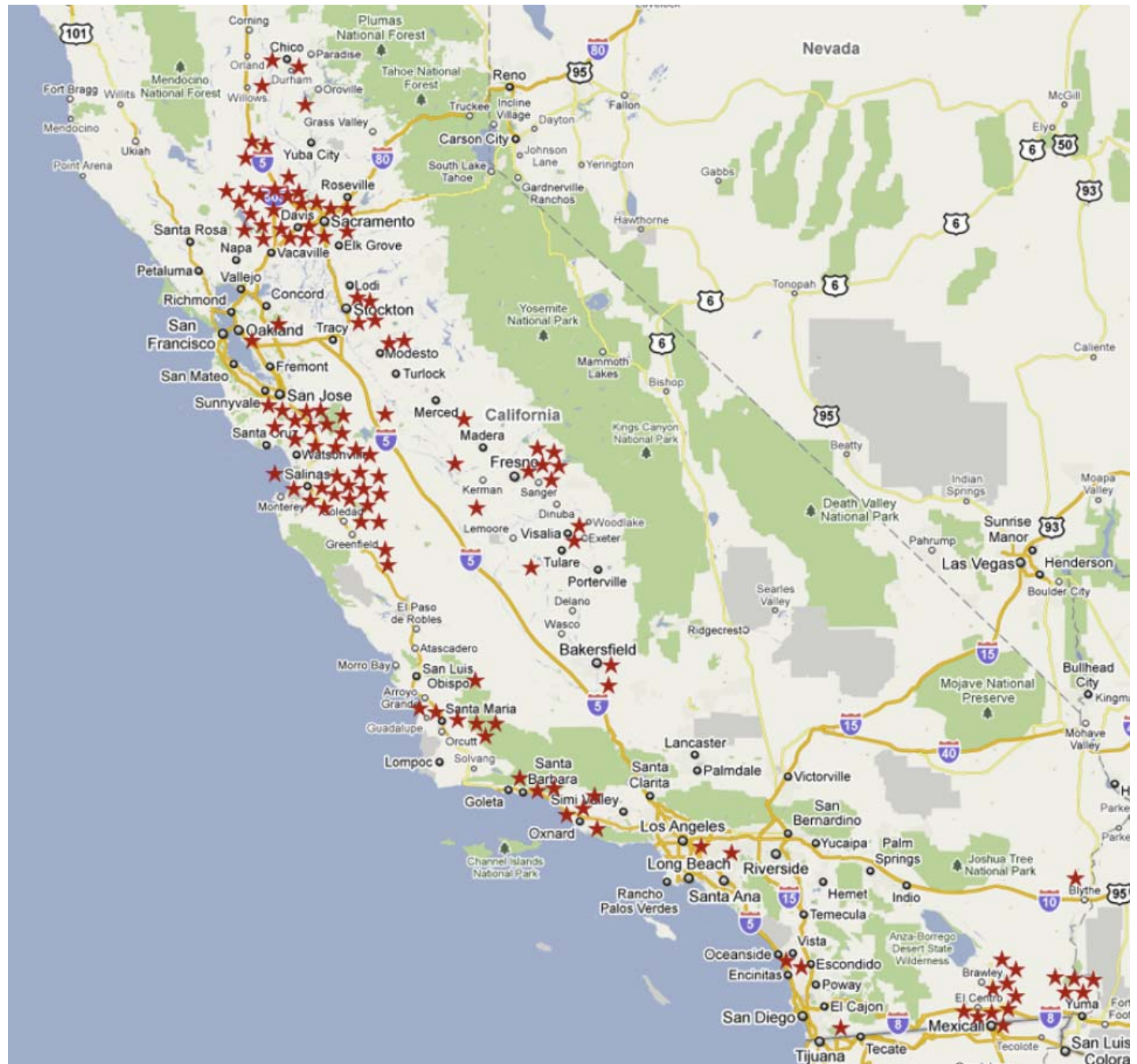


Seed Central

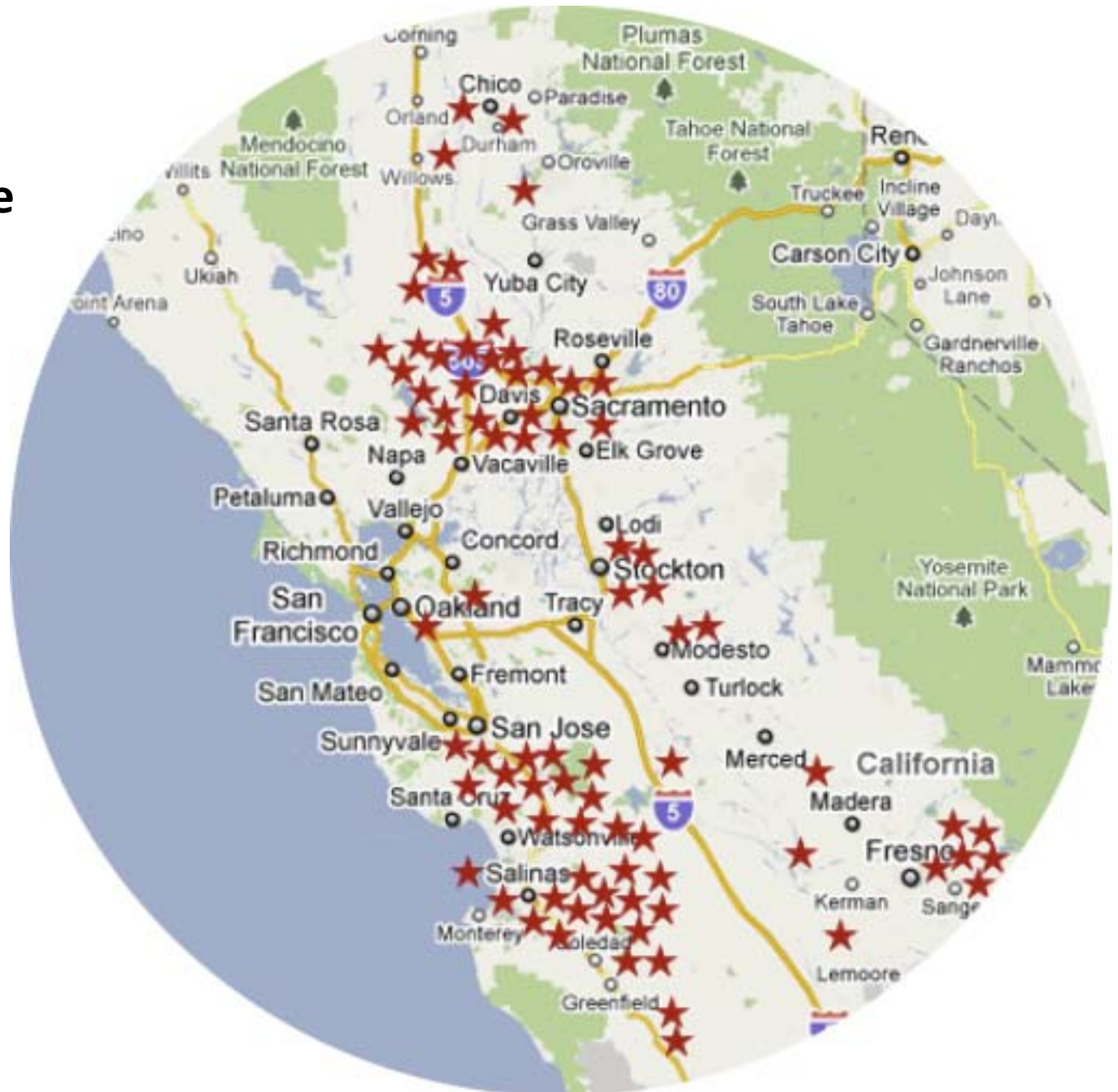
An initiative of the Seed Biotechnology Center and SeedQuest

**The seed industry cluster
surrounding UC Davis**

Members of the California Seed Association



CSA members within 3 hours driving distance from UC Davis



Seed Central

An initiative of the Seed Biotechnology Center and SeedQuest



Energizing

**the seed industry cluster
surrounding UC Davis**

CONTEXT

Industry clusters in the field of seed and plant sciences

- Research Triangle Park, North Carolina
- North Carolina Biotechnology Center & Alexandria Ag-Tech Center
- the St. Louis, Missouri ag tech hub
- Iowa Seed University and the Seed Science Center
- Seed Valley, The Netherlands
- Norwich, United Kingdom
- Cluster de la Semilla, Argentina
- High Fibre Grains Cluster, Australia
- Phytopole, France
- Végépolys, France
- biocat, the BioRegion of Catalonia, Spain
- Kansas Innovation Center for Advanced Plant Design
- Purdue Research Park, Indiana
- FlandersBio, Belgium
- Céréales Vallée, France
- BioValley (France/Germany/Switzerland)
- etc.

Innovation Hub Initiative



“THE MOTHERSHIP”



Leading in plant & agricultural sciences

ISI Essential Science Indicators: Most Cited Institutions

Plant & Animal Sciences:
(*International*)

- 1) USDA
- 2) University of California, Davis**
- 3) INRA
- 4) Max Planck Society
- 5) Cornell University

Agricultural & Food Sciences:
(*International*)

- 1) USDA
- 2) INRA
- 3) CSIC
- 4) Wageningen University
- 5) University of California, Davis**

Plant & Animal Sciences:

- 1) University of California, Davis**
- 2) Cornell University
- 3) University of Wisconsin
- 4) University of Florida
- 5) University of Georgia

Agriculture/Agronomy:

- 1) University of California, Davis**
- 2) University of Nebraska
- 3) Michigan State University
- 4) University of Illinois
- 5) Colorado State University

“THE FLEET”

- 80 seed industry members within 100 miles
- 8 of the 10 largest seed companies



A HUB OF SEED EXPERTISE

- seed expertise for more than 100 years
- a highly skilled workforce

and

- ideal climatic conditions for seed research and production
- prime agricultural land & abundant water

but

- high cost of living 

EXPECTATIONS

INDUSTRY

Strong dialog with UC Davis

Facilitation of
research collaborations
with university

Facilitation of
IP and technology transfer

Attraction of more
innovative companies, talented
individuals, and students

UC Davis

Strong dialog with industry

More
sponsored research

More **commercialization** of
university IP and inventions

More **students**

SEED CENTRAL SERVICES

NETWORKING

Connecting university faculty, researchers and students
with members of the seed industry

FACILITATING

Fostering and facilitating research collaborations
and the transfer of IP and technologies

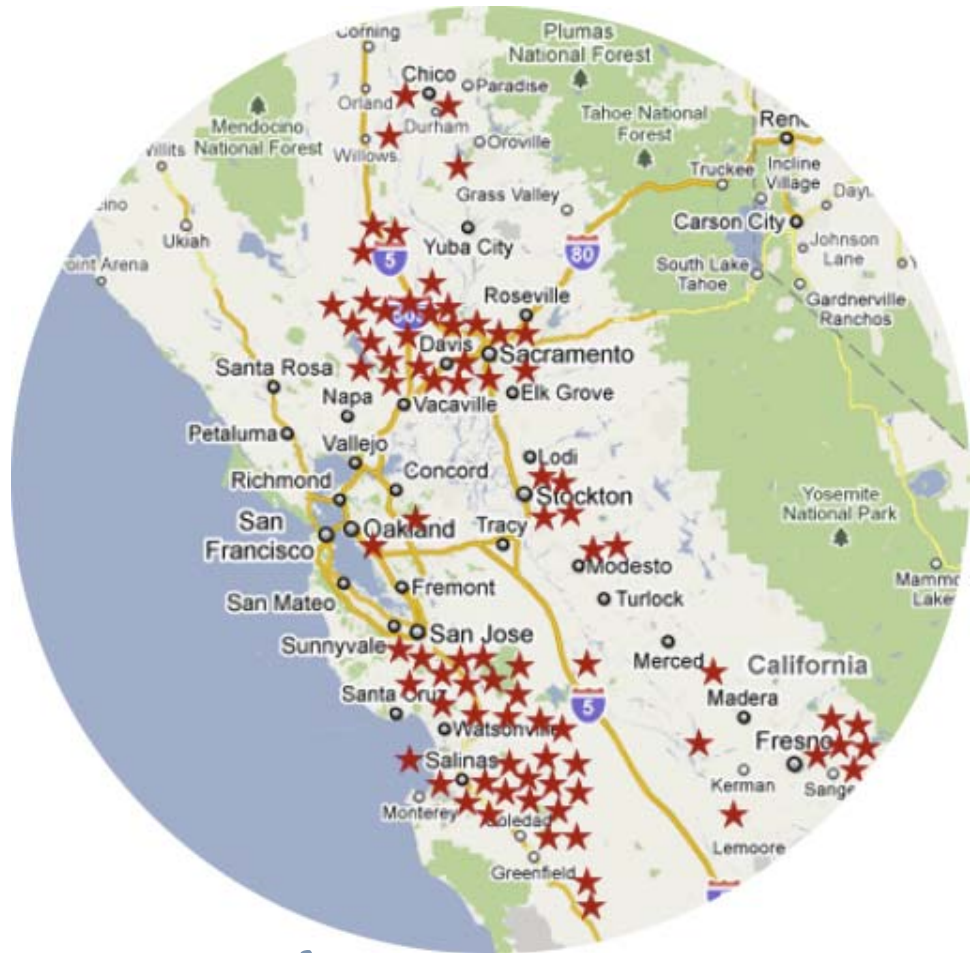
ATTRACTING

Making the region “a destination” that attracts
innovative companies, talented individuals and students



Silicon

Valley magic



A NEW “STATE OF MIND”

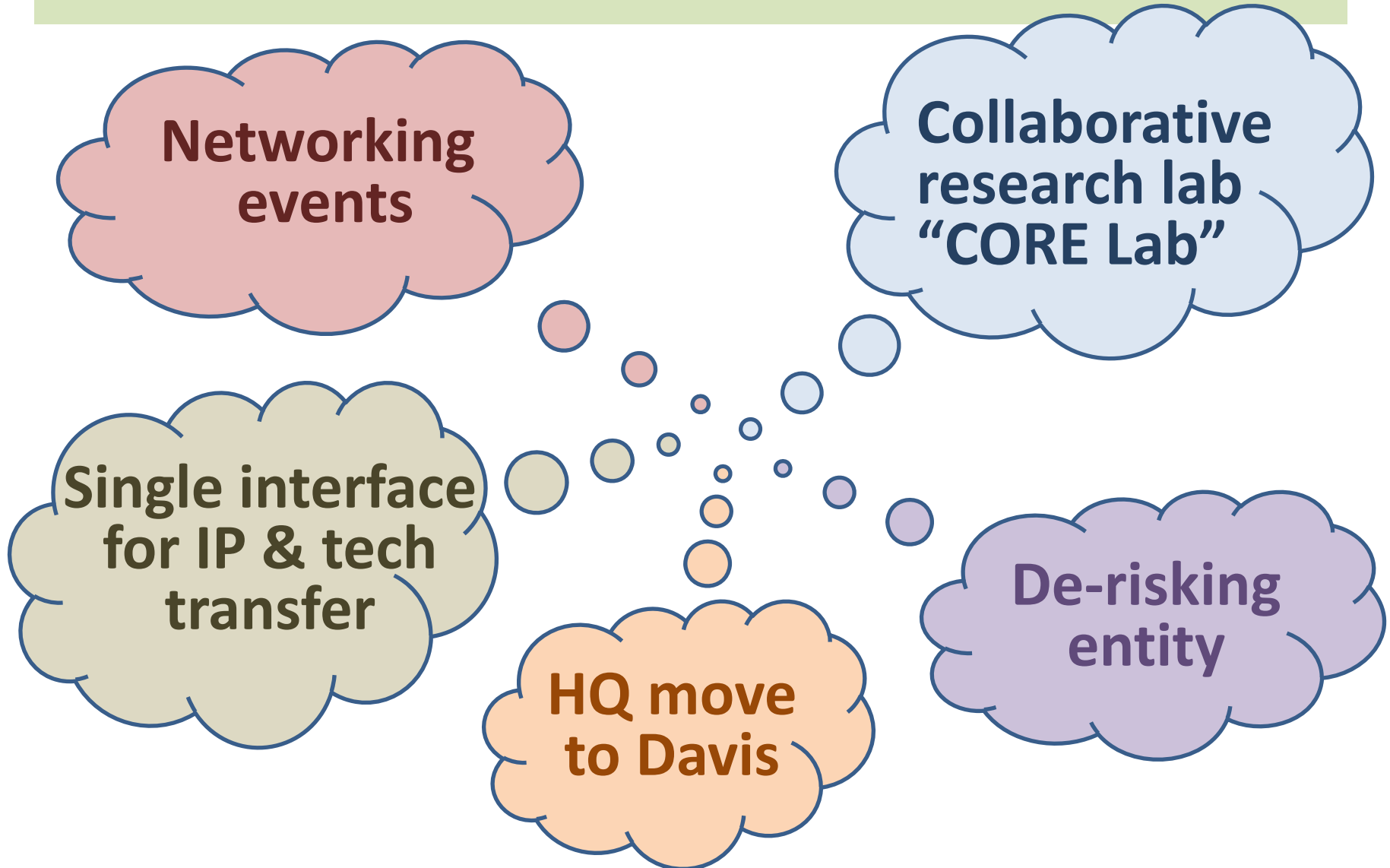
**Networking
events**

**Collaborative
research lab
“CORE Lab”**

**Single interface
for IP & tech
transfer**

**HQ move
to Davis**

**De-risking
entity**



Affiliated

service providers

Seed enhancement, seed labs,
ag biotech companies, genomics services, etc.

- Provide core lab funding
- Fund scientists in core lab
- Fund research in core lab
- Place own scientist in core lab

CORE LAB

Collaborative Research Lab

UC DAVIS

UNIVERSITY OF CALIFORNIA

Affiliated seed companies

- Provide core lab funding
- Fund scientists in core lab
- Fund research in core lab
- Place own scientist in core lab

Primary partners: others

Ag biotech, food companies,
animal sciences co., etc.

- Conduct research in own lab
- Fund core lab
- Fund scientists in core lab
- Fund research in core lab
- Place own scientist in core lab
- Internships

Primary partners: seed companies

- Conduct research in own lab
- Fund core lab
- Fund scientists in core lab
- Fund research in core lab
- Place own scientist in core lab
- Internships

Shared facilities

Equipment, conference rooms,
class rooms, lecture hall, break rooms,
space for networking events, etc.

Interaction between industry partners and core lab

Private
lab space

Private
lab space

CORE LAB

UC Davis researchers, students

A collaborative cell biology research lab covering a
range of cell biology activities, including tissue
culture, haploid production, regeneration,
transformation, candidate gene testing, etc., that will
contribute to translating genomic knowledge into
useful phenotypes.

Plant Transformation
Facility

Interaction between industry partners & with start-ups

Start-ups

THE MAGIC WORKS

"I really have to start going more often to the Seed Central region"

"We believe Seed Central is the right environment for our company to come to the US"

"We moved our research to Yolo county in 2009 because we thought the region would become a dynamic seed industry hub"



"Our company is based in South East Asia. We would like to become members of Seed Central"

"Our colleagues from headquarters are coming to California in January. They will time their trip to attend the Seed Central networking event"



Seed Central

An initiative of the Seed Biotechnology Center and SeedQuest

**Bringing science to market faster
to strengthen university and industry
in the region**