



Quantifying Resource Management Strategy Benefits and Robustness

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*Update 2013
California Water Plan*



California Water Plan

State's Blueprint for Integrated Water Management & Sustainability



DECLINING ECOSYSTEMS



FLOODS



Managing an Uncertain Future

Risk, Uncertainty, and Sustainability

DROUGHT



ENERGY
CRISIS

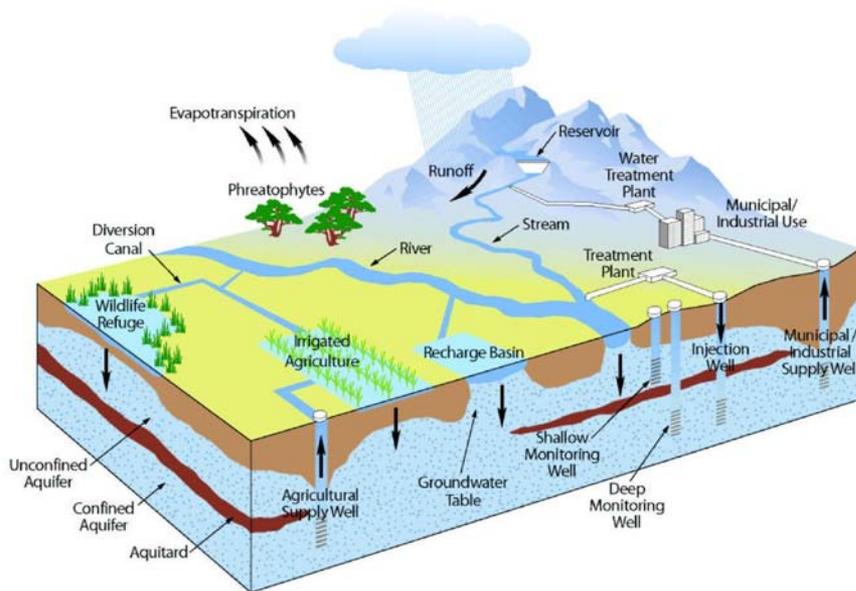


What We've Heard

- Evaluate how factors like climate, future dedication of water to the environment, land use decisions and population affect future water management
- Evaluate how resource management strategies perform under alternative plausible futures
- Quantify costs, benefits, tradeoffs, and vulnerabilities



Improvements to analytical tools allow for more comprehensive evaluation



Improvements to analytical tools allow for more comprehensive evaluation

- ◆ Testing comprehensive analysis in three regions in Central Valley
 - Phased approach
- ◆ Will quantify a subset of structural & strategy benefits
- ◆ Representation of regional groundwater and surface water systems
- ◆ Use monthly rainfall-runoff, water use, and water system operations data

Update 2013

California Water Plan



Areas Outside of Sacramento River, San Joaquin River and Tulare Lake Regions

- 💧 Apply simpler Hydrologic Region model developed for Update 2009
- 💧 Quantify regional water demand
 - 3-9 growth scenarios
 - 12-18 climate scenarios
- 💧 Ability to include some demand management strategies



Plan of Study Components



Next Steps

💧 Today

- Share preliminary results for currently planned management under future uncertainties

💧 Fall 2012 – SWAN Workshop

- Provide more details on results presented today

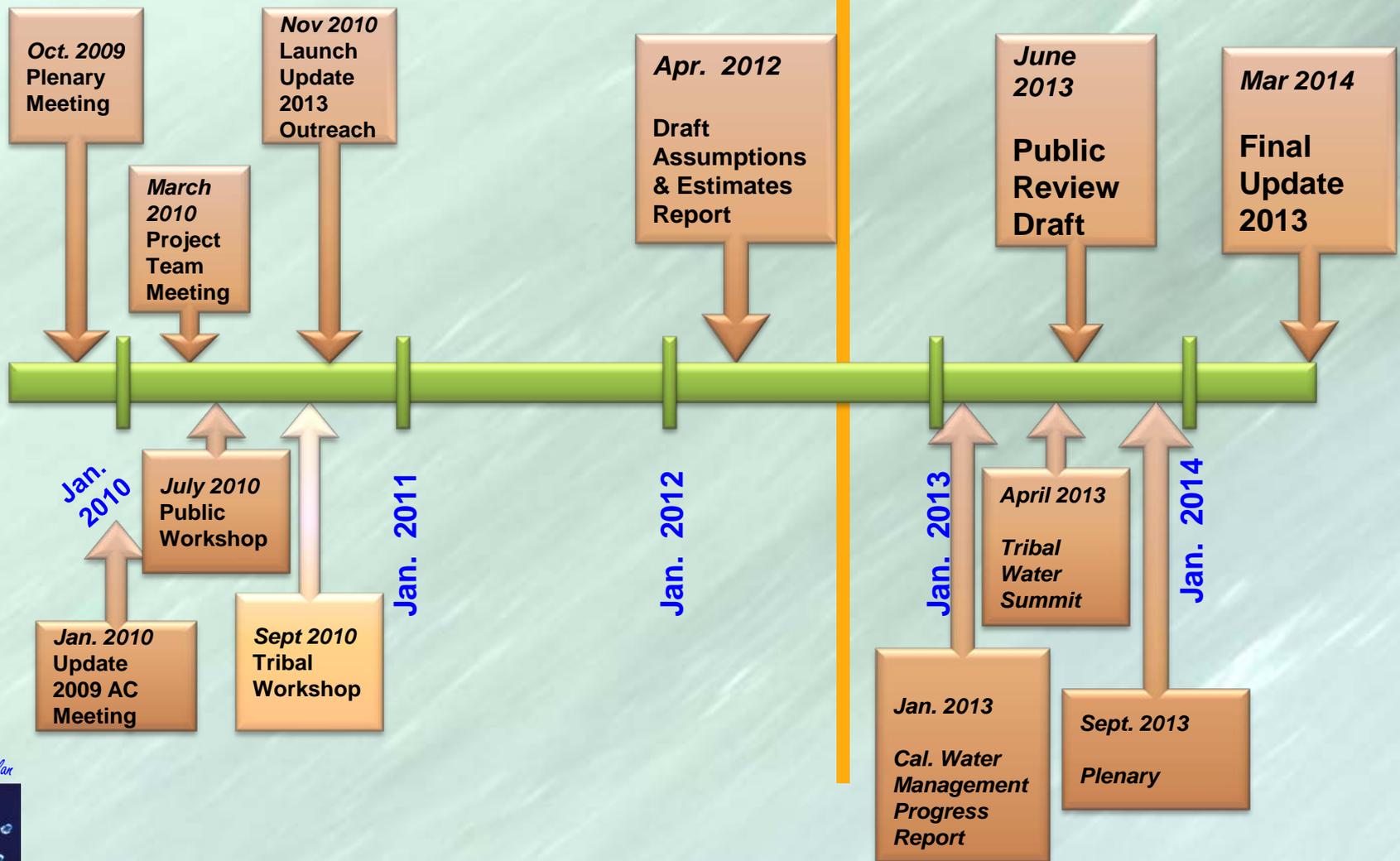
💧 Winter 2013

- Share results of statewide water demand under alternative growth and climate scenarios
- Share results showing performance of resource management strategies within Central Valley regions



Revised Update 2013 Scoping & Deliverables

We Are Here



Contact Information

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💧 SWAN

<http://www.waterplan.water.ca.gov/swan>