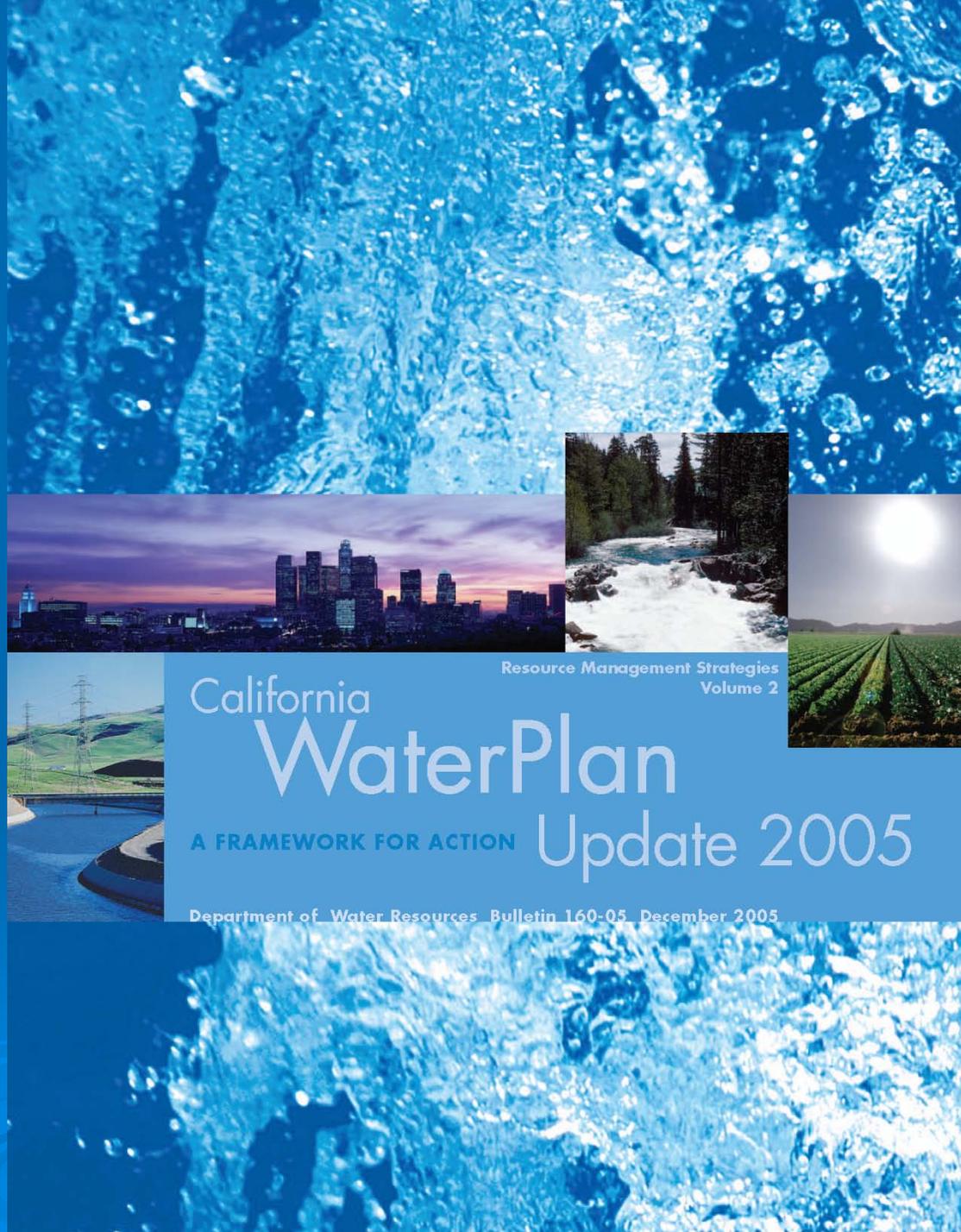


# California Water Plan Update 2009

Where We've Been  
Where We Are Going

South Coast  
Regional Workshop  
Los Angeles  
July 25, 2007



Resource Management Strategies  
Volume 2

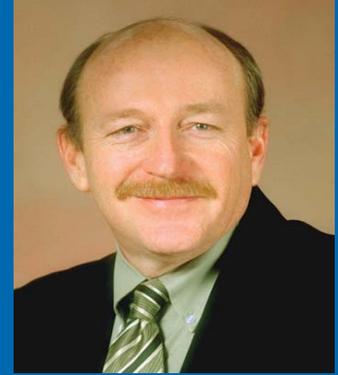
California  
**WaterPlan**  
A FRAMEWORK FOR ACTION Update 2005

Department of Water Resources Bulletin 160-05 December 2005

# Topics

- Update 2005 Overview
  - Providing a foundation
- Update 2009 Process Guide
  - Multiple ways to participate
- Activities & Content
  - Compiling issues & initiatives
- Products, Meetings & Schedule
  - Developing a work plan

# Update 2005 Overview



# Director's Message

*"This is not just another update of the California Water Plan. Update 2005 represents a fundamental transition in how we look at water resource management in California. It also represents a fundamental transition in the way state government needs to be involved with local entities and interest groups to deal with water issues in the state."*

Lester Snow  
April 14, 2005

# New Process

- **Open & transparent public process**
- **Collaborative recommendations**
  - 65 on Advisory Committee
  - 350 in Extended Review Forum
  - 2000 Participants
- **A strategic plan**

Meeting	Number	Person Hours
Advisory committee	43	12,681
Extended review forum & organizational briefings	43	1,558
Workshops	43	3,161
2005 Public comment workshops	15	1,512
Work groups	62	4,271
Tribal outreach	7	69
<b>Totals</b>	<b>197</b>	<b>23,252</b>

# New Features

## ➤ Water Portfolios

- Over 80 data categories of water supply & quality for 1998, 2000 & 2001

## ➤ Regional Reports

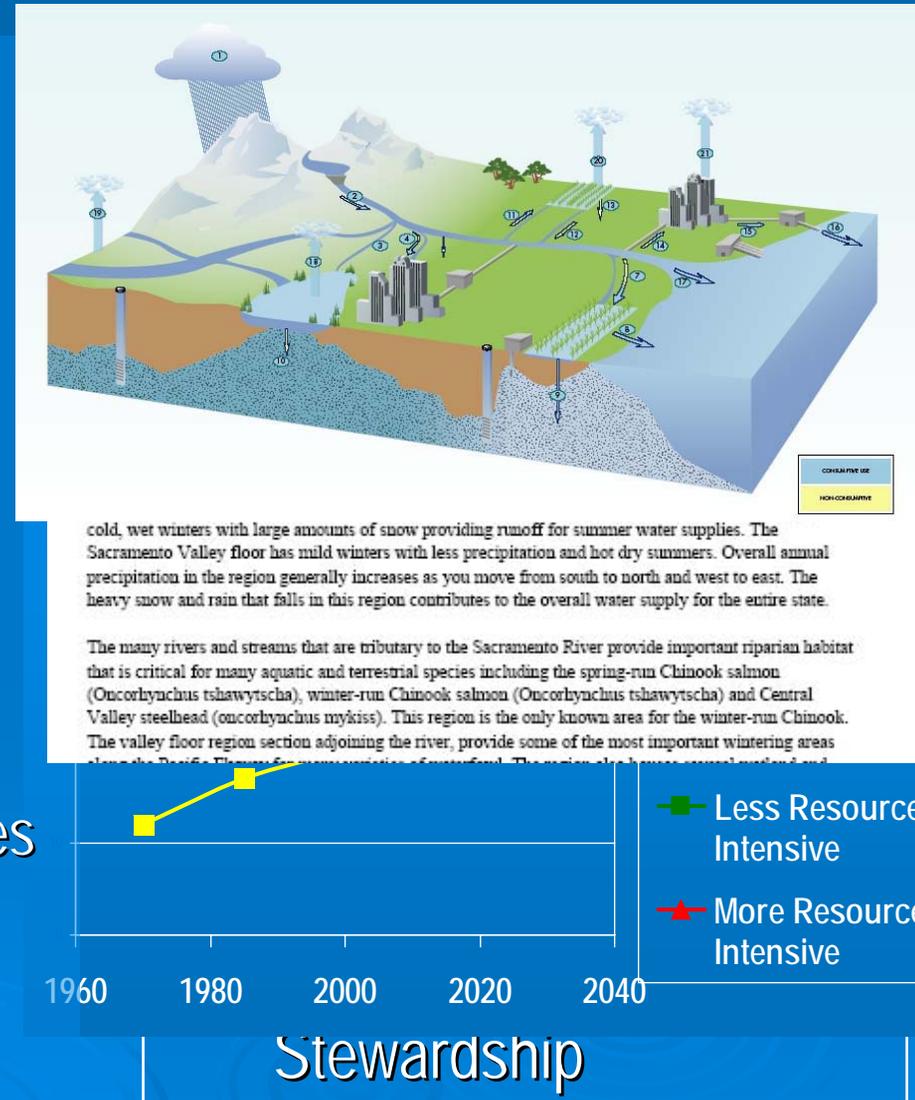
- For 10 hydrologic regions, the Delta, and Mountain Counties

## ➤ Multiple Future Scenarios

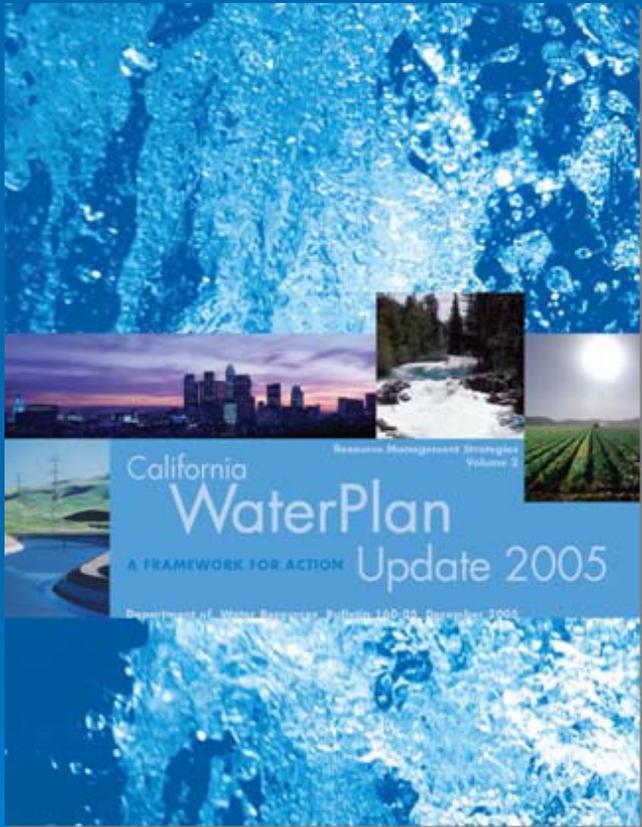
- Plausible yet different base conditions to plan for uncertainties

## ➤ 25 Resource Management Strategies

- Tools for water managers & resource planners to ...



# Water Plan Update Organization



- Introductory Video (8-minutes)
- Water Plan Highlights (with CD & DVD)
- Vol. 1 > Strategic Plan
- Vol. 2 > 25 Resource Management Strategies
- Vol. 3 > 12 Regional Reports
- Vol. 4 > Reference Guide (60+ online articles)
- Vol. 5 > Technical Guide (Online documentation)

# Strategic Plan

----

## A Framework for Action

# Strategic Plan Overview

Vision

Mission

Goals

Recommendations

Implementation Plan

# Framework for Action

## Sustainable & Reliable Water in 2030

Vision



Vital Economy  
Healthy Environment  
High Standard of Living

2 Initiatives  
Ensure Reliable  
Water Supplies



Implement  
Integrated  
Regional Water  
Management

Improve  
Statewide Water  
Management  
Systems

3 Foundational  
Actions Ensure  
Sustainable  
Water Uses



Use  
Water  
Efficiently

Protect  
Water  
Quality

Support  
Environmental  
Stewardship



# Initiative 1

## Implement Integrated Regional Water Management

- Foster regional partnerships
- Develop integrated regional water management plans
- Diversify regional water portfolios using mix of strategies

# Initiative 2

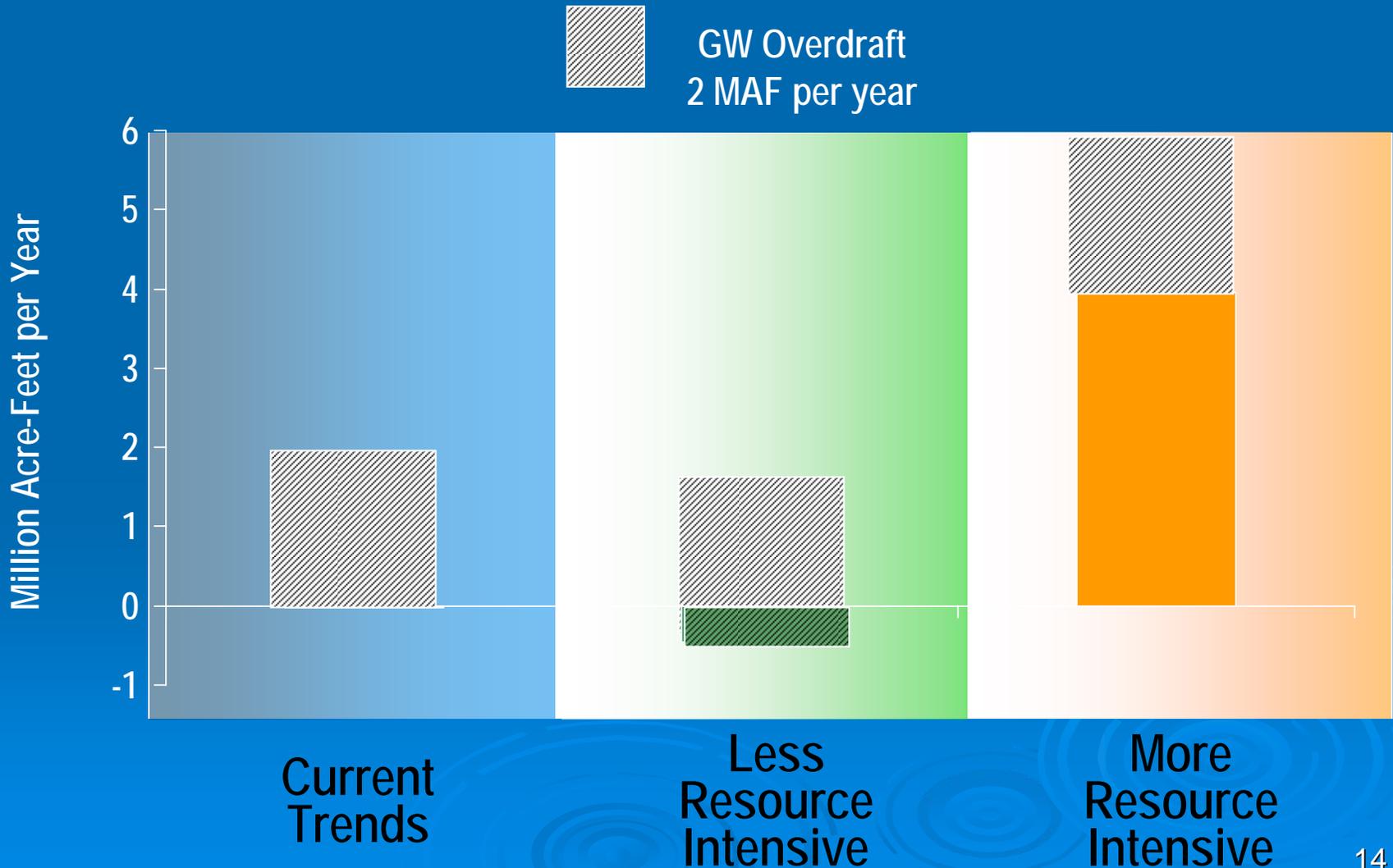
## Improve Statewide Water Management Systems



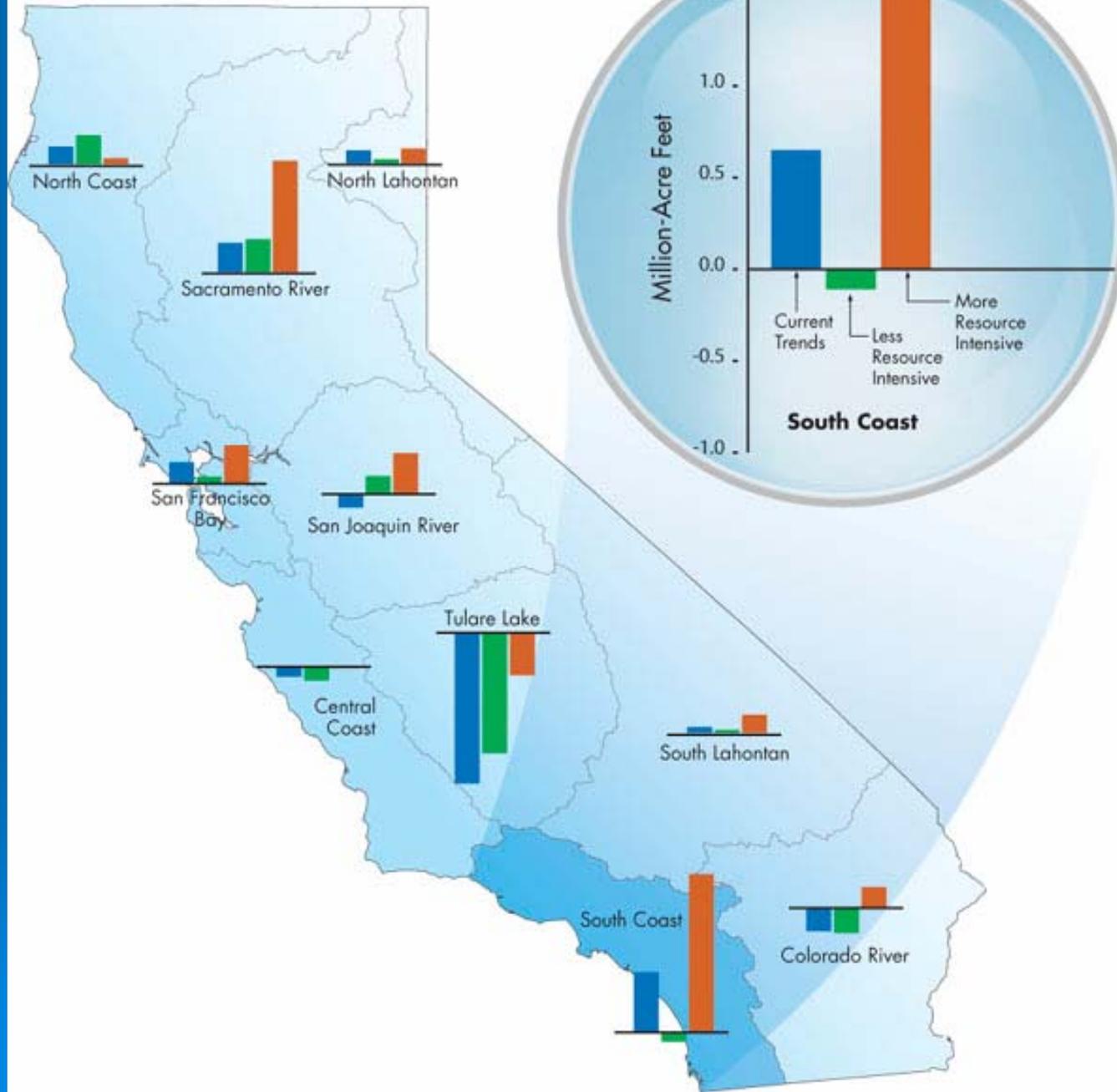
- Improve aging facilities
- Improve flood management
- Sustain the Sacramento-San Joaquin Delta
- Implement CALFED Program
- Implement Statewide Water Management Programs

# Scenarios & Diversifying Water Portfolios

# Scenario Demand Changes Statewide Plus Groundwater Overdraft



# Scenario Demand Changes by Region



# Resource Management Strategies

## Reduce Water Demand

- Agricultural Water Use Efficiency
- Urban Water Use Efficiency

## Improve Operational Efficiency & Transfers

- Conveyance
- 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

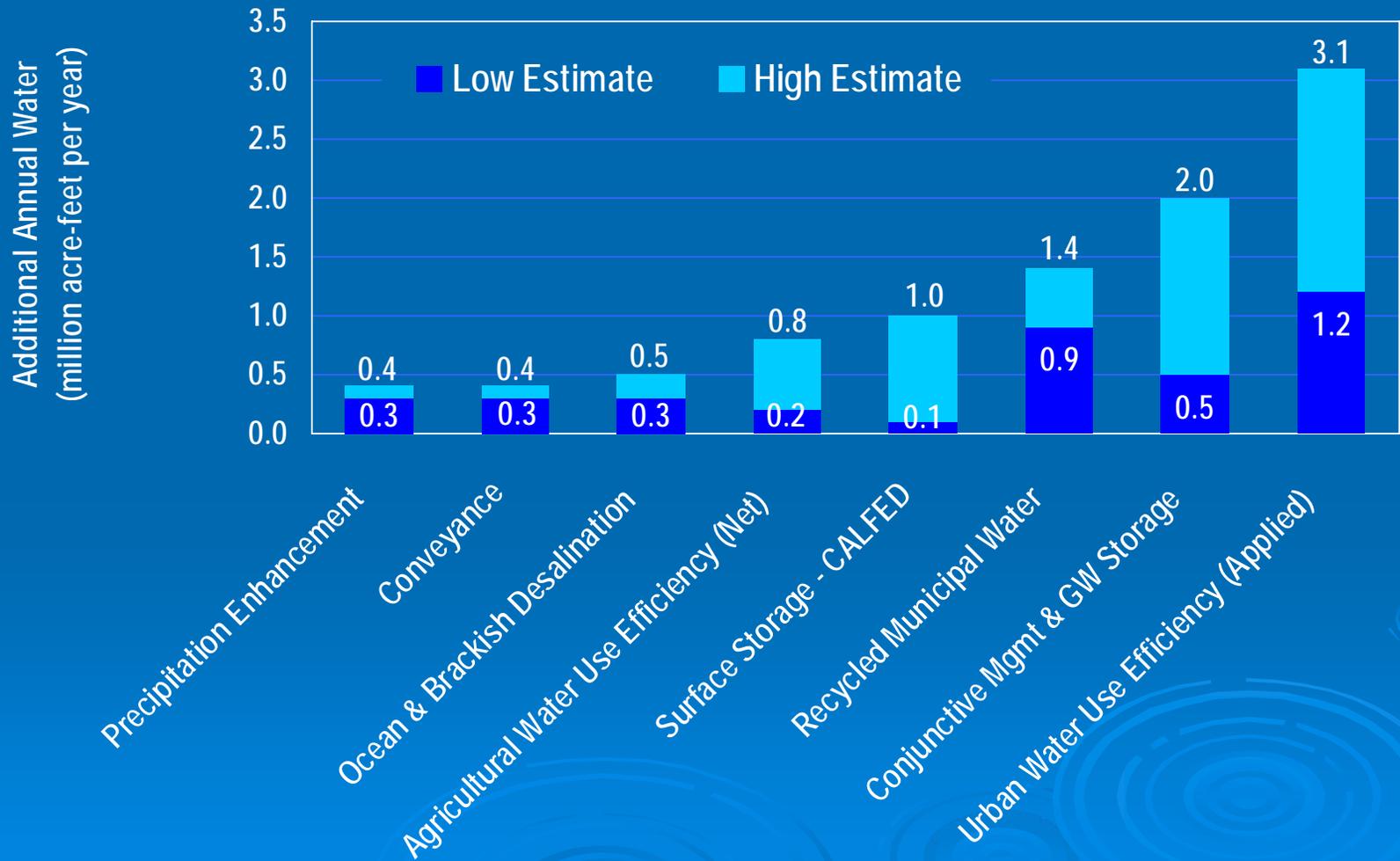
## Improve Water Quality

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

## Practice Resource Stewardship

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

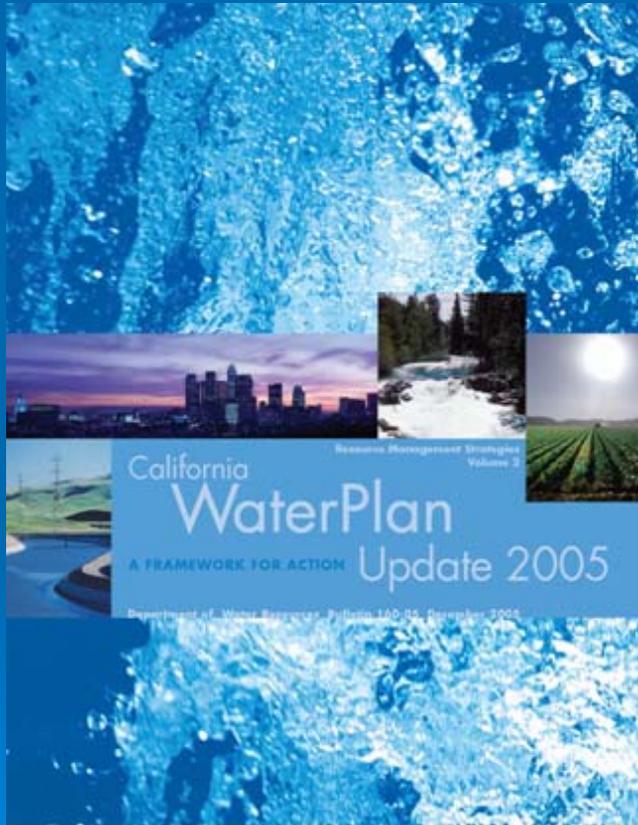
# Range of Additional Water by 2030 for Eight Resource Management Choices



# Update 2009 Process Guide

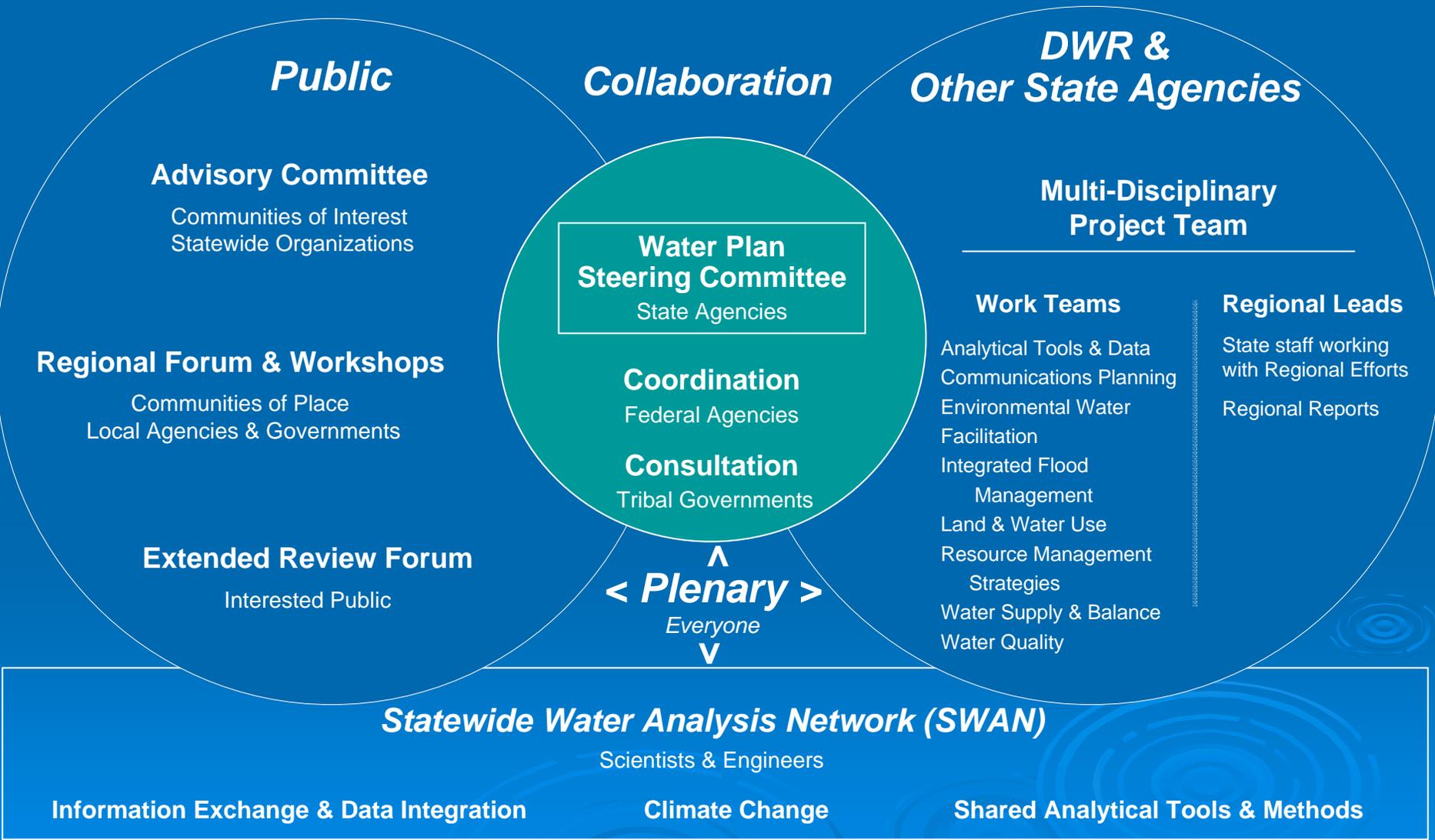
# Update 2005

## Process Recommendations

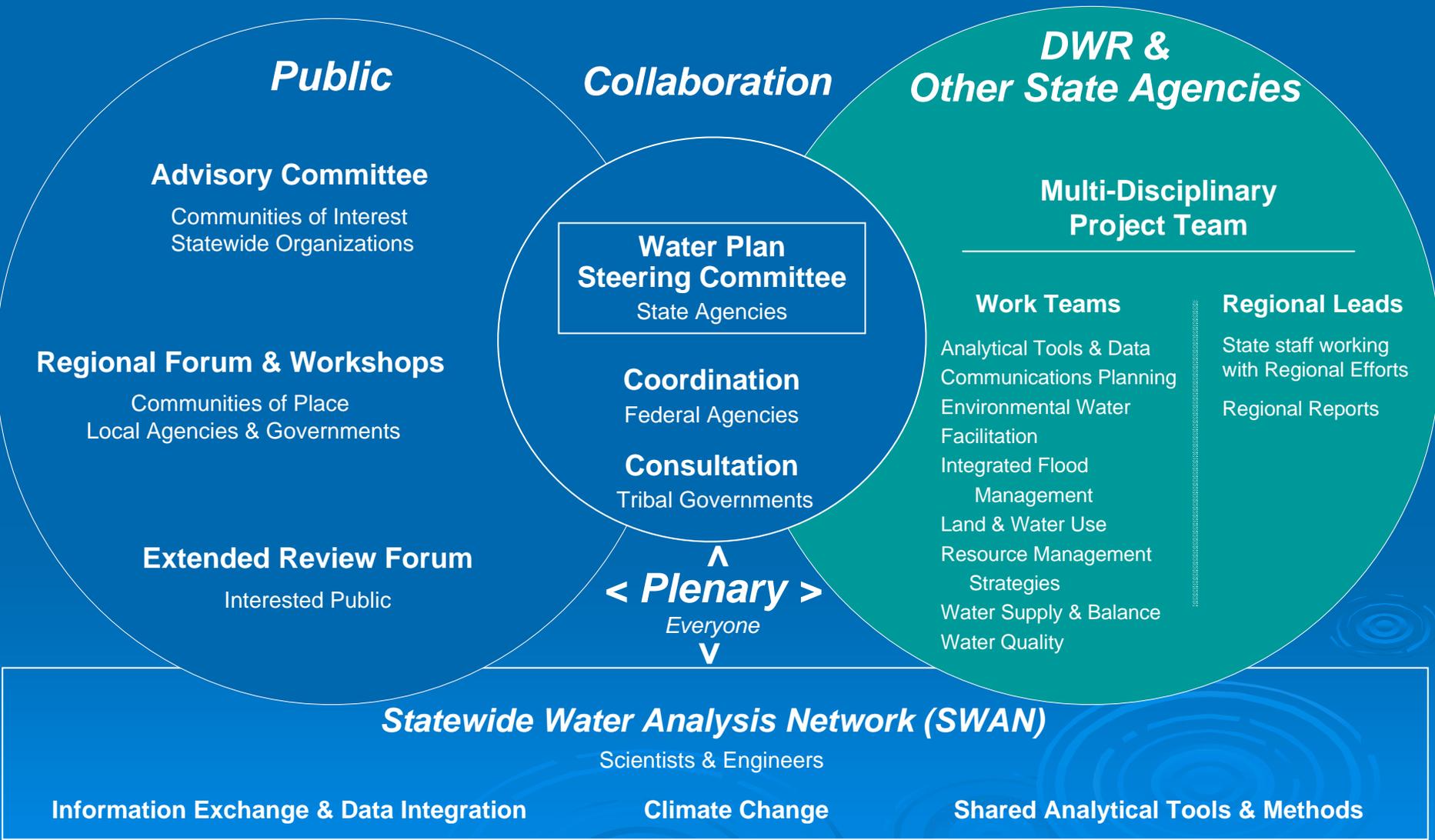


- Expand role & participation of other State agencies
- Expand role & participation of regional planning efforts
- Engage communities of interest & communities of place
- Add a technical advisory group

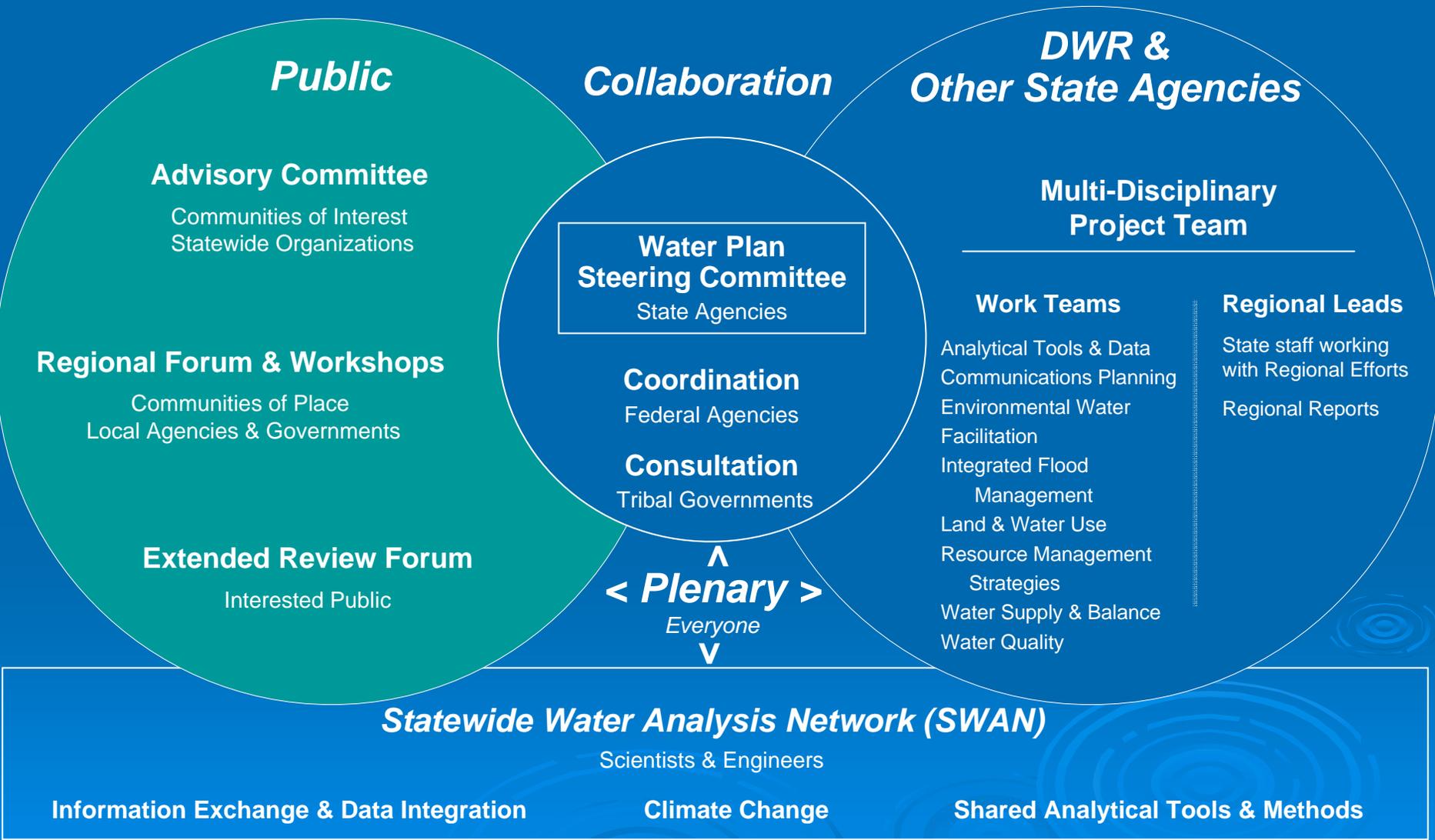
# California Water Plan Update 2009 Process Guide



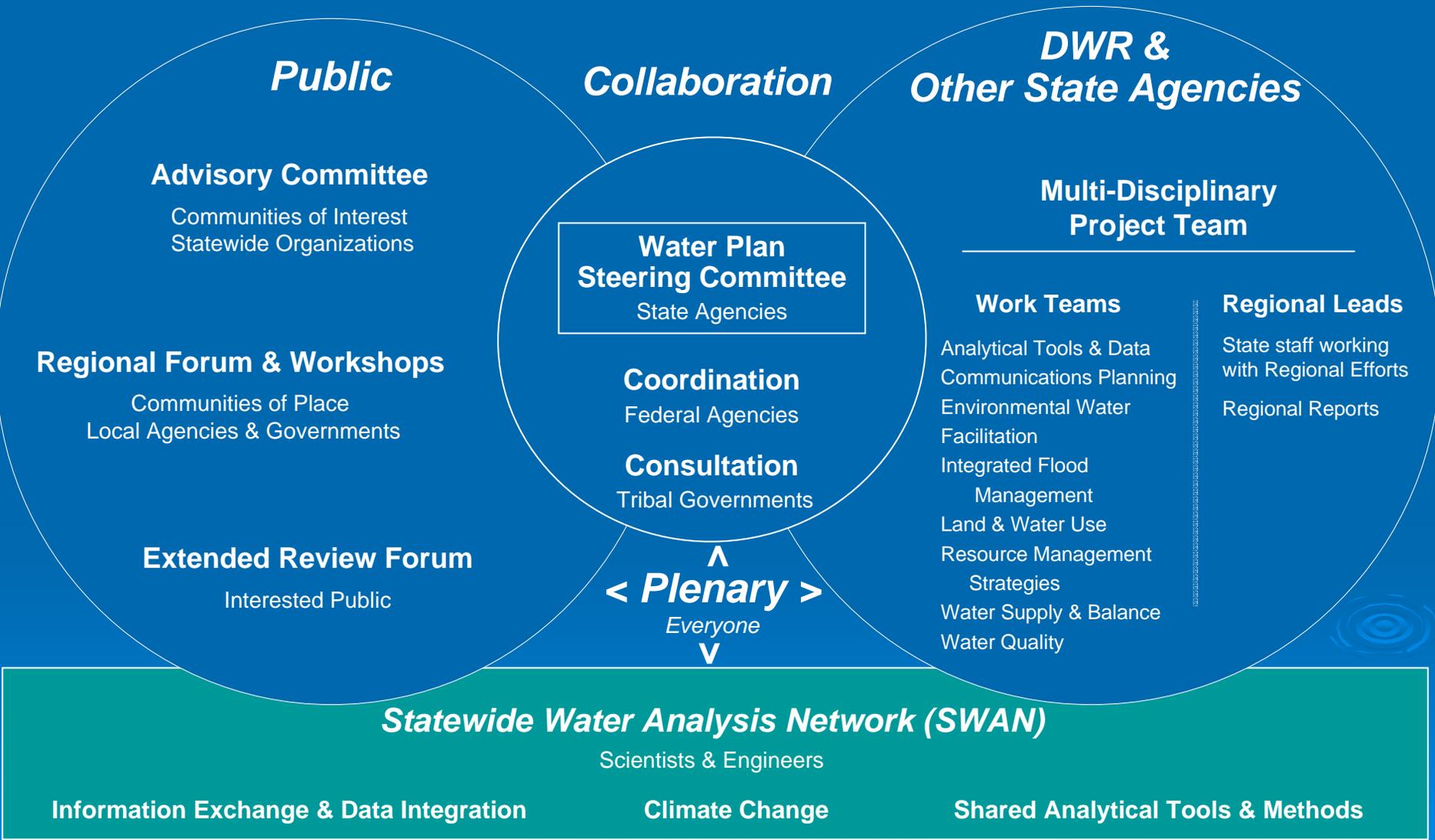
# California Water Plan Update 2009 Process Guide



# California Water Plan Update 2009 Process Guide



# California Water Plan Update 2009 Process Guide



# Steering Committee Members

- Boating & Waterways
- Business, Transportation & Housing
- Cal-Environmental Protection
- CALFED Bay-Delta Program
- California Energy Commission
- California Public Utilities Commission
- Conservation
- Fish & Game
- Food & Agriculture
- Forestry & Fire Protection
- Health Services
- Parks & Recreation
- Office of Planning & Research
- Native American Heritage Commission
- State Lands Commission
- State Water Resources Control Board
- Water Resources

# Advisory Committee Members

## Statewide Organizations – Communities of Interest

\*\* Specified in Water Code

- Business \*\*
- Citizen Organizations
- Energy & Water  
Consumer Advocates
- Environment \*\*  
& Public Trust
- Environmental Justice
- Local Government \*\*  
& Land Use Planning
- Production Agriculture \*\*
- Recreation
- Water Efficiency
- Water Quality  
& Public Health
- Water Suppliers \*\*  
– Agricultural & Urban
- Watershed  
& Floodplain Management

# Regional Workshops & Forums

## Local Agencies & Govts. – Communities of Place

In each region:

- Regionally-based Water Collaboratives
- IRWM Planning Partnerships
- Local Agencies, Governments & Organizations
- State Commissions & Conservancies
- Regional Offices of State & Federal Agencies

# Statewide Water Analysis Network

## Scientists & Engineers

From:

- State Agencies
- Federal Agencies
- Local Agencies
- Non Profit Organizations
- Universities
- Consulting Firms

# Tribal Consultation & Outreach

## Tribal Governments, Organizations & Communities

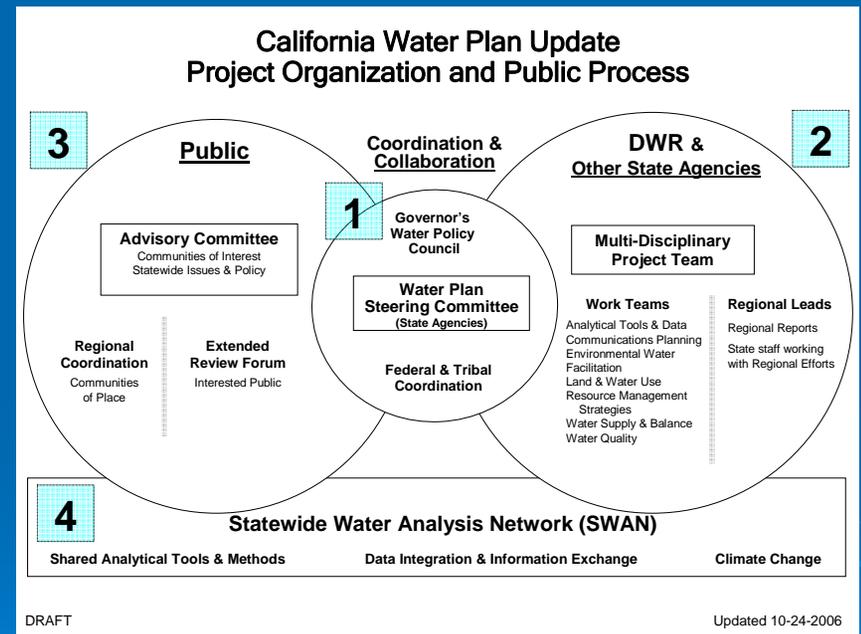
- Inform California tribes of Update 2009 launch & Invite tribes to participate
- Convene a Tribal Water Committee to design & lead the tribal outreach process
- Implement the TWC's Communication Plan to engage tribes in Water Plan activities and other State water planning & grant programs
- Organize a Tribal Water Summit during Update 2009

# Activities & Content

# Update 2009 Activities & Content

## Build on Update 2005

1. Evaluate progress on Update 2005 & Revise the Strategic Plan
2. Update the Future Scenarios & develop Response Packages
3. Quantify Climate Change impacts & recommend Adaptation Actions
4. Update & Expand 12 Regional Reports
5. Update 25 Resource Management Strategies
6. Add Water Portfolio data for 5 years: 1999, 2002 – 2005
7. Improve Analytical Tools, Data & Data Exchange



# Evaluate Progress on Update 2005 & Revise the Strategic Plan

Vision

Mission

Goals

Recommendations

Implementation Plan

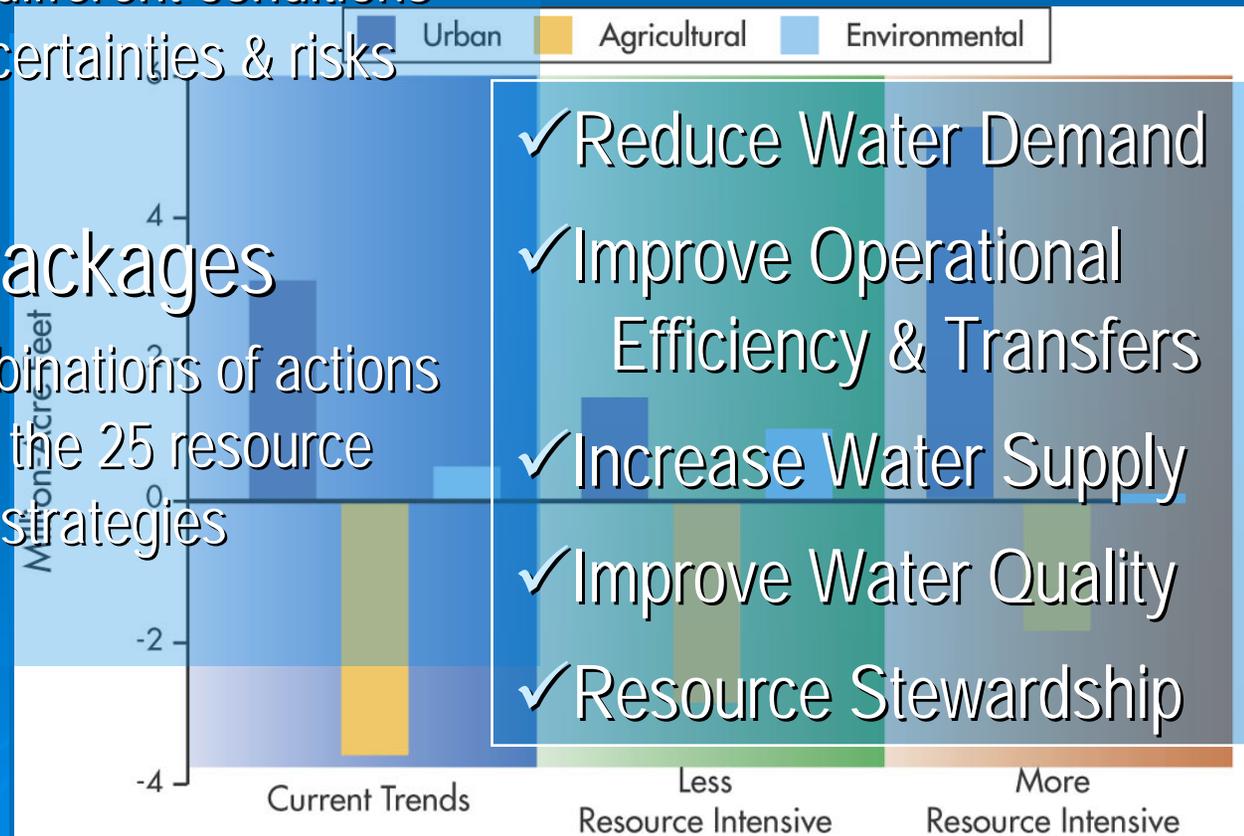
# Update the Future Scenarios & Develop Response Packages

## ➤ Multiple Future Scenarios

- Plausible yet different conditions to plan for uncertainties & risks

## ➤ Response Packages

- Different combinations of actions selected from the 25 resource management strategies



# Quantify Climate Change Impacts & Recommend Adaptation Actions

What risks does climate change pose for the management of California's water resources?



# Update & Expand 12 Regional Reports

- Build on Update 2005 reports
- Engage regional water planning efforts
- Utilize integrated regional water management plans
- Include regional scenarios and response packages



# Update Resource Management Strategies

## Reduce Water Demand

- Agricultural Water Use Efficiency
- Urban Water Use Efficiency

## Improve Operational Efficiency & Transfers

- Conveyance
- System Reoperation
- Water Transfers

## Increase Water Supply

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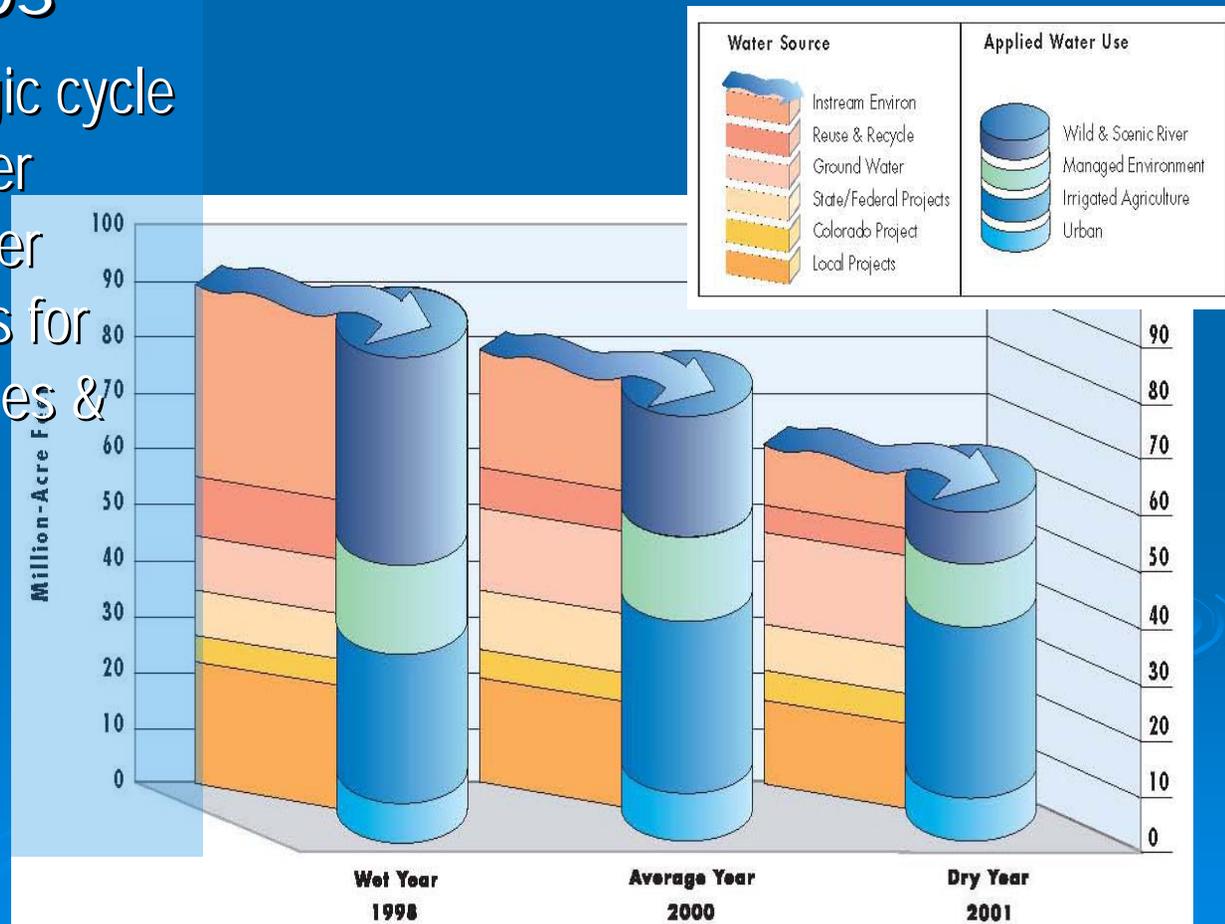
## Practice Resource Stewardship

- Agricultural Lands Stewardship
- Economic Incentives (Loans, Grants, and Water Pricing)
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- Floodplain Management
- Recharge Areas Protection
- Urban Land Use Management
- Water-Dependent Recreation
- Watershed Management

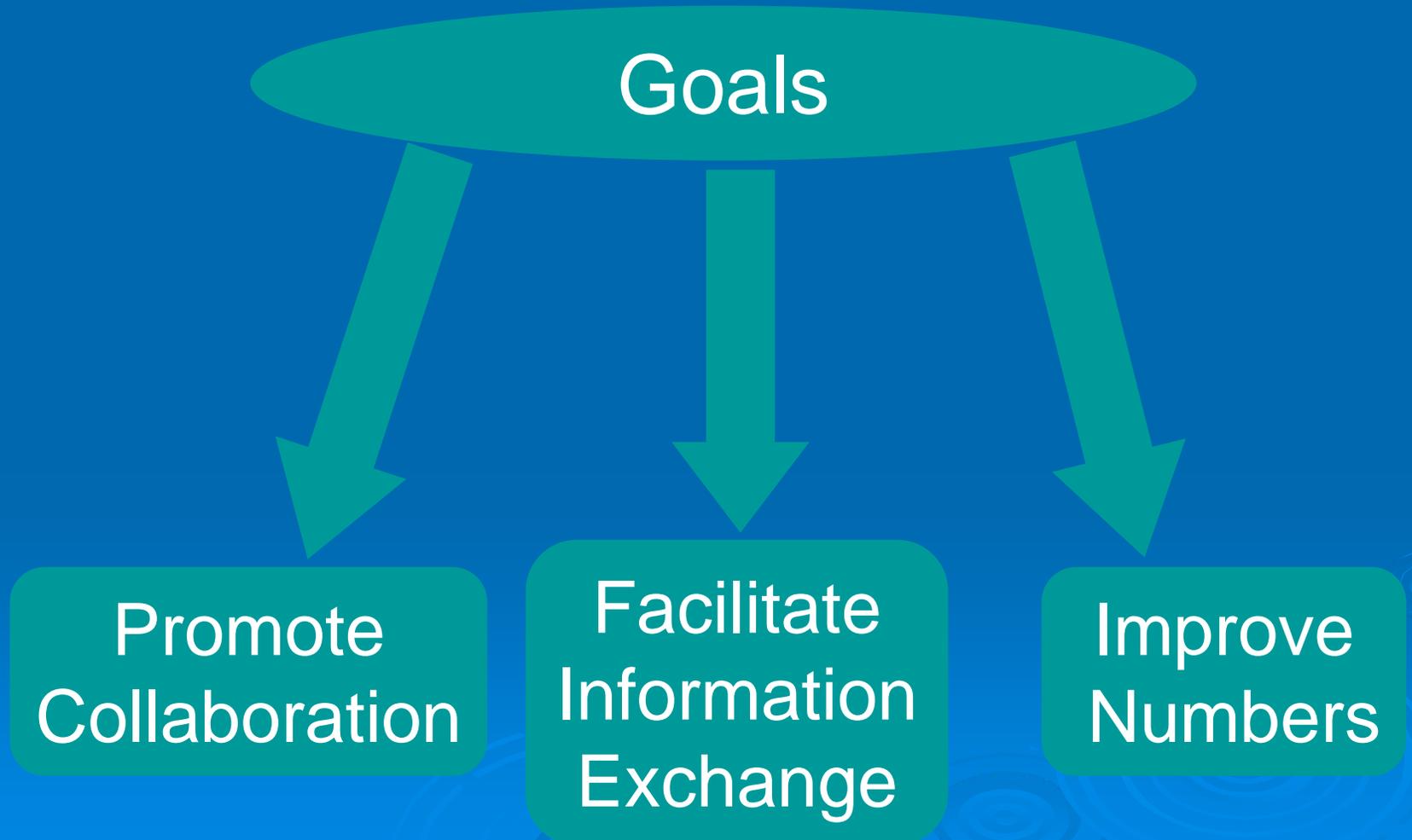
# Add Water Portfolio Data for 5 years: 1999, 2002 – 2005

## ➤ Water Portfolios

- Describe hydrologic cycle and historical water conditions with over 80 data categories for water uses, supplies & water quality

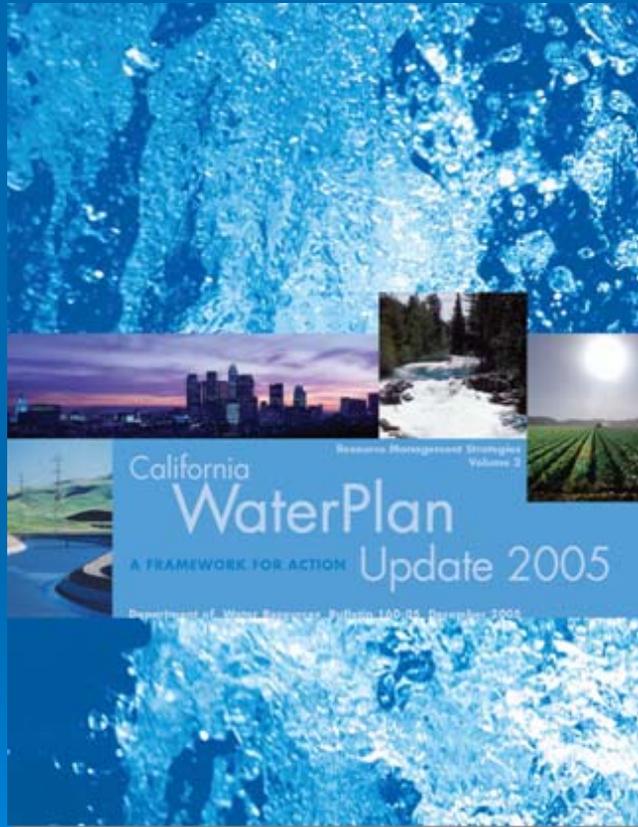


# Improve Analytical Tools, Data & Data Exchange



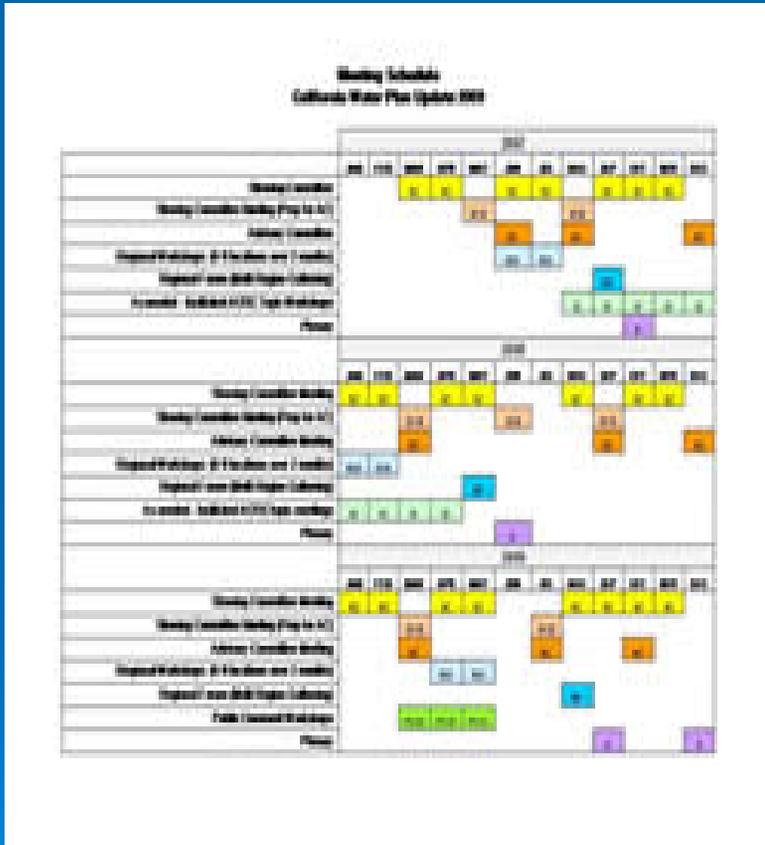
# Products, Meetings & Schedule

# Mandated Products & Due Dates



- Dec. 2007 – Draft Assumptions & Estimates Report
- Dec. 2008 – Public Review Draft Final A&E Report
- Dec. 2009 – Final Water Plan

# Meeting Schedule for 2007 - 2009



- 9 Advisory Committee Meetings
- 25 - 30 Regional Workshops
- 3 Regional Forums (All regions)
- 10 - 15 SWAN Workshops
- Topical Workshops (as needed)
- 4 Plenary Summits (Everyone)
- 15 – 20 Steering Committee Mtgs
- Tribal Consultation Meetings
- Federal Coordination Meetings

## Meeting Schedule California Water Plan Update 2009

	2007											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Steering Committee			SC	SC		SC	SC		SC	SC	SC	
Steering Committee Briefing (Prep for AC)					SCB			SCB				
Advisory Committee						AC		AC				AC
Regional Workshops (8-9 locations over 2 months)						RW	RW					
Regional Forum (Multi Region Gathering)									RF			
As needed - facilitated AC/SC Topic Workshops								W	W	W	W	W
Plenary										P		
	2008											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Steering Committee Meeting	SC	SC		SC	SC			SC		SC	SC	
Steering Committee Briefing (Prep for AC)			SCB			SCB			SCB			
Advisory Committee Meeting			AC						AC			AC
Regional Workshops (8-9 locations over 2 months)	RW	RW										
Regional Forum (Multi Region Gathering)					RF							
As needed - facilitated AC/SC topic meetings	W	W	W	W								
Plenary						P						
	2009											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Steering Committee Meeting	SC	SC		SC	SC			SC	SC	SC	SC	
Steering Committee Briefing (Prep for AC)			SCB				SCB					
Advisory Committee Meeting			AC				AC			AC		
Regional Workshops (8-9 locations over 2 months)				RW	RW							
Regional Forum (Multi Region Gathering)								RF				
Public Comment Workshops			PCW	PCW	PCW							
Plenary									P			P

# Discussion (A)

## Elements of Water Plan of Importance to the Regions

