



THE VINE

THE VERDE INNOVATION NETWORK
FOR ENTREPRENEURSHIP

UNIVERSITY OF CALIFORNIA
Agriculture and Natural Resources



UCANR Statewide Network



Connecting California to their University for over 100 years

Academics on UC campuses

Local advisors in 50+ California county offices

Highly trusted professionals in their communities

9 research & field innovation hubs statewide

Statewide programs and institutes

- Water, Nutrition, Agronomy, Technology, Pests
- Sustainability, Food Systems, Economics, Youth, Naturalist



Background

- For over 100 years, UC ANR has led innovation in Ag and Natural Resources in California turning science into solutions.
- Under President Napolitano, the UC is expanding the role of innovation by promoting entrepreneurship
- Glenda Humiston joined as VP of UC ANR and charged ANR to serve as a catalytic leader for innovation and entrepreneurship in agriculture and natural resources.
- Gabe Youtsey appointed as Chief Innovation Officer to drive this strategy





novation goals for California and the World

Enhance economic prosperity for all

Feed a rising population abundant, nutritious food

Sustain our precious environment and natural resources



lyze a statewide innovation & entrepreneurship network

ubation, Acceleration, and Funding partnerships that align academia, industry, and
vernment



ategic Partnerships will be the foundation of this strategy. No “wheel re-creation



ld, Lab, Kitchen, Maker, Office and other innovation spaces are a crucial
t of helping entrepreneurs creating new agriculture and natural resources ventures,
pecially in rural communities.



the pipeline of innovators

Camps, Competitions and Challenges



Events, Engagement, and Communication



Encourage UC science and innovation activity

UC's Statewide Network & Research-Based Approach are the cornerstones of UC ANR's more than 100-year legacy, and will be a tremendous asset and key differentiator in ANR's innovation strategy. By leveraging the power of trust relationships innovators get access to farmers, government officials, and a wealth of published material from specialists, advisors, and faculty experts on almost any scientific topic.

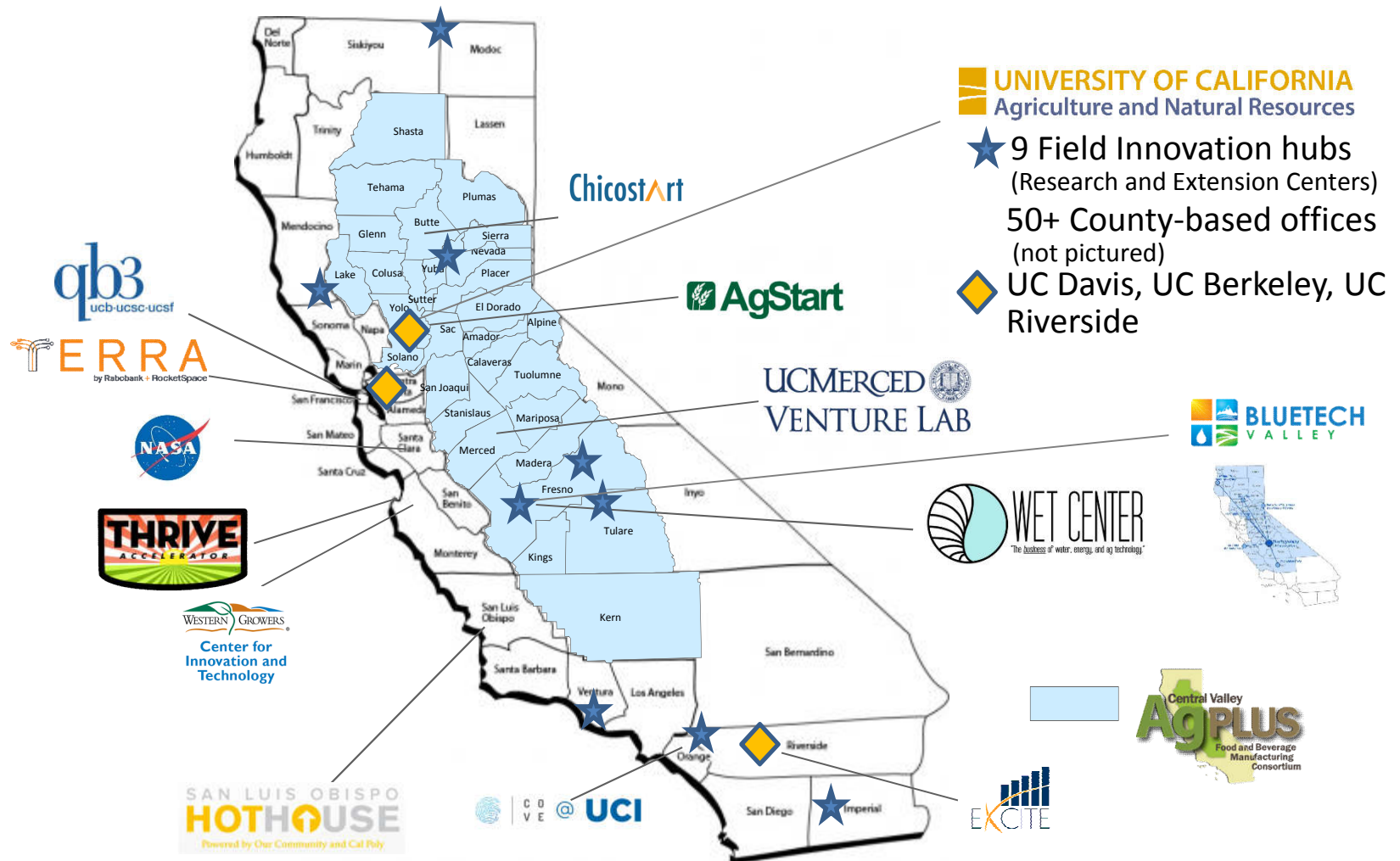
Workshops, Consultation, Resources form the backbone of support needed to help entrepreneurs succeed. A variety of expertise, training, tools and other support to get innovators to launch, in whichever direction they go.





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critical challenges

- . Less farms and less labor
- . Water rights, availability, contamination and regulation
- . Soil health
- . Pests and pesticides
- . Climate



the AgTech toolbox: precision, precision, precision
IoT

Big Data, analytics, machine learning, AI

CRISPR/CAS9 – Genomics

Production and post-harvest robotics

Plant biotechnology

Rural broadband

Automation and decision support



Problems with AgTech

Lots of point solutions, no integration

Heavy marketing, dubious science

Startups are coming fast and furious at everyone

Silicon and food valleys need one another, but cultures are very different

Need patient capital model, VC isn't enough

Accelerators aren't build for Ag

Need a world-class innovation ecosystem to pull it all together.



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Example partners



New
projects and
companies

Acceleration &
Co-innovation

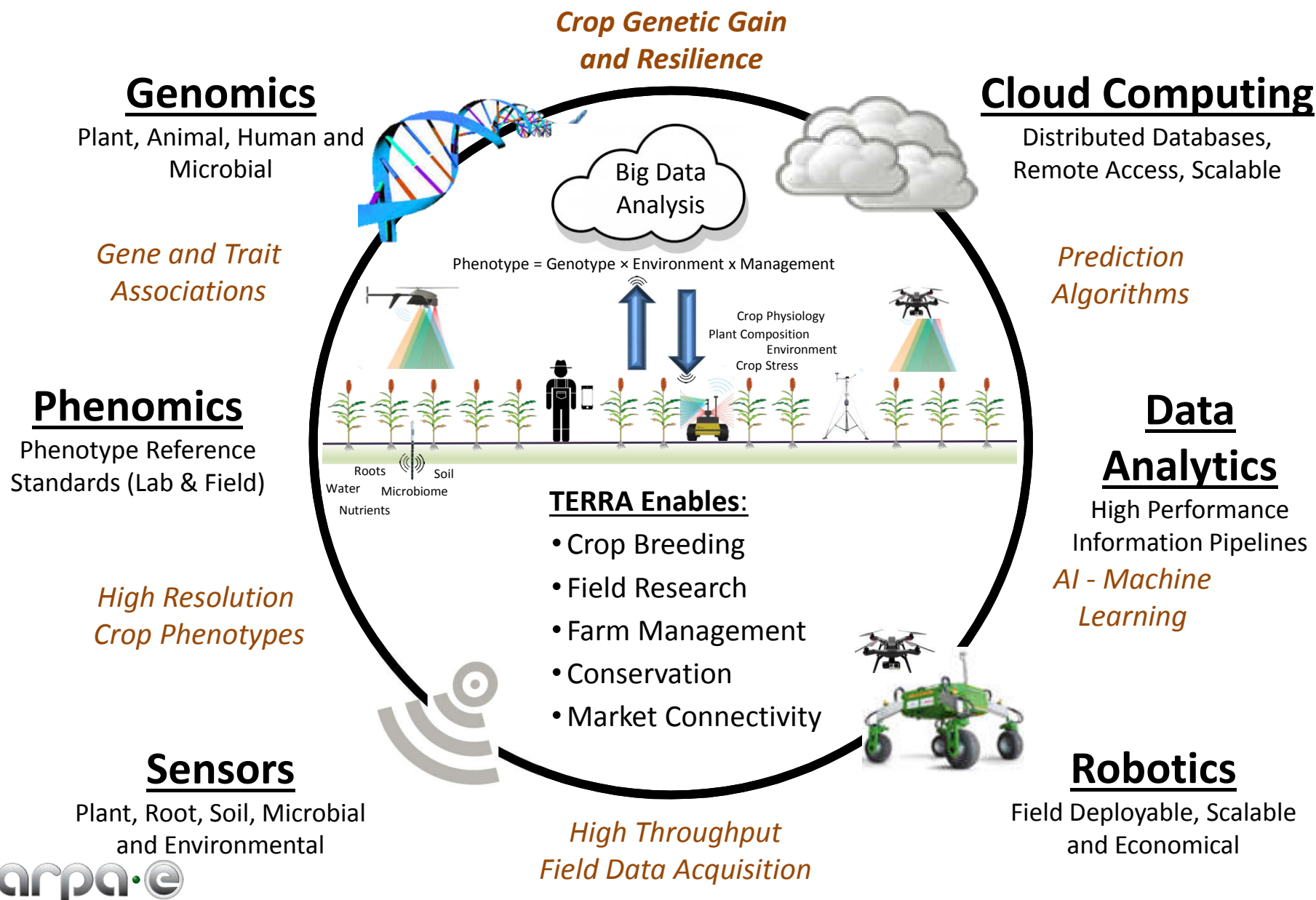
Fields, labs, incubators, maker spaces

Outreach, communication, and events



Vision: Precision Breeding “System”

INTEGRATION OF BIOLOGY × ENGINEERING × COMPUTER SCIENCE



ting Summary

Uncommon collaboration is key to transformative innovation

Bridging Silicon Valley & CA's "food valleys" is key to innovation in food and agriculture

A statewide ecosystem that amplifies and connects innovation hubs is needed

The VINE is California's new innovation network for food and agriculture



Get Involved!

Mentor
Startup
Corporate innovator
Educator
Researcher and extension
Non-profit



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TheVINE.io is coming soon
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[@gabe.youtsey](https://twitter.com/gabe.youtsey)