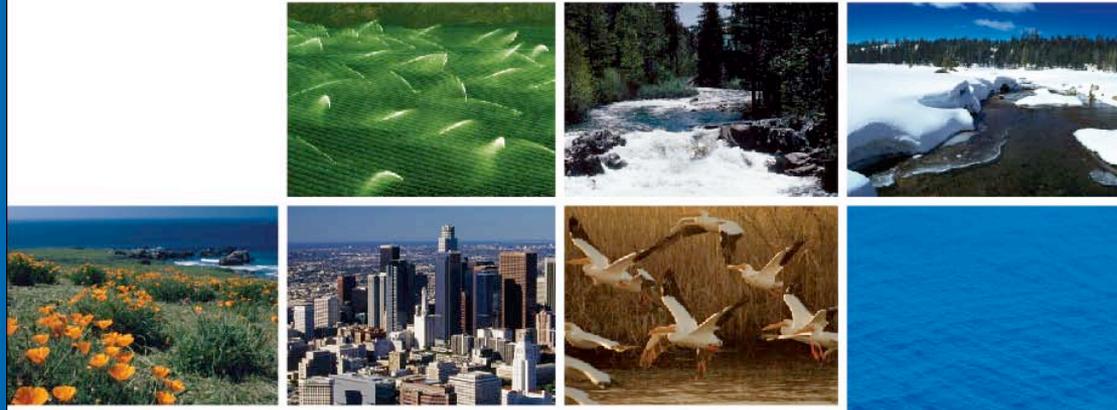


California **Water Plan** Highlights

California Water Plan Updates 2009 & 2013 and Flood Management

INTEGRATED WATER MANAGEMENT



Update 2009 • Department of Water Resources

**Integrated Flood
Management Caucus
February 2, 2012**

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

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

➤ Infrastructure

- Regional projects
- Inter-regional projects
- Statewide systems

➤ State Investments - Finance Plan

- Stable funding with focus on innovation investments
- Seed money to incentivize infrastructure improvements



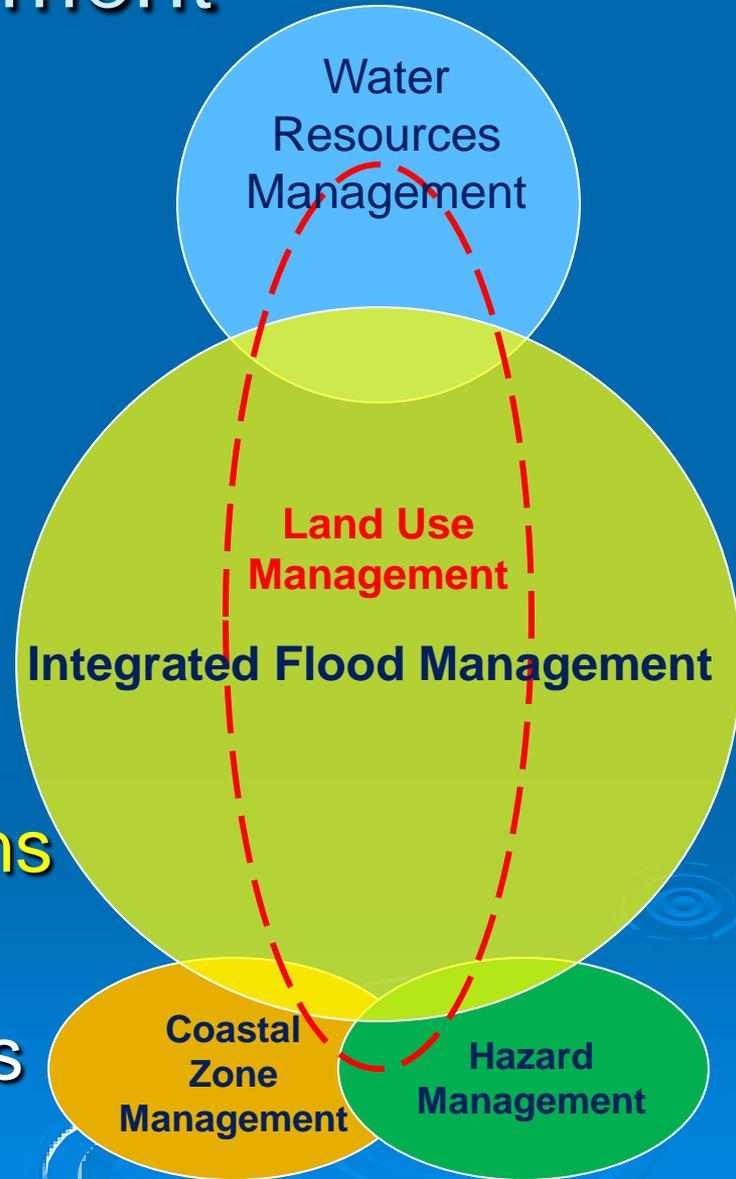
Improve Coordination Land Use Planning & Water Management



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

Integrated Flood Management

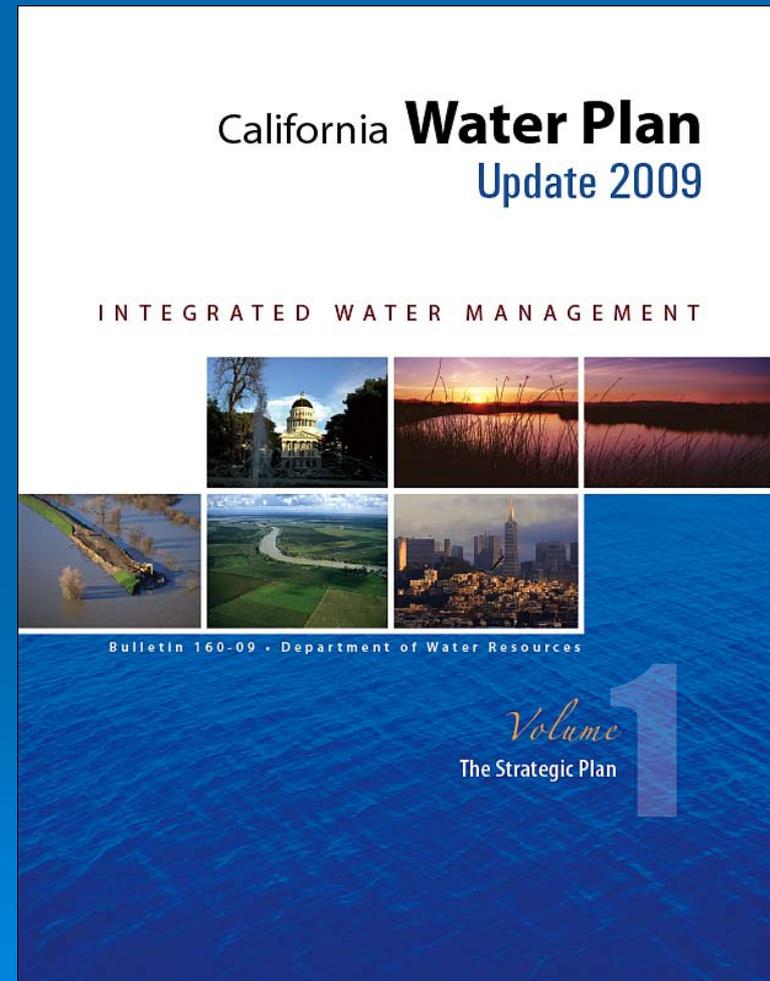
- Comprehensive approach to flood management
- **Considers land & water resources at watershed scale**
- Minimizes loss of life and property damage from flooding
- **Maximizes benefits of floodplains**
- Recognizes benefits to ecosystems from periodic floods



California Water Plan Update 2009

Objective 6 – Practice Integrated Flood Management

- Promote and practice integrated flood management to provide multiple benefits including better emergency preparedness and response, higher flood protection, more sustainable flood and water management systems, and enhanced floodplain ecosystems
- 6 Related Actions from
 - FloodSafe Strategic Plan
 - Stakeholder recommendations



27 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

Other – Crop idling, dew vaporization, fog collection, irrigated land retirement, rainfed agriculture, waterbag transport

Flood Risk Management Strategy

VOLUME 2 - RESOURCE MANAGEMENT STRATEGIES
CHAPTER 28

Flood Risk Management



MANAGEMENT OBJECTIVE - IMPROVE FLOOD MANAGEMENT

➤ Structural Approaches

- Dams and Reservoirs
- Levees, Floodwalls and Flood Embankments
- Channelization
- High Flow Diversions and Bypasses
- Coordination of Flood Operations
- Maintenance of Constructed Facilities

➤ Land Use Management

- Floodplain Function Restoration
- Floodplain Regulation
- Development and Redevelopment Policies
- Housing and Building Codes
- Flood Insurance

➤ Disaster Preparedness, Response, and Recovery

- Information and Education
- Disaster Preparedness
- Flood Emergency Response
- Post-Flood Recovery



Working on Update 2013



Update 2013 Content Enhancements



➤ Integrated Water Management

- Expand on water quality
- Continue integrated flood mgmt
- Expand on groundwater
- Add near coastal resources

➤ Regional Planning

- Expand on land use & water mgmt nexus
- Incorporate UWMP content
- Expand economic & financial planning

➤ Data, Metrics & Analysis

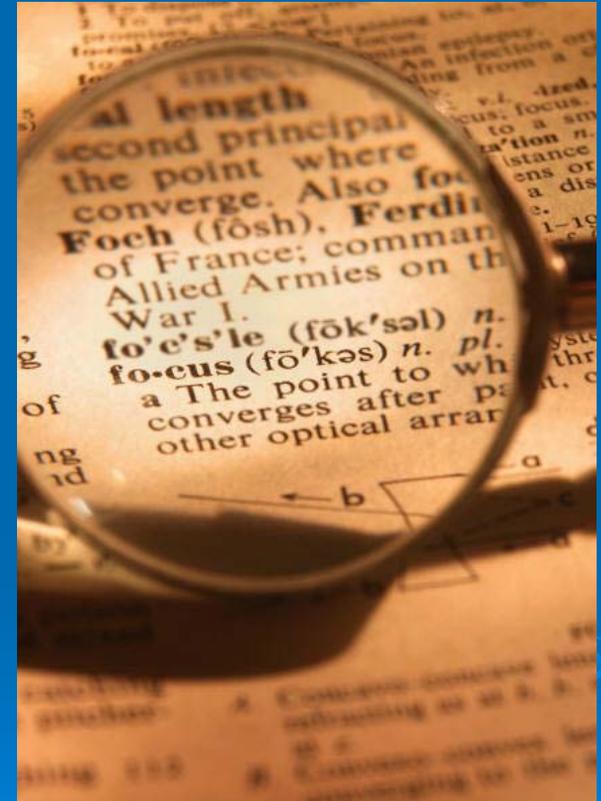
- Improve data mgmt & sharing
- Enhance inter-disciplinary technical analyses
- Develop metrics & sustainability indicators
- Develop CA Water Mgmt Progress Report

➤ Adaptive Management

- Revisit environmental water concept
- Use Living Document approach
- Use multiple & shorter planning horizons
- Identify outdated water codes & laws

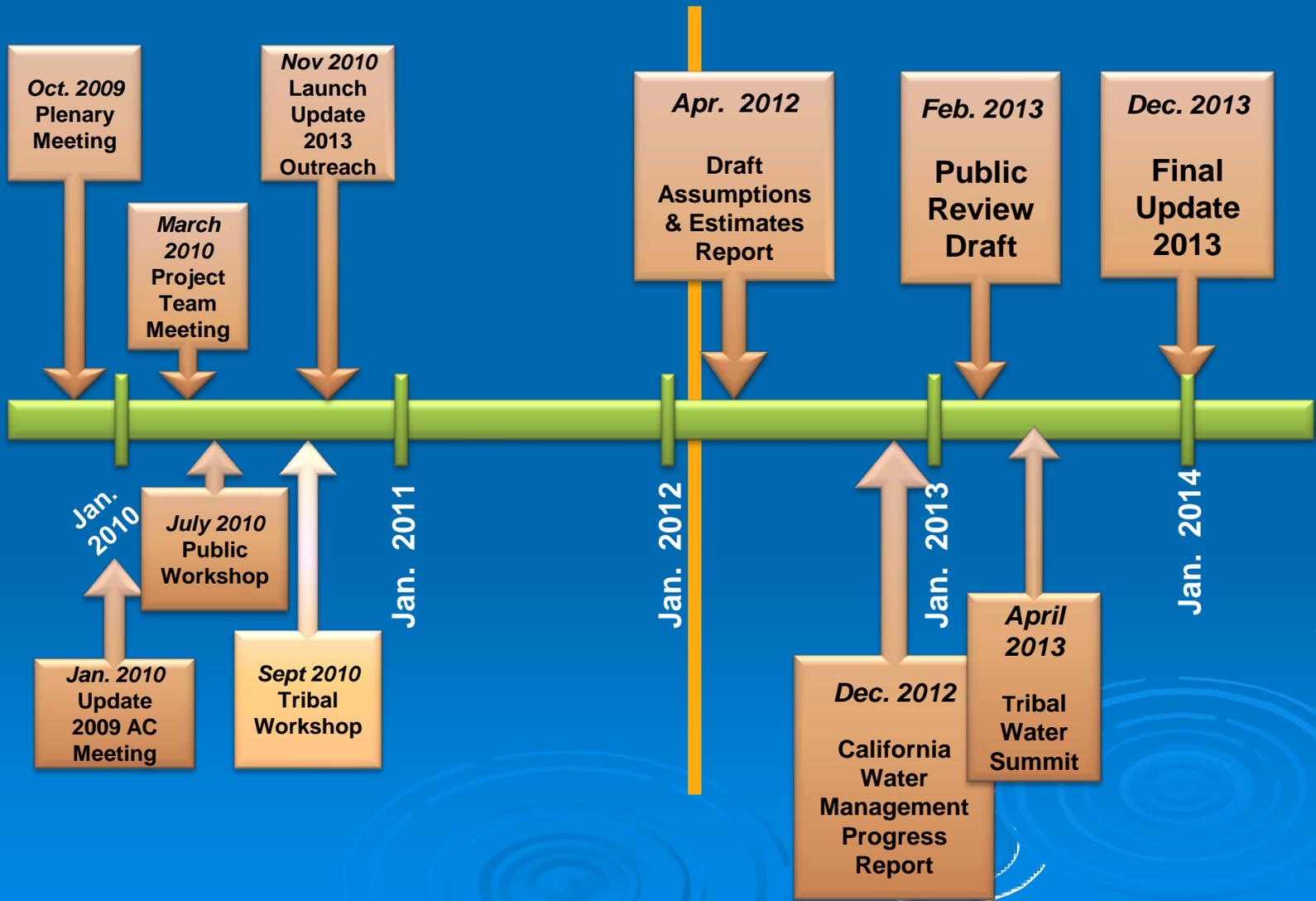
Update 2013 Topic Caucuses & Focus Areas

- 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*
a weekly electronic newsletter
www.waterplan.water.ca.gov/enews