

Integrating Water Management in California

Water Plan Update 2013

CA Water Commission
October 17, 2012

California **Water Plan** Highlights

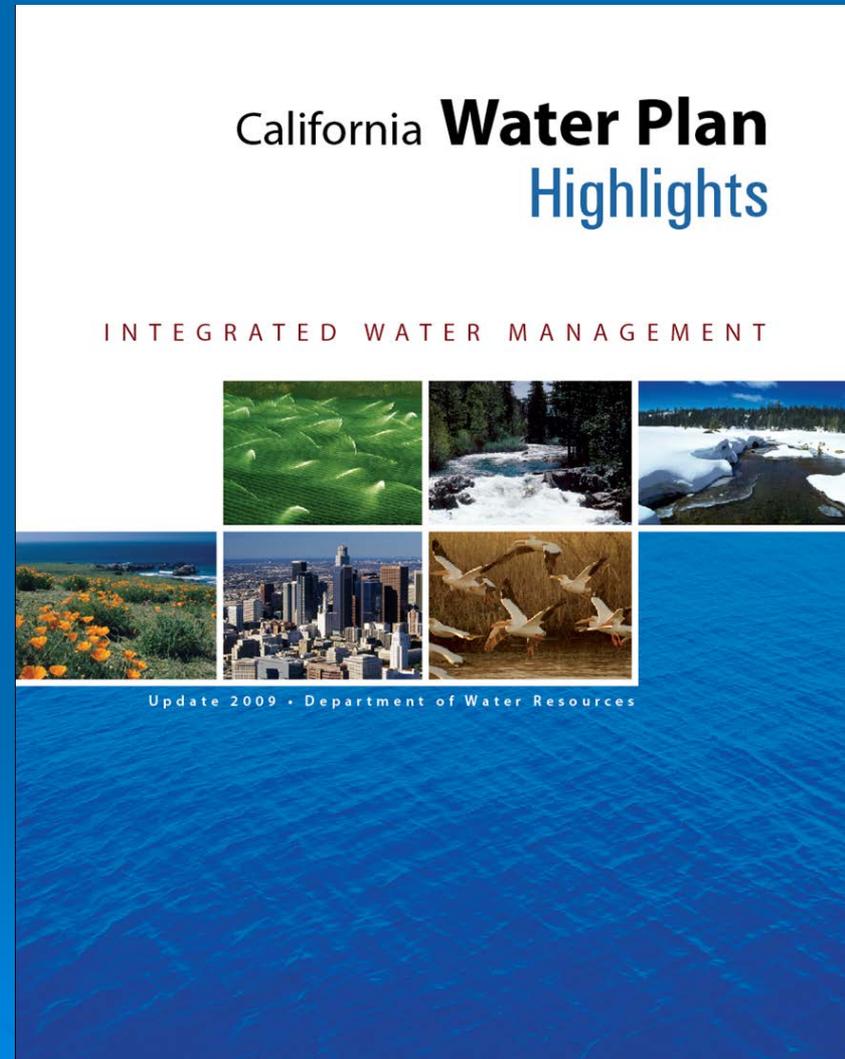
INTEGRATED WATER MANAGEMENT



Update 2009 • Department of Water Resources

The California Water Plan

- First published in 1957 as Bulletin 3
- Updated 9 times as Bulletin 160
→ Update 2009 released Mar 2010
- Water Code requires DWR to update Water Plan every 5 years
→ next one in 2013
- Growing interest by Legislature & stakeholders
- No mandates & No appropriation



Update 2009 – State's Blueprint Integrated Water Management & Sustainability

VISION

- Public Health, Safety, Quality of Life
- Vitality, Productivity, Economic Growth
- Healthy Ecosystem, Cultural Heritage

Foundational Actions for SUSTAINABLE WATER USES

- Use Water Efficiently
- Protect Water Quality
- Expand Environmental Stewardship

Initiatives for RELIABLE WATER SUPPLIES

- Expand Integrated Regional Water Management
- Improve Statewide Water and Flood Management Systems



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 process improvements
- Information technology (data & tools)
- Water technology / R&D

➤ Infrastructure improvements (natural & human)

- Regional projects
- Inter-regional projects
- Statewide systems

➤ State Investments - Finance Plan

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



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

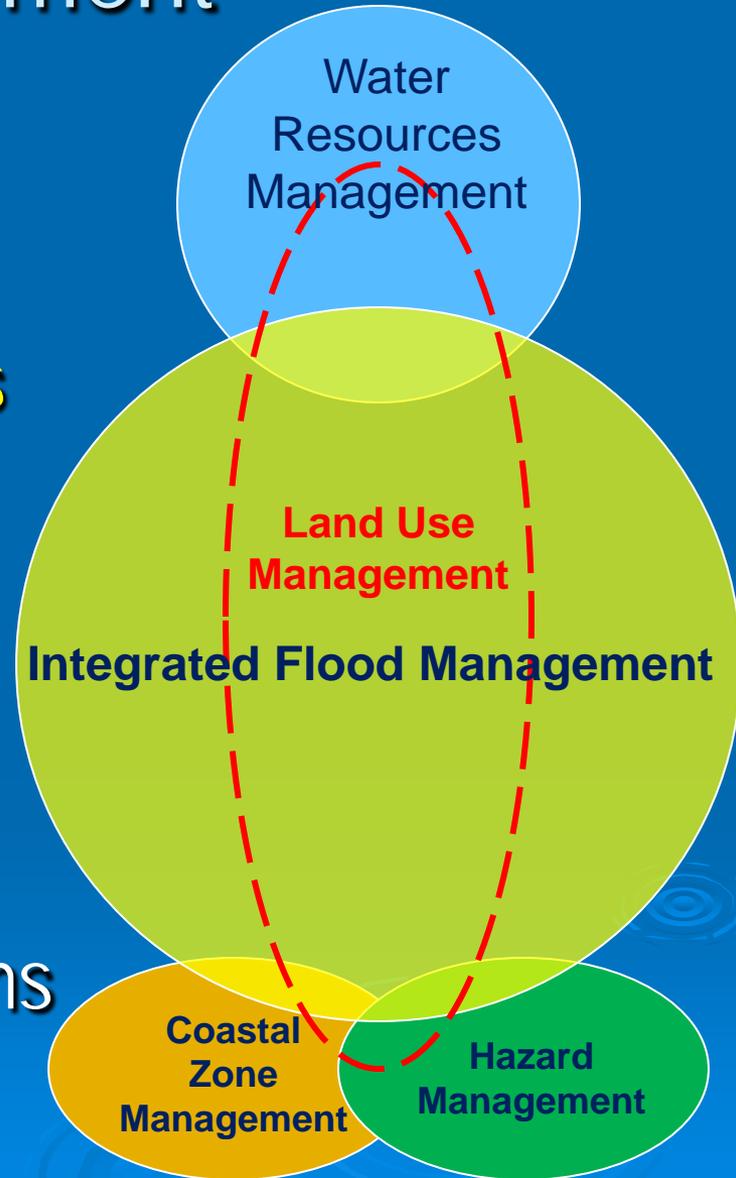
➤ Integrate data, tools & resources

➤ Invest in multi-benefit projects with sustainable outcomes

➤ Increase regional self-sufficiency

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

27+ 3 New Resource Management Strategies

A Range of Choices

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 Risk Management

Improve Water Quality

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

Practice Resource Stewardship

- Agricultural Lands Stewardship
- Economic Incentives
(Loans, Grants & Water Pricing)
- Ecosystem Restoration
- Forest Management
- Land Use Planning & Management
- Recharge Areas Protection
- Water-Dependent Recreation
- Watershed Management

New – Education & Outreach
Sediment Management
Water & Culture

We are working on Update 2013



California Water Plan Update 2013

California Water Plan Update 2013 (Update 2013) is currently being developed by staff from the Department of Water Resources (DWR) and other agencies through rigorous public involvement and State and federal agency coordination processes. It will build on the contents of the previous update — the five-volume *California Water Plan Update 2009*, which provided a strategic plan, a suite of resource management strategies, reports on California's hydrologic regions, and reference and technical guides — and will introduce a number of key additions and enhancements in response to stakeholder recommendations and evolving decision-maker information needs.

Integrated water management is a collection of policies, practices, and tools applied to water resources planning and management to achieve multiple objectives and enhanced outcomes.

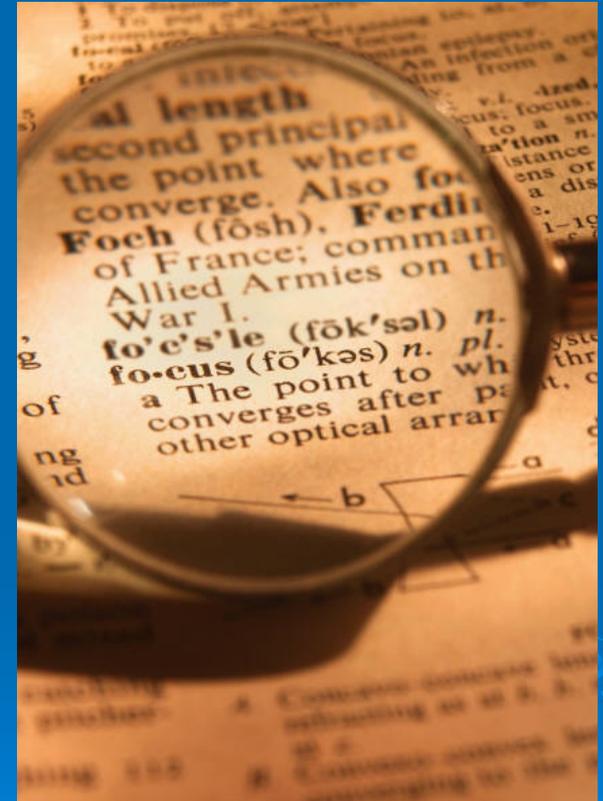
Water Plan Framework for Integrated Water Management and Sustainability



Investing in Innovation and Infrastructure

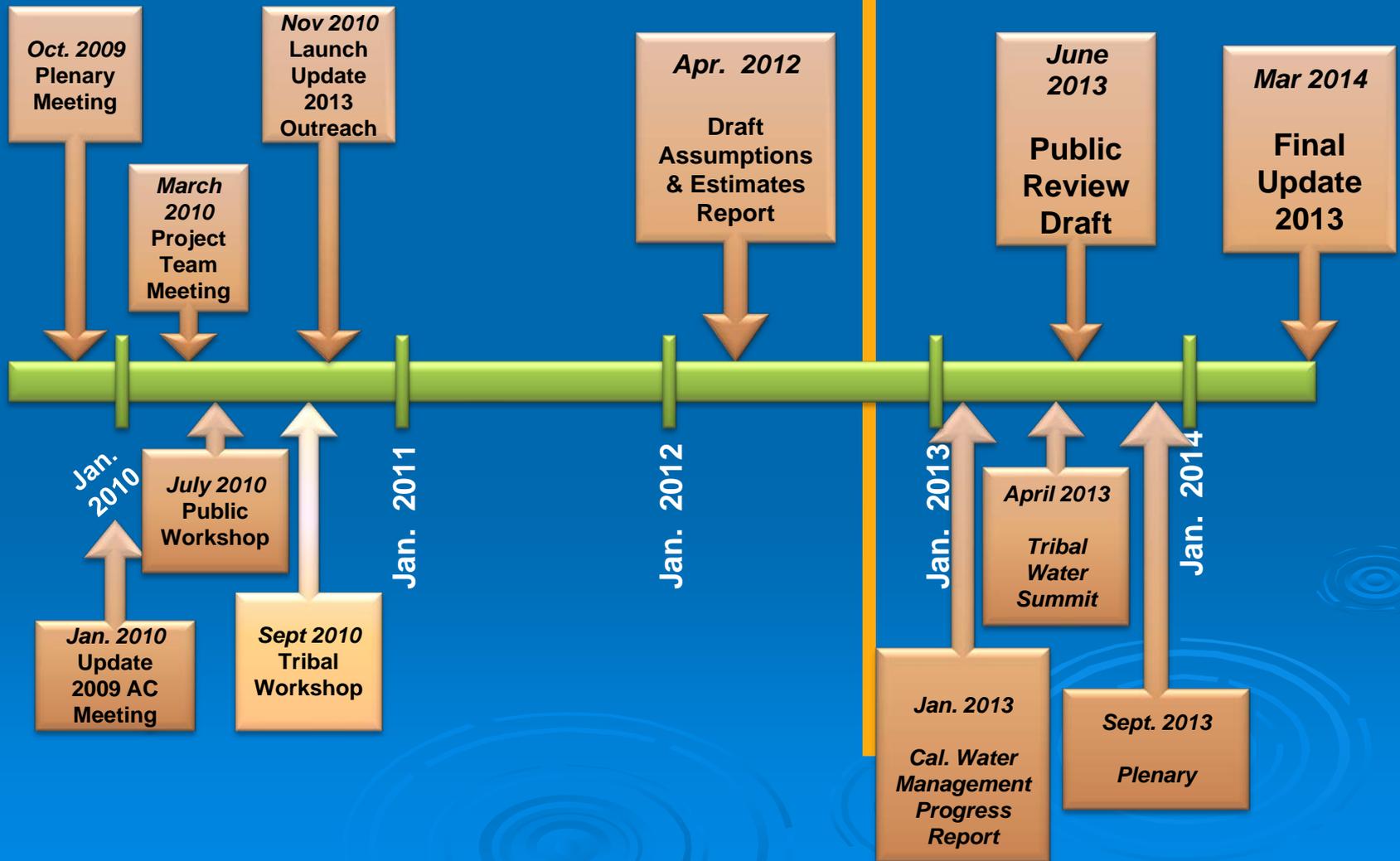
Update 2013 Topic Caucuses & Focus Areas

- Finance Plan
- Groundwater
- Water Quality
- Integrated Flood Management
- Water Technology / R&D
- DAC / Environmental Justice
- Sustainability Indicators
- Scenarios – Planning for Future Uncertainty



Update 2013 Scoping & Deliverables

We Are Here



Ways to Access Water Plan Information

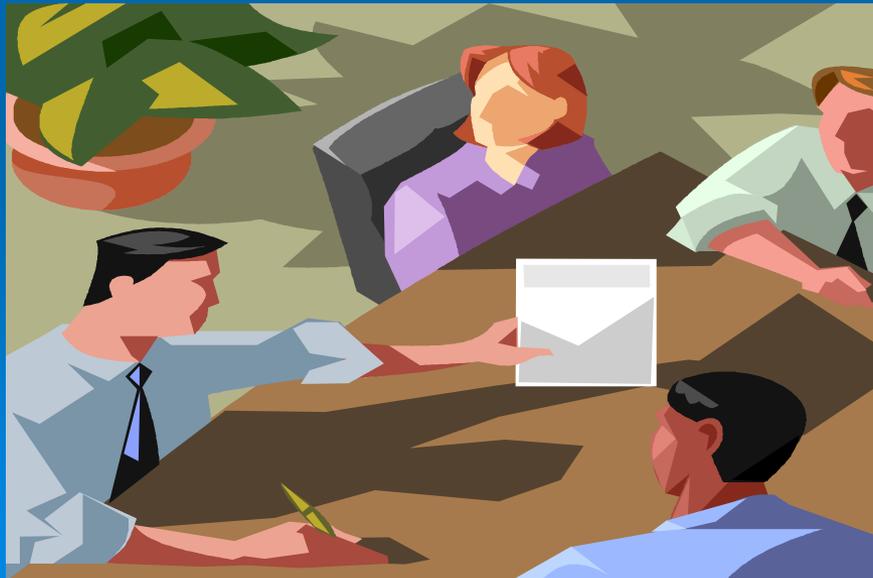
- Visit the *Water Plan Web Portal*
www.waterplan.water.ca.gov



- Subscribe to *Water Plan eNews*
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Release	Contact Information
eNews Special Edition	1.1 MB
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Questions & Comments



Kamyar Guivetchi, PE
Statewide Integrated Water Mgmt
CA Department Water Resources

(916) 653-3937
kamyarg@water.ca.gov

2012 Water Plan Plenary Recap

UPDATE 2013
CALIFORNIA WATER

PLENARY

SEPT. 12-13, 2012

2012 PRELIMINARY PROGRAM*

Doubletree Hotel, 2001 Point West Way, Sac., CA, 95815



Water Plan Plenary Sessions

- Role of Integrated Water Management
- **Regional Report Poster Session**
- Regulatory Collaboration and Alignment
- **Scoping Near-Coastal Resources**
- Water Technology



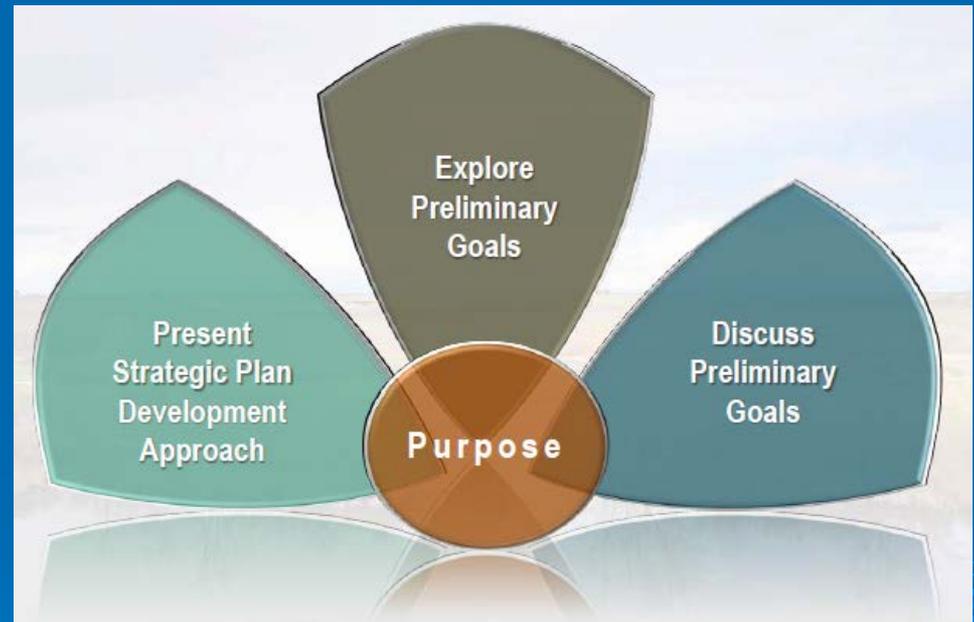
Water Plan Plenary Sessions

- **Economic Value of Ecosystem Services**
- **New Resource Management Strategies**
- **Tribal Advisory Committee Meeting**
- **CA Water Management Progress Report**
- **Sustainability Indicators**



Strategic Plan For Future of IRWM

- Vision for the IRWM Strategic Plan
- Key elements of IRWM Strategic Plan
- Plan for stakeholder engagement
- Exercise to identify goals to achieve vision



Background and Scope of Finance Planning Framework

Purpose

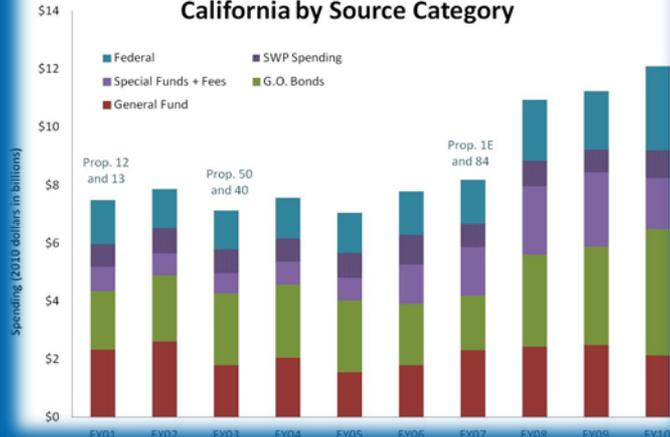
1. Define State government's future role in IWM
2. Clarify and align current State IWM funding and finance
3. Develop principles and criteria for prioritizing future State IWM investment
4. Guide legislation pertaining to future State investment and finance strategies

Follow the Money: History of Resource Management Funding

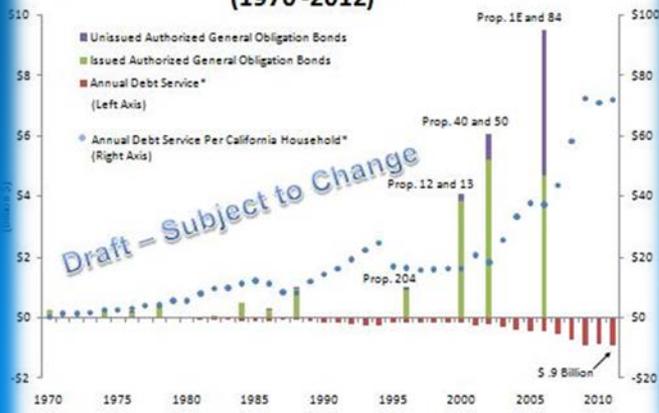
Estimated Annual Federal, State Agency, and Local IWM Spending in California



Estimated Annual State Agency IWM Spending in California by Source Category



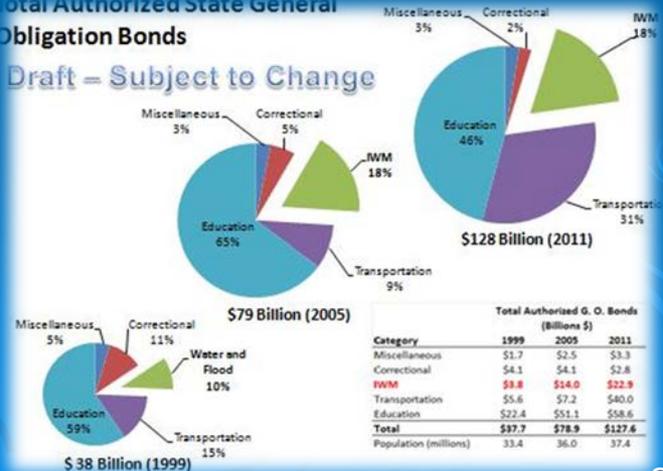
IWM State General Obligation Bond History (1970 - 2012)



*Debt service is applicable to issued general obligation bonds only
Source: California Department of Finance

Total Authorized State General Obligation Bonds

Draft - Subject to Change



Role of Public Funding

- **Stimulate innovation and new technology**
- Define and pay for legacy impacts
- **Public outreach and messaging**
- Fund and implement what regions cannot

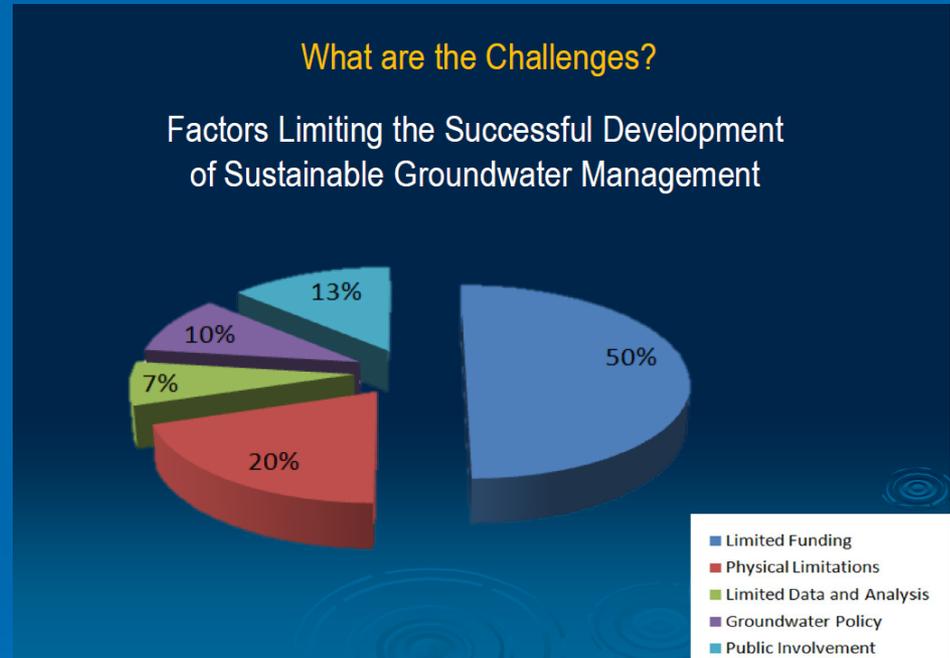
Finance Recommendation Categories

- **Scope of IWM**
- Estimated future IWM costs
- **Future role of State government**
- Investment Prioritization
- **Apportioning Costs**
- Oversight /Admin of State IWM Funding
- **Financing Strategies**
- Regulatory Alignment



Groundwater

- Groundwater Data
- Change in Groundwater Storage
- Conjunctive Management and Groundwater Banking



Flood Future Report

The Flood Future Report will:

- Promote understanding of Flood Problems Statewide
- Make recommendations for managing flood risk
- Guide flood management decisions on policy and financial investments





Summary Observations

- Groundbreaking Participation – more than 300 individual participants and well over 200 participants each day
- Outstanding, relevant and interactive content
- Poster Session interactions
- Fabulous guest speakers and panelists