

**Governor's
Water Action Plan
&
CA Water Plan
Update 2013**

**Santa Ana River
Watershed Conference
October 14, 2014**

CALIFORNIA
WATER UPDATE 2013 **PLAN**
Investing in Innovation & Infrastructure

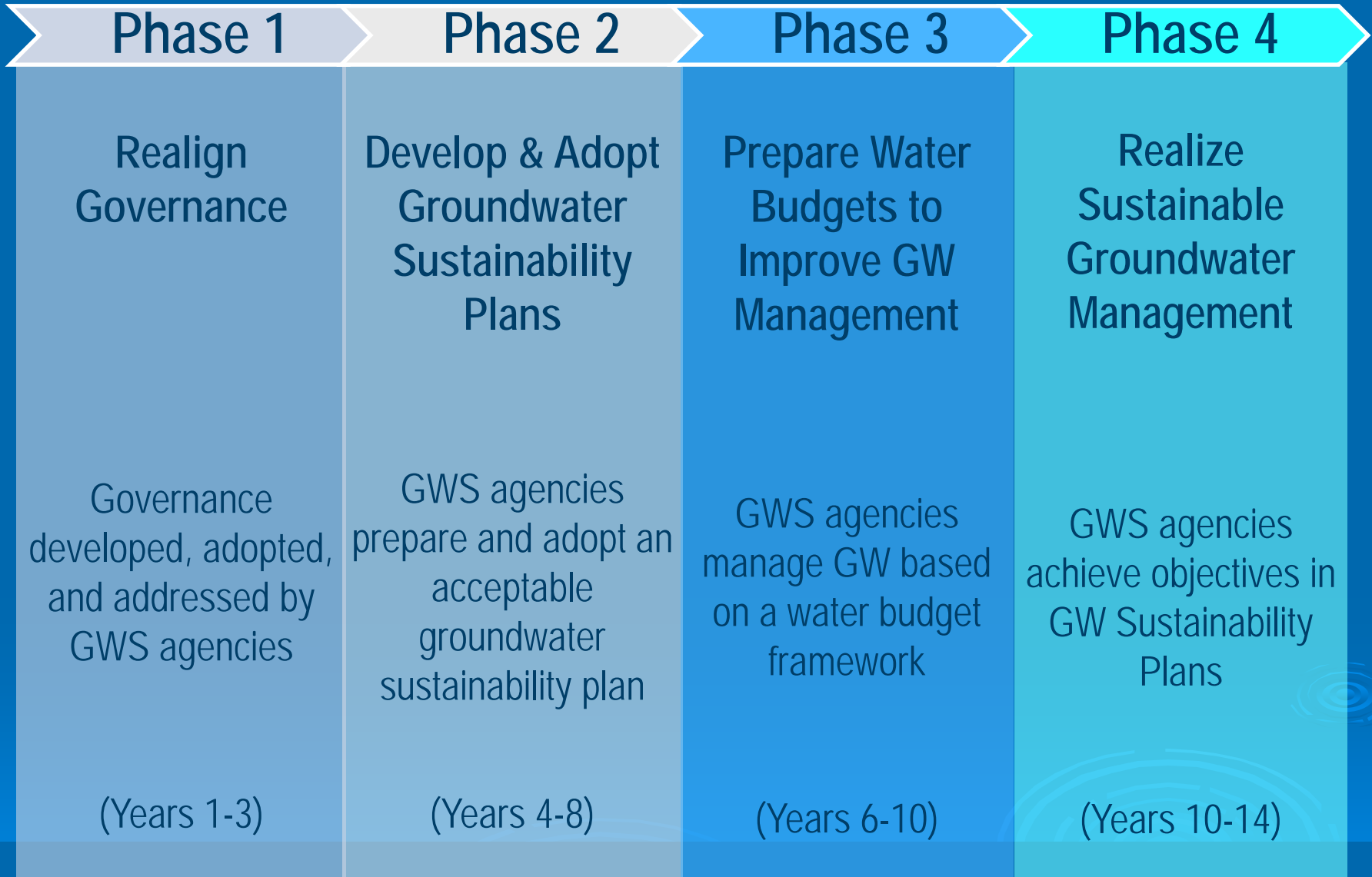
Highlights

State of California Actions

- EO to streamline water transfers (May 2013)
- PRD Governor's Water Action Plan & CA Water Plan Update 2013 (Oct 2013)
- State Drought Task Force Established (Dec 2013)
- Governor's Drought Proclamation & Water Action Plan (Jan 2014)
- Drought Emergency Funding (March)
- EO to redouble Drought Response (April)



Sustainable Groundwater Management*

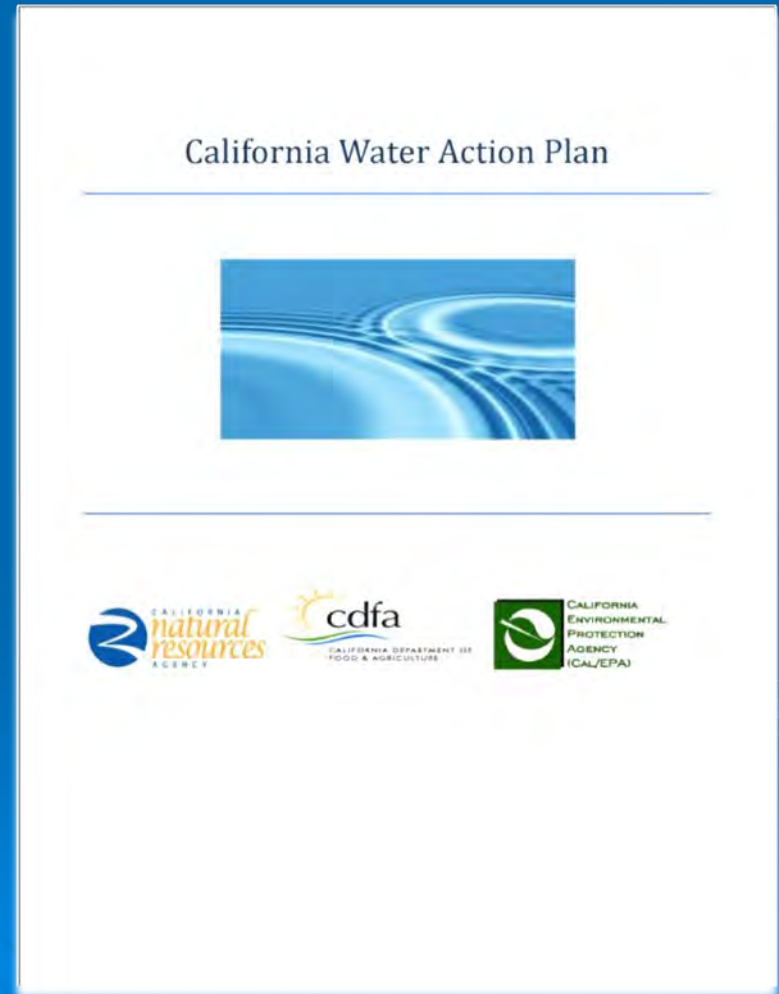


*From 2014 sustainable groundwater management legislation, including provisions for State “backstop” measures

Governor's Water Action Plan

A 5-Year Plan to Meet 3 Broad Goals

- **Reliability** --
more reliable water supplies for
our farms & communities
- **Restoration** –
restoring important
wildlife habitat & species
- **Resilience** --
more resilient, sustainably
managed water systems
& environment (supply, quality,
flood protection & ecosystems)



Governor's Water Action Plan

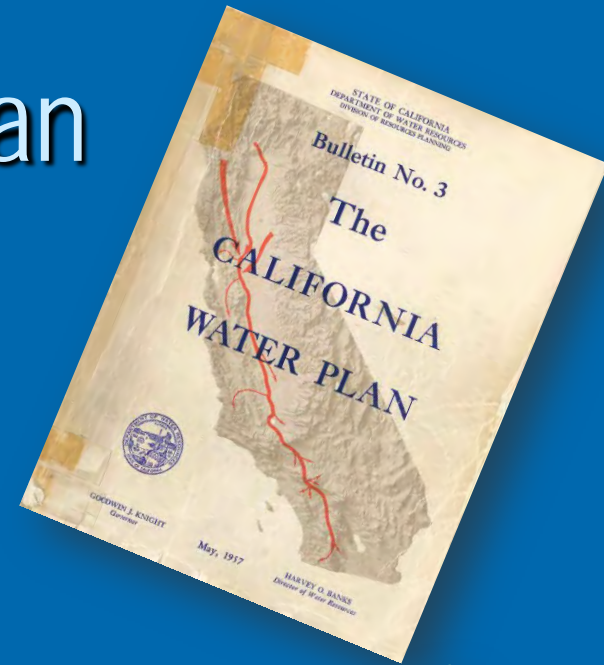
A Diverse Water Portfolio of 10 Priority Actions

1. Make conservation a California way of life
2. Increase regional self-reliance and integrated water management across all levels of government
3. Achieve the co-equal goals for the Delta
4. Protect and restore important ecosystems
5. Manage and prepare for dry periods
6. Expand water storage capacity and improve groundwater management
7. Provide safe water for all communities
8. Increase flood protection
9. Increase operational and regulatory efficiency
10. Identify sustainable and integrated financing opportunities



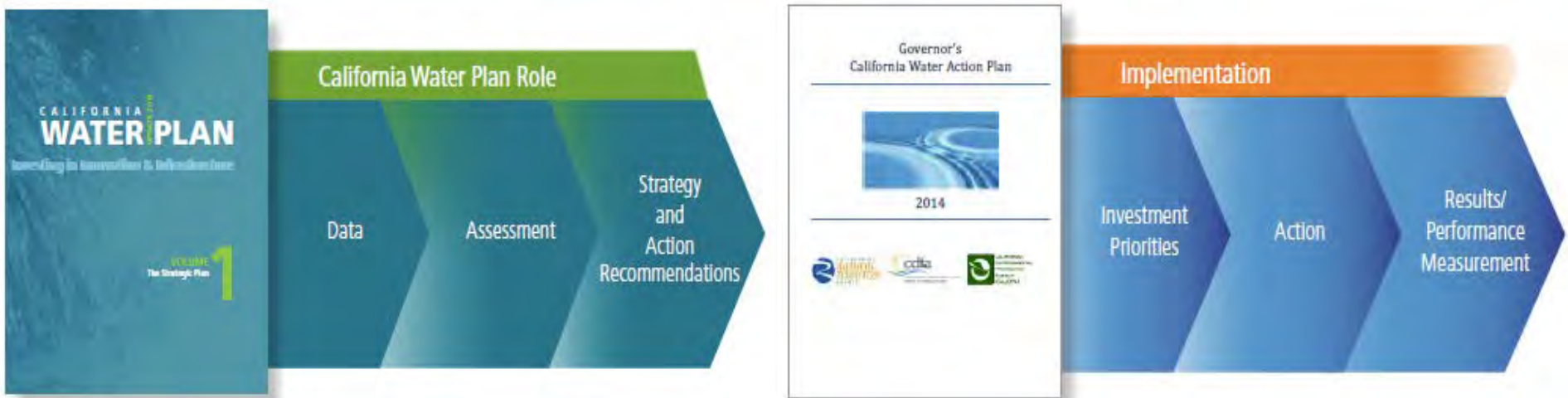
The California Water Plan

- First published in 1957 as Bulletin 3
- Water Code requires DWR to update Water Plan every 5 years – 10 updates (Bulletin 160)
- Strong nexus with Governor's Water Action Plan
- Tool for guiding investment priorities and legislative action
- Update 2013 lays out recommendations -- no mandates or appropriations



Update 2013 informed & helps implement 5-year Water Action Plan

- Roadmap for Action
17 Objectives & 350+ Actions
- 30 Resource Management Strategies
- 12 Regional Reports
- Water Portfolios & Balances
- Future Scenarios & Responses
- Reference & Technical Guides



Update 2013 -- a Resource Guide for Implementing the Governor's Water Action Plan

California Water Plan Update 2013 | Highlights

A Resource for Implementing the Governor's Water Action Plan

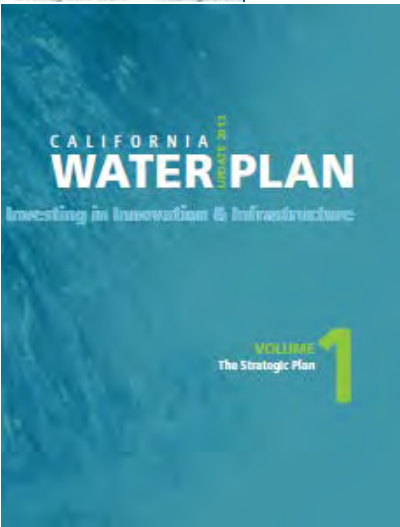
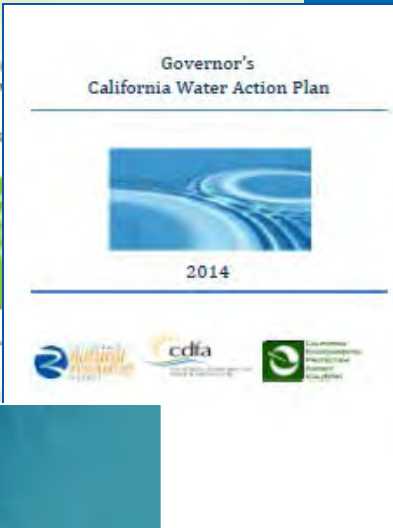
This is a guide to assist with implementing the Governor's priority water actions in a manner aligned with the State's long-term, strategic vision for water. It links two key State government plans: the Governor's Water Action Plan and the more long-term California Water Plan Update 2013 (Update 2013). Linkages are shown between implementation actions in Update 2013 that advance one or more of the Governor's 10 priorities in the five-Year Plan. The actions in Update 2013 represent the alignment of nearly 40 State agency plans and are well supported by the State's diverse stakeholder groups and opinion leaders.

Using this table as an entry point, implementers can access the over 350 specific actions in Update 2013. The Update 2013 actions are presented topically by the 17 objectives and related resource management strategies (RMS) in actions behind the objectives and RMSs can be accessed in Volume 1, Chapter 8 Roadmap for Action and Volume 3 Resource Management Strategies, respectively.

Water Action Plan's 10 Essential Actions	Make conservation a California way of life	Invest in integrated water management and increase regional self-reliance	Achieve the coequal goals for the Delta	Protect and restore important ecosystems	Manage and prepare for dry periods	Expand water storage capacity	Provide safe drinking water and restore wastewater systems to all communities	Increase flood protection	Improve operations and regulatory efficiency
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Update 2013 Objectives and Management Strategies

Update 2013 Objectives (Volume 1, Chapter 8)	#2 – Use and Reuse Water More Efficiently	#1 – Strengthen Integrated Regional Water Management Planning	#7 – Manage the Delta to Achieve the Coequal Goals for California	#4 – Protect and Restore Surface Water and Groundwater Quality	#2 – Use and Reuse Water More Efficiently	#3 – Expand Conjunctive Management of Multiple Supplies (includes groundwater and surface storage)	#4 – Protect and Restore Surface Water and Groundwater Quality	#6 – Improve Flood Management Using an Integrated Water	#3 – Expand Conjunctive Management
Resource Management Strategies (Volume 3)	<ul style="list-style-type: none"> Ag Water Use Efficiency Urban Water Use Efficiency Recycled Municipal Water Democracy and Engage Economic Incentives 	All 304 RMSs can enhance regional self-reliance, depending on where they are implemented and how the benefits are allocated.	All 304 RMSs have the potential to help meet Delta coequal goals, depending on where they are implemented and how the benefits are allocated.	<ul style="list-style-type: none"> Six RMSs pertaining to water quality Ag Lands Stewardship Ecosystem Restoration Forest Mgmt. Land Use Planning and Mgmt. Recharge Area Protection Sediment Mgmt. Watershed Mgmt. 	(Partial list) <ul style="list-style-type: none"> Ag Water Use Efficiency Urban Water Use Efficiency Recycled Municipal Water Conjunctive Mgmt. of Surface and Groundwater CALFED/Local/Regional Surface Storage 	<ul style="list-style-type: none"> Conjunctive Mgmt. of Surface and Groundwater CALFED Surface Storage Local/Regional Surface Storage 	Nearly all 304 RMSs can help provide safe water and wastewater to all communities, depending on where they are implemented and how the benefits are allocated.	<ul style="list-style-type: none"> #10 – Improve Data, Analysis, and Decision-Support Tools #11 – Invest in Water Technology and Science #12 – Strengthen Tribal/State Relations and Natural Resources Management #13 – Ensure Equitable Distribution of Benefits 	<ul style="list-style-type: none"> #15 – Strengthen Alignment of Land Use Planning and Integrated Water Management #16 – Strengthen Alignment of Government Processes and Tools #17 – Improve Integrated Water Management Finance Strategy and Investments



CA Water Plan Transformation 2000 - 2014

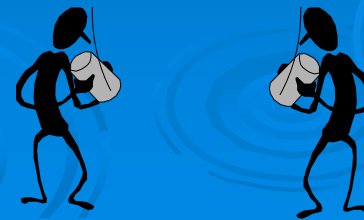
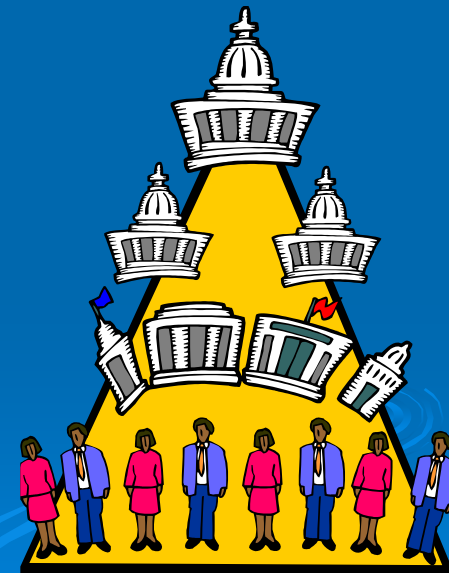
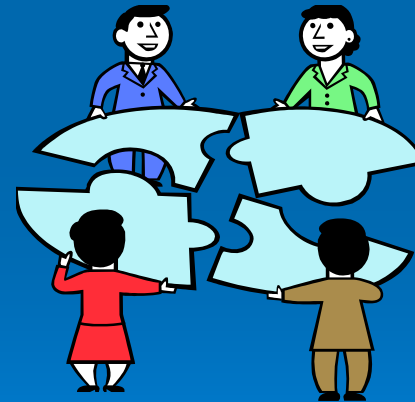
➤ Broad critique of Update 1998

➤ New approach

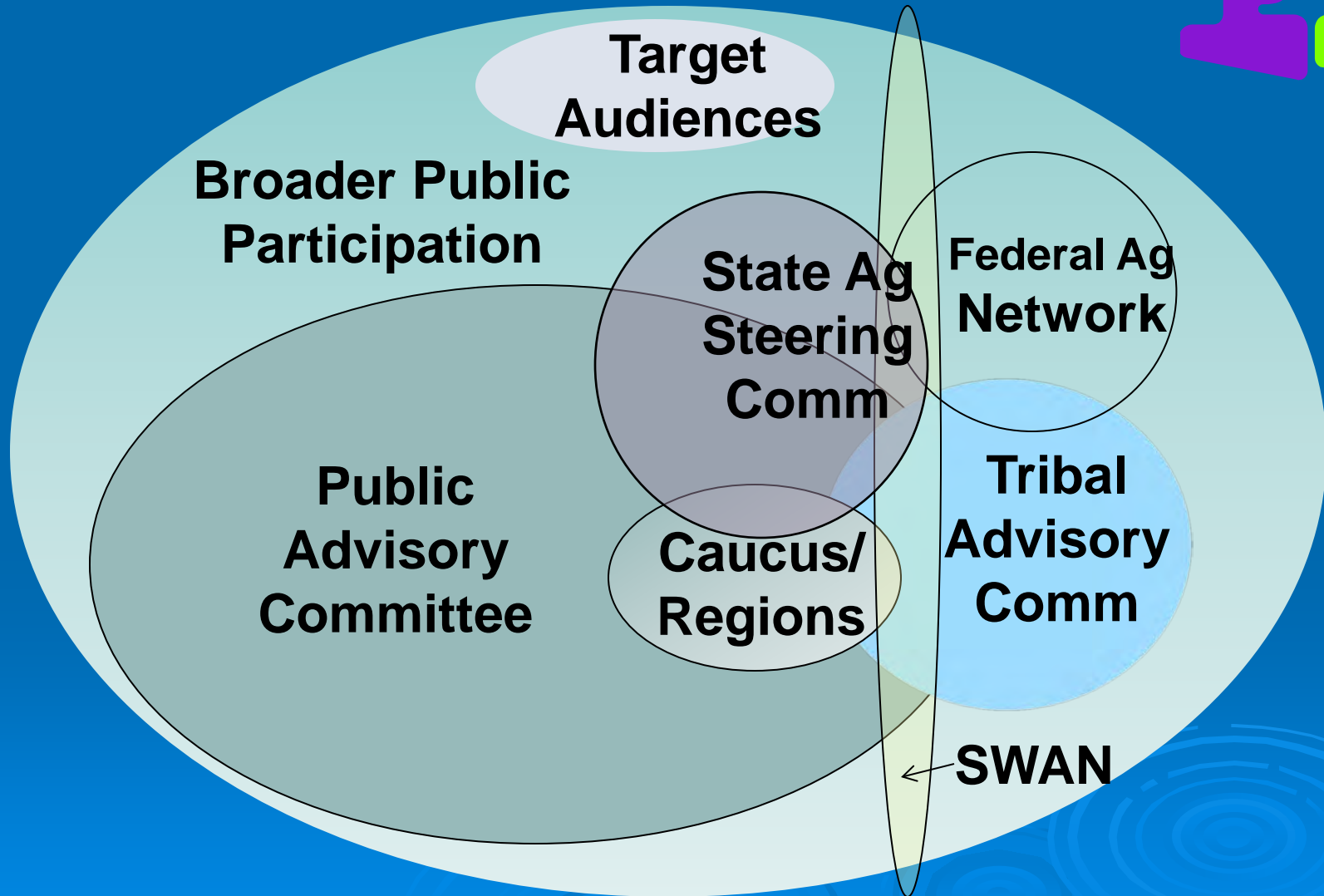
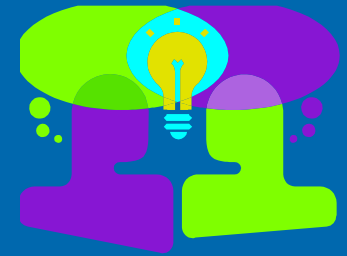
- Open & transparent public process
- Collaborative recommendations
- A strategic plan

➤ New process tools for:

- Improving communication
- Improving access
- Improving collaboration
- Improving agency alignment
- Tracking progress / metrics



Collaboration Venues



Roadmap for Implementing Integrated Water Management



► VISION & MISSION

Update 2013 provides a vision for more sustainable and reliable water resources and management systems. Mission statement describes collaborative efforts to prepare for California's most pressing statewide and regional water management issues and challenges.

► 10 GUIDING PRINCIPLES

Ten guiding principles express the core values and philosophies for making decisions about how the vision, mission, and goals will be achieved.

► 30+ RESOURCE MANAGEMENT STRATEGIES

More than 30 resource management strategies are described as tools for diversifying water portfolios and implementing integrated water management.

► 7 GOALS

Seven goals set forth the desired outcomes of Update 2013.

► 17 OBJECTIVES 350+ RELATED ACTIONS

Seventeen objectives and their 350-plus related actions are geared toward fulfilling the vision, mission, goals, and principles.

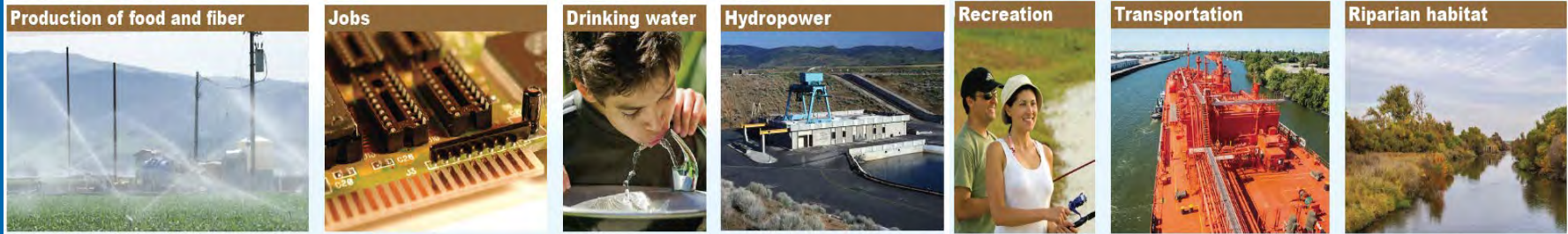
Core Messages

Charting a Course for IWM in California

- Water is the essence of Life
- California's complex water system is in crisis
- A diverse Portfolio Approach is needed to address challenges
- Solutions require Integration, Alignment & Investment
- We all have a role to play in securing our future



Water is the Essence of Life



PUBLIC SAFETY

ENVIRONMENTAL STEWARDSHIP

ECONOMIC STABILITY

- *Reduce flood risk Statewide .*
- *Provide safe drinking water .*
- *Improve water quality for fisheries and recreation .*
- *Clean, safe water supplies .*

- *Enhance Bay -Delta ecosystem .*
- *Restore terrestrial and aquatic habitats .*
- *Improve watershed management .*
- *Raise awareness and increase stewardship .*

- *Enhance State economic output .*
- *Contribute to job creation and security .*
- *Promote food production security .*
- *Provide stable funding for infrastructure .*



Healthy watersheds

Landscaping and beautification



Aquatic habitat



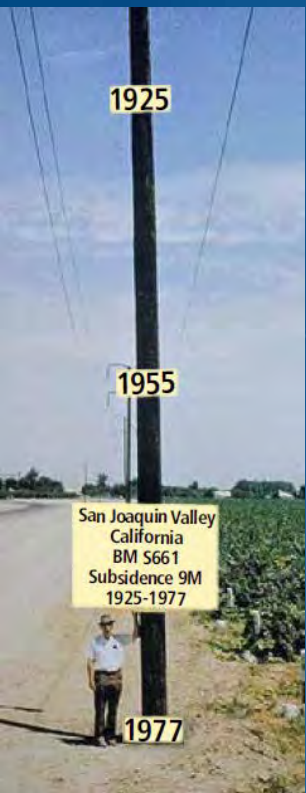
Aesthetics and spiritual well being



A System in Crisis

Reduced Prosperity for Future Generations

- Greater Drought Impacts - Unreliable Water Supplies
- Increasing Flood Risk
- Groundwater Depletion and Subsidence
- Degraded Water Quality
- Declining Environmental Conditions
- Aging Infrastructure



Low water level at Folsom Lake (January 2014)

Delay At Our Own Peril

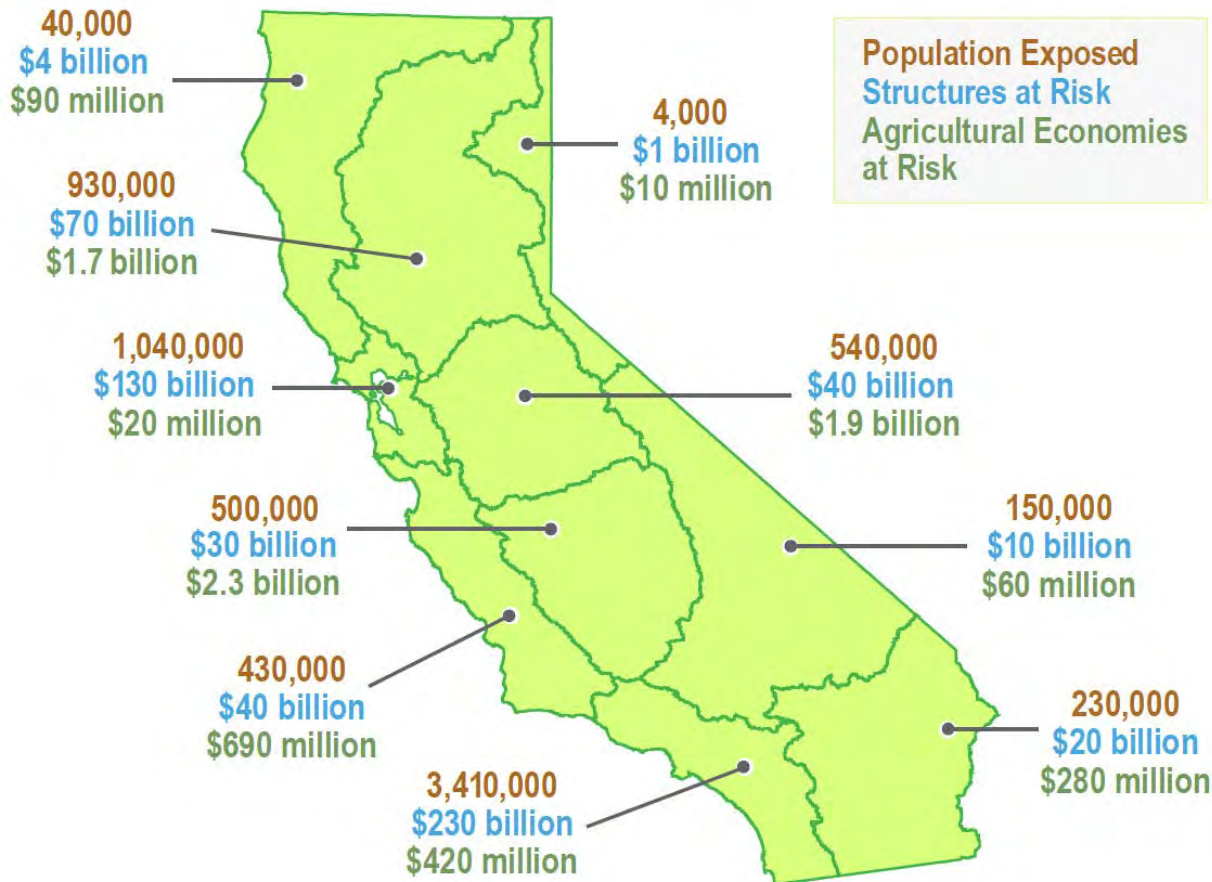
Major Flood Events



Major Drought Periods



7 Million People and \$600 Billion in Assets in Floodplains



Droughts and floods are inevitable in California, but their impacts don't have to be.

Three Themes of Update 2013

- Commit to Integrated Water Management
- **Strengthen Government Agency Alignment**
- Invest in Innovation & Infrastructure (green & grey)

Integrated Water Management

System flexibility and resiliency
Advocacy from implementers and financiers
Delivery of benefits using fewer resources

Government Agency Alignment

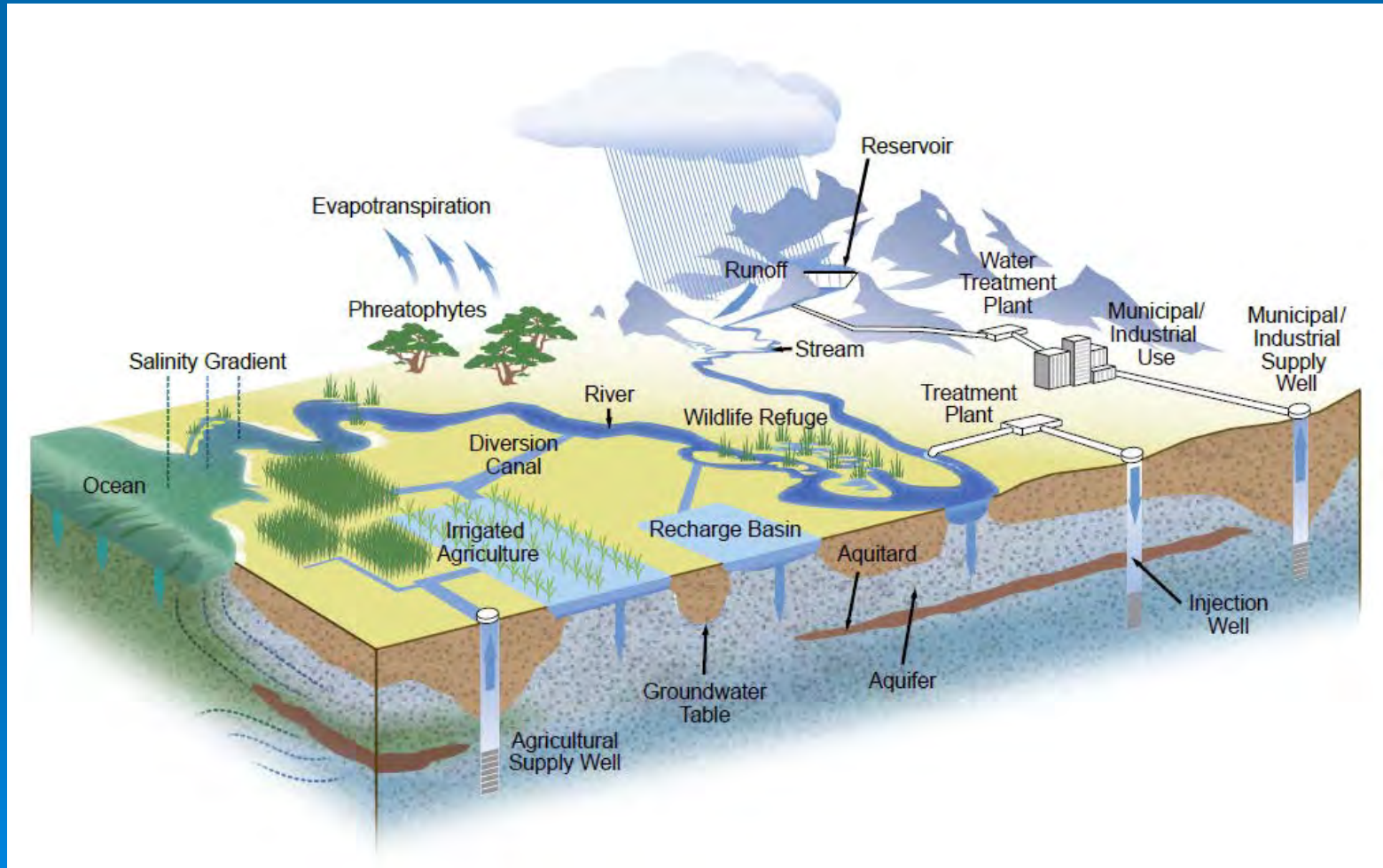
Clarification of state roles
Reduction in implementation time and costs
Efficient achievement of multiple objectives

Investment in Innovation and Infrastructure

Stable and strategic funding
Priority-driven funding decisions
Equitable and innovative finance strategies

A Call to Integrate

Interconnected Systems Require Integrated Solutions



Integrated Regional Water Management

48 Regional Water Mgmt Groups

➤ Foster partnerships & promote regional solutions

➤ Diversify water portfolios & integrate supplies

➤ Leverage economies of scale to reduce costs

➤ Integrate data, tools & resources

➤ Invest in multi-benefit projects with sustainable outcomes

➤ Increase regional self-reliance

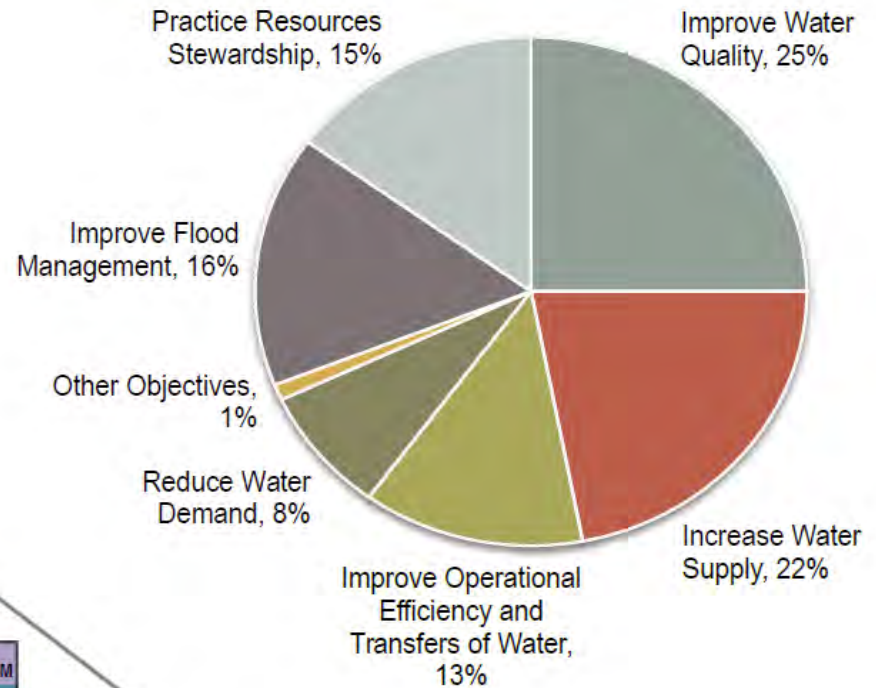
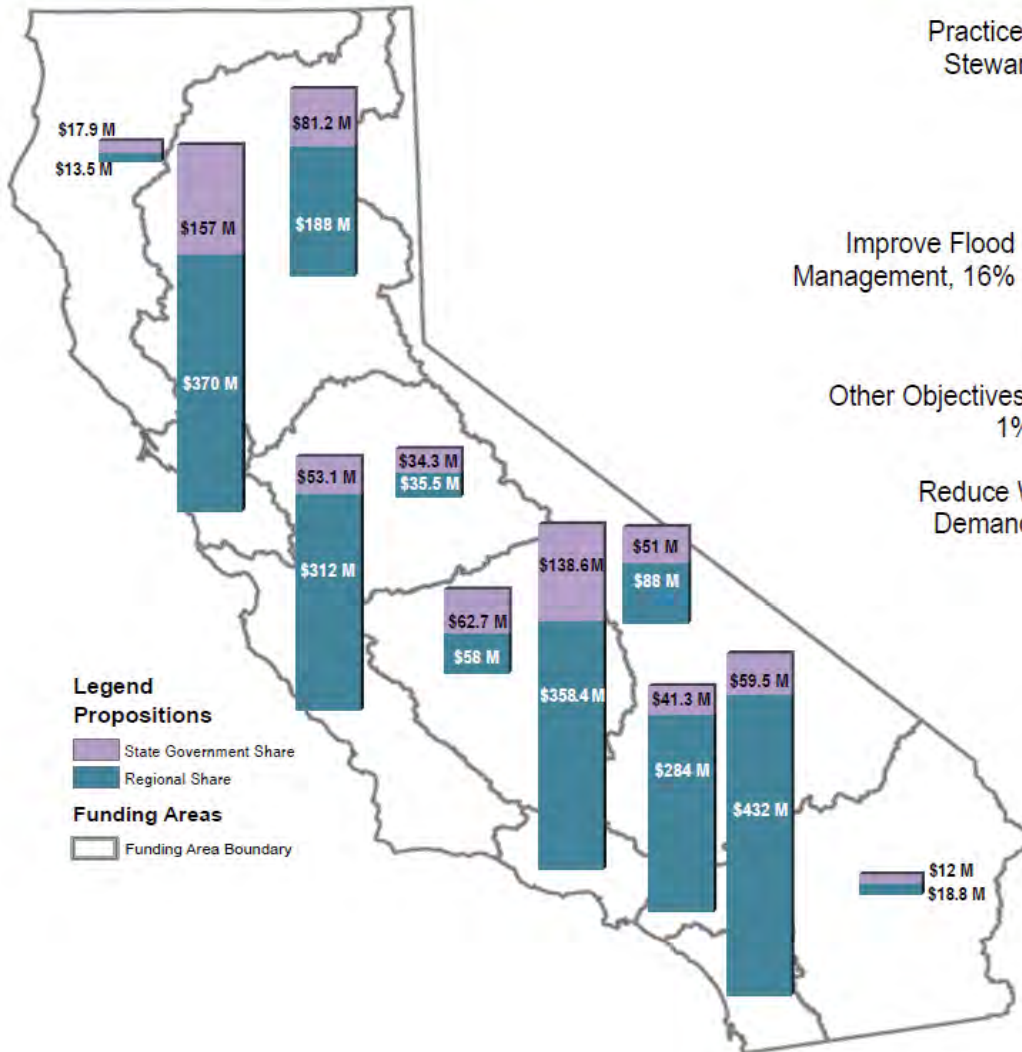


A Decade of Regional Investment

Regional Diversity Requires Regional Solutions

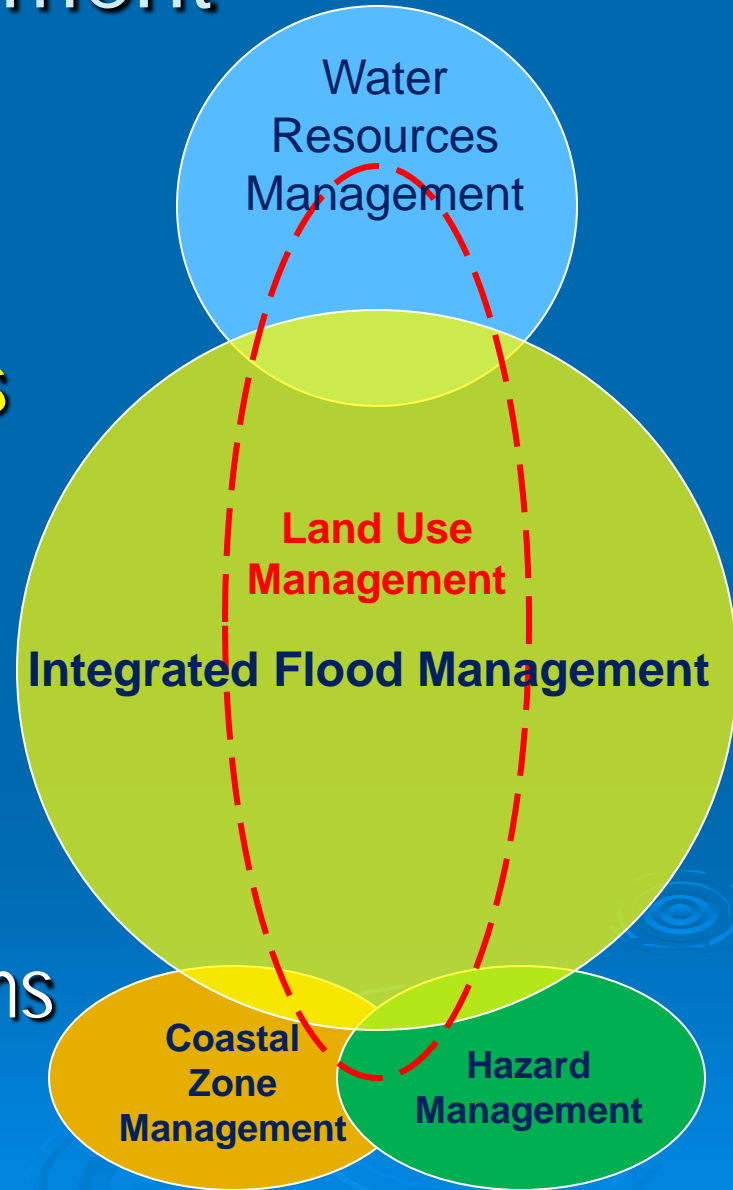
Investing in California's Regions

Achieving Multi-Benefits



Integrated Flood Management

- Comprehensive approach to flood management
- Considers land & water resources at watershed scale
- Minimizes loss of life and property damage from flooding
- Maximizes benefits of floodplains
- Recognizes benefits to ecosystems from periodic floods



Improving Coordination Land Use Planning & Water Management



- Land use planning controlled locally
- Water management decentralized -- over 2,300 counties, cities, public agencies, and private water companies
- IRWM coordinates land use planning with water supply, quality, flood management, and climate adaptation
- State Government provides technical assistance and financial incentives
- More coordination among State agencies & with IRWM Partnerships

30+ Resource Management Strategies

Tools for Diversifying Regional Water Portfolios

Reduce Water Demand

- Agricultural Water Use Efficiency
- Urban Water Use Efficiency

Improve Operational Efficiency & Transfers

- Conveyance – Delta
- Conveyance – Regional / Local
- System Reoperation
- Water Transfers

Increase Water Supply

- Conjunctive Management & Groundwater Storage
- Desalination – Brackish & Seawater
- Precipitation Enhancement
- Recycled Municipal Water
- Surface Storage – CALFED
- Surface Storage – Regional / Local

Improve Flood Management

- Flood Management

** New for Update 2013

Improve Water Quality

- Drinking Water Treatment & Distribution
- Groundwater / Aquifer Remediation
- Matching Quality to Use
- Pollution Prevention
- Salt & Salinity Management
- Urban Stormwater Runoff Management

Practice Resource Stewardship

- Agricultural Lands Stewardship
- Ecosystem Restoration
- Forest Management
- Land Use Planning & Management
- Recharge Areas Protection
- Sediment Management **
- Watershed Management

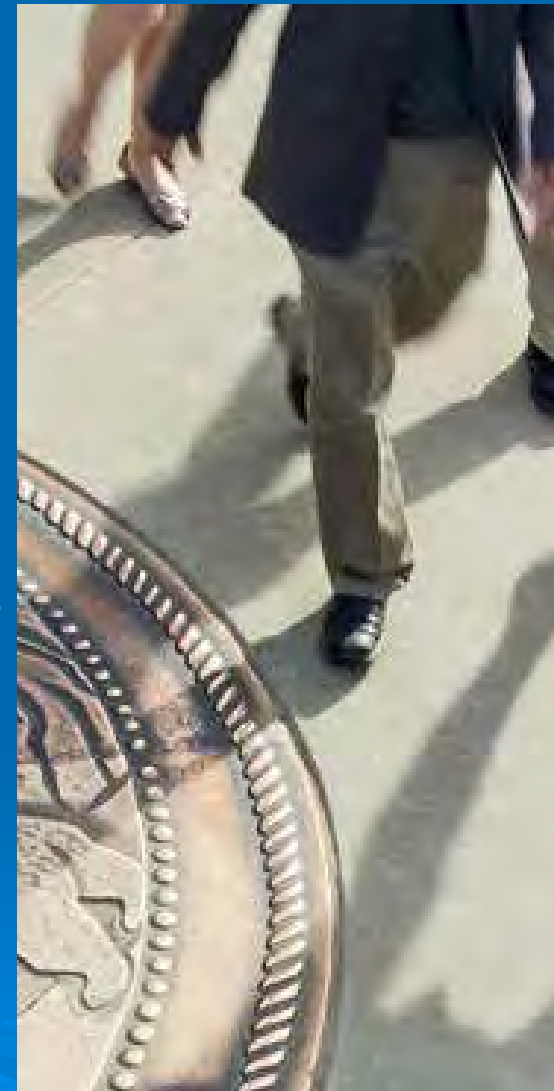
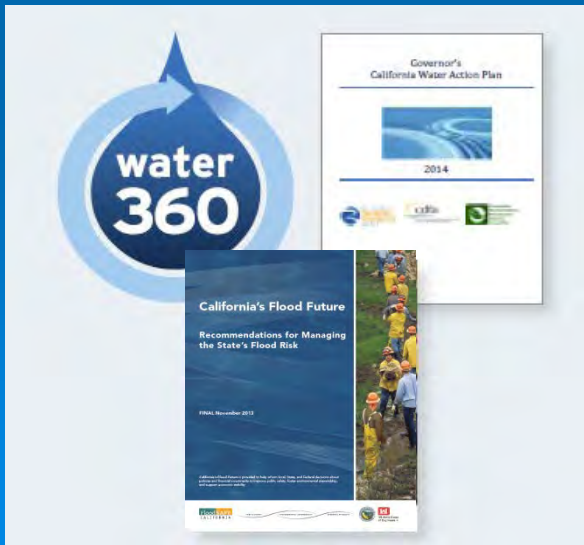
People & Culture

- Economic Incentives
(Loans, Grants & Water Pricing)
- Outreach & Engagement **
- Water & Culture **
- Water-Dependent Recreation

A Call to Align Agency Alignment Is Critical

Expediting and reducing the cost of implementation with:

- Principles for improving alignment
- Actions for aligning government agencies



Strengthening Agency Alignment

- **Improve, align, and transform processes and admin. tools** for water planning, public engagement, project implementation, & policy- and regulation-setting to advance IWM.

- **Intended Outcomes**

- Consistent & regionally-appropriate plans, policies & regulations
- Shorter implementation times & avoided costs
- Achieving multiple benefits through more partnerships

- **Water Plan Strategies & Tools**

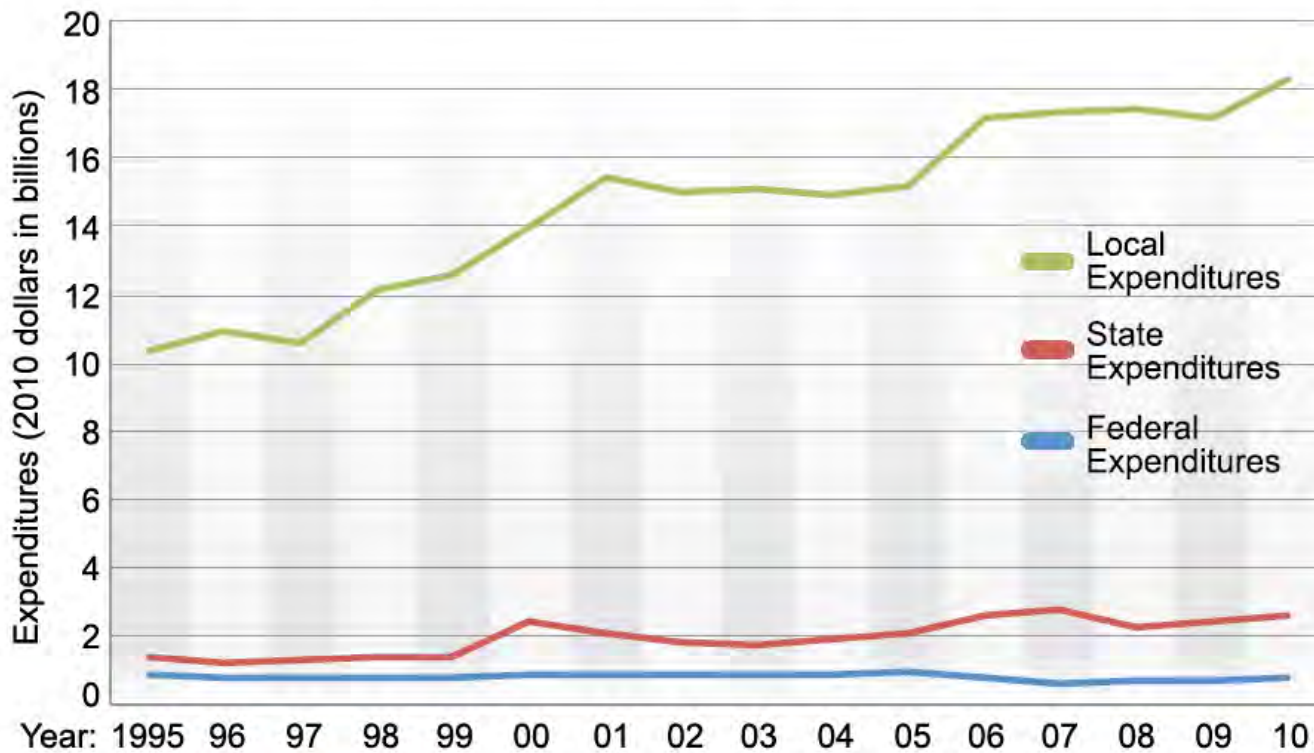
- State Agency Steering Committee (28 members)
- Companion State Plans (37 featured)
- Federal Agency Network & Companion Fed Plans
- State & Federal subject matter experts & authors
- Workshops on regulatory alignment



A Call to Invest

Resiliency Requires Sustained Investment

Investments Over Previous Decade: A Good Down Payment



Despite significant local investments and State bonds, management of California's water resources remains underfunded.

3 I's - Invest in Innovation & Infrastructure

California State Government in partnership with others should invest in water innovation & infrastructure to support integrated water management and sustainable outcomes

➤ Innovation actions

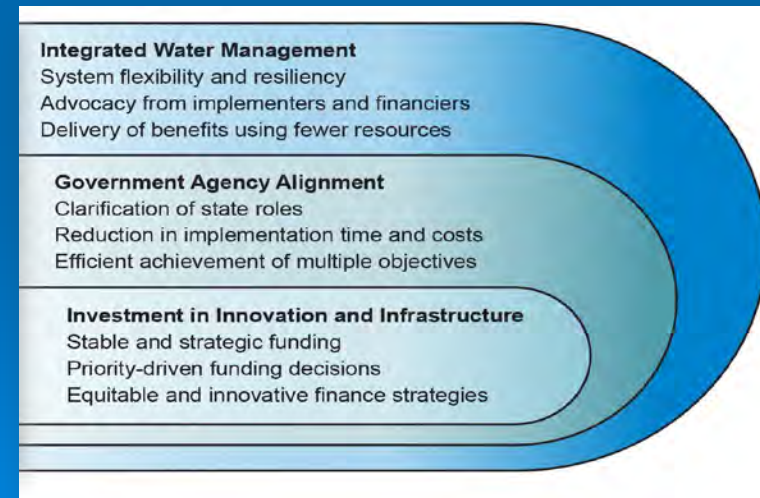
- Governance improvements
- Planning & public engagement improvements
- Agency alignment (data, plans, policies & regulations)
- Information technology (data & tools)
- Water technology & science

➤ Infrastructure improvements -- natural (green) & human (grey)

- Regional projects
- Inter-regional projects
- Statewide systems

➤ State Investments - Finance Plan

- Stable funding for innovation actions & statewide systems
- Seed money to incentivize regional infrastructure improvements²⁶



Update 2013 Water Finance Planning

➤ New Finance Planning Framework

- Provides context, structure and strategies
- 8-step finance planning storyboard

➤ Shared Values for Guiding State Government Investments

- Prioritization of State government investments
- Fiduciary responsibility and accountability
- Beneficiary and stressor responsibilities

➤ Attributes of future finance strategies

- Improve cost effectiveness, efficiencies, and accountability.
- Avoid stranded costs and funding discontinuity.
- Leverage funding across State government agencies.
- Increase certainty of desired outcomes.



Ways to Access Water Plan Information

➤ Visit the *Water Plan Web Portal*
www.waterplan.water.ca.gov

CALIFORNIA WATER PLAN eNEWS
Wednesday Update Nov. 6, 2013

This weekly electronic newsletter is designed to keep you current on California Water Plan news. We welcome comments, suggestions and any news tips that may be of interest to water planners.

Public draft of California Water Action Plan is posted and ready for comments
 Public comments are being accepted for the latest draft of the [California Water Action Plan](#). The California Natural Resources Agency, California Environmental Protection Agency and the California Department of Food and Agriculture are working to identify key actions that will establish a foundation for sustainable management of the state's water resources. More information is available in this [news release](#).

President issues executive order to prepare nation for the effects of climate change
 President Obama has issued an [executive order](#) directing federal agencies to prepare the country for the effects of climate change. It includes a nine-month time frame for several agencies to develop a list of changes needed to make the nation's watersheds more resilient in the face of a changing climate.

Tulare forum offers wide-ranging look at groundwater issues
 A regional water forum covering a wide range of groundwater issues will be held Monday, Nov. 18, in Tulare. The [San Joaquin Valley Groundwater Overlay](#) will cover regulatory concerns, sustainability issues and other topics. The event is being organized by the American Ground Water Trust.

New agenda posted for this month's CARCD meeting and conference
 An updated [agenda](#) has been posted for this year's annual meeting and conference of the [California Association of Resource Conservation Districts \(CARCD\)](#). It will be Nov. 13-16, in Napa. The conference will focus on the balance needed to meet rural and urban resource needs. Tours during the conference will cover flood management projects, sustainable wine producing practices and forest issues.

USACE module explains collaborative water resources modeling
 The U.S. Army Corps of Engineers (USACE) has posted a course module explaining [collaborative water resources modeling](#). Collaborative modeling combines technical analysis with traditional planning principles to assist with complex decision processes. The module was developed as part of an online graduate course at the University of Arizona. Details are in this [USACE news release](#).

Second phase completed in development of ag land stewardship strategies
 Work has been completed on the second phase in developing the [Agricultural Land Stewardship Strategies and Framework](#) (links for submitting comments are available on this site). The framework looks at a voluntary approach to incorporate agricultural land stewardship plans into planning processes using a tool box of nearly three dozen [strategies](#). More information is available in the draft [executive summary](#).



California Water Plan Update 2009
 Integrated Water Management
 Bulletin 160-09 Department of Water Resources

Release and Contact Information	
	eNews Special Edition 1.1 MB
	Rollout Flyer 0.9 MB

Secretary's Message
 The strategies outlined in these pages provide the means to manage resources comprehensively, from snowmelt to estuary, from field to tap, and all of the uses within the watershed.
[Video of former Director Stone giving this address at the February meeting.](#)

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Questions & Comments



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