

# Overview of the Central Valley Flood Protection Plan

## Presentation to the Delta Stewardship Council July 28, 2016

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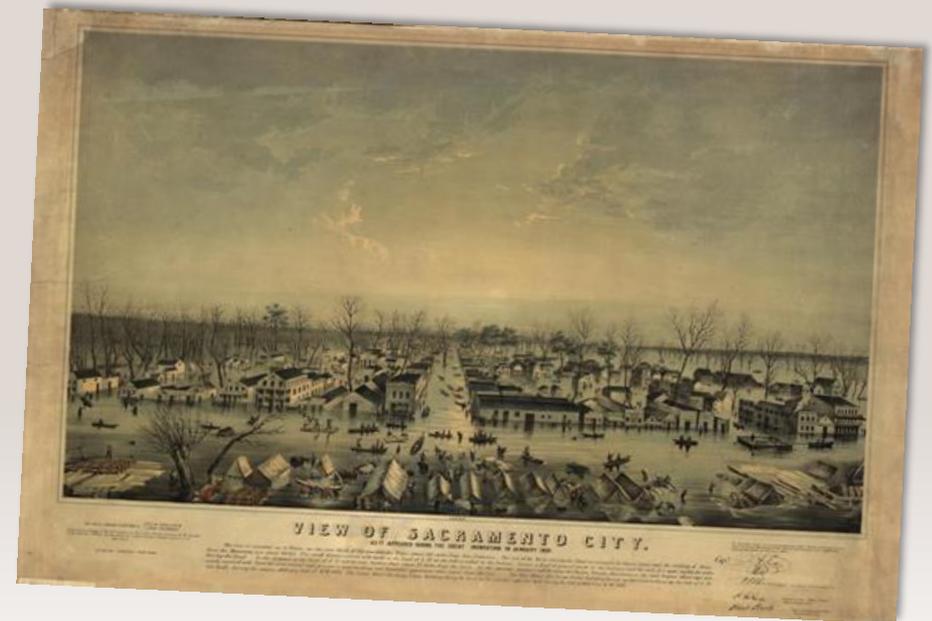
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# Today's Discussion

## Where We've Been

- Central Valley Flood Protection Plan (CVFPP) Purpose and Scope

## Where We Are

- 2017 Update to the CVFPP

## Where We're Going

- Formal Public Review and Adoption Timeline



# Where We've Been

## CVFPP Purpose and Scope

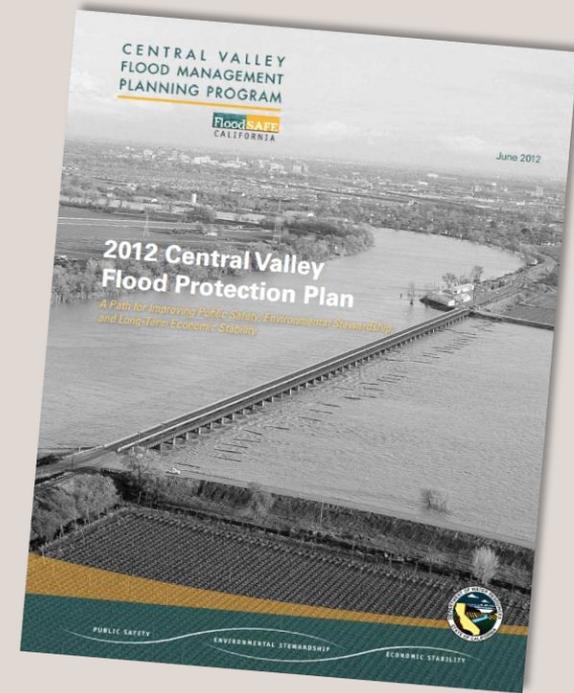


2017 ROADMAP



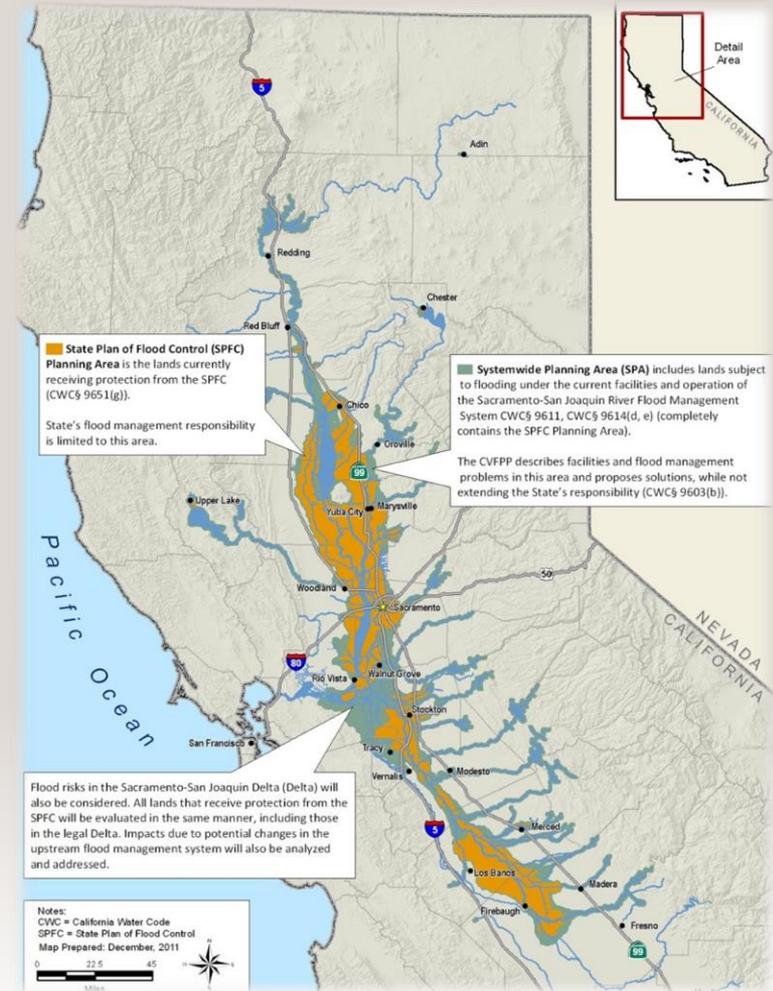
# Why We Have a CVFPP

- Strategic blueprint to improve flood risk management in Sacramento/San Joaquin river basins
- Provides recommendations to guide near- and long-term state activities within State Plan of Flood Control (SPFC) floodplains
- A programmatic plan, not a funding or permitting decision
- Dynamic plan, updated in five year cycles – first “Update” in 2017



# CVFPP Scope

- Scope defined by Central Valley Flood Protection Act of 2008
- Focuses on lands protected by facilities of State Plan of Flood Control (SPFC)
- SPFC defined in Water Code
- Coordinates and aligns with other major flood management efforts and related resources



# CVFPP Goals

- Meet 2008 Legislative requirements
- Formulated and adopted in 2012
- Same goals apply for 2017 Update

## CVFPP GOALS

### Primary Goal: Improve flood risk management

Reduce the chance of flooding

Reduce damages once flooding occurs

Improve public safety, preparedness, and emergency response

### Supporting Goals

Improve Operations and Maintenance

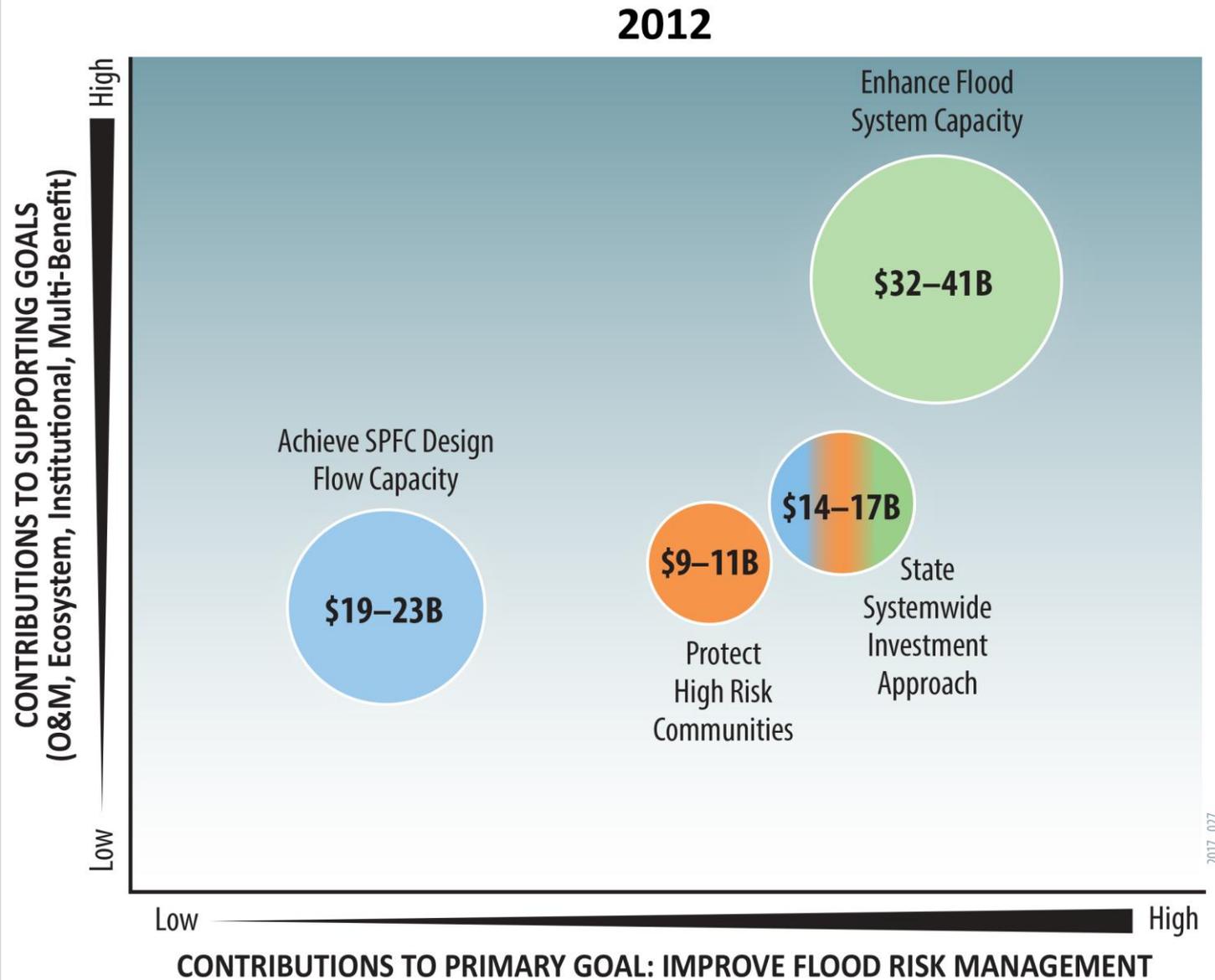
Promote Ecosystem Functions

Promote Multi-benefit Projects

Improve Institutional Support

# Key Outcome of CVFPP

## State Systemwide Investment Approach



# Key Physical/Operational Elements in SSIA

FLOOD MANAGEMENT ELEMENT	PROJECT LOCATION OR REQUIRED COMPONENTS	ACHIEVE SPFC DESIGN FLOW CAPACITY	PROTECT HIGH RISK COMMUNITIES	ENHANCE FLOOD SYSTEM CAPACITY		STATE SYSTEMWIDE INVESTMENT APPROACH
Urban Improvements						
Target 200-Year Level of Protection	Selected projects developed by local agencies, State, federal partners		YES	YES	→	YES
Target SPFC Design Capacity	Urban Levee Evaluations Project results	YES <sup>2</sup>				

*CVFPP Table 3.2 Major Physical and Operational Elements of Preliminary Approaches and State Systemwide Investment Approach*

# Financing SSIA

FLOOD MANAGEMENT PROGRAMS		FLOOD EMERGENCY RESPONSE		FLOOD SYSTEM OPERATIONS AND MAINTENANCE		FLOODPLAIN RISK MANAGEMENT		FLOOD SYSTEM ASSESSMENT, ENGINEERING, FEASIBILITY, AND PERMITTING		FLOOD RISK REDUCTION PROJECTS		TOTAL	
		Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
2007-2011	State	\$64		\$180		\$99		\$257		\$1,032		\$1,632	
	Federal <sup>1</sup>	-		-		-		\$160		\$620		\$780	
	Local	-		-		-		\$40		\$450		\$490	
	<b>Subtotal</b>	<b>\$64</b>		<b>\$180</b>		<b>\$99</b>		<b>\$457</b>		<b>\$2,102</b>		<b>\$2,902</b>	
2012-2017	State	\$130 to \$140		\$30 to \$60		\$30 to \$40		\$170 to \$200		\$1,140 to \$1,300		\$1,500 to \$1,730	
	Federal	-		\$20 to \$40		\$70 to \$90		\$230 to \$270		\$1,190 to \$1,340		\$1,500 to \$1,740	
	Local	-		\$10 to \$10		-		\$50 to \$60		\$140 to \$220		\$190 to \$290	
	<b>Subtotal</b>	<b>\$130 to \$140</b>		<b>\$60 to \$110</b>		<b>\$100 to \$130</b>		<b>\$450 to \$530</b>		<b>\$2,470 to \$2,860</b>		<b>\$3,210 to \$3,770</b>	
2018 and Beyond	State	\$290 to \$310		\$20 to \$50		\$60 to \$120		\$270 to \$420		\$2,630 to \$3,440		\$3,270 to \$4,340	
	Federal	-		\$130 to \$160		\$340 to \$450		\$590 to \$740		\$3,090 to \$4,020		\$4,150 to \$5,370	
	Local	-		\$50 to \$60		-		\$120 to \$150		\$230 to \$320		\$410 to \$530	
	<b>Subtotal</b>	<b>\$290 to \$310</b>		<b>\$200 to \$270</b>		<b>\$400 to \$570</b>		<b>\$980 to \$1,310</b>		<b>\$5,950 to \$7,780</b>		<b>\$7,830 to \$10,240</b>	
Total	State	\$480 to \$510		\$230 to \$290		\$190 to \$260		\$700 to \$880		\$4,800 to \$5,770		\$6,400 to \$7,700	
	Federal	-		\$150 to \$200		\$410 to \$540		\$980 to \$1,170		\$4,900 to \$5,980		\$6,430 to \$7,890	
	Local	-		\$60 to \$70		-		\$210 to \$250		\$820 to \$990		\$1,090 to \$1,310	
	<b>Subtotal</b>	<b>\$480 to \$510</b>		<b>\$440 to \$560</b>		<b>\$600 to \$800</b>		<b>\$1,890 to \$2,300</b>		<b>\$10,520 to \$12,740</b>		<b>\$13,920 to \$16,910</b>	

*CVFPP Table 4-3. State Systemwide Investment Approach Range of Investments over Time (\$ Millions)*

# Where We Are

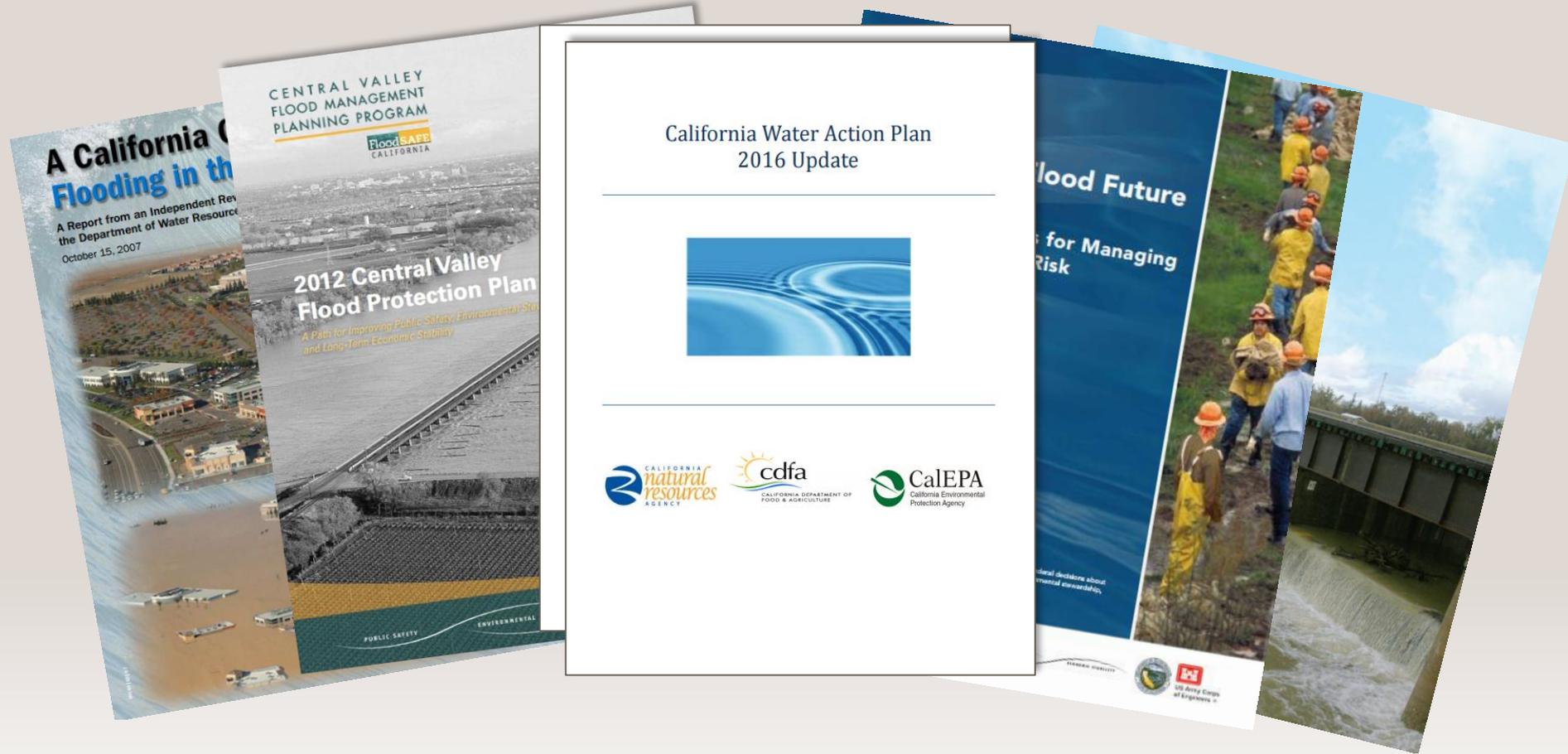
## 2017 Update to the CVFPP



2017 ROADMAP



# 2017 Update Policy Drivers

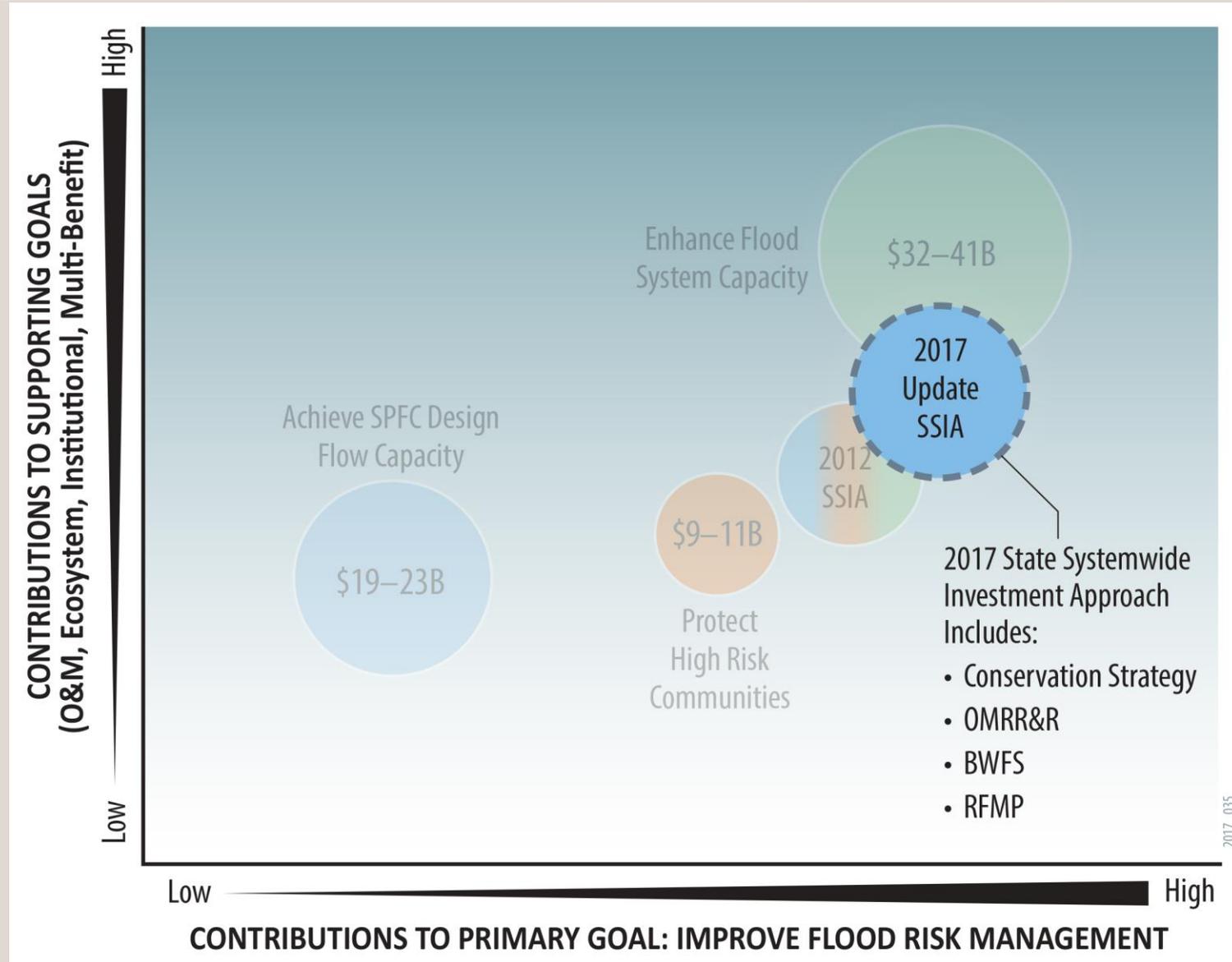


# Relationship to California Water Action Plan

**Table 3. CVFPP Relationship to California Water Action Plan**

CWAP Actions	CVFPP Contribution
1. Make conservation a California way of life	
2. Increase regional self-reliance and integrated water management across all levels of government	Action 2: CVFPP identified multi-benefit portfolios (Chapter 3) of investment that include IWM actions across local, regional, and State entities.
3. Achieve the co-equal goals for the Delta	Action 4: CVFPP Conservation Strategy identifies measurable ecosystem restoration objectives, and CVFPO investment portfolios include ecosystem improvements.
4. Protect and restore important ecosystems	
5. Manage and prepare for dry periods	Action 6: Sacramento and San Joaquin BWFS identify water flood storage related improvements (Chapter 3) as well as management actions to improve groundwater recharge .
6. Expand water storage capacity and improve groundwater management	Action 8: Increasing flood protection related to the primary goal of CVFPP.
7. Provide safe water for all communities	Action 9: The CVFPP Conservation Strategy addresses regulatory issues and efficiency; The OMRR&R report report addresses flood operations and regulatory needs and efficiencies.
8. Increase flood protection	
9. Increase operational and regulatory efficiency	Action 10: The CVFPP Investment Strategy (Chapters 4 and 5) addresses sustainable financing needs and strategies.
10. Identify sustainable and integrated financing opportunities	

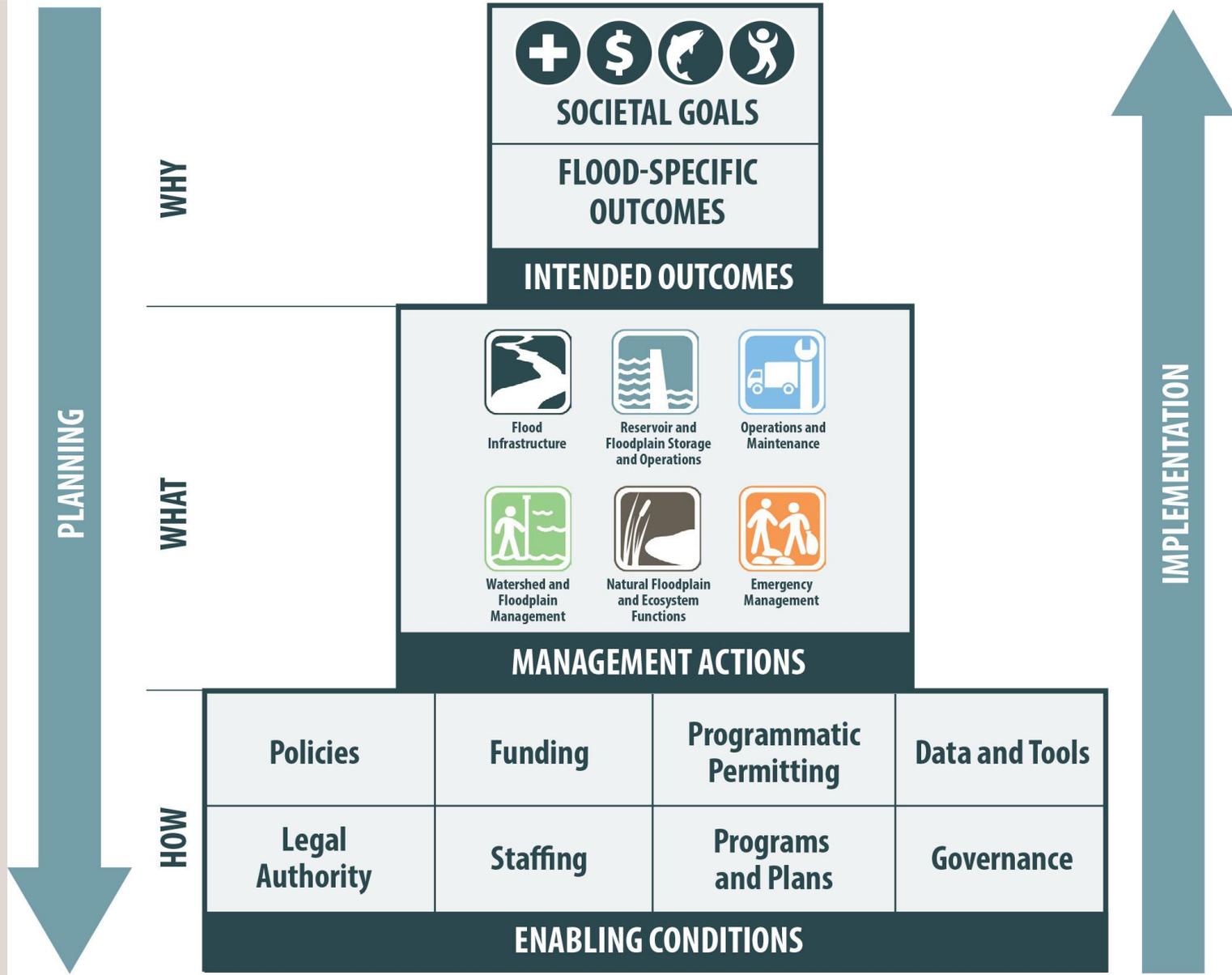
# Refinements to the SSIA in 2017 Update



# Levels of Study

- Conceptual Level
- Appraisal Level
- Feasibility Level
- Site-Specific
- Design-Level
- Plans and Specifications

# Interacting Levels of Flood Management



# WHY: Flood Specific Intended Outcomes



Public  
Safety



Economic  
Stability



Ecosystem  
Vitality



Enriching  
Experiences



# Public Safety Intended Outcomes



Minimize lives exposed to potential flooding



Reduce human vulnerability to oncoming floodwaters



Increase system performance in populous areas



# Economic Stability Intended Outcomes



Minimize economic exposure to potential flooding



Reduce economic vulnerability to damages when flooding occurs



Increase system performance for economically developed areas



Produce or maintain economic benefits on floodplains

# Ecosystem Vitality Intended Outcomes



Generally promote ecosystem function



Increase the quantity of functional floodplain and associated riverine habitats



Increase and maintain the abundance and diversity of floodplain dependent native species

# Enriching Experiences Intended Outcomes



Provide recreational benefits



Support societal / aesthetic values

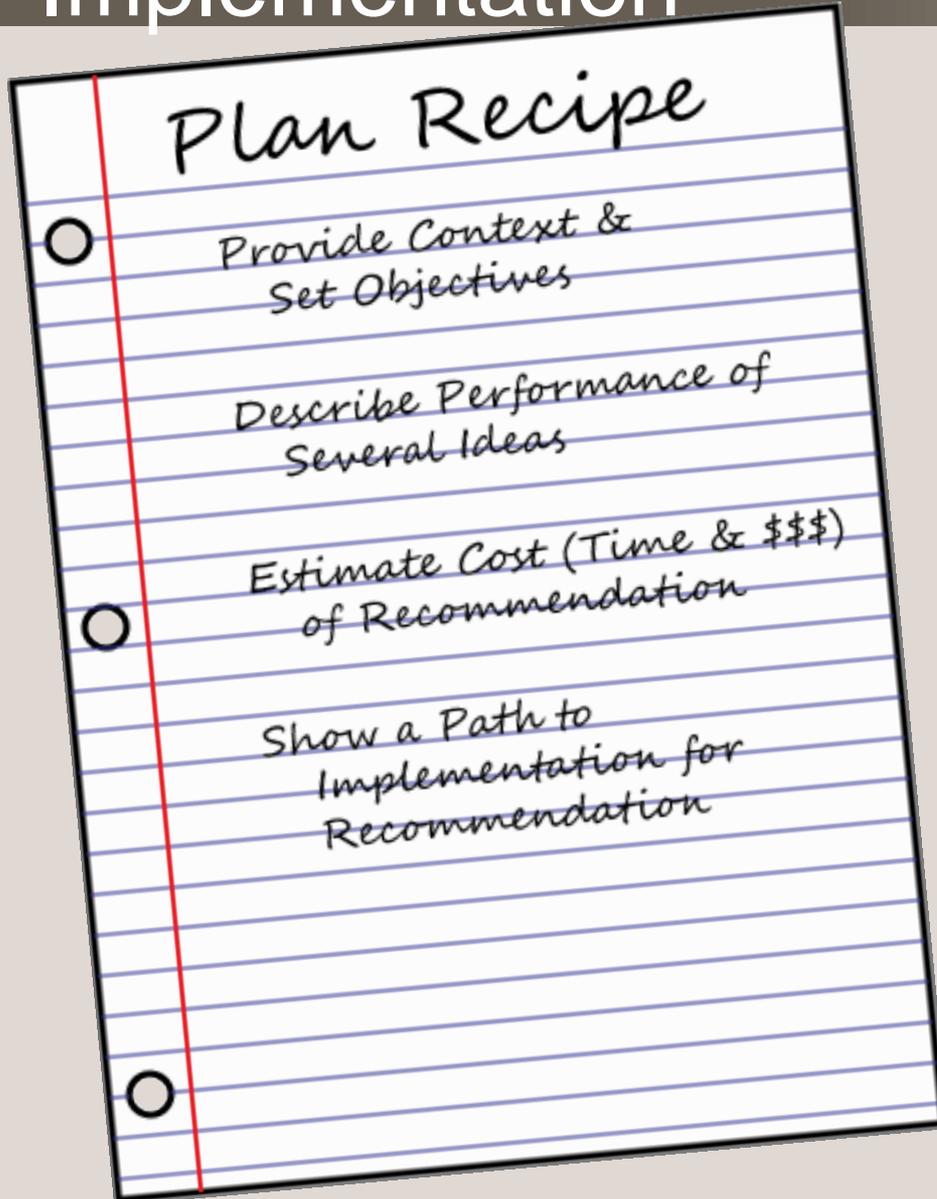


Education and public awareness



Protect significant farmland

# Planning is an Approach to Effective Implementation



## Types of Plans

### Policy Recommendations

- Governance (Roles/Responsibilities)
- Regulatory

### Strategic

- Resource Prioritization (Budget/Staff)
- System Investment

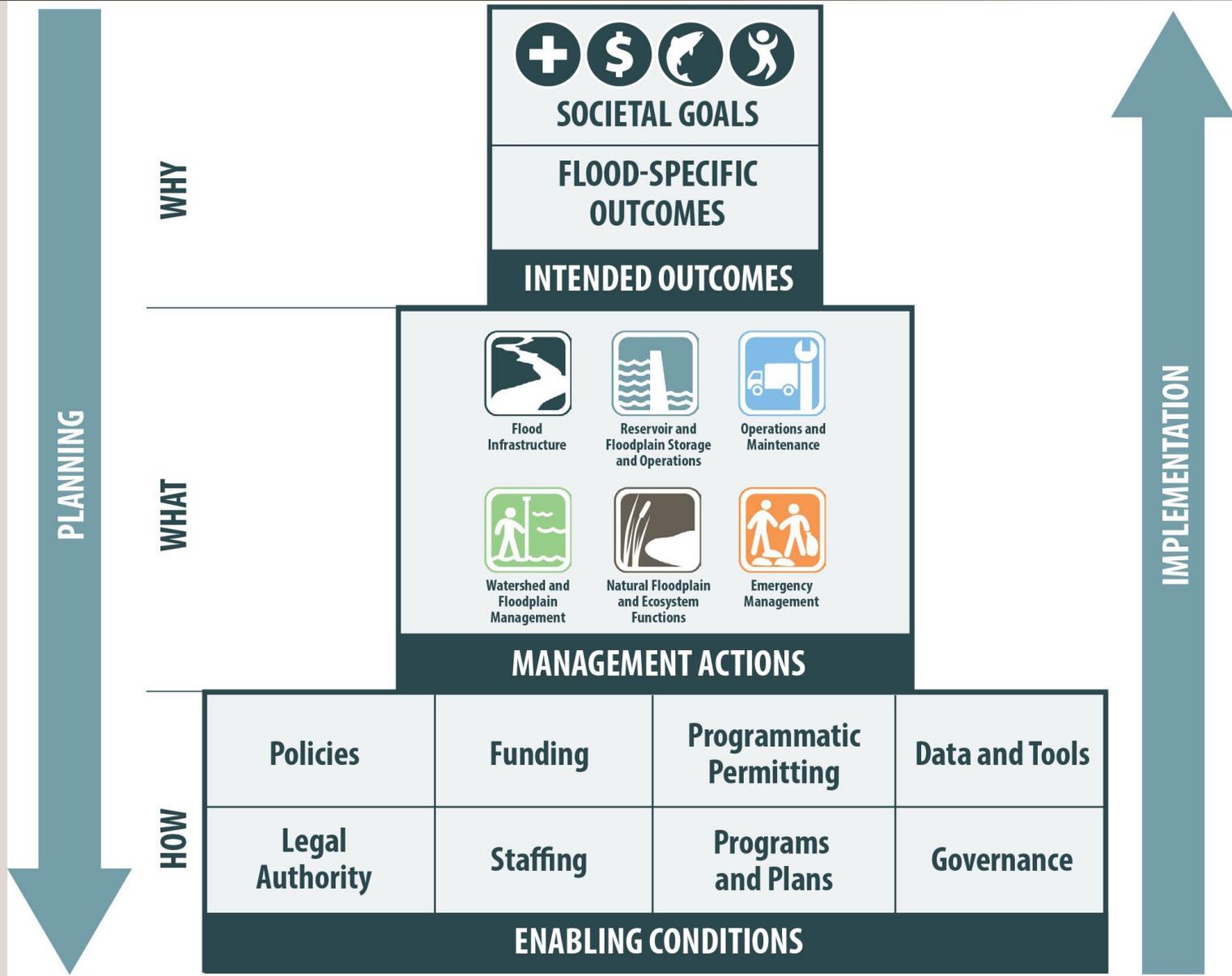
### Tactical

- Project Investment
- Engagement

### Technical

- Meeting Facilitation

# Interacting Levels of Flood Management



# Where We're Going

## Formal Public Review and Adoption Timeline



# Adoption Schedule and Public Engagement

- Public Draft of the 2017 Update to the CVFPP will be presented / released at the December 16, 2016 CVFPB Board Meeting
- Joint 2017 Update and Supplemental Programmatic Environmental Impact Report (SPEIR) Public Meetings in January 2017
- Anticipated SPEIR Certification in May 2017
- Anticipated Adoption of the 2017 Update and SPEIR Findings at the June 2017 CVFPB Board Meeting