



C A L I F O R N I A

**Rebuilding the System
Reducing the Risk**

**California Water Plan Plenary Session
October 22-23, 2007**

FloodSAFE California:

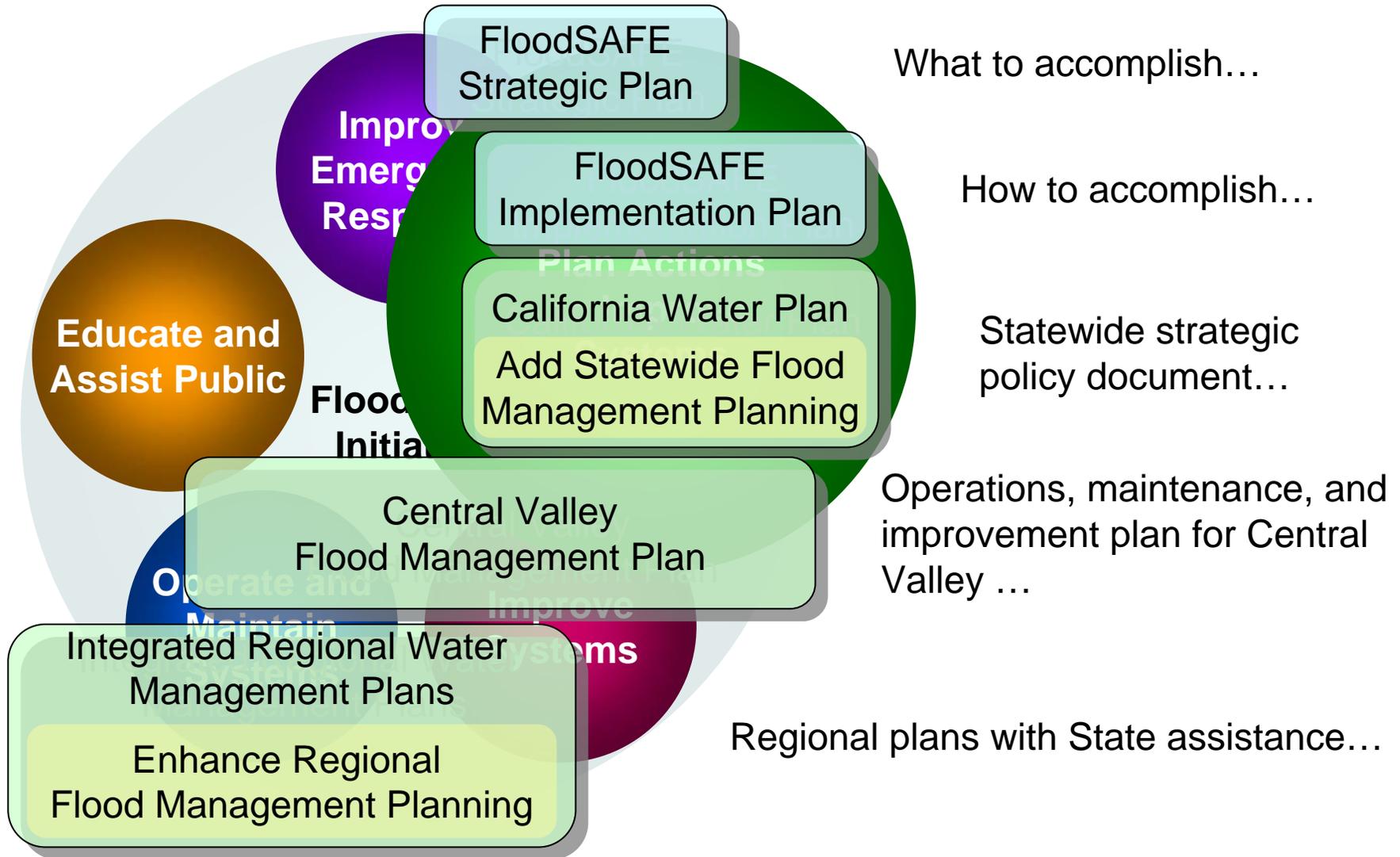
A multi-faceted initiative to improve public safety through integrated flood management

The goals of FloodSAFE California are:

1. Increase flood protection
2. Improve preparedness and response
3. Support a growing economy
4. Enhance ecosystems
5. Promote sustainability



- Statewide Initiative
- 5 Major Efforts
- Primarily funded by Propositions 1E and 84
- Big focus on State-federal system in Central Valley and Delta
- ~10 year effort



FloodSAFE Strategic Plan

DWR leading development now

- What to accomplish
- Who will participate
- Why actions are important
- How to manage decisions and actions

We will conduct public workshops in Q4 2007 to review Strategic Plan

FloodSAFE Implementation Plan

DWR organizing to deliver FloodSAFE

- How to accomplish the Strategic Vision
- Detailed plans to accomplish objectives identified in strategic plan
- DWR to provide leadership – collaborate with others

We will conduct public workshops in Q1 2008 to review

Statewide Flood Management Planning

In connection with California Water Plan

- Statewide strategic policy document for water...
 - Inform long-term policy decisions about flood management
 - Set statewide goals and principles for effective flood risk management
 - Document statewide needs
 - Encourage multi-objective/regional approach to flood risk reduction planning



Resource Management Strategies

<p>Reduce Water Demand</p> <ul style="list-style-type: none"> ➤ Agricultural Water Use Efficiency ➤ Urban Water Use Efficiency 	<p>Improve Operational Efficiency & Transfers</p> <ul style="list-style-type: none"> ➤ Conveyance ➤ System Reoperation ➤ Water Transfers
<p>Improve Water Quality</p> <ul style="list-style-type: none"> ➤ Drinking Water Treatment & Distribution ➤ Groundwater/Aquifer Remediation ➤ Matching Quality to Use ➤ Pollution Prevention ➤ Urban Runoff Management 	<p>Increase Water Supply</p> <ul style="list-style-type: none"> ➤ Conjunctive Management & Groundwater Storage ➤ Desalination – Brackish & Seawater ➤ Precipitation Enhancement ➤ Recycled Municipal Water ➤ Surface Storage – CALFED ➤ Surface Storage - Regional/Local
<p>Practice Resource Stewardship</p> <ul style="list-style-type: none"> ➤ 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 	

Resource Management Strategies identified in the California Water Plan offer *opportunities to advance flood management goals.*

- **Resource Management Strategies:**
Opportunities to Address Flood Management
 - **Improve Operational Efficiency & Transfers**
 - **Conveyance: Potential for Distribution System to Contribute to Flood Flow Conveyance**
 - **Increase Water Supply**
 - **Surface Storage: Operation (or Re-operation) for Flood Storage**



- Resource Management Strategies:
 - Improve Water Quality
 - Urban Runoff Management: **Potential Effects on Flood Hydrograph and Design Flows**
 - Practice Resource Stewardship
 - Agricultural Lands Stewardship
 - Ecosystem Restoration
 - Recharge Areas Protection
 - Watershed Management
- Reduce Flood Volumes and Enhance Post-Flood Recovery**

- Resource Management Strategies:
 - Practice Resource Stewardship



Floodplain Management:
Structural and
Non-Structural Flood
Management Projects and
Programs

- Resource Management Strategies:
 - Practice Resource Stewardship (cont'd)



Urban Land Use
Management:
Reduce the Potential for
Flood Events, Reduce
Flood Peaks, and
Contribute to Recovery
after Flood Events

Central Valley Flood Management Plan



Required plan for State-federal Flood Management System in the Central Valley

- State serves a special role with this system
- Includes extensive stakeholder involvement process
- Use new information being gathered
- Plan improvements from system-wide perspective
- Will be consistent with statewide goals and principles

Regional Flood Management Planning

Enhance Regional Water Management Plans

- Many regions have completed or begun IRWM Plans
- Want to enhance flood management components
- Will take advantage of other local and regional flood related plans
- Will offer planning grants to assist regional efforts



New Effort!

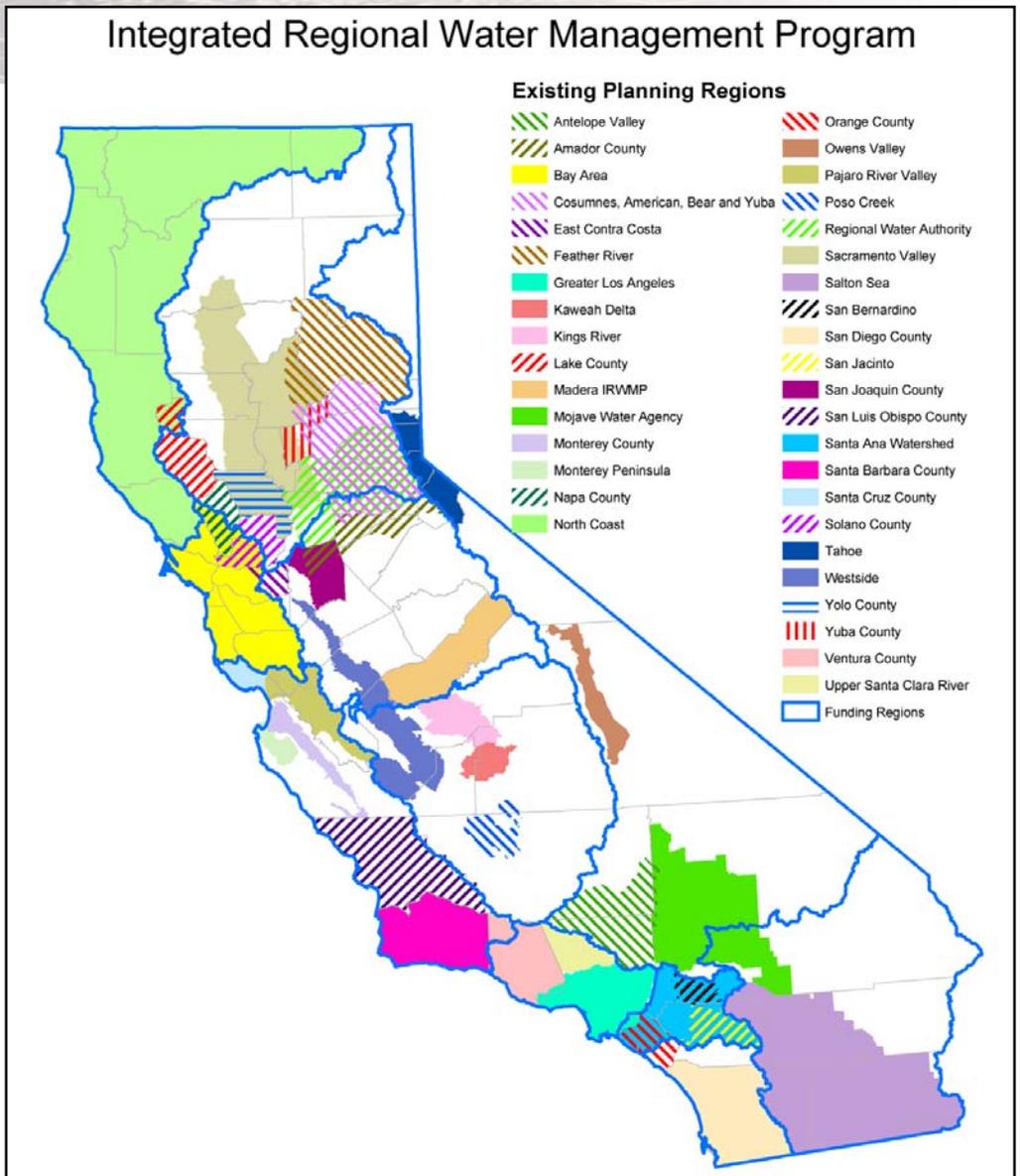
Regional Flood Management Planning will:

- Encourage neighboring communities to work together on a regional (ideally watershed) basis to address mutual flood hazards over the next 25 years;
- Help communities identify future structural and nonstructural flood mitigation strategies and measures;
- Develop a “road map” leading to more flood-resistant communities; and
- Assist local agencies and the State in defining future flood management needs and costs.

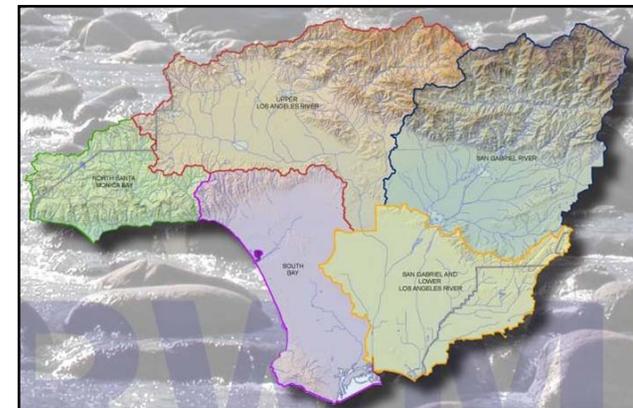
- Regional Flood Management Planning will be supported through the Integrated Regional Water Management (IRWM) planning process and will expand the Flood Management component of IRWM Plans.

- Draw upon existing plans:
 - OES/FEMA Local Multi-Hazard Plans
 - FEMA/CRS Floodplain Management Plans
 - Community or Local District Flood Management Plans
 - Community General Plans
 - Watershed Management Plans

IRWM Planning Regions / Funding Areas



- IRWM Major Plan Elements:
Opportunities to Address Flood Management
 - Regional Agency or Group
 - Flood Management Agencies / Local Districts
 - Regional Description
 - Why is the Region Appropriate?
 - Hydrologic Basis?
 - Objectives
 - For Next Round: Quantified?
 - Flood Protection Levels (e.g., 200-year)



- IRWM Plan Elements (cont'd):
 - Resource Management Strategies: including flood
 - Integration
 - Regional Priorities: including flood management
 - Implementation
 - Impacts and Benefits: flood damage reduction
 - Technical Analysis and Plan Performance
 - Data Management

- IRWM Plan Elements (cont'd):
 - Financing
 - Relation to Local Planning: including local flood plans
 - Stakeholder Involvement: flood management
 - (Agency) Coordination: OES, FEMA, etc.



**Plan Actions
to Improve
Systems**

FloodSAFE
Strategic Plan

What to accomplish...

FloodSAFE
Implementation Plan

How to accomplish...

California Water Plan
Add Statewide Flood
Management Planning

Statewide strategic
policy document...

Central Valley
Flood Management Plan

Operations, maintenance, and
improvement plan for Central
Valley ...

Integrated Regional Water
Management Plans
Enhance Regional
Flood Management Planning

Regional plans with State assistance...



- Statewide Initiative
- 5 Major Efforts
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Additional FloodSAFE Activities

- Flood Protection Corridor
- Floodway Corridor
- Local Levee Urgent Repairs
- Local Levee Evaluations
- Urban Streams Restoration



Additional FloodSAFE Activities

- Stormwater Flood Management
- Statewide Levee Database
- Statewide Needs Inventory
- Feasibility Studies



What we've heard...

- Broad support for increased integration
- Concern about level of flood management technical expertise on the Water Plan AC
- Flood management crosses political and administrative boundaries
- Tribal interests are key players
- Increased access/easements will involve compensation of landowners
- Who pays for flood management facilities?

What we've heard...

- Identify linkages and gaps in water/flood planning
- Standardize policy guidelines and data
- Integrate land use and local planning with water/flood management
- Increase discussion of emergency response, particularly in the Delta
- Involve federal, regional, and local agencies

What we've heard...

- Include stormwater management IRWM BMPs
- Consider watershed and environmental protection
- Consider reservoir sedimentation
- Increase public awareness
- Update mapping of floodplains, groundwater recharge areas, and water flows

For updates or additional information,
please visit:

www.floodsafe.water.ca.gov

www.waterplan.water.ca.gov

www.grantsloans.water.ca.gov

You may also reach us by email:

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QUESTIONS?