

# Research, Education & Community Service

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# Introduction

- ❖ Interests
  - ❖ Technology based & inclusive economic development
  - ❖ Research translation, commercialization & entrepreneurship
  - ❖ Innovation economy & public-private partnerships
  - ❖ Public-Private Partnerships
  - ❖ Diversity in STEM
- ❖ Principal Investigator on \$20M in awards



# Agenda

- ❖ SDSU - Imperial Valley
- ❖ Brawley STEM Innovation Hub
- ❖ Collaboration in Education
- ❖ Collaboration in Research & Innovation
- ❖ Collaboration in Community Service
- ❖ Final Thoughts
- ❖ Questions



# SDSU – Imperial Valley

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# San Diego State University Imperial Valley

- ❖ SDSU Imperial Valley has two campuses, Brawley & Calexico, is the only 4-year public research university in the county





# San Diego State University Imperial Valley

- ❖ SDSU-IV serves a diverse student population through a responsive curriculum and community engagement efforts concentrated throughout the cross-border region
- ❖ 12 bachelor's degrees, 4 master's degrees, teaching credential program and multiple certificate programs
- ❖ ~1,200 students enrolled, 10% YoY growth since 2021
- ❖ Graduation Rates
  - ❖ 4-year graduation rate – 70%, CSU – 35%
  - ❖ 6-year graduation rate – 80%, CSU – 62%



# Brawley STEM Innovation Hub

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# Brawley STEM Innovation Hub

- ❖ \$80M investment by the Governor in 2022 through Lithium Valley package
- ❖ A flexible environment that encourages collaboration
- ❖ Add instructional capacity
- ❖ Designing flexibility to support future programs
- ❖ Provide a student-centered building
- ❖ Completion in Fall 2025





# Brawley STEM Innovation Hub



# Brawley STEM Innovation Hub



# Brawley STEM Innovation Hub



# Brawley STEM Innovation Hub



# Brawley STEM Innovation Hub

- ❖ Teaching Labs
- ❖ Research Labs
- ❖ Faculty Offices
- ❖ Student Collaboration Space



# Brawley STEM Innovation Hub





# Collaboration in Education

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# Collaboration in Education

- ❖ Lithium Valley presents new opportunities in education and training for SDSU-IV students.
- ❖ Bachelor of Science in Public Health with emphasis in Environmental Health degree program – Fall 2024
  - ❖ Specializes in disciplines of epidemiology, environmental health, occupational health, health services administration and behavioral health.
- ❖ Bachelor of Science in Nursing Degree – Fall 2022
  - ❖ New, accelerated pre-licensure program provides freshman entry students the opportunity to complete their BSN in three years and transfer eligible students in two years.





# Collaboration in Education

- ❖ Planned Programs
  - ❖ Bachelors of Science in Materials Engineering – Fall 2025
  - ❖ Bachelors of Science in Chemistry – Fall 2025
- ❖ Thousands of new jobs coming to Imperial County
  - ❖ Management, engineering, and chemist positions requiring a bachelors degree are likely to represent less than 5% of all jobs created.
  - ❖ Local workforce requirements will drive demand.
- ❖ Meet students where they are by collaborating with IVC, workforce board, apprenticeship programs, etc. to provide continuum of educational opportunities to residents for career readiness and career advancement.

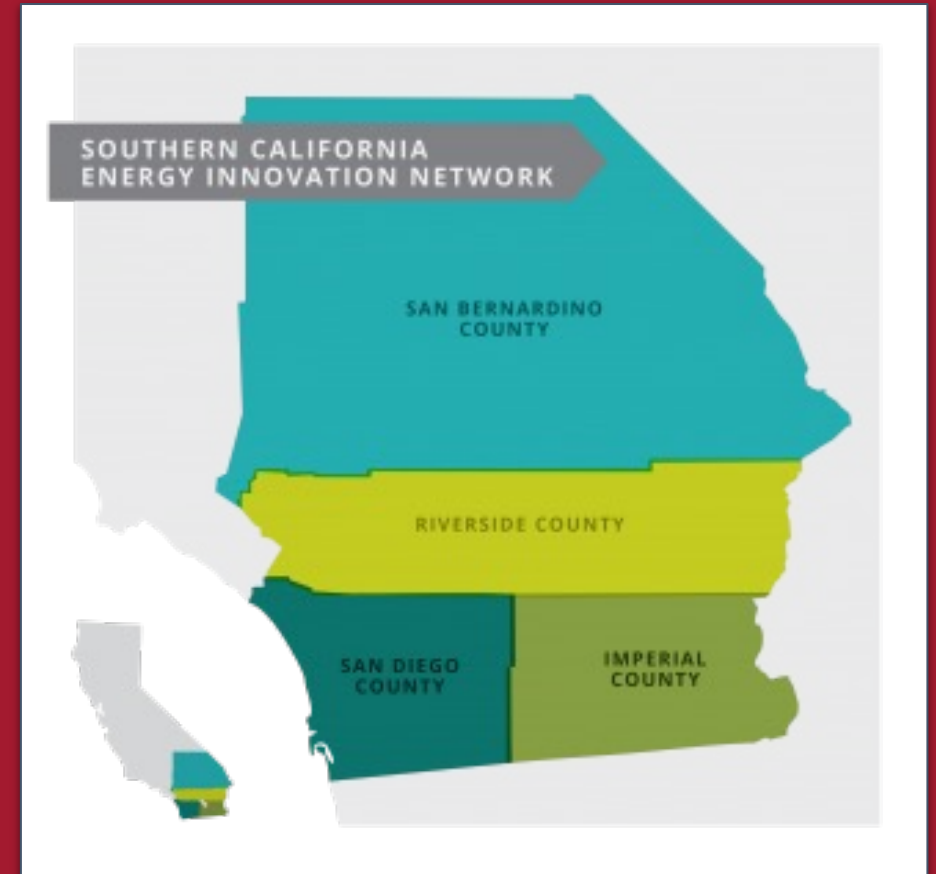


# Collaboration in Research & Innovation

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# Southern CA Energy Innovation Network

- ❖ Designed to support clean energy technologies
- ❖ Funded by CEC EPIC
- ❖ \$10M / 10-years
- ❖ Key Partners – IVEDC, SDSU, UCR
- ❖ Controlled Thermal Resources became a member in 2019
  - ❖ Hell's Kitchen Geothermal





# EDA Regional Technology & Innovation Hub

- ❖ Tech Hubs aims to strengthen U.S. economic and national security with investments in regions with assets and resources with the potential to become globally competitive in the technologies and industries of the future.
- ❖ Lithium Valley Clean Tech Strategy Development Consortium
- ❖ \$500k / 18 months
- ❖ Partners – Imperial County, SDSU-IV, UCR



# Collaboration in Community Service

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# EDA Recompete Pilot Program

- ❖ Invest in economically distressed communities to create and connect people to good jobs. To do so, the program targets areas where prime-age (25-54 years) employment significantly trails the national average, with the goal to close this gap through large, flexible investments.
- ❖ Lithium Valley Recompete Plan
- ❖ 1 of 22 selected finalists (565 applications)
- ❖ Partners – Imperial County, SDSU-IV, Policy & Innovation Center



# California Jobs First

- ❖ \$600 million Regional Investment Initiative to create high-quality, accessible jobs and help build resilience to the effects of climate change and other global disruptions impacting the state's diverse regional economies.
- ❖ Investment into the state's 13 economic regions.
- ❖ Collaboratives are developing roadmaps, including a strategy and recommended series of investments, for their respective regions.
- ❖ SDSU Research Foundation serves as Lead Convener and Fiscal Agent for the Southern Border Region
- ❖ \$5M Planning Grant & \$14M Catalyst Grant



# Final Thoughts

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# Final Thoughts

- ❖ Develop regional coalitions
  - ❖ Build trusted partner networks
  - ❖ Representation from multiple organization types
  - ❖ Engage early and often
  - ❖ Rapid response to funding opportunities
  - ❖ Eliminate internal competition
- ❖ Leverage unique regional assets
- ❖ Listen to community and engage authentically
- ❖ Identify and acknowledge gaps and challenges, turn these into opportunities
- ❖ Shots on goal!



# Thank You

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