



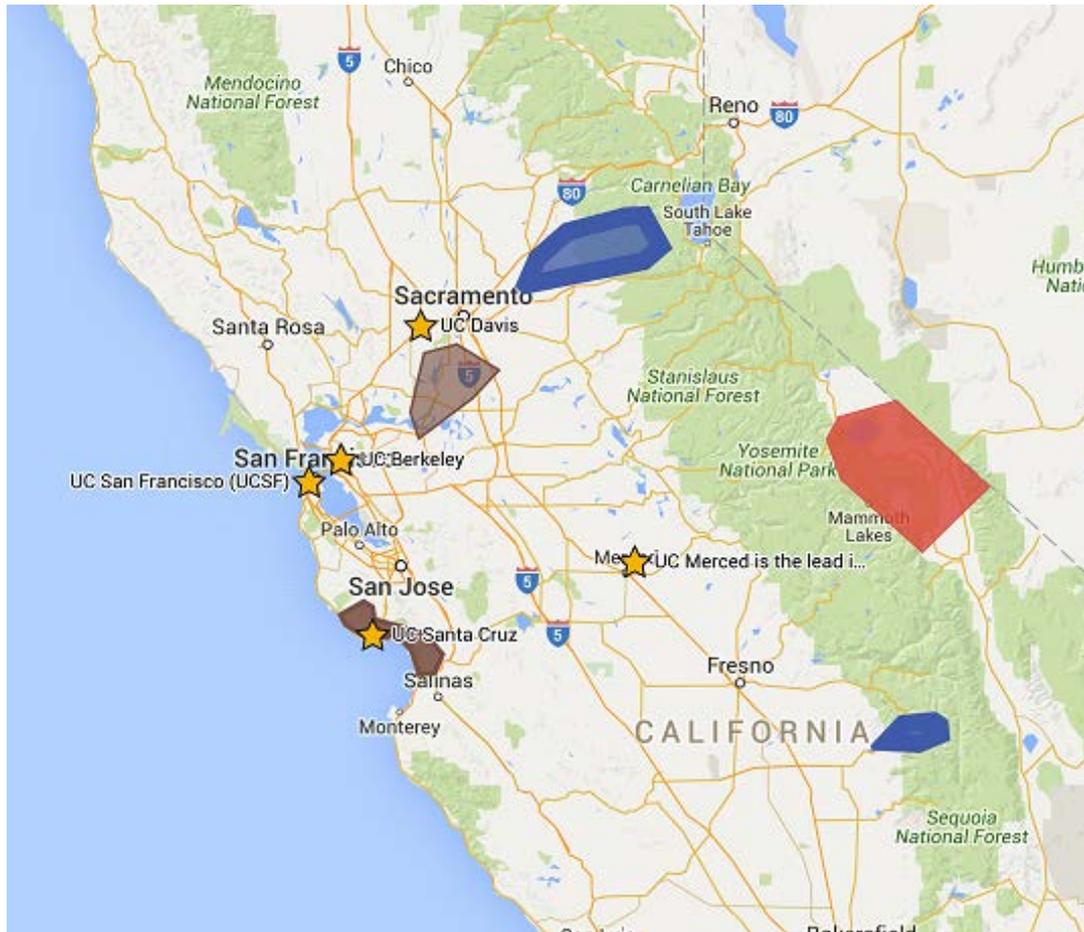
# UC Water Security and Sustainability Research Initiative

<http://ucwater.org>

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twitter: [@ucwater](https://twitter.com/ucwater)

# 4 Campuses, expanding to UC-wide

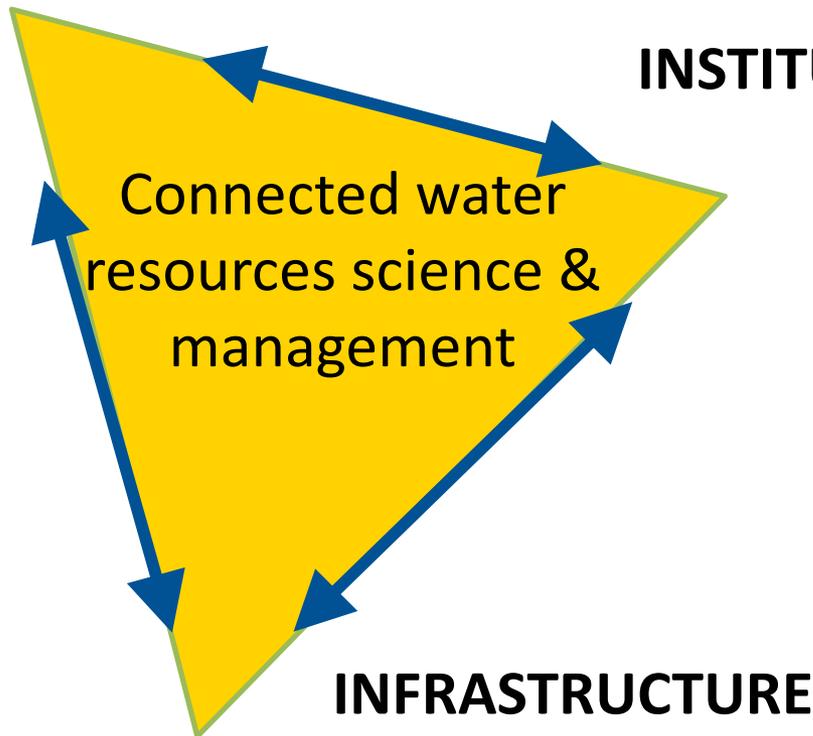


We are developing new knowledge & information to inform water-resources decision making. Our current study sites are shown in brown, red and blue.

# We apply three perspectives to every project.

**INFORMATION**

**INSTITUTIONS**

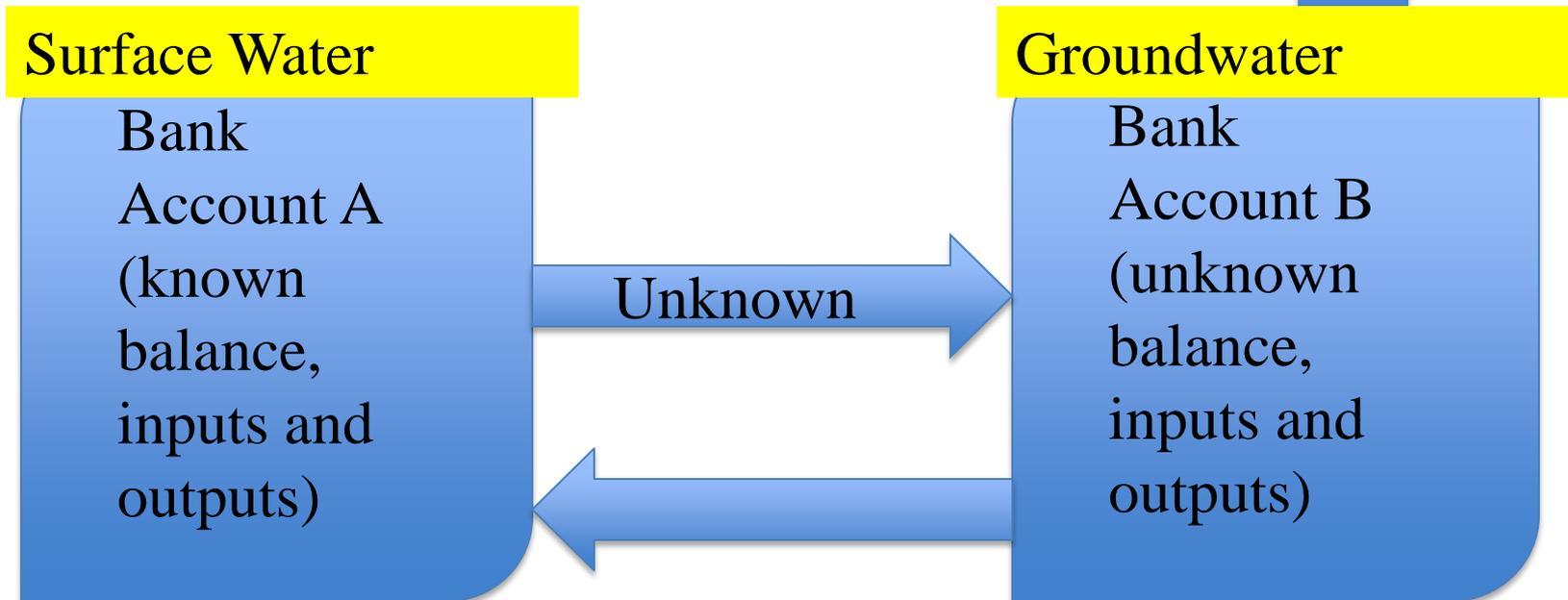


Current program foci:

- Headwater Management
- Groundwater Management
- Water-Energy Nexus
- Intelligent Water System

# Two Bank Accounts

When Account A is depleted,  
uncontrolled withdrawals from Account  
B occur





The headwaters, where virtually all of our water originates, are fundamental to understanding and managing water security.

Photo: Roger Bales

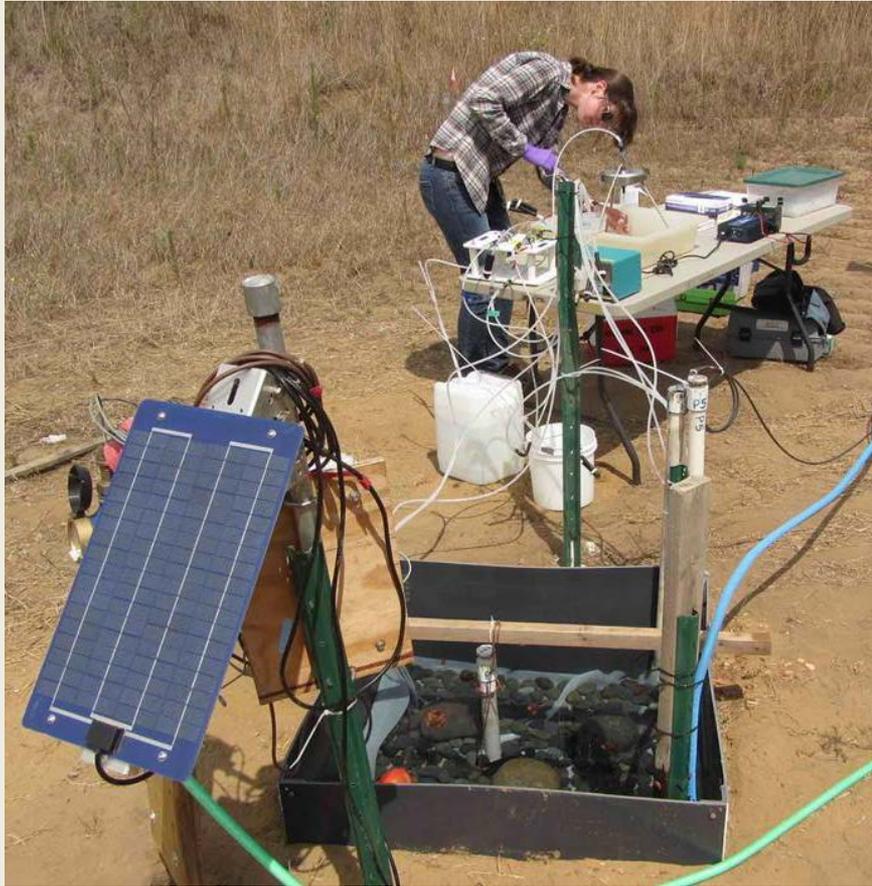


Photo: Andy Fisher

Groundwater monitoring and modeling go hand-in-hand.

Subsurface storage provides answers for both quantity and quality.

# Available Central Valley Storage Volume

- 10 to  $50 \times 10^6$  ac-ft (12.3 to  $61.7 \times 10^5$  ha-m)
- CA's 4 largest reservoirs =  $13 \times 10^6$  ac-ft ( $16 \times 10^5$  ha-m)  
(Shasta, Oroville, Trinity, New Melones)



Energy is guiding the way we see water. We are looking at how they can work together in the water-energy and now food nexus.

Photo: Wikimedia Commons



Photo: Paul Hames

A sustainable and intelligent water system requires strategic research, available data & watershed-scale vision.