

AGRICULTURAL RESEARCH INSTITUTE

Presented to:

California Prune Board

13 December 2023

David Still
ARI Executive Director



ARI Mission

Drive applied research – through the power of the CSU system and industry collaboration – to positively impact California agriculture, natural resources and food systems, while cultivating the next generation of leaders in these fields.



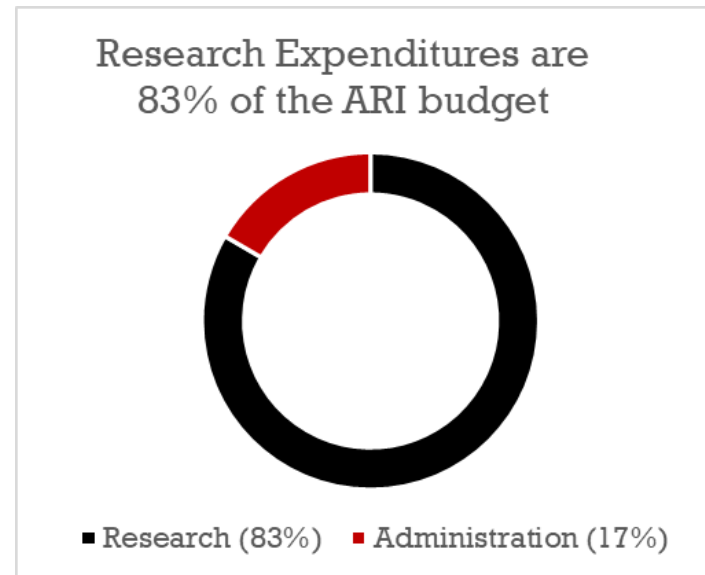
ARI Strategic Priorities

- Research: Fund research that matters
 - Visibility & Funding: Raise visibility, build demand, grow funding
 - Build Capacity & Strength: Expand participation, build depth
-



How it Works

Since 1999, annual base funding of \$4 million



Programs

- Foundational programs (campus, system)
- Contracts:
 - ARI-Integrated Pest Management (CDFA)
 - C3PA – Comprehensive Pest Prevention Program Analyses (CDFA)
- Grants:
 - ARI-HSI Fellows (USDA NIFA)
 - ARI-NextGen Fellows (USDA NIFA)

How it Works

Annual base funding of \$4 million

Campus



ARI Campuses

Chico
Fresno
Humboldt
Monterey Bay
Pomona
San Luis Obispo

System



Multi-institutional

PI: Any CSU campus *plus*

≥ 1 Co-PI from a different CSU, or
UC, USDA, etc.

How it Works

- Zero overhead
- Requires match: co-fund
 - ARI funds: up to \$450,000
 - External match: up to \$450,000
 - Total for project: = \$900,000
- Campus or system proposals
- Proposals: peer-reviewed
Papers: peer-reviewed

Maximizing Research Dollars

$$\begin{array}{rcccl} \mathbf{\$25M} & & \mathbf{\$187M} & & \mathbf{\$212M} \\ \text{Industry} & + & \text{State, federal,} & = & \text{Total dollars supporting CA} \\ \text{dollars} & & \text{and other funds} & & \text{agricultural research} \end{array}$$

24 Years of CSU Agricultural Research Institute

Since 1999

- Projects funded: 1,240
 - ◇ ~150 projects per year
 - ◇ ~125 faculty per year
 - ◇ ~300 students per year
- Grants awarded: \$212 million
 - ◇ \$99 million state ARI dollars
 - ◇ \$113 million match

Funding Areas

- ◇ Advanced technologies
- ◇ Animals
- ◇ Business and Economics
- ◇ Environment
- ◇ Farming and Ranching
- ◇ Food Science
- ◇ Health
- ◇ Human Sciences
- ◇ Natural Resources
- ◇ Plants



ARI Addresses Issues that Cut Across Disciplines





Peer-Reviewed Research

Frontiers Plant Sci

**Science
Communications**

Forest Pathology

Agronomy Journal

**Theoretical and
Applied Genetics**

**Plant Disease
Management Report**

Student Impacts:

Workforce development: critical thinking skills

Last 5 years:

- *25% of the ARI budget supported student research*
- *92% of all ARI projects provided scientific training and mentoring*
- *1,200 students trained; 250,000 hours of paid internships*
- ***Deeper learning, problem solving, networking***



Sierra Lauman, Cal Poly Pomona



Grace Woodmansee, Chico State



Touyee Thao, Fresno State



Paul Mawdsley, SLO

Faculty Impacts:

Attracting and retaining faculty

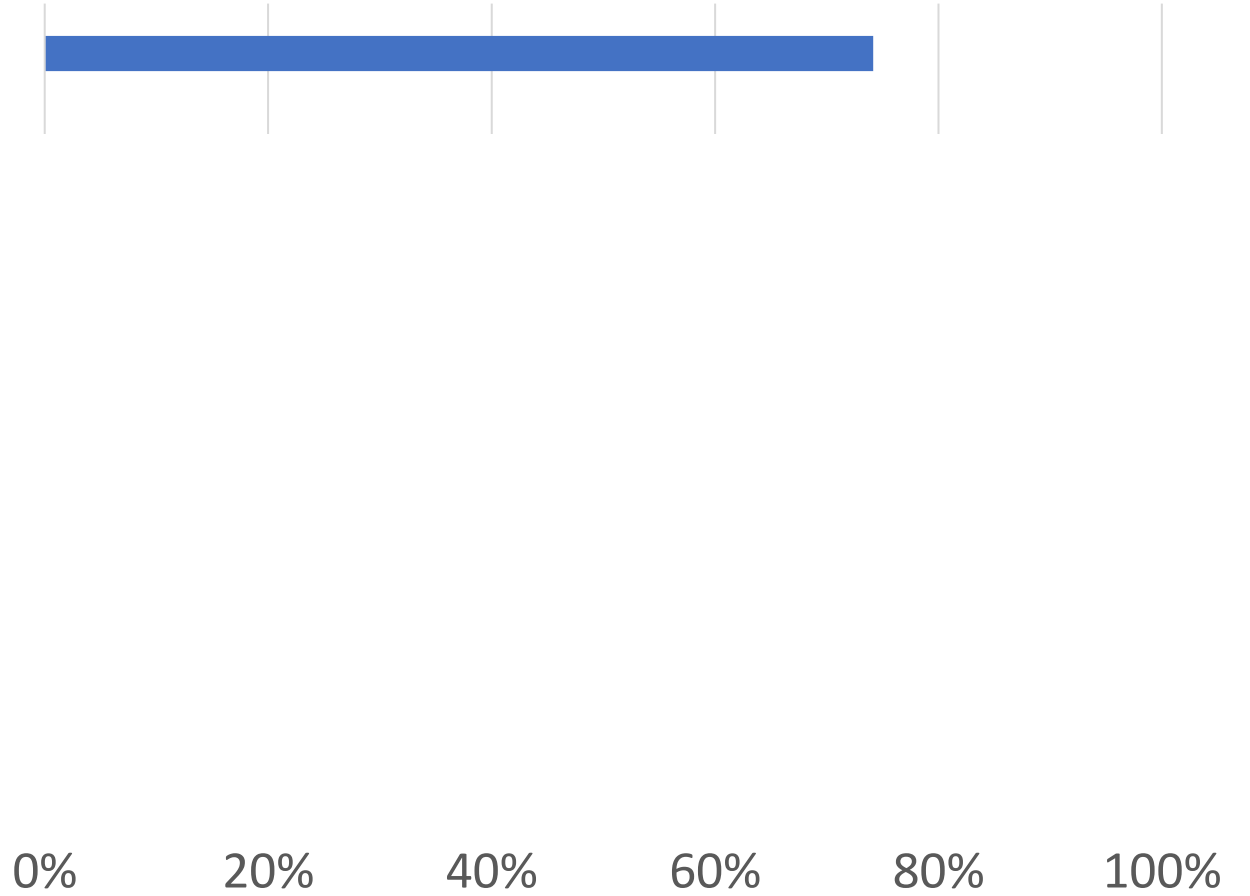


Faculty Impacts:

Attracting and retaining faculty

Agree/strongly agree

Accept CSU employment



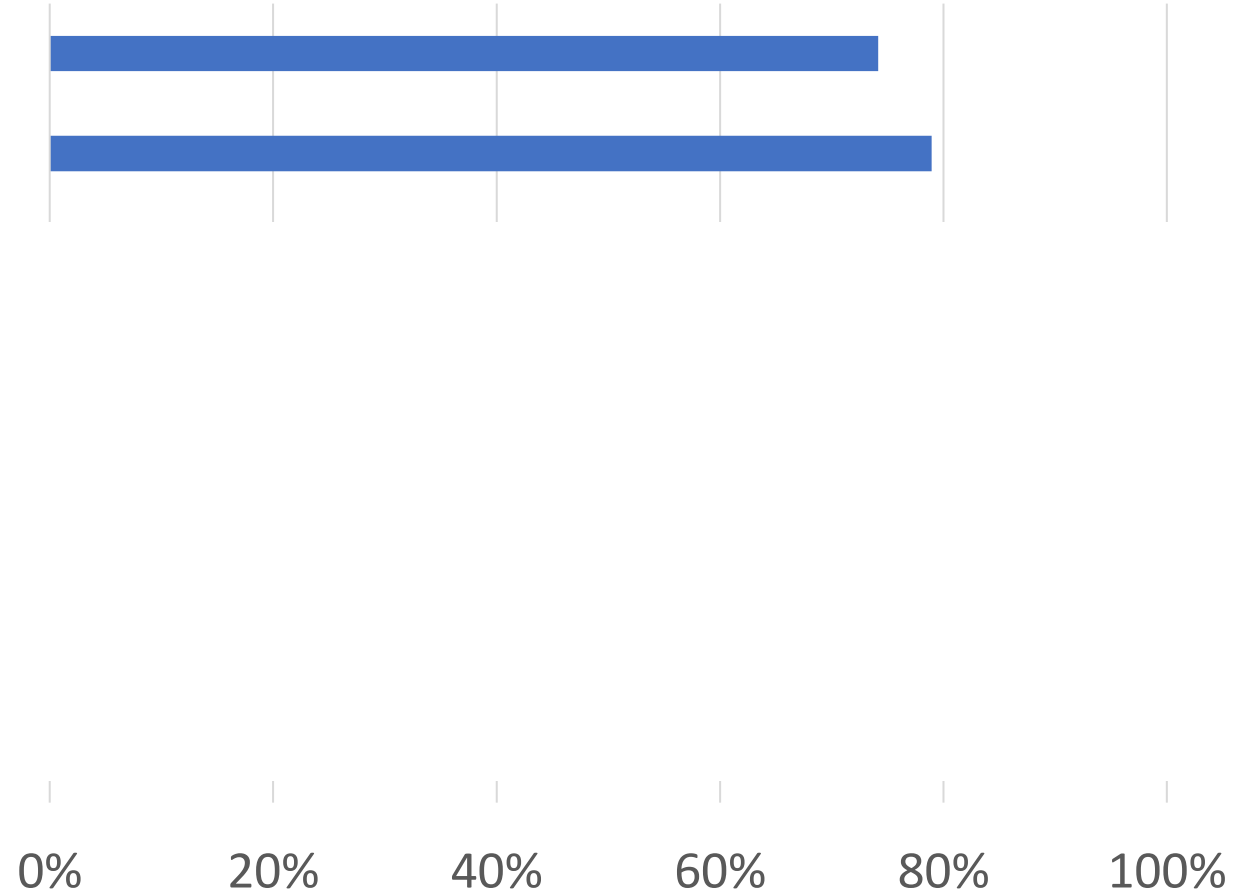
Faculty Impacts:

Attracting and retaining faculty

Agree/strongly agree

Accept CSU employment

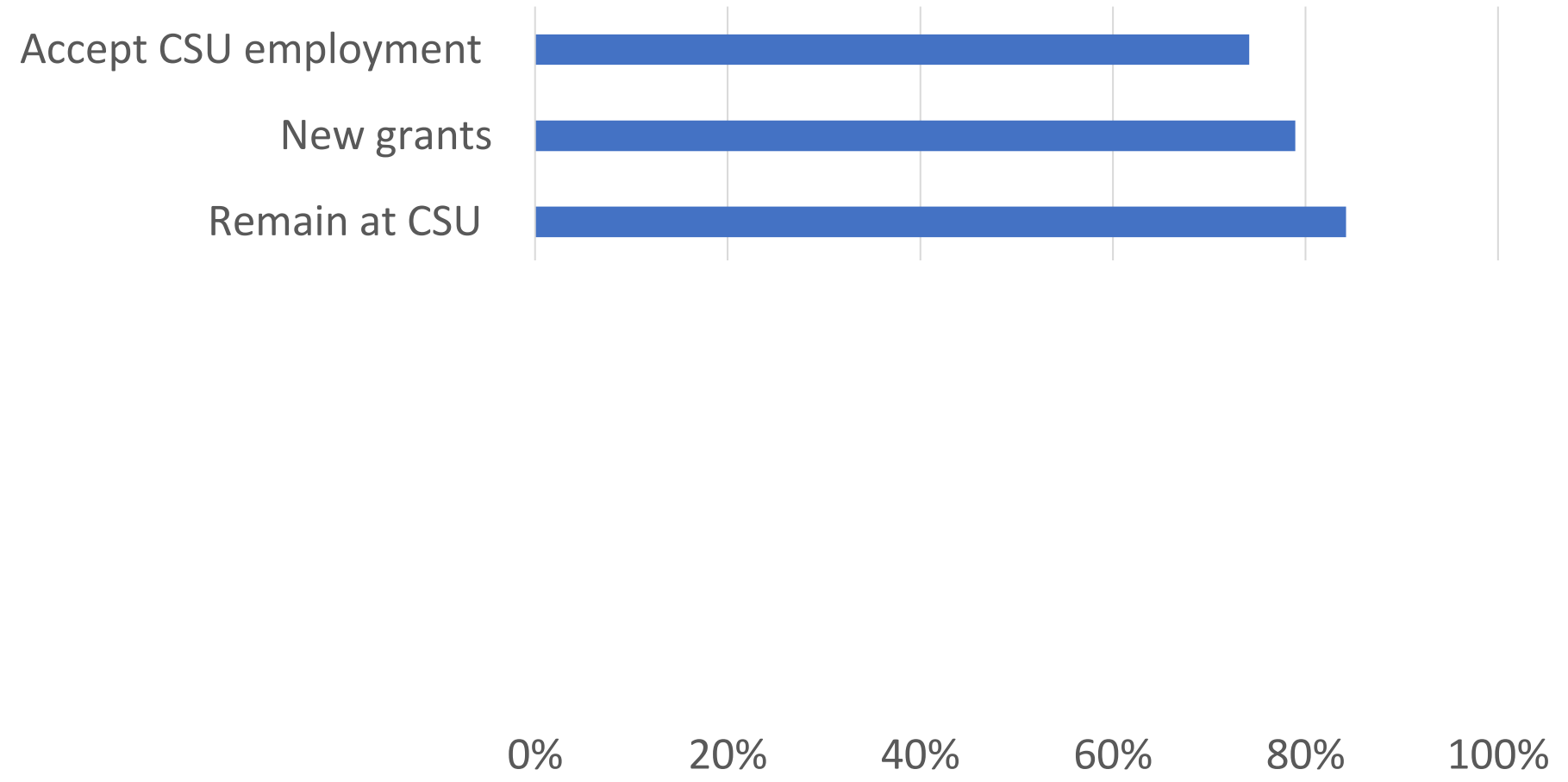
New grants



Faculty Impacts:

Attracting and retaining faculty

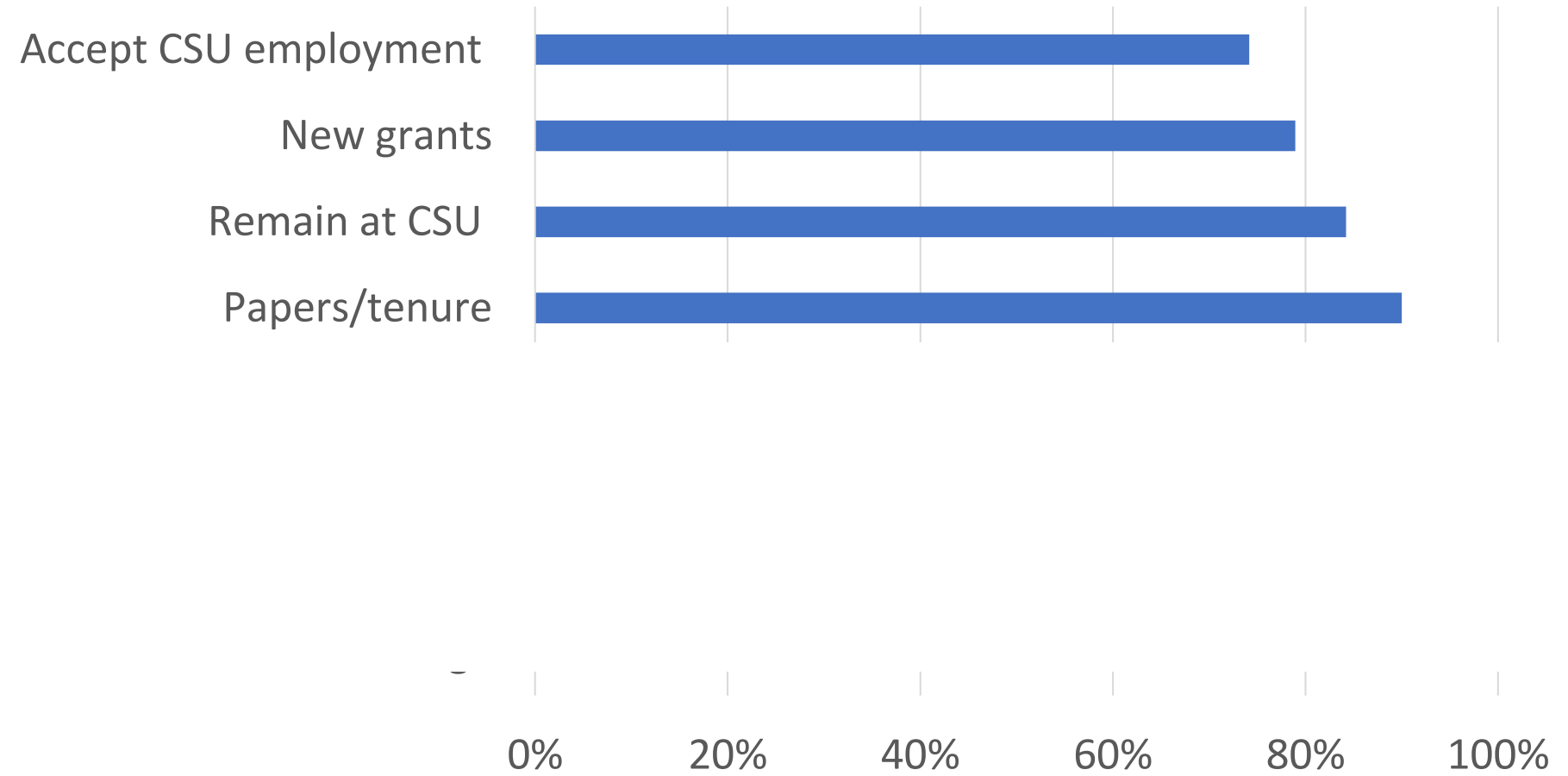
Agree/strongly agree



Faculty Impacts:

Attracting and retaining faculty

Agree/strongly agree



Faculty Impacts:

Attracting and retaining faculty

Agree/strongly agree

Accept CSU employment

New grants

Remain at CSU

Papers/tenure

Economic impact

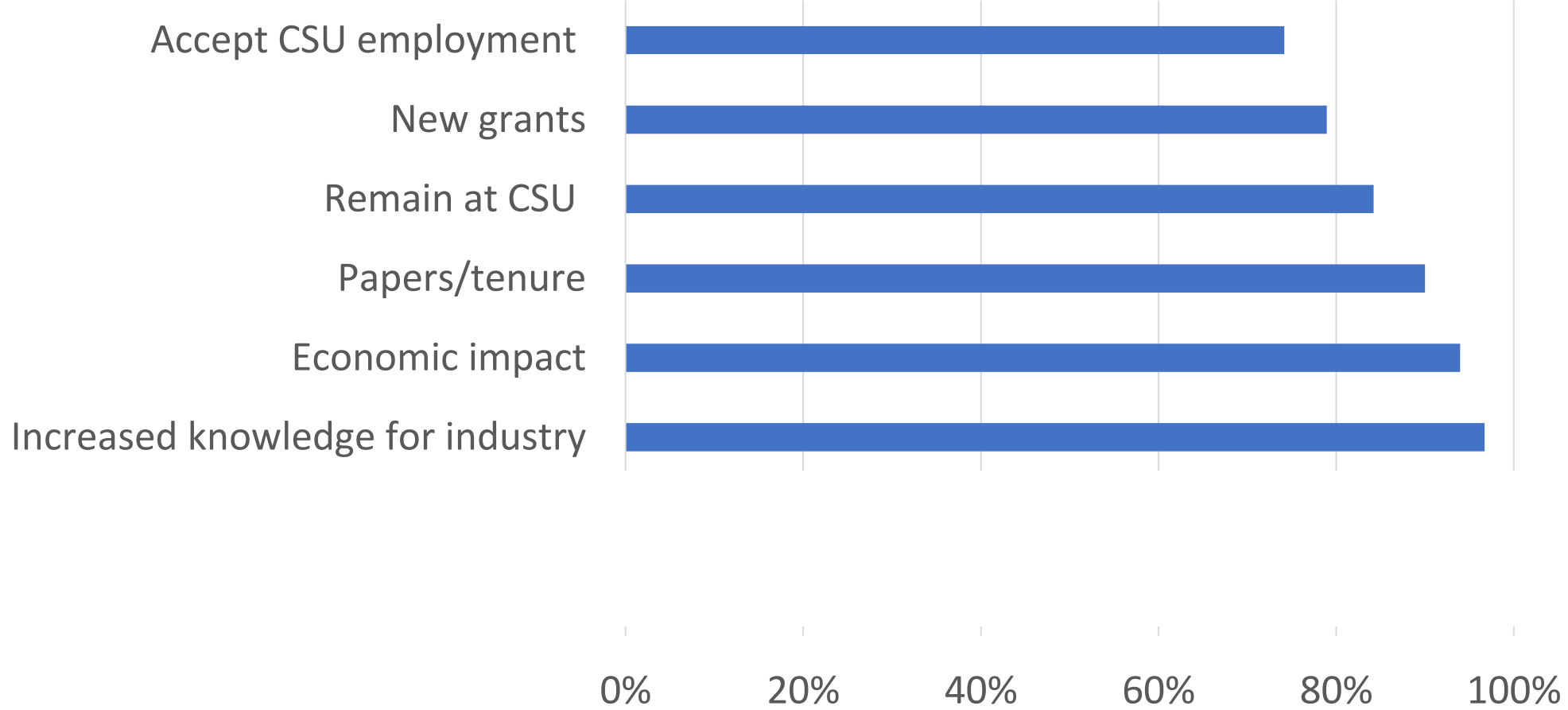
0% 20% 40% 60% 80% 100%



Faculty Impacts:

Attracting and retaining faculty

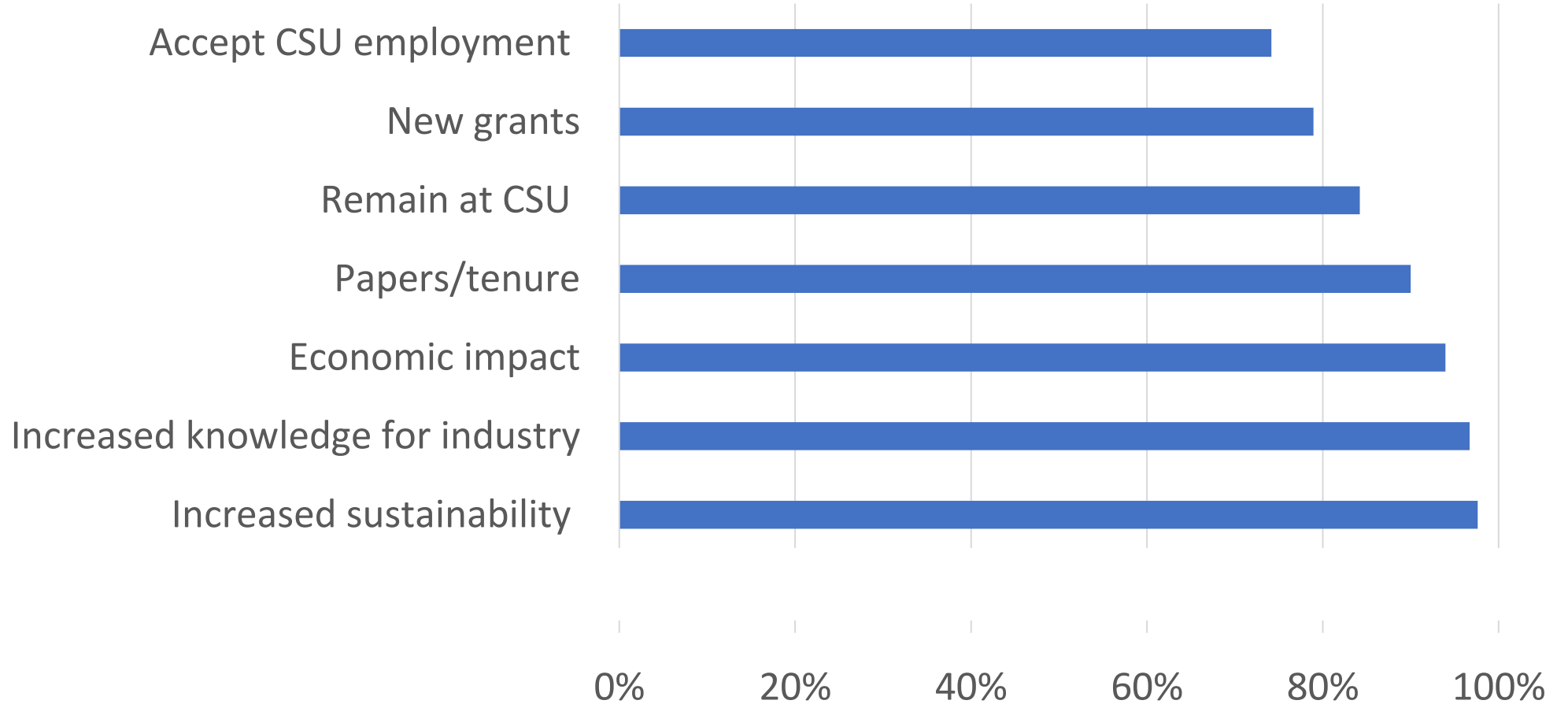
Agree/strongly agree



Faculty Impacts:

Attracting and retaining faculty

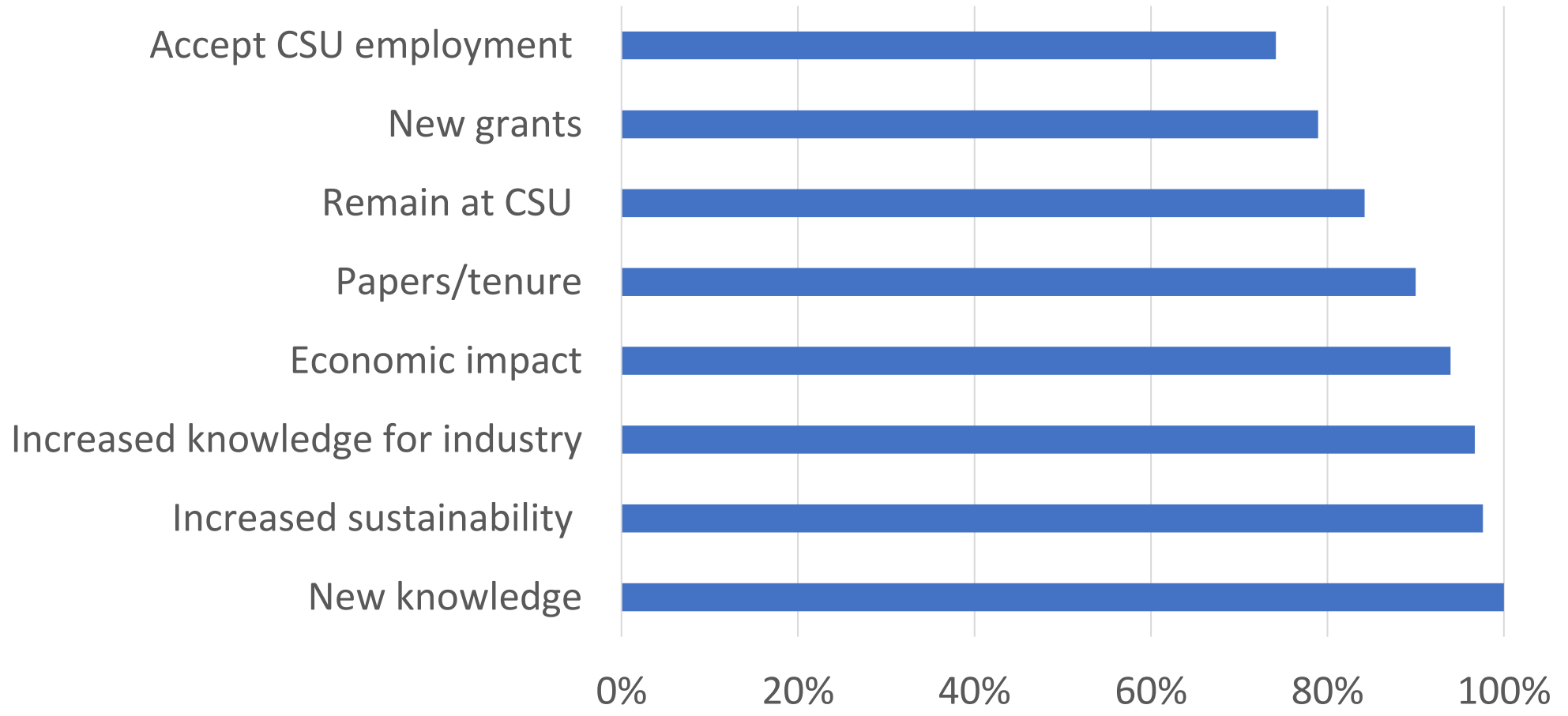
Agree/strongly agree



Faculty Impacts:

Attracting and retaining faculty

Agree/strongly agree



Industry Impacts:

Solutions to real-world problems

Goals of the ARI program:

- *Train students for California agriculture, natural resources and food industries*
- *Advance technologies used on farms, forests, and food systems*
- *Provide actionable information from every project*
- *ARI Faculty and industry need to communicate*
- *Fund and conduct applied research that industry needs*

AGRICULTURAL
RESEARCH INSTITUTE

Thank you

Dr. David Still
Executive Director

ari.calstate.edu
Email: dwstill@cpp.edu
909-869-2138

