



Bringing UC information and practices to local communities to improve their lives and livelihoods

UNIVERSITY OF CALIFORNIA
Agriculture and Natural Resources

UC ANR Delivers California's Land Grant Mission



- Land Grant Universities established by Congress in 1862
- The University of California created in 1868
- Congress authorizes Agricultural Experiment Stations (AES) at Land Grants in 1887
- Cooperative Extension established by Congress in 1914

We bring UC to Californians by serving communities in all 58 counties.

UC ANR research & education programs support:

- Sustainable, safe, and nutritious food production and delivery
- Economic success in a global economy
- A sustainable, healthy, and productive environment
- Science literacy and youth development



UC Cooperative Extension

- 150 Advisors conduct research in local communities
- 300+ Community Educators delivering programs
- 120 campus/county-based Specialists

Research and Extension Facilities

- Nine Research and Extension Centers and Elkus Ranch Environmental Education Center: 12,500+ acres
- 235 research projects

Agricultural Experiment Station

- 560 researchers on 5 campuses
- 800+ research projects in partnership with land-grant partner USDA NIFA (2022)

13 Statewide Programs and Institutes

- 4-H Youth Development
- Agricultural Issues Center
- CalFresh Healthy Living, UC
- California Institute for Water Resources
- Expanded Food and Nutrition Education
- Informatics and GIS
- Nutrition Policy Institute
- Sustainable Agriculture Research and Education
- UC Environmental Stewards (California Naturalists & Climate Stewards)
- UC Organic Agriculture Institute
- UC Statewide Integrated Pest Management
- UC Master Food Preserver
- UC Master Gardener

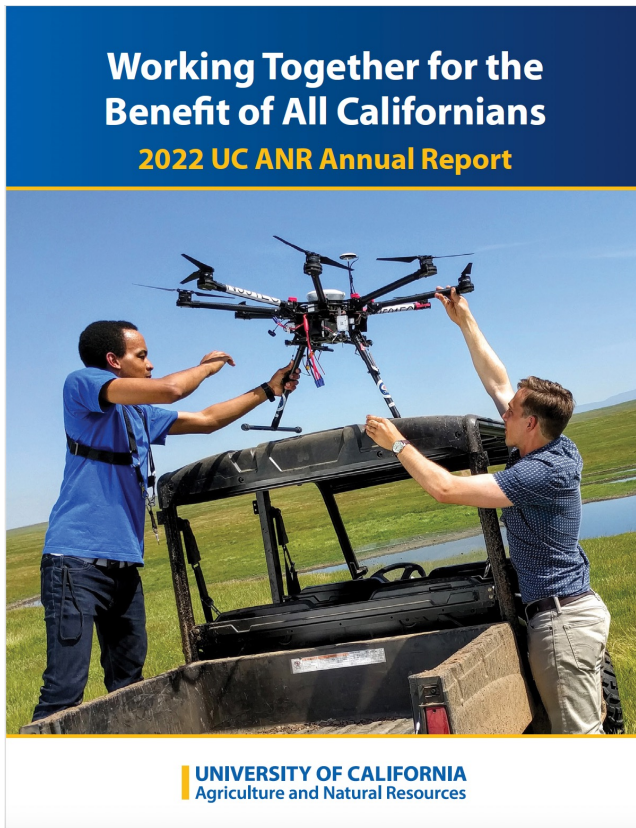


- UC Cooperative Extension
- Research and Extension Center
- UC Ag Experiment Station campuses

**Over 19,000 volunteers contribute 1.2M hours
in donated public service**

UC ANR Snapshot: 2022 Program Highlights

https://ucanr.edu/2022_Annual_Report



10 novel ideas led to patents issued



19,300 trained volunteers delivered 1.2 million hours of public service



\$33.48 estimated monthly food cost savings for 1,656 EFNEP families



1,210 policy engagement activities



467,950 adult and youth direct contacts/ educational exchanges

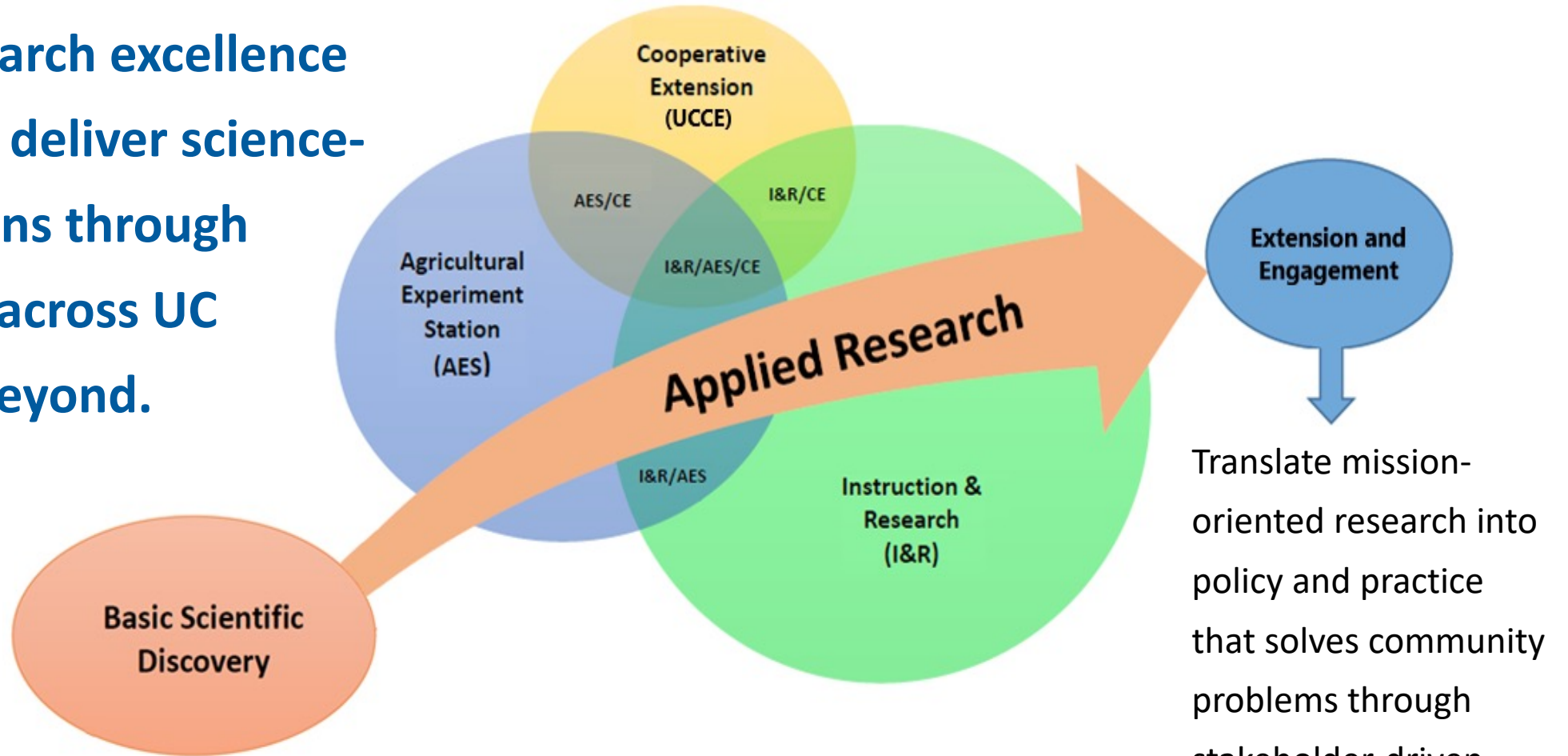


25,950 workshops, field days, courses & program meetings



3,020 publications and new educational materials produced

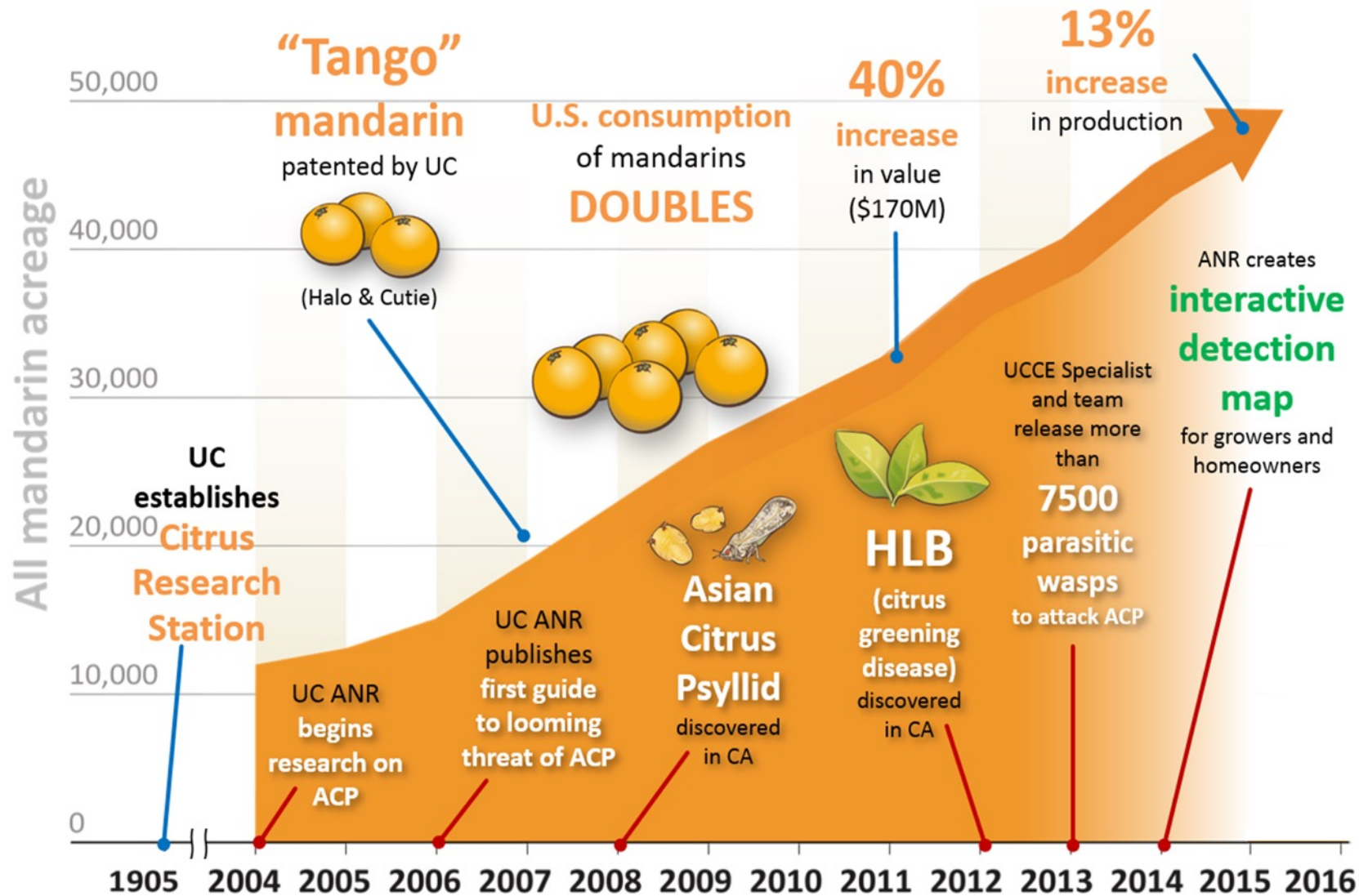
Enhance research excellence and ability to deliver science-based solutions through partnerships across UC system and beyond.



Three Academic Mission Areas Working Together

- Leverages the Mission-Oriented Research Continuum
- Transdisciplinary Solutions to Complex Challenges

Example of Research and Extension: Fighting Huanglongbing



2018-2020

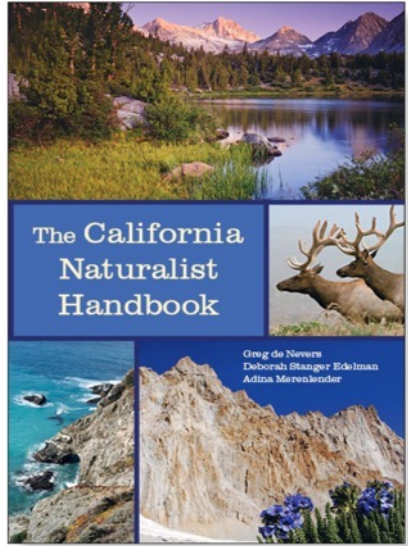
950% increased use of citrus materials tested by UC Citrus Clonal Protection Program

Developed antibody-based diagnosis using pathogen effectors as markers

Volunteers monitored IPM in 224 citrus orchards to reduce pest populations

Advanced usage of Citrus Under Protective Screens (CUPS) to minimize use of fertilizer, water & pesticides

Example of Programs: Youth Development & Community Science



Engaging a diverse community to promote healthy communities, youth development and stewardship of California's natural resources through education and service.



Horticulture therapy program and Career Technical Education at Girls Rehabilitation Facility in San Diego



Supporting State Agency Missions through Partnerships

- ✓ Joint research projects and subject matter experts
- ✓ Training in pesticide safety, vegetation management, fire suppression, irrigation and more
- ✓ Developing educational materials and programs
- ✓ Mapping future fire probability under climate change scenarios to address public safety
- ✓ Promoting use of agricultural lands for groundwater recharge and drought management
- ✓ Providing evidence-based programs and teaching for SNAP-Ed and Women, Infants and Children (WIC)



CALIFORNIA DEPARTMENT OF
FOOD AND AGRICULTURE



Public Values → Condition Changes → Measurable Impact

Assess California's current and future needs, along with strengths and opportunities of UC ANR's work, to better align our mission delivery to achieve maximum impact.

- ✓ Promoting economic prosperity in California
- ✓ Developing a qualified workforce for California
- ✓ Safeguard abundant & healthy food for all Californians
- ✓ Protecting California's natural resources
- ✓ Building climate-resilient communities & ecosystems
- ✓ Promoting healthy people & communities
- ✓ Developing an inclusive & equitable society



UC ANR Strategic Plan 2020 – 2025

Designed to enhance operations, improve delivery of the mission and ensure the Strategic Vision is realized

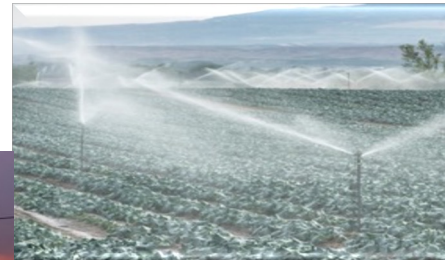


[View strategic plan](#)

**UC ANR Strategic
Vision 2040 is in
development**

UC ANR Research & Extension Needed More than Ever

- New Technologies, Crops and Tools Required
- Food & Nutrition Systems are Fragile
- Climate Change Impacts
- Economic Disconnects
- Disaster Response



Need Solutions for:

- Worker & Community Well-being
- Industry Recovery, Resiliency & Compliance
- Market Competitiveness, Growth & Profitability



CALIFORNIA'S WORKING LANDSCAPE

<http://ucanr.edu/WorkingLandscapes>

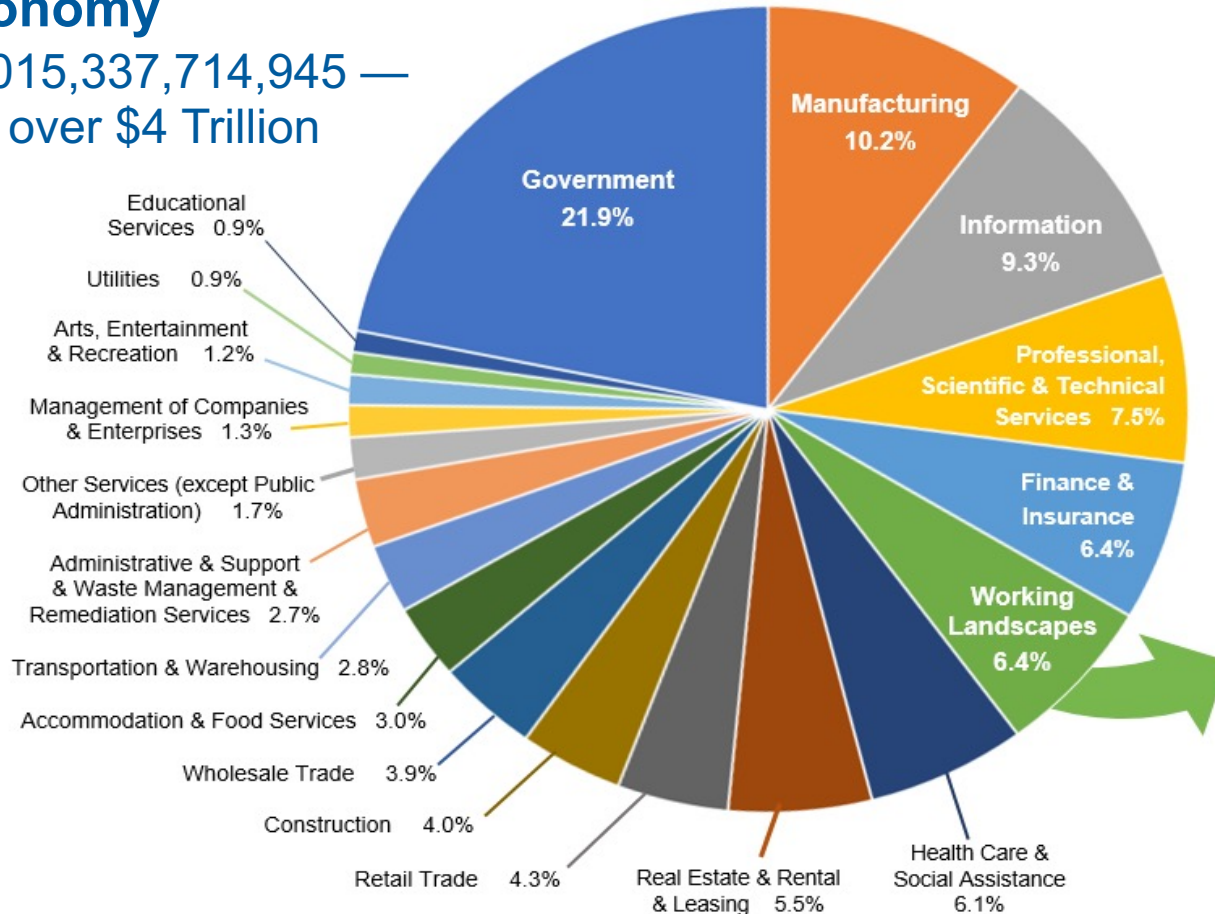
A Key Contributor to the State's Economic Vitality

NOVEMBER 2019



The 2018 California Economy

\$4,015,337,714,945 — just over \$4 Trillion



\$333 Billion Sales

Agriculture	\$263.5 B
Mining	\$32.2 B
Forestry	\$23.2 B
Outdoor Recreation	\$6.3 B
Renewable Energy	\$5.9 B
Fishing	\$1.7 B

1.5 Million Jobs

\$85 Billion Earnings

SOURCE: Report by California Community Colleges Centers of Excellence using 2018 data from the North American Industry Classification System (NAICS)



UNIVERSITY OF CALIFORNIA
Agriculture and Natural Resources

UC ANR Growing and Thriving in our Second Century

- ✓ Develop new partners, non-traditional resources, improved visibility
- ✓ Reach more Californians – expand number and diversity of audiences
- ✓ Ensure delivery & services are relevant
- ✓ Exploit new technology and methods; retool, recapitalize, reinvest in facilities and infrastructure
- ✓ Deliver our mission – be a catalyst for positive change

