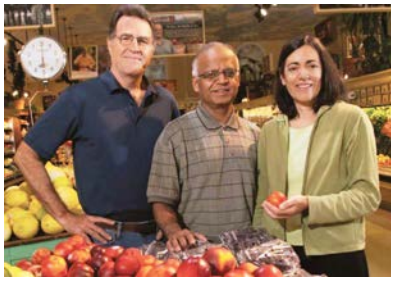



Our Students and Food:
College of Agricultural and Environmental Sciences

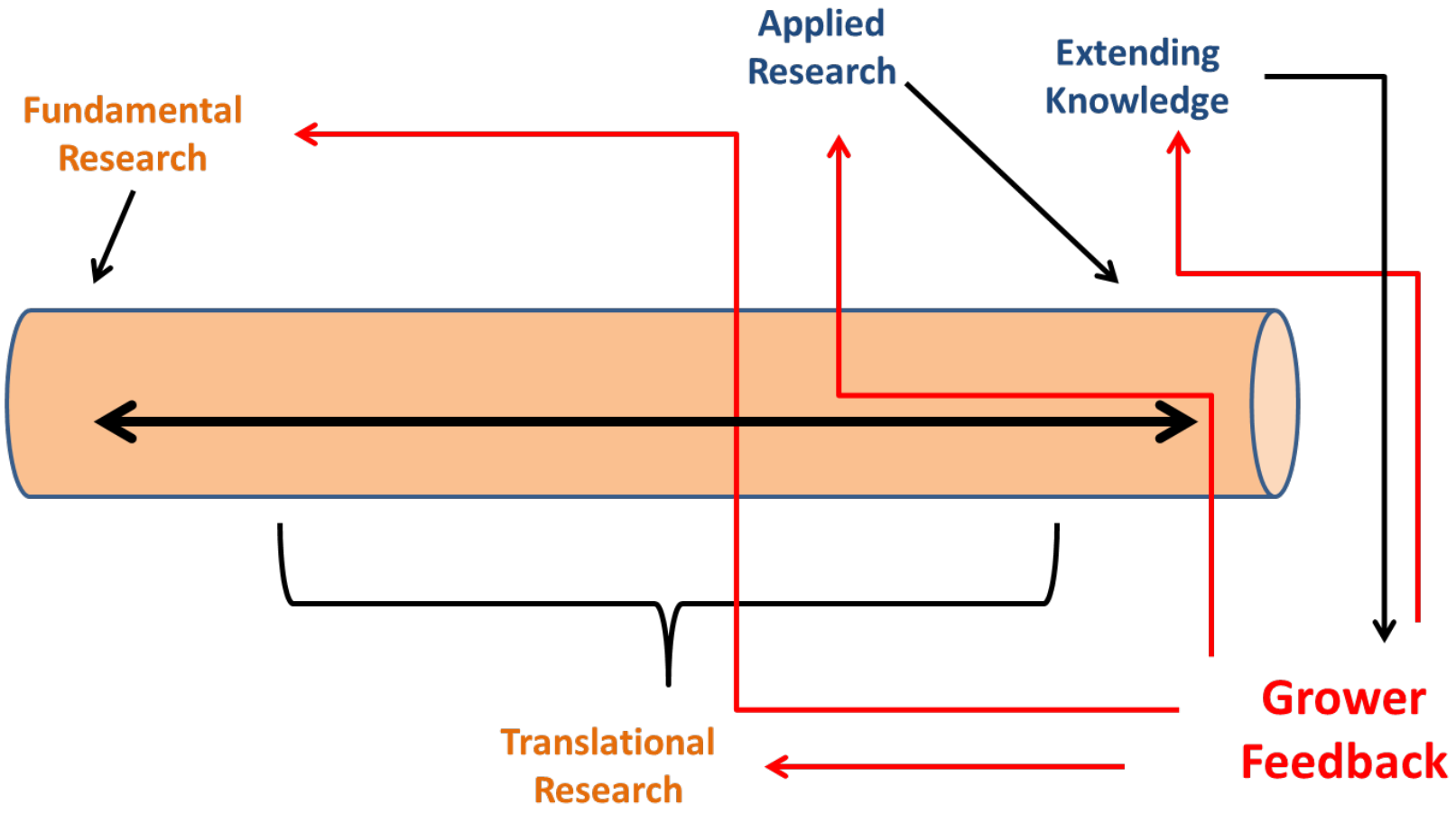
Ed Lewis, Associate Dean
Agricultural Sciences

Essential Elements - 5

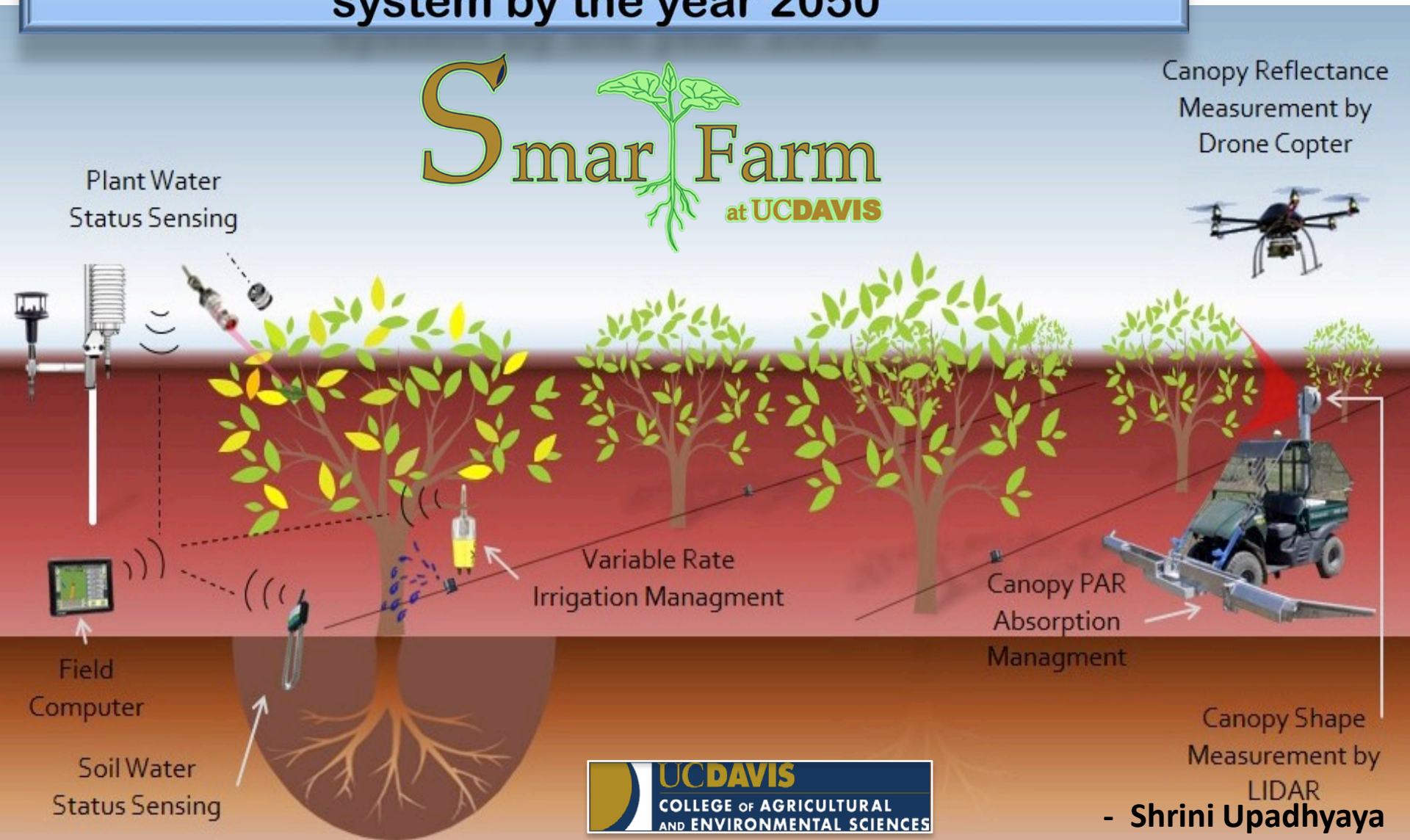
Challenges for UCD….and everybody else

- 400+ commodities, soil & water ecosystems, 38 million people
- Tensions at the agriculture / environment / human interface
- Controversial but appropriate research – climate change, water policy, GMOs, air quality, soil nitrates, poverty, etc.
- Infrastructure maintenance and renovation costs; increased high-tech laboratory needs for research

The Research Pipeline: A Continuum



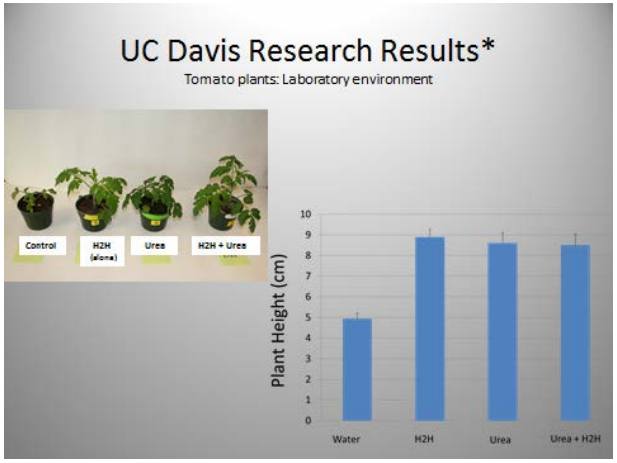
Smart farming methods and innovative farming technologies for environmental, economic and social sustainability of the food production system by the year 2050

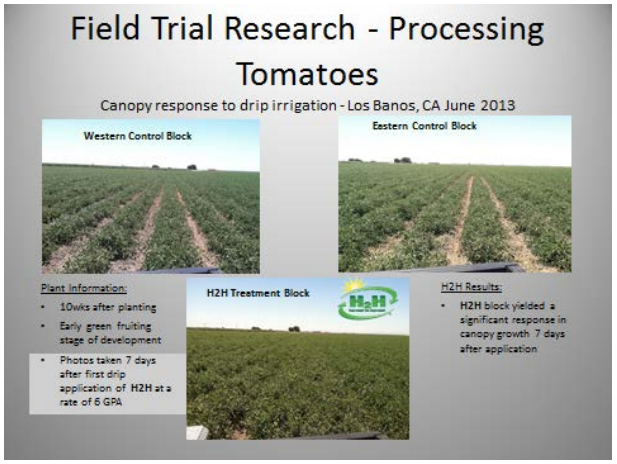


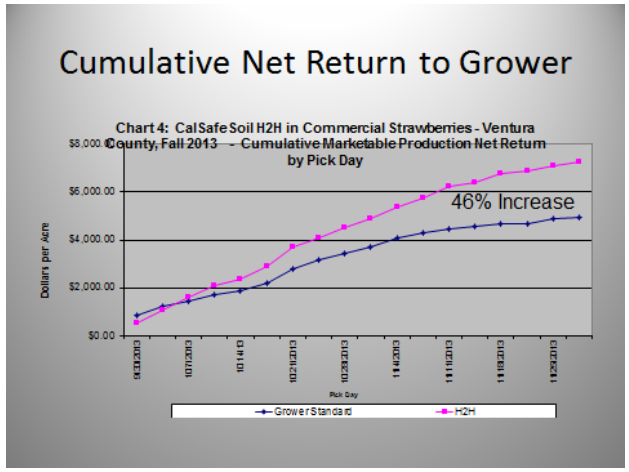
- **Shrini Upadhyaya**

Private/Public Partnerships

- **California Safe Soils**







Research and Students

- All CA&ES faculty have research programs
  - Laboratories
  - Field-based projects
  - Surveys
  - Community Development

- Most faculty have students in their programs
- All students are encouraged to participate