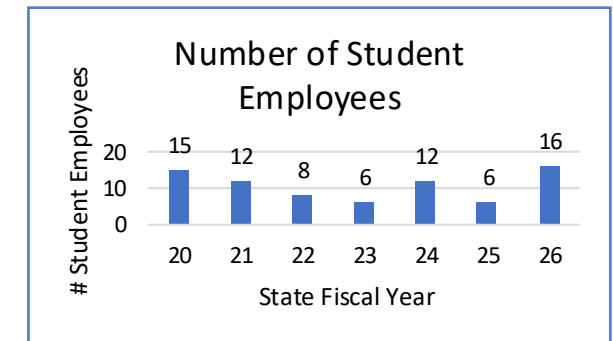
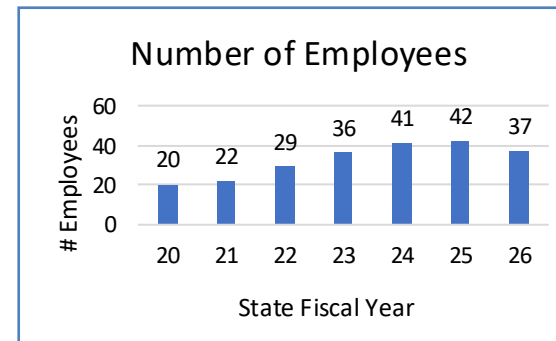


# Leveraging State Investment

## Future Opportunities

- Cross-departmental collaboration at NM Tech
- Elevate ICASA's visibility to align with more contract/experiential opportunities (DoD, DoE, AFRL, NM State Agencies, etc.)
- Fund ICASA's Data Science in the Public Interest (DSPI) projects supporting New Mexico's public sector
- Grow workforce development initiatives in ICASA's focus areas (e.g., AI, Cyber Resiliency, Spectrum Science, Cloud Engineering, Data Science, complex systems)

FY	20	21	22	23	24	25	26
RPSP Funds	\$846,211	\$940,000	\$928,737	\$1,190,868	\$1,205,600	\$1,224,900	\$1,261,100
External Funding	\$2,241,336	\$5,465,768	\$12,599,320	\$12,845,567	\$21,497,928	\$14,093,261	\$3,553,200
ROI	2.65	5.81	13.57	10.77	17.83	11.51	2.82



# ICASA: Key Takeaways

- ICASA develops/retains New Mexico's talent pipeline while solving real-world problems
- ICASA attracts external federal and industry funding multiplying state investment
- ICASA strengthens New Mexico's position in national security, advanced technology, and data science.

# Questions