

Discussion Item 2.1 (pg. 2)

Lance Eckhart, PG, CHg - General Manager, San Geronio Pass Water Agency

Bob Tincher - Chief of State Water Initiatives/Deputy GM, San Bernardino Valley

Consider the Next Phase of the Delta Conveyance Project

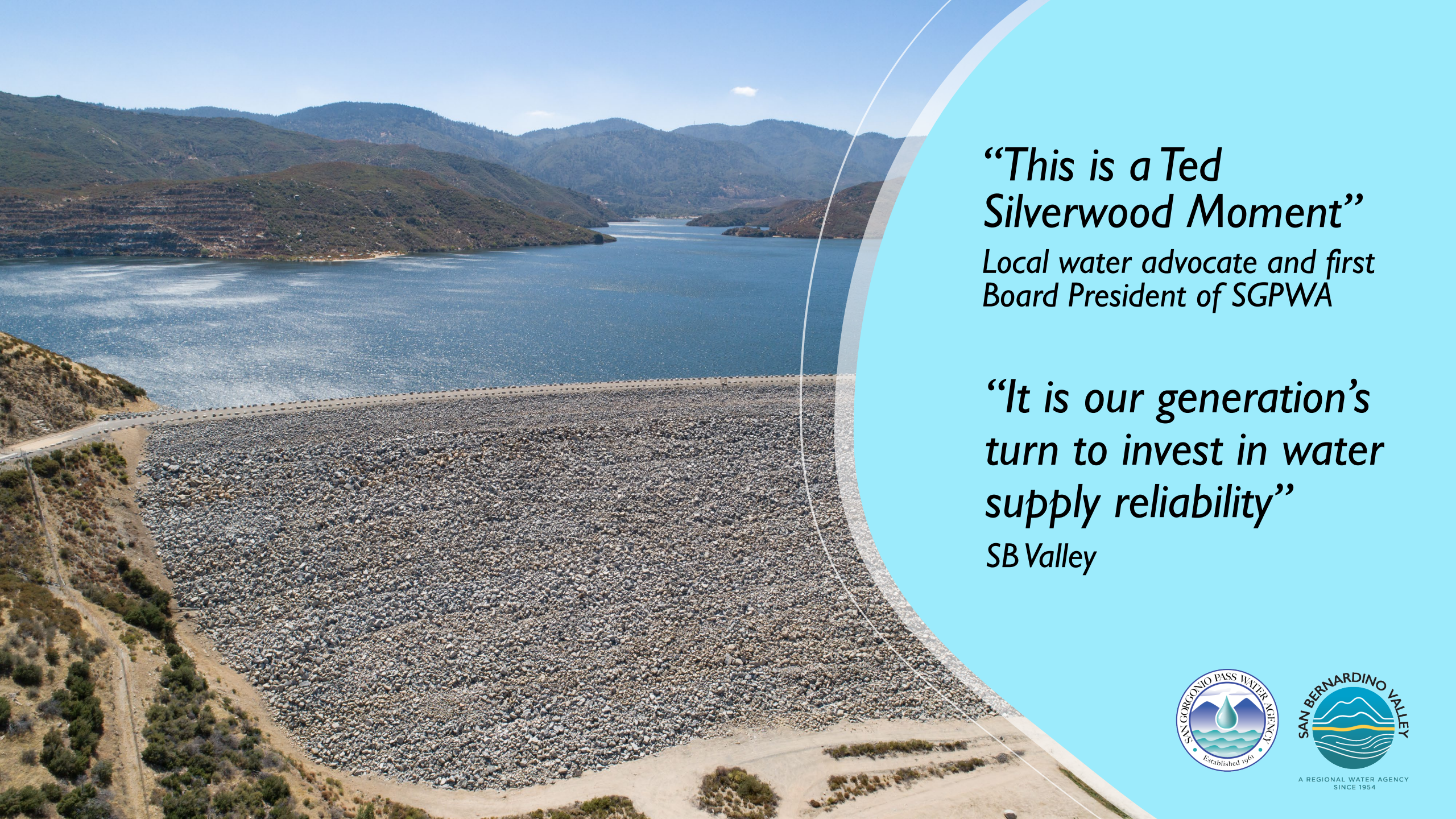


Consider the Next Phase of the Delta Conveyance Project

Joint Board of Directors Meeting
San Geronio Pass Water Agency
San Bernardino Valley

February 13, 2024





***“This is a Ted
Silverwood Moment”***

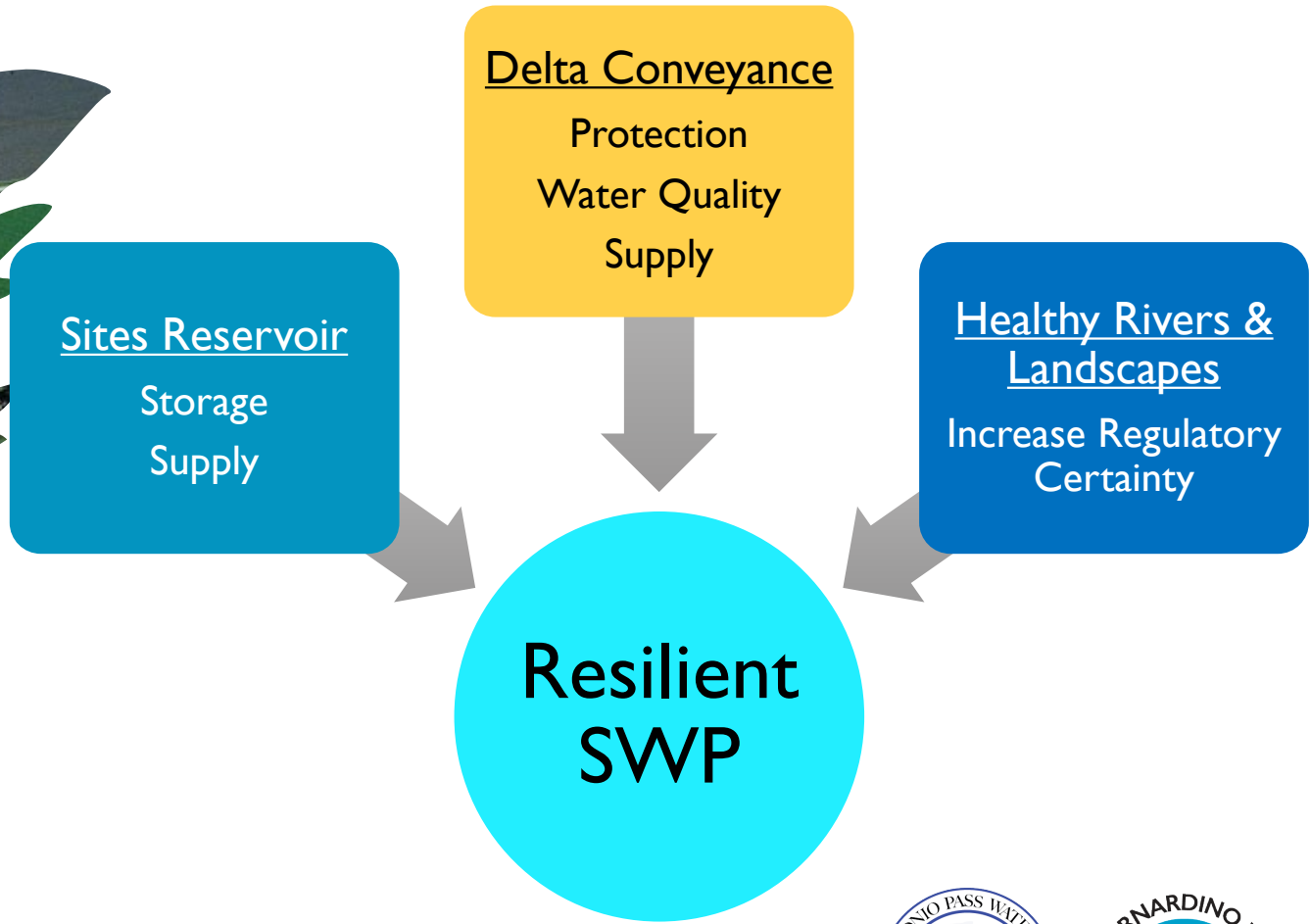
*Local water advocate and first
Board President of SGPWA*

***“It is our generation’s
turn to invest in water
supply reliability”***

SB Valley



A REGIONAL WATER AGENCY
SINCE 1954



Need for Resilient SWP



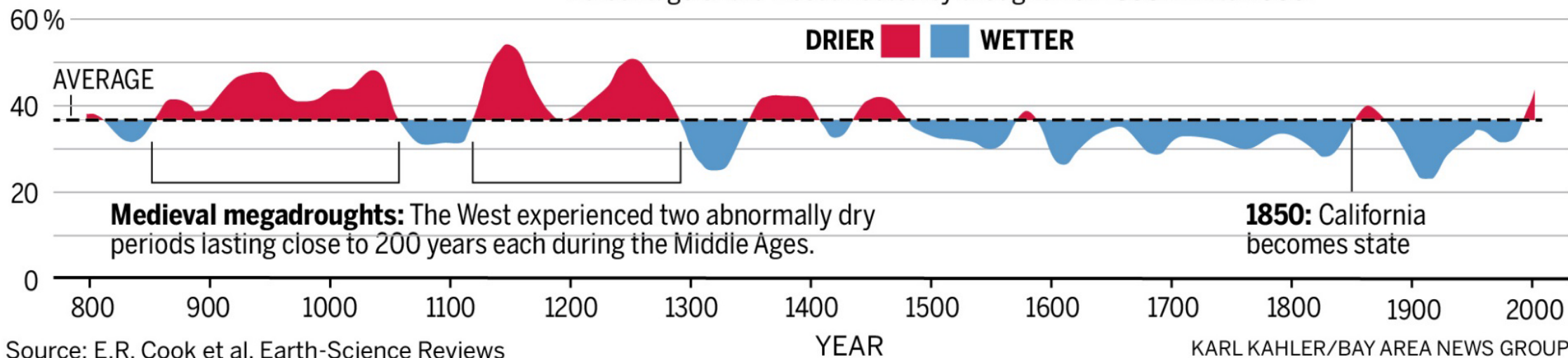


A REGIONAL WATER AGENCY
SINCE 1954

Has it Always Been Like This?

A 200-year drought?

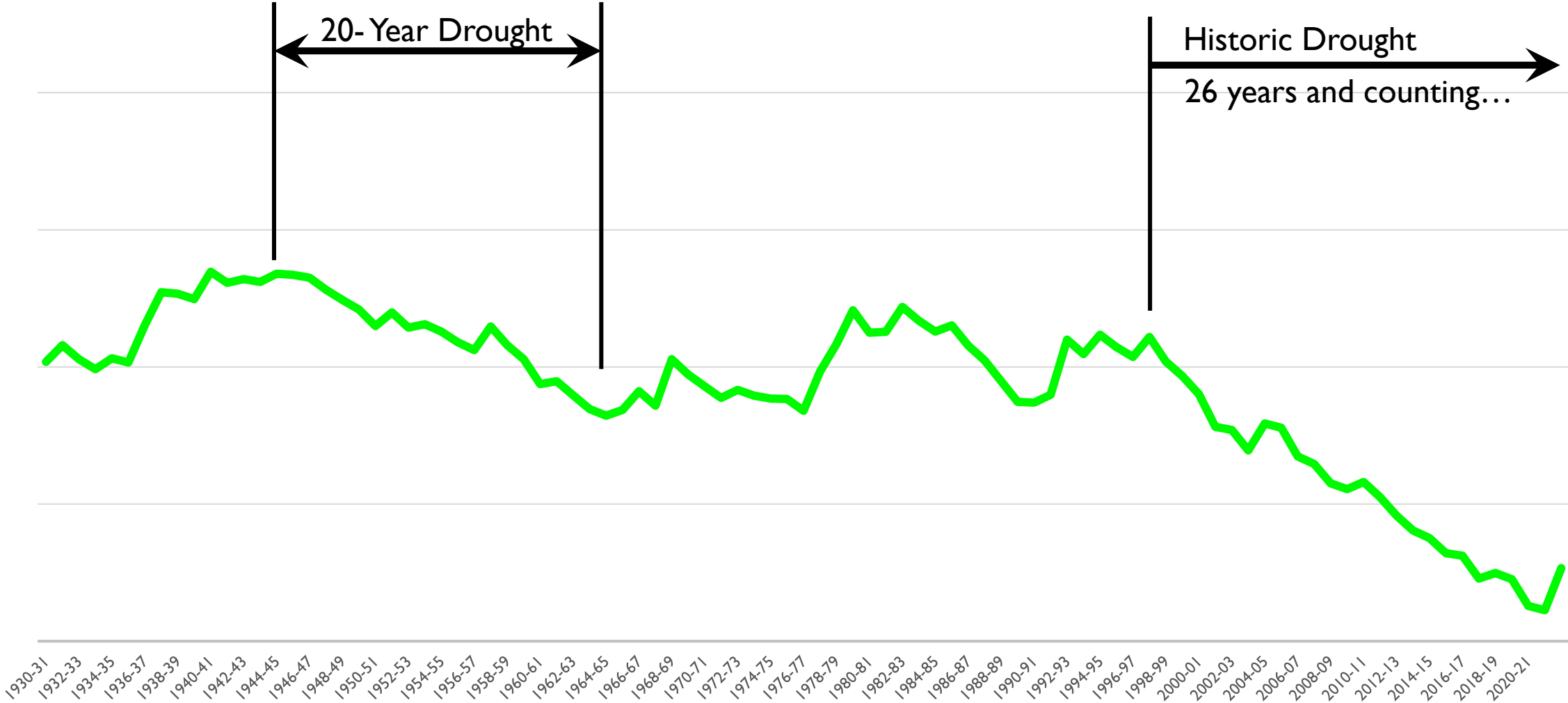
Evidence from tree rings shows that drought was historically much more widespread in the American West than now, while the 20th century was wetter than normal. Percentage of the West affected by drought from 800 A.D. to 2000:



Source: E.R. Cook et al, Earth-Science Reviews

KARL KAHLER/BAY AREA NEWS GROUP

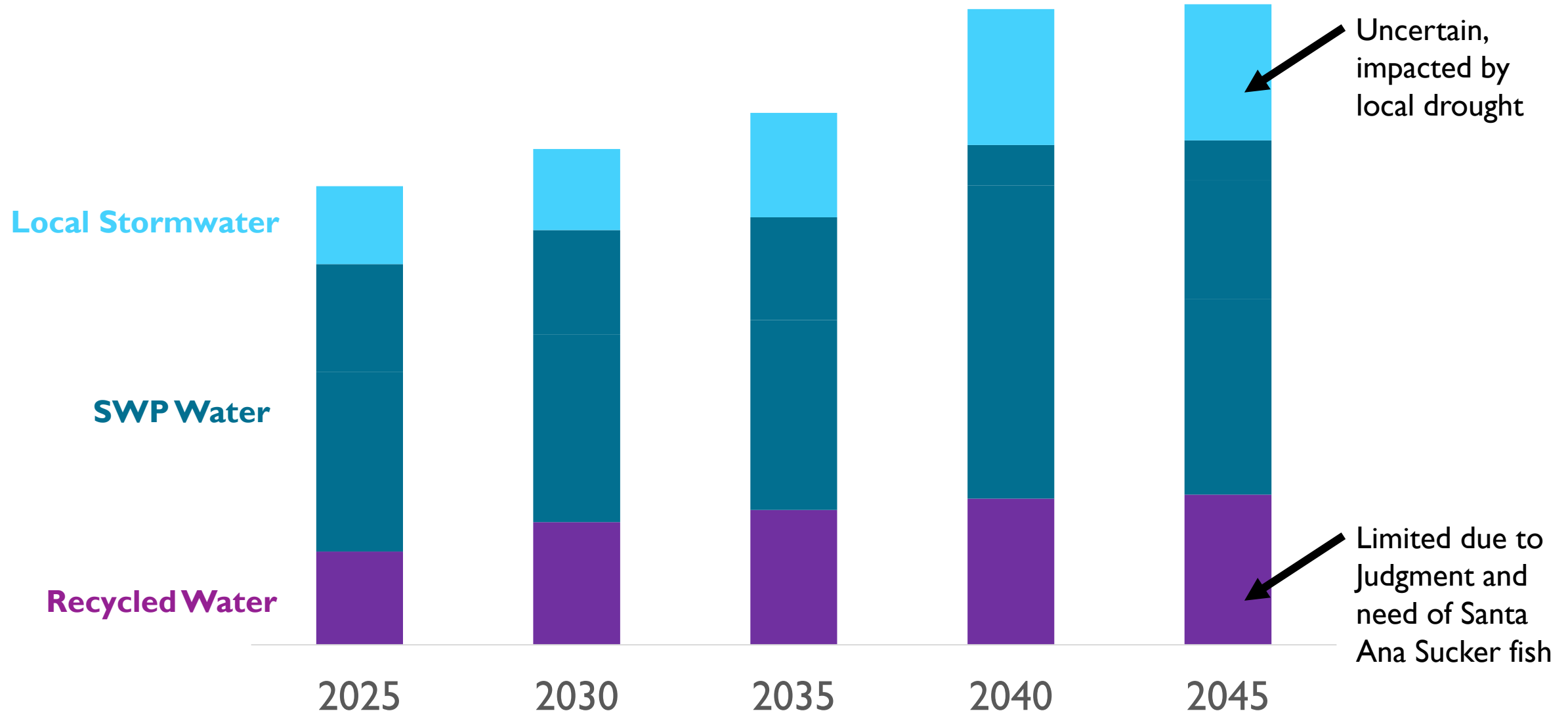
Droughts in Our Region

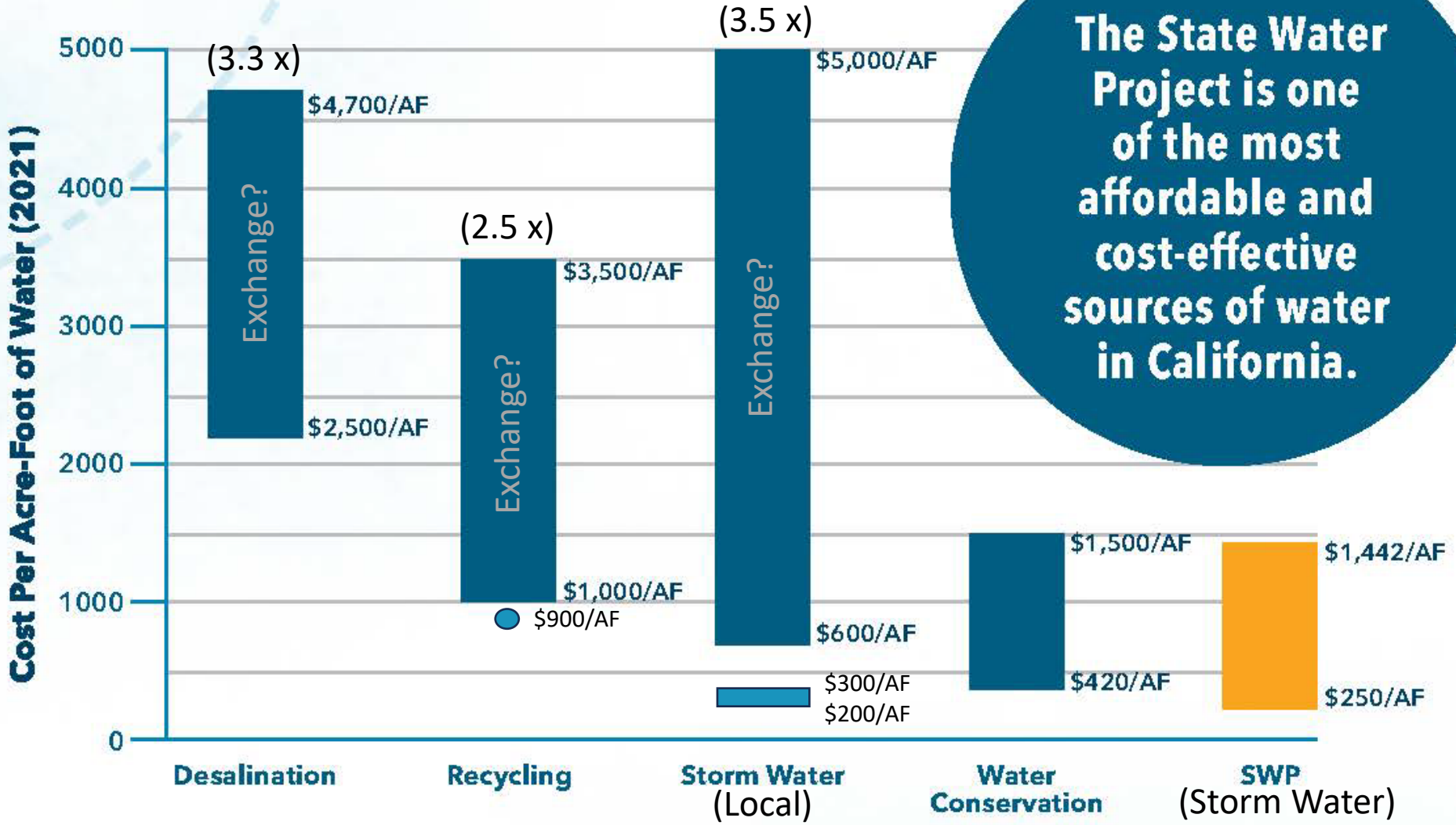


Solution: Supplemental Water

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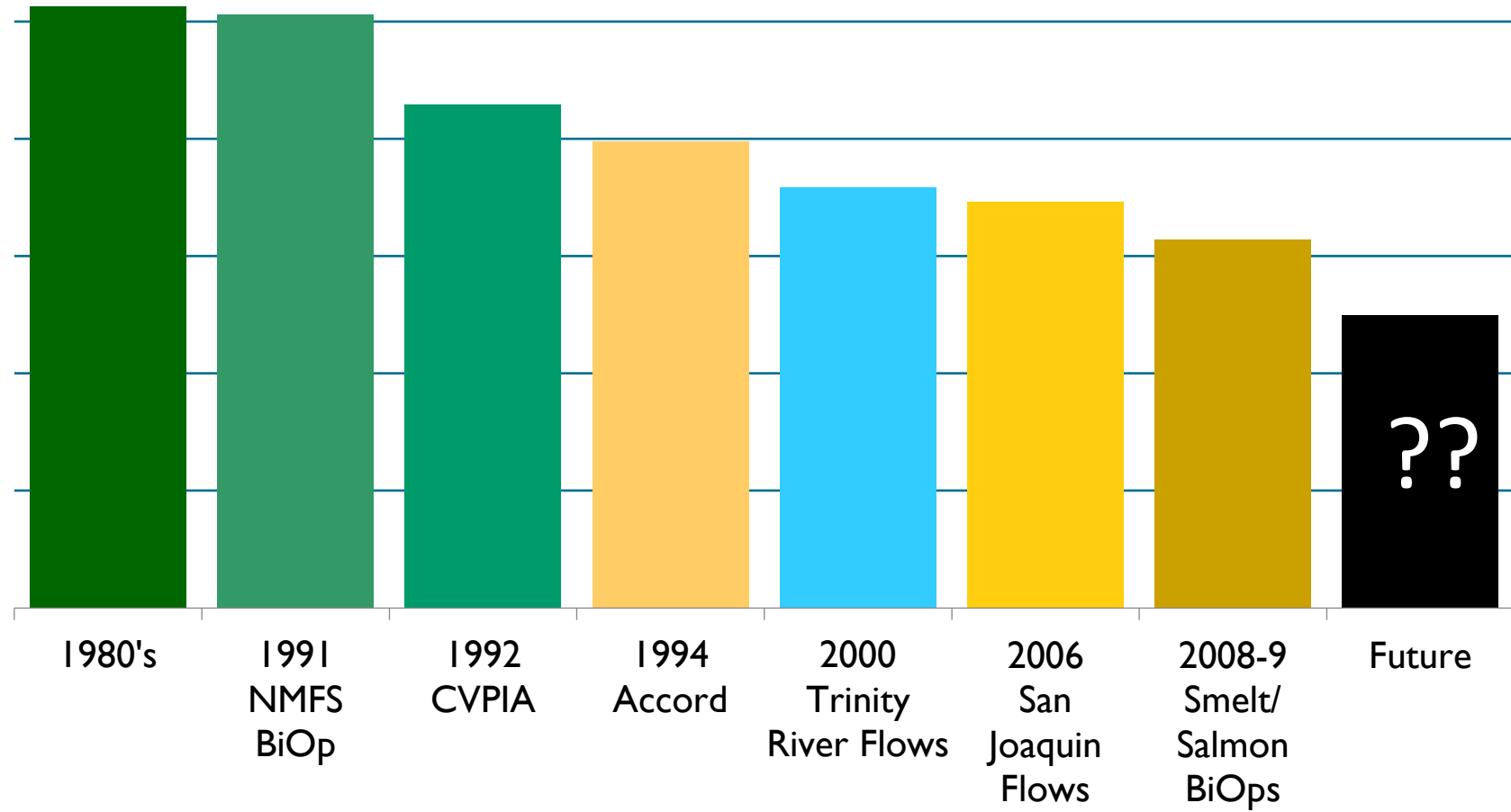
SWP Provides the Most Volume of Our Supplemental Water Supply Strategies

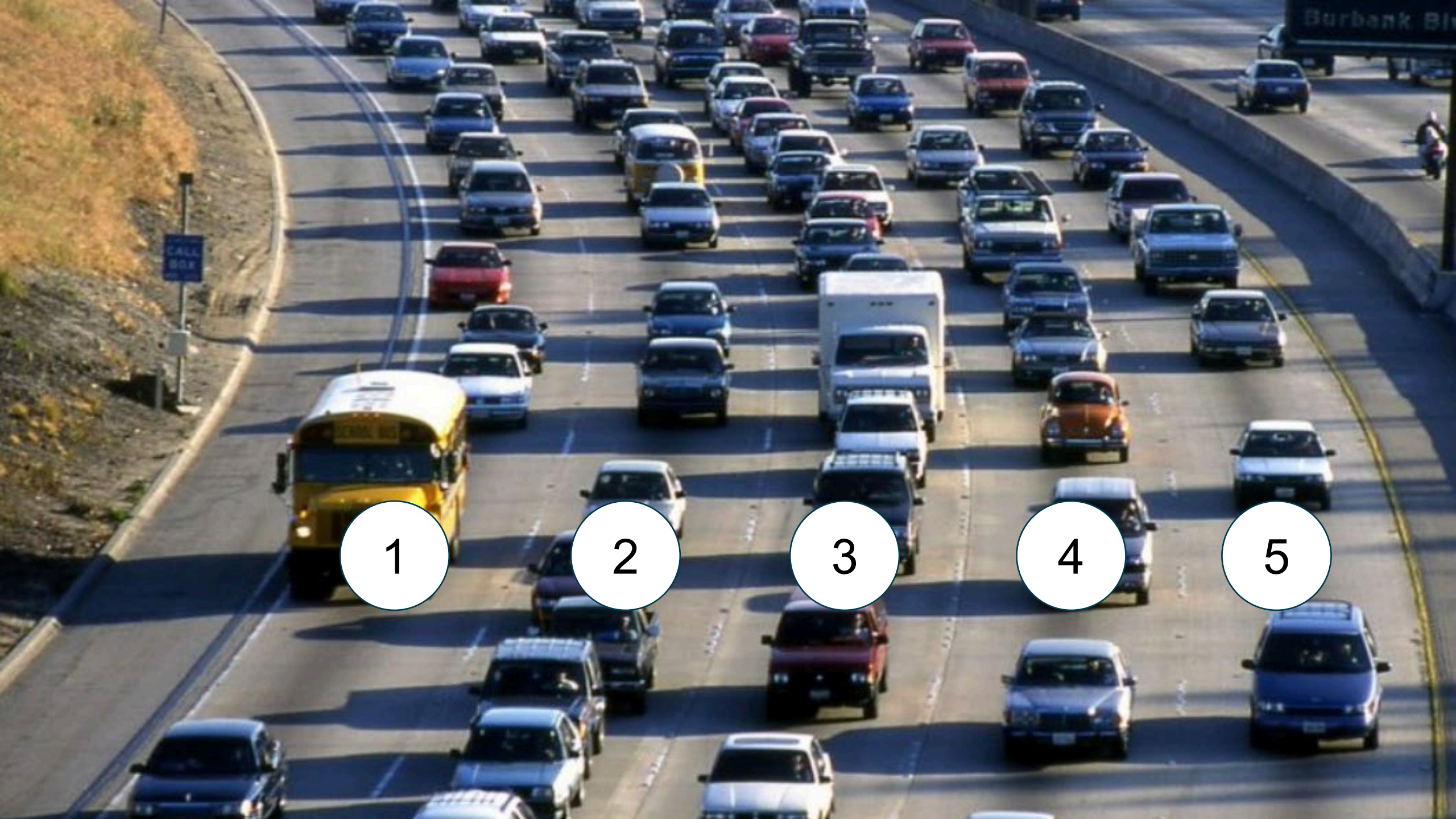




Source: Economy of the State Water Project and SB Valley

The Return on our Investment in the SWP has Declined Since the Project Was Built With an Uncertain Future





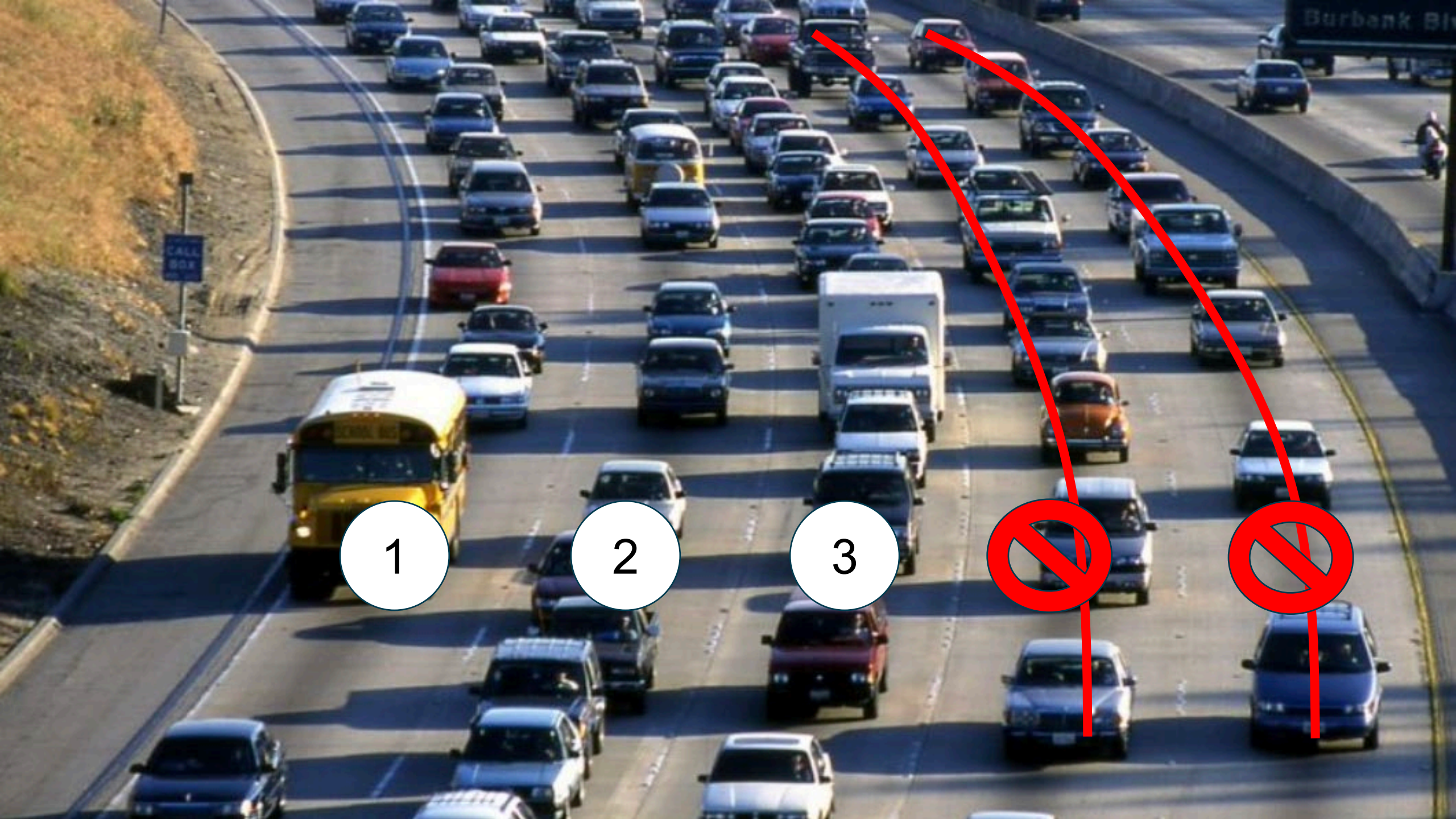
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CALL BOX

Burbank Bl

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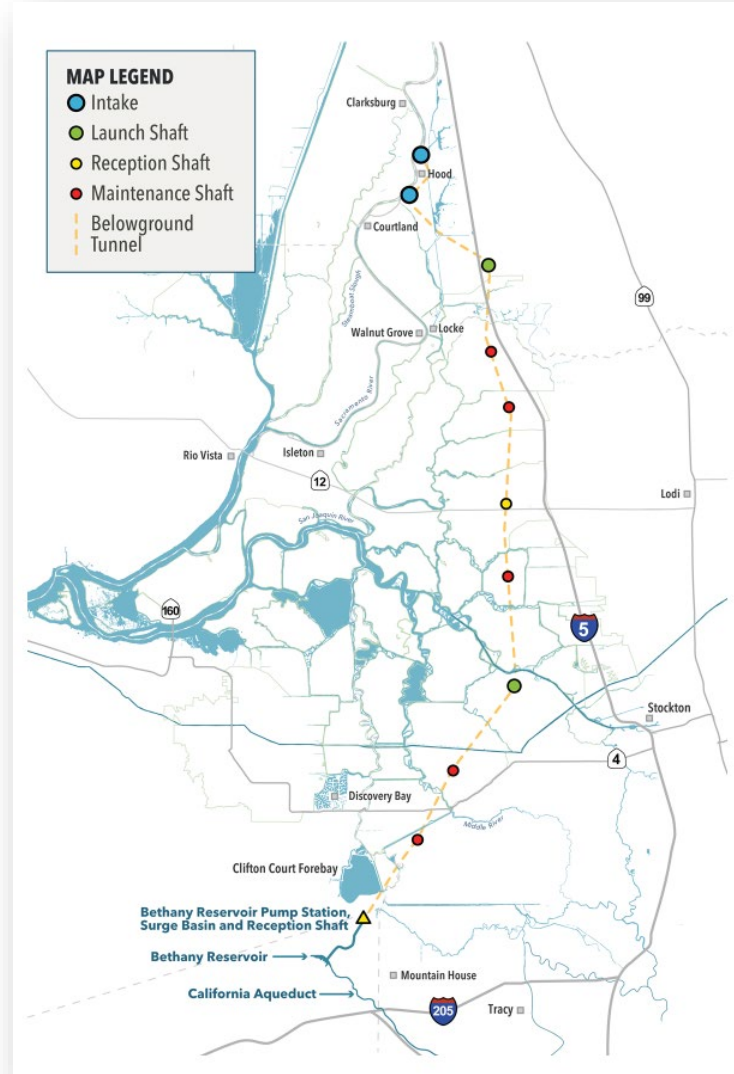
Restoring Some of the Lost Supply to the State Water Project



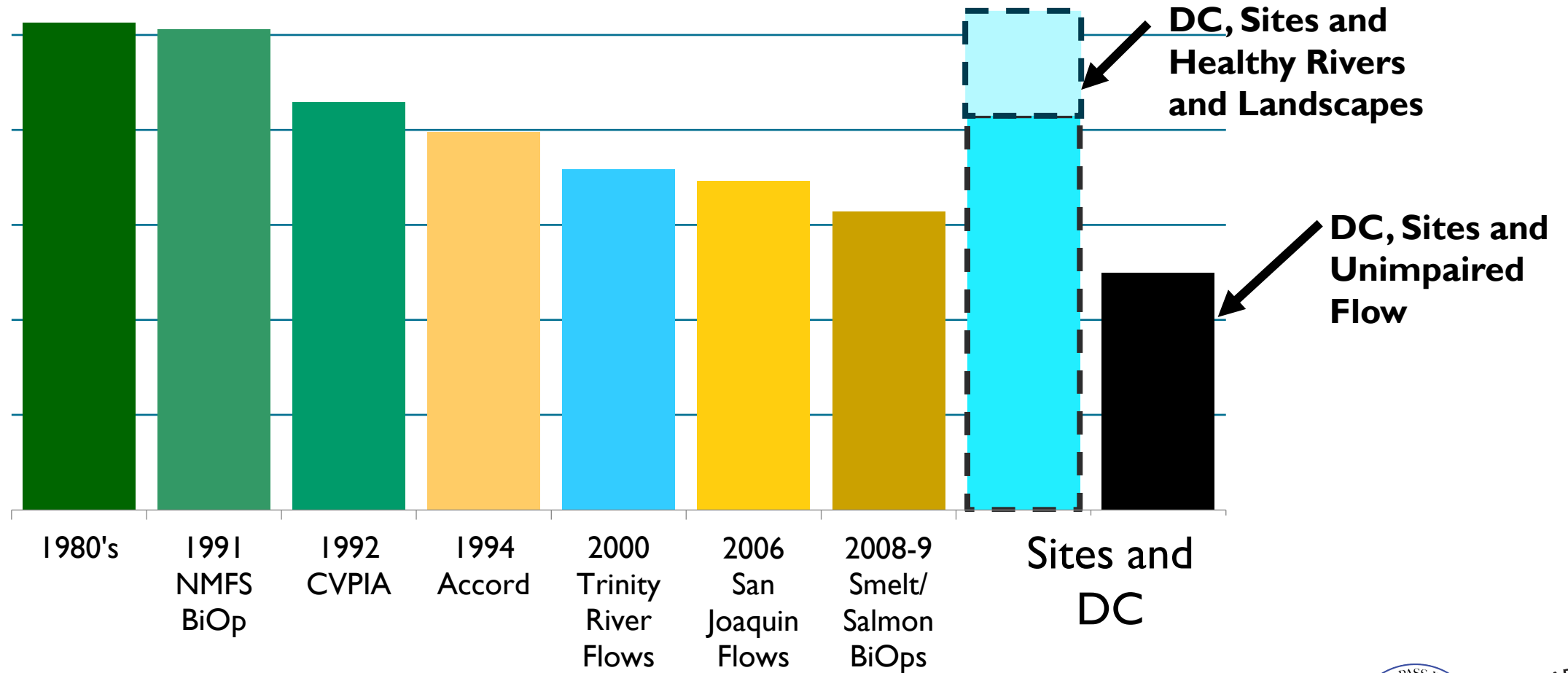
Delta
Conveyance
and Sites
Reservoir
Restore
Some of the
Lost Return
on our
Investment

“This is a Ted Silverwood moment”

“It is our generation’s turn to invest in water supply reliability”



Investment in DCP and Sites Provides Water Supply and Increases Certainty for the Future





1

2

3

4







Delta Conveyance

New State Water Project Infrastructure

The bottom portion of the slide features several horizontal, wavy lines in a lighter shade of blue, creating a sense of movement and water. These lines are layered and vary in thickness, extending across the width of the slide.


Objectives

	CLIMATE RESILIENCY	Addresses climate change, extreme weather and rising sea-levels in the Delta for the SWP
	SEISMIC RESILIENCY	Minimizes health/safety risk to public from earthquake-caused reductions in water delivery quality and quantity from the SWP
	WATER SUPPLY RELIABILITY	Restores and protects ability to deliver SWP water in compliance with regulatory and contractual constraints
	OPERATIONAL FLEXIBILITY	Provides SWP operational flexibility to improve aquatic conditions and manage risks of additional future constraints



MISSED OPPORTUNITY

If the Delta Conveyance Project was operational during the high rain events of winter 2021-2022 and January 2023 and 2024, a significant amount of water could have been moved into the San Luis Reservoir.

	Winter 2021-2022	January 2023	January 2024
Amount of water that could have been captured: 	(+ 6%) 236,000 acre-feet	(+ 6%) 228,000 acre-feet	(+ 5.5%) 220,000 acre-feet

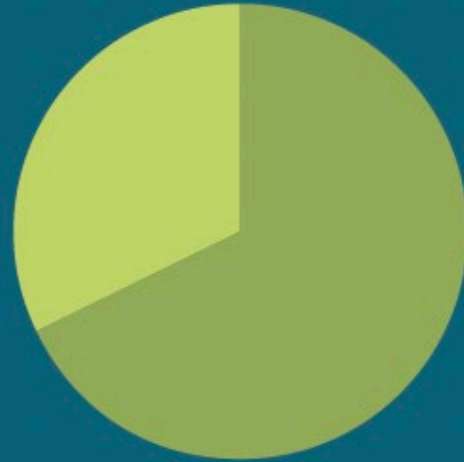
New Idea?

- 1931 - Included in State Water Plan
- 1971 – State Water Project Completed
 - Conveyance not constructed to save money
- 1982 – Proposition 9 - Peripheral Canal
 - Failed largely due to opposition by some of the farming community
 - They opposed because they thought too much water was being allocated to the environment
- 1994 – Included in CalFed Bay-Delta Program

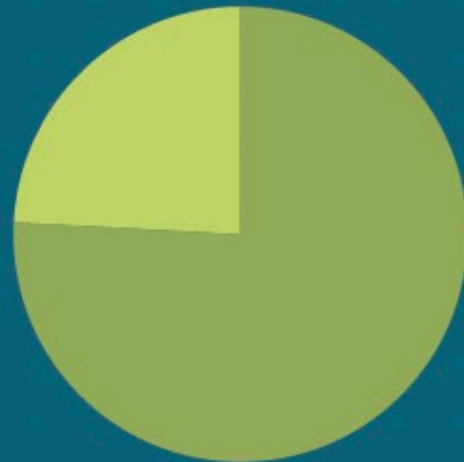
- 2009 – Sacramento-San Joaquin Delta Reform Act stresses “co-equal goals” of habitat and water supply
 - Bay Delta Conservation Plan (BDCP) would be used to obtain permits
- 2015 – To speed up the water portion, conveyance was separated out and called CA Water Fix
- 2019 – CA Water Fix “right sized” to a single tunnel and named Delta Conveyance
- 2019 – DWR rescinds approvals for WaterFix and begins work on EIR for Delta Conveyance
- 2023 – Delta Conveyance EIR approved



The Project Has Changed Over the Years and Public Support Has Changed

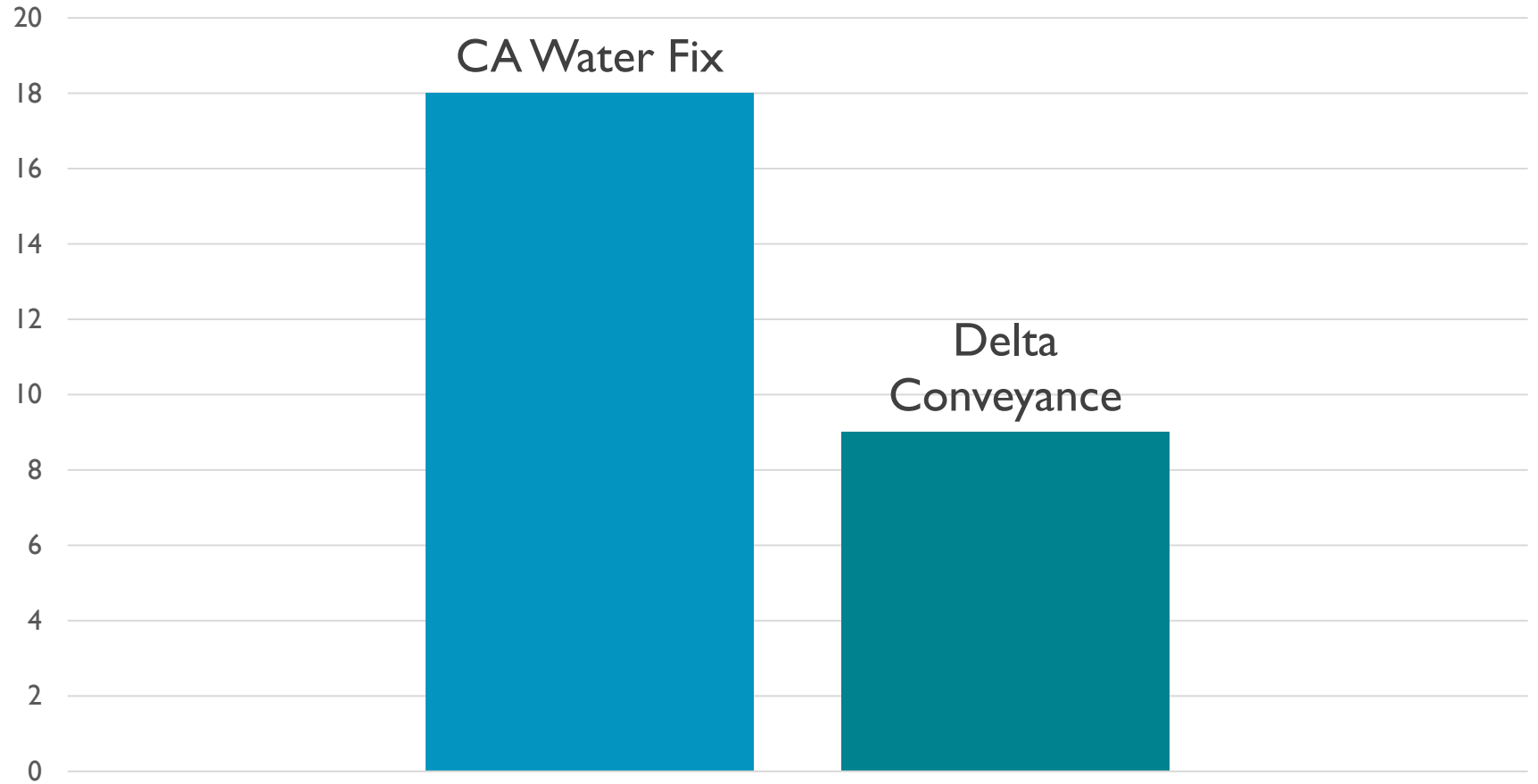


68% of California voters rate the "condition of state and local water supply infrastructure like reservoirs, dams, canals, sewers and storm drains" as an extremely or very serious problem

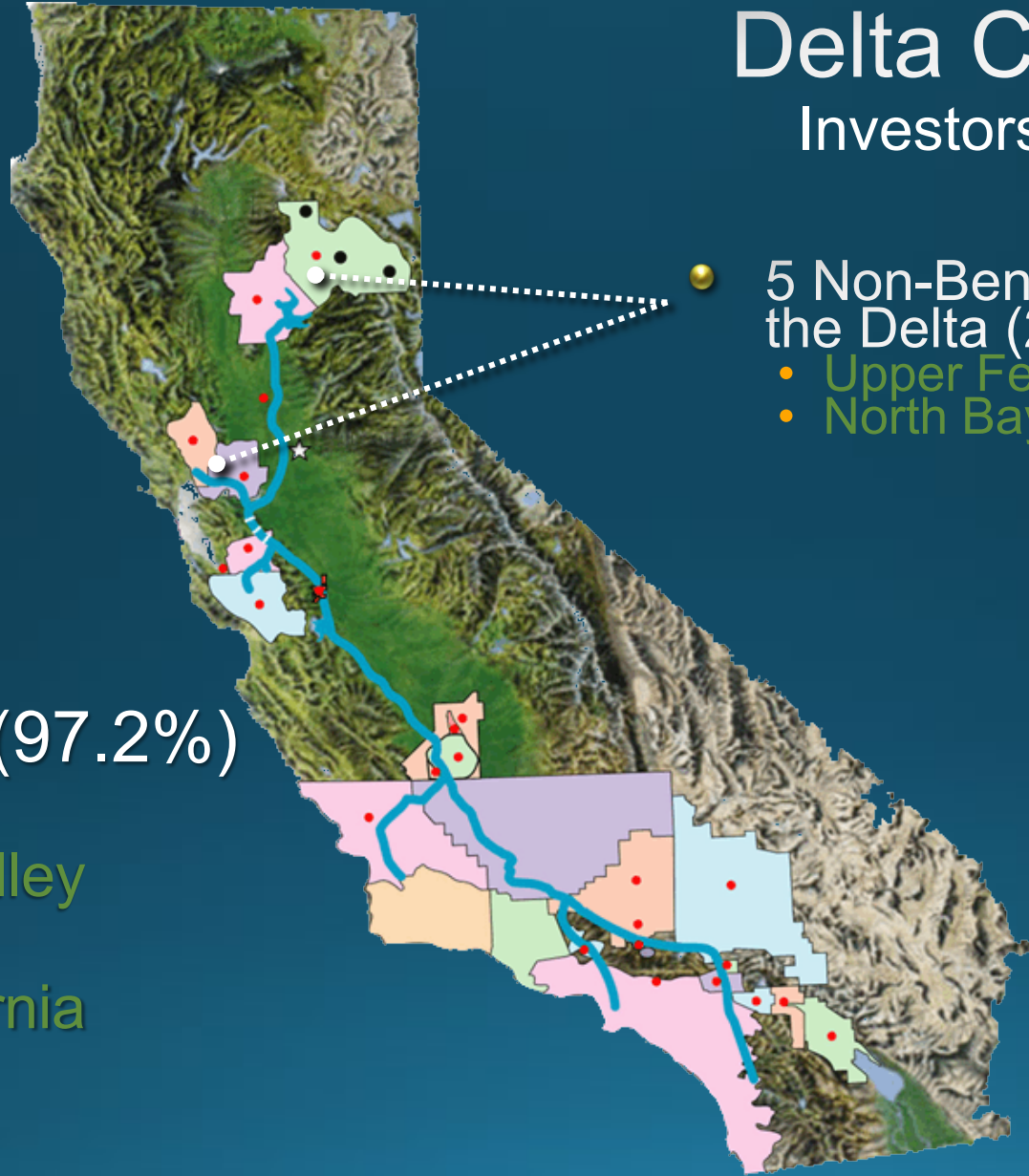


76% of voters support building a new tunnel underneath the Sacramento-San Joaquin Delta to upgrade California's primary water delivery infrastructure

Lawsuits Cut in Half



Delta Conveyance Investors/Beneficiaries



● 5 Non-Beneficiaries north of the Delta (2.8%)

- Upper Feather River
- North Bay Area

● 18 Beneficiaries (97.2%)

- South Bay Area
- San Joaquin Valley
- Central Coast
- Southern California

Public Water Agencies (PWAs)



Agency	Table A (%)	DCP Planning Funding (%)
Dudley Ridge Water District	0.99%	1.02%
Kern County Water Agency	26.56%	11.22%
Alameda County FC&WCD, Zone 7	1.93%	2.20%
Alameda County Water District	1.01%	1.15%
Santa Clara Valley Water District	2.40%	3.23%
San Luis Obispo County FC&WCD	0.60%	0.60%
Antelope Valley-East Kern Water Agency	3.47%	3.95%
Santa Clarita Valley Water Agency	2.28%	2.60%
Coachella Valley Water District	3.32%	3.78%
Crestline-Lake Arrowhead Water Agency	0.14%	0.16%
Desert Water Agency	1.34%	1.52%
Mojave Water Agency	2.15%	2.45%
Palmdale Water District	0.51%	1.06%
San Bernardino Valley Municipal Water District	2.46%	2.80%
San Gabriel Valley Municipal Water District	0.69%	0.79%
San Geronimo Pass Water Agency	0.41%	2.00%
Metropolitan Water District of So. Calif.	45.81%	47.13%
Ventura County Watershed Protection District	0.48%	0.55%



Time to Modernize Now – Risks Are Mounting

Purpose

Modernize to **restore** and **protect** the reliability of SWP water deliveries in a **cost-effective** manner, consistent with the state's Water Resilience Portfolio.

Objectives

- **Minimize** water supply disruption due to seismic risk, sea level rise and climate change
- **Protect** water supply reliability
- **Provide** operational flexibility to improve conditions for aquatic species

Delta Conveyance Project Team



DWR



**Department of
Water Resources**

- *Owner / Operator of State Water Project*
- *Lead on all permits*
- *Oversees DCA work*



DCA

**Delta Conveyance
Design and
Construction
Authority**

- *Engineering to support planning and permitting*
- *Design and build project*

PWA



**Public Water
Agencies**

- *Beneficiaries*
- *Project funding*
- *Govern DCA via appointed board*

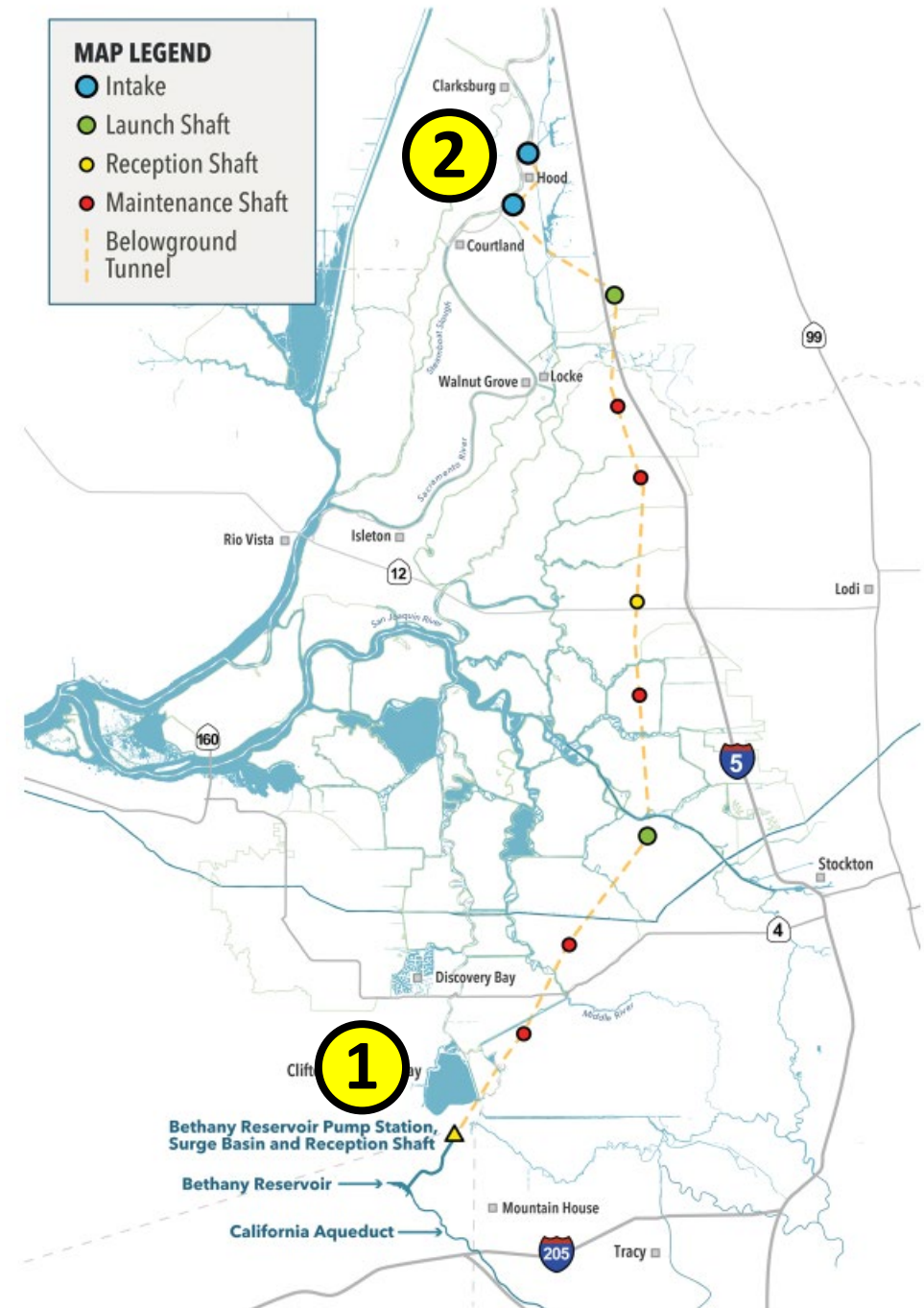
What is the Proposed Project?

Proposed Project



- New north intakes
- 6,000 cfs (2 intakes @ 3,000 cfs each)
- Connects directly to Bethany Reservoir downstream of existing intake

By the Numbers

- A single below-ground tunnel ~45 miles
- 36' tunnel diameter (inside)
- ~100-150' tunnel depth
- 11 total tunnel shafts



Estimated Total Cost and Benefits

	<u>% Project</u>	<u>Escalated Cost (\$M)</u>	<u>Benefit (AFY)</u>	<u>Added Unit Cost (\$/AF)</u>
	2%	\$400	11,000	\$730
	2.8%	\$561	15,000	\$750

Unit cost based on 50-year duration.

Planning, Permitting and Design: Moving Forward

DWR / DCA / PWA partnership has successfully navigated changeable and unanticipated circumstances, putting the project in the best position possible.

- ✓ CEQA certified; NEPA on track (mid 2024)
- ✓ Geotech and power development on schedule
- ✓ Updated cost estimate (including optimization) and benefit/cost analysis Q2 2024
- ✓ Careful spending, under budget: approx. ½ of approved \$290M planning budget
- ✓ Clear path for remaining permits, with support from the Newsom Administration
- ✓ Strong communications foundation; tailored messaging infrastructure ready to deploy locally

Project Enhancements

State of the art fish screens for smaller intake footprint

Fewer tunnel launch shafts

Traffic focus on highways, interstates, exclusive haul roads

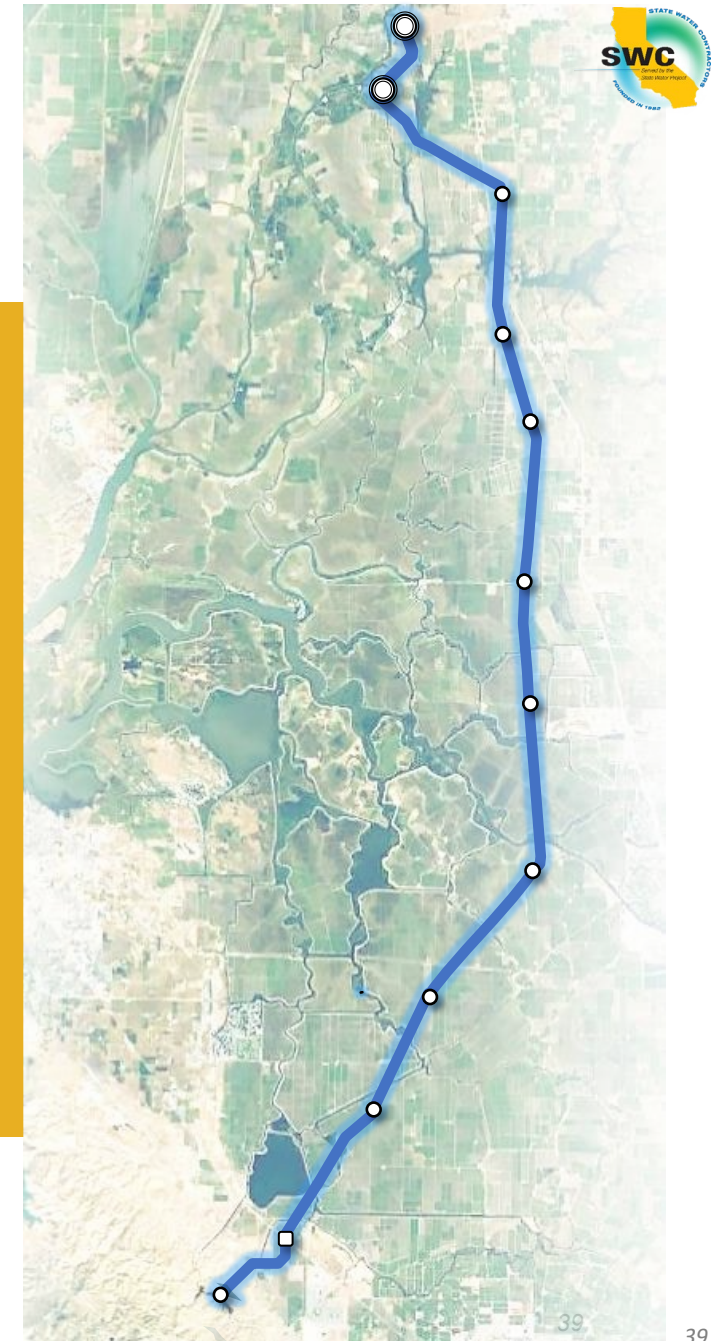
Route avoids the heart of Delta

Burying new power lines

Pumping plant on higher ground discharges directly into SWP Independent of south Delta intake

Avoids new forebays and barge landings

Dramatically reduces impacts on waters and wetlands



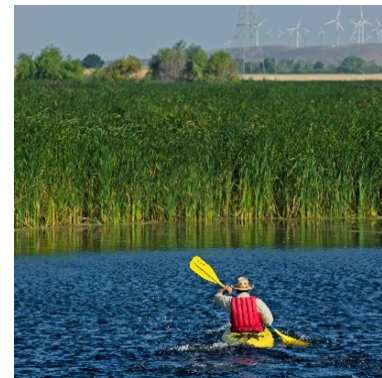
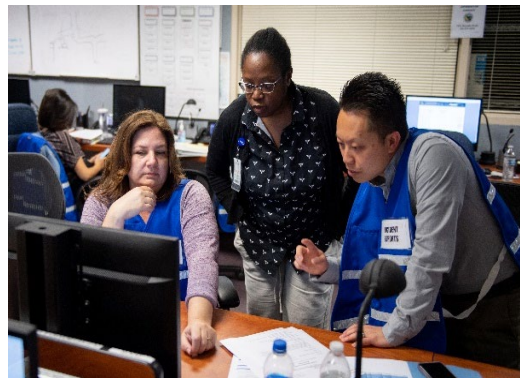
Community Benefits Program

Delta Community Fund

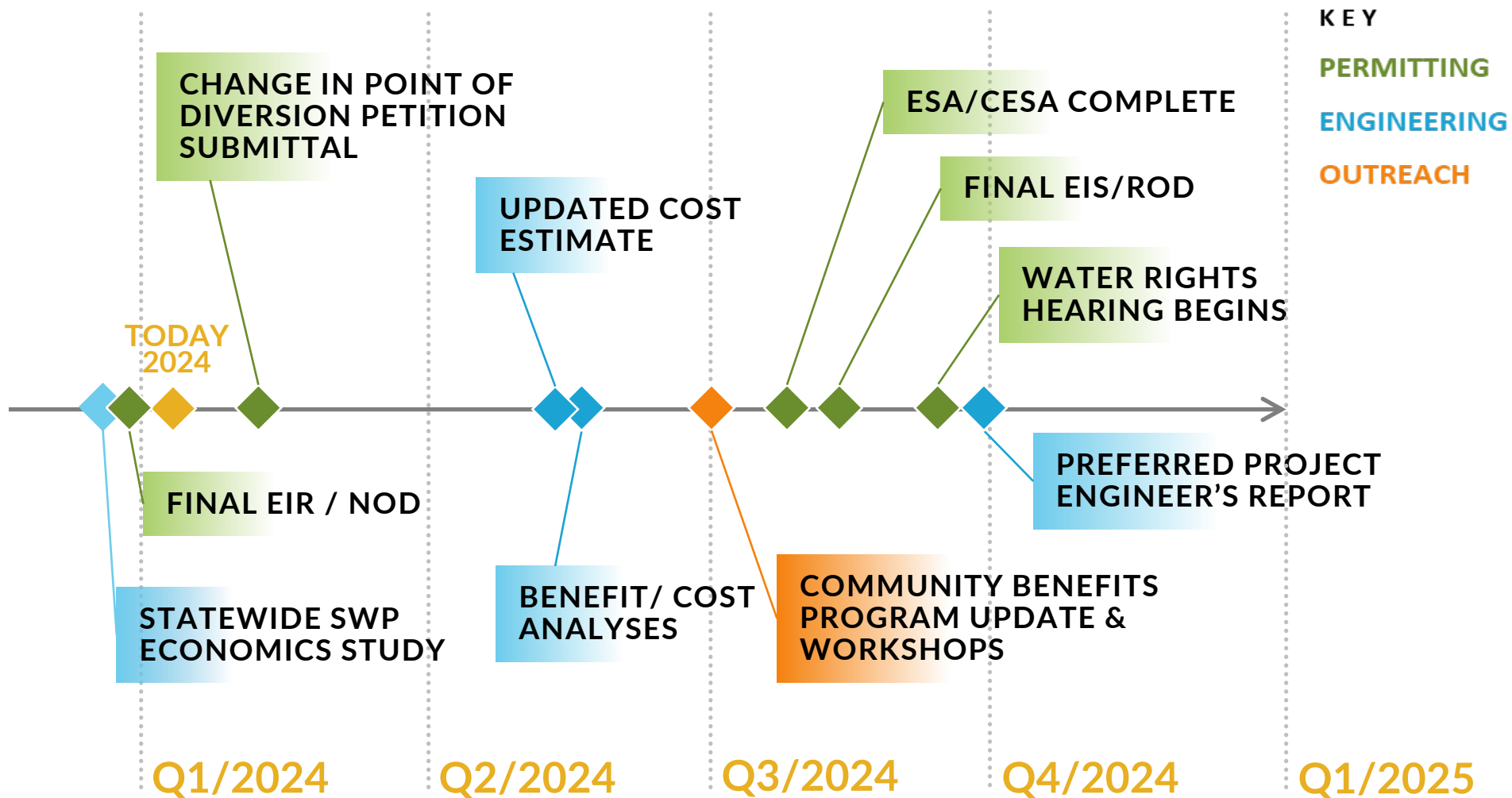
Proposed overarching fund to support community-prioritized projects in the Delta

Project Implementation Commitments

- Hiring targets, jobs training and education
- Local business utilization
- New infrastructure and facilities

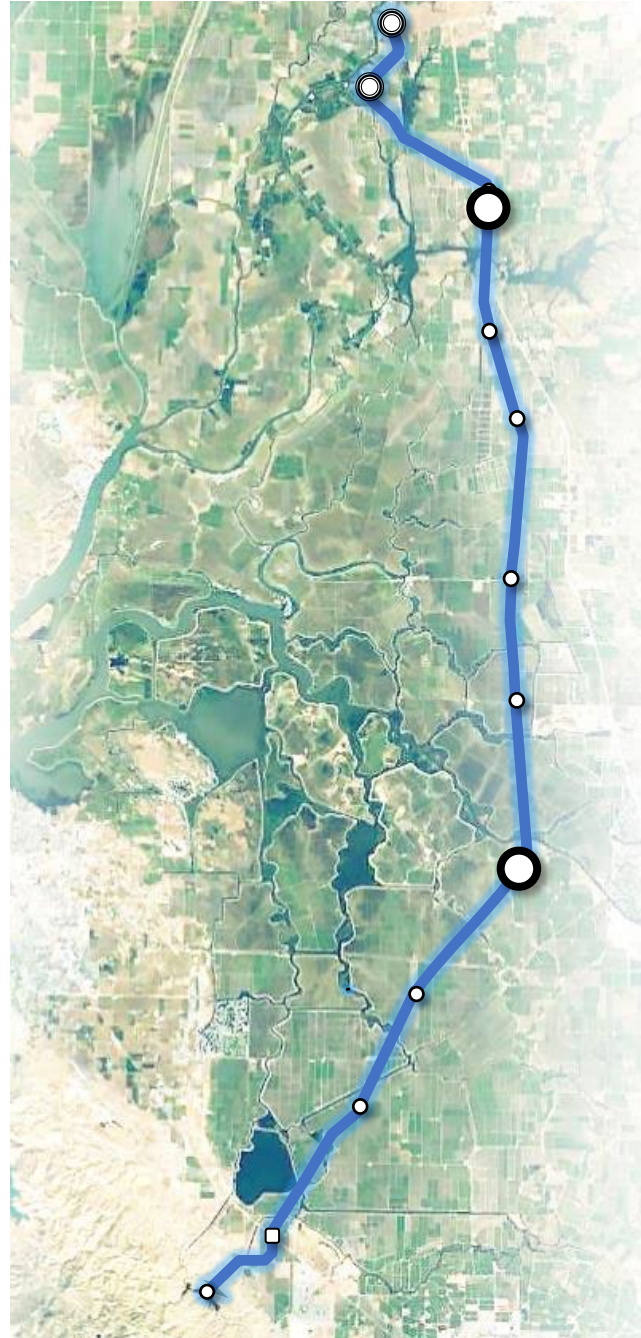


DCP 2024 Milestones

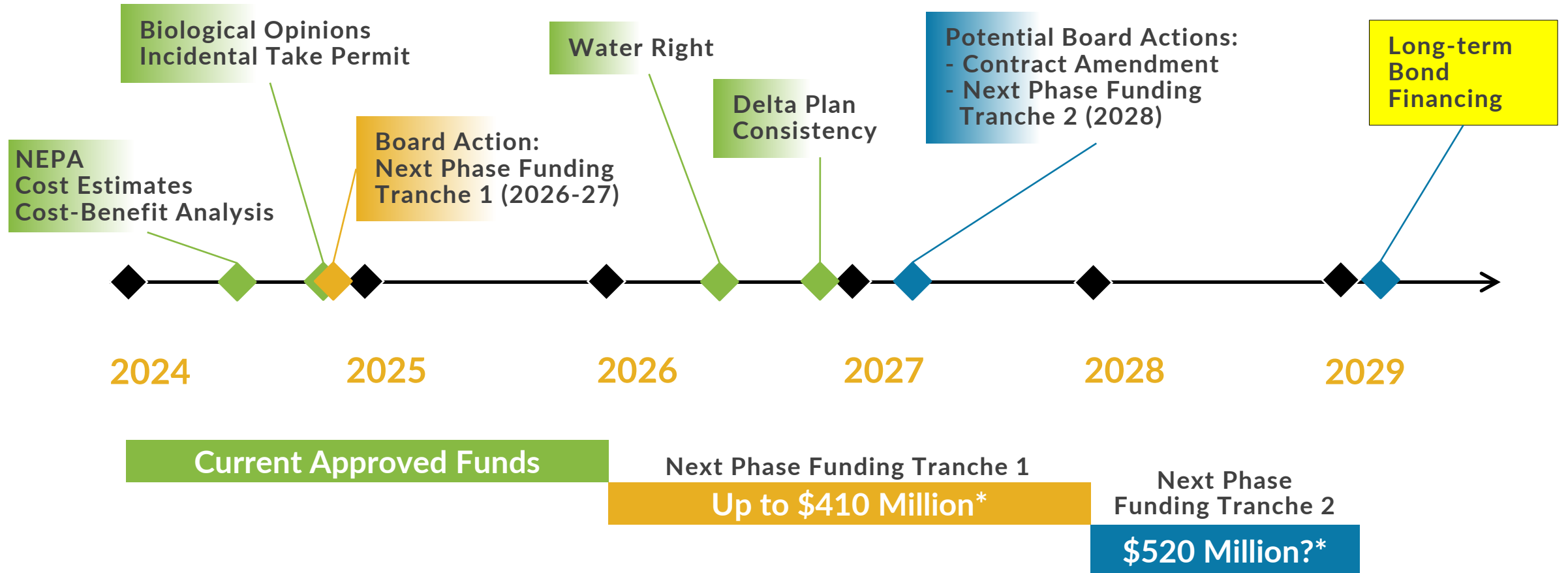


Next Phase Focus

- **DCA:**
 - Updated Cost Estimate
 - Benefit / Cost Analysis
 - Preliminary (30%) Design Development
 - Select Procurements
- **DWR DCO:**
 - Other Permits (404, 408, etc.)
 - CEQA Mitigation



DCP 2025 – 2028 Milestones and Funding Need



* Estimated Funding Need from DCA under the Unconstrained Scenario

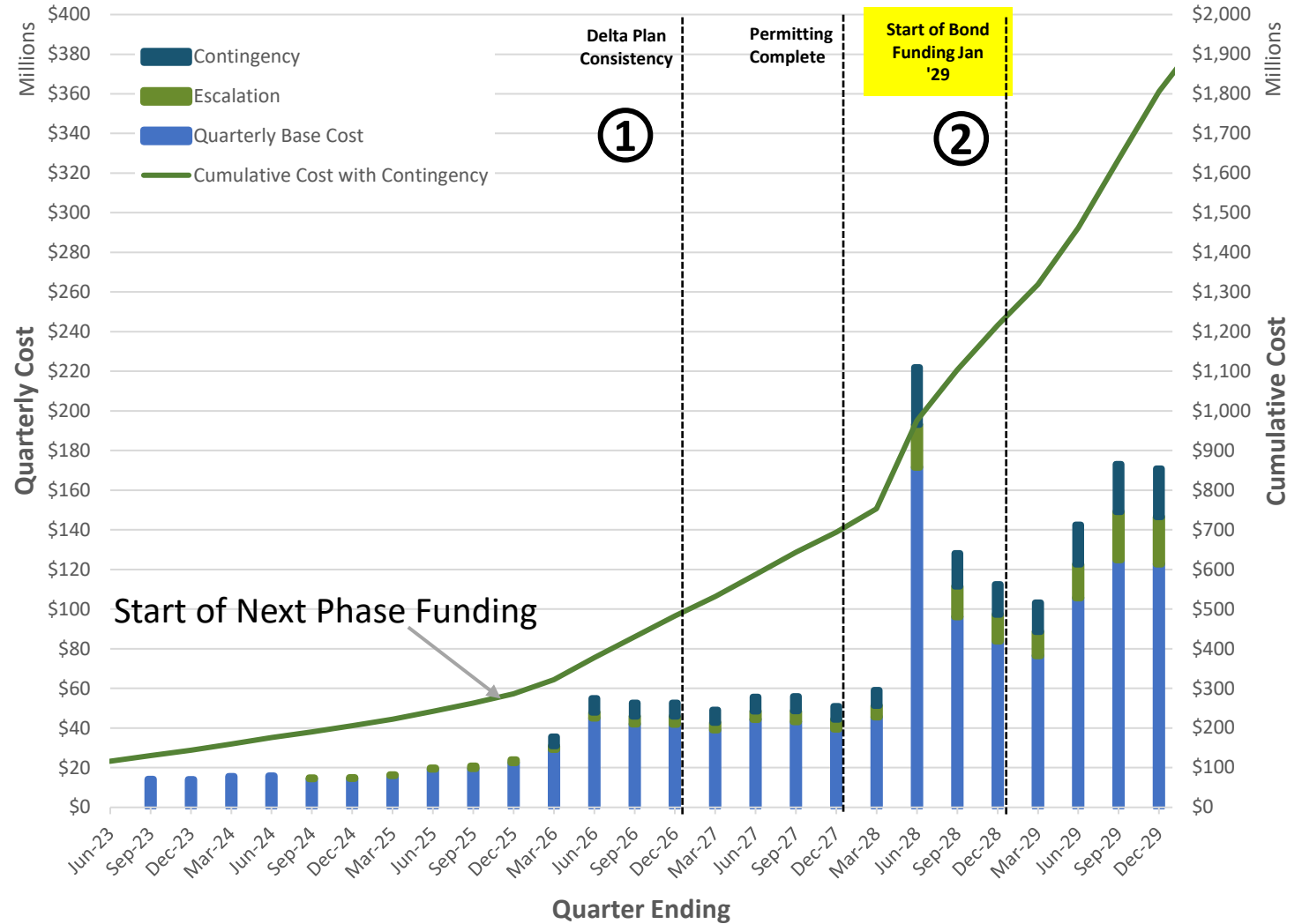
Next Phase Funding

	2026-27	2028?	Total Before Bonds
Next Phase	Up to \$410M	\$520M	\$930M
SB Valley	\$11.5M	\$14.6M	\$26.1M
Pass	\$8.2M	\$10.4M	\$18.6M

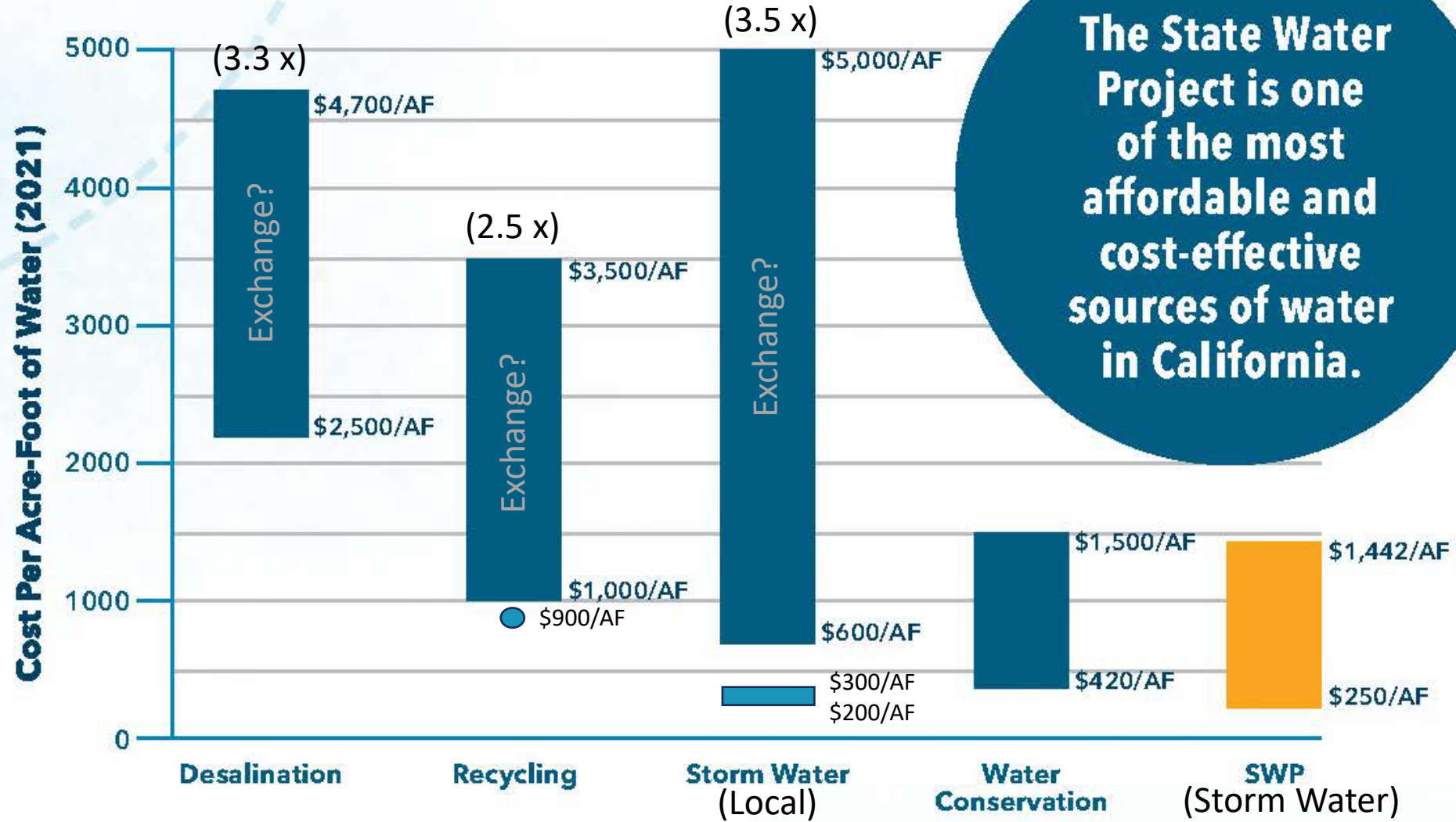
Option to get some, or all, of planning money back when DWR sells bonds.

Expected Construction Completion: 2044

Cash Flow through 2029




There is no equivalent “Plan B”



The Project is at the Starting Line!



A group of runners participating in a race, with a large white text overlay reading "We need help to start the race!". The runners are wearing various athletic gear, including t-shirts, shorts, and headbands. Some runners have bib numbers visible, such as 75, 53, 55, 17, and 12. The background shows a paved road, trees, and a parking sign. The overall scene is a busy outdoor race event.

**We need help to start
the race!**

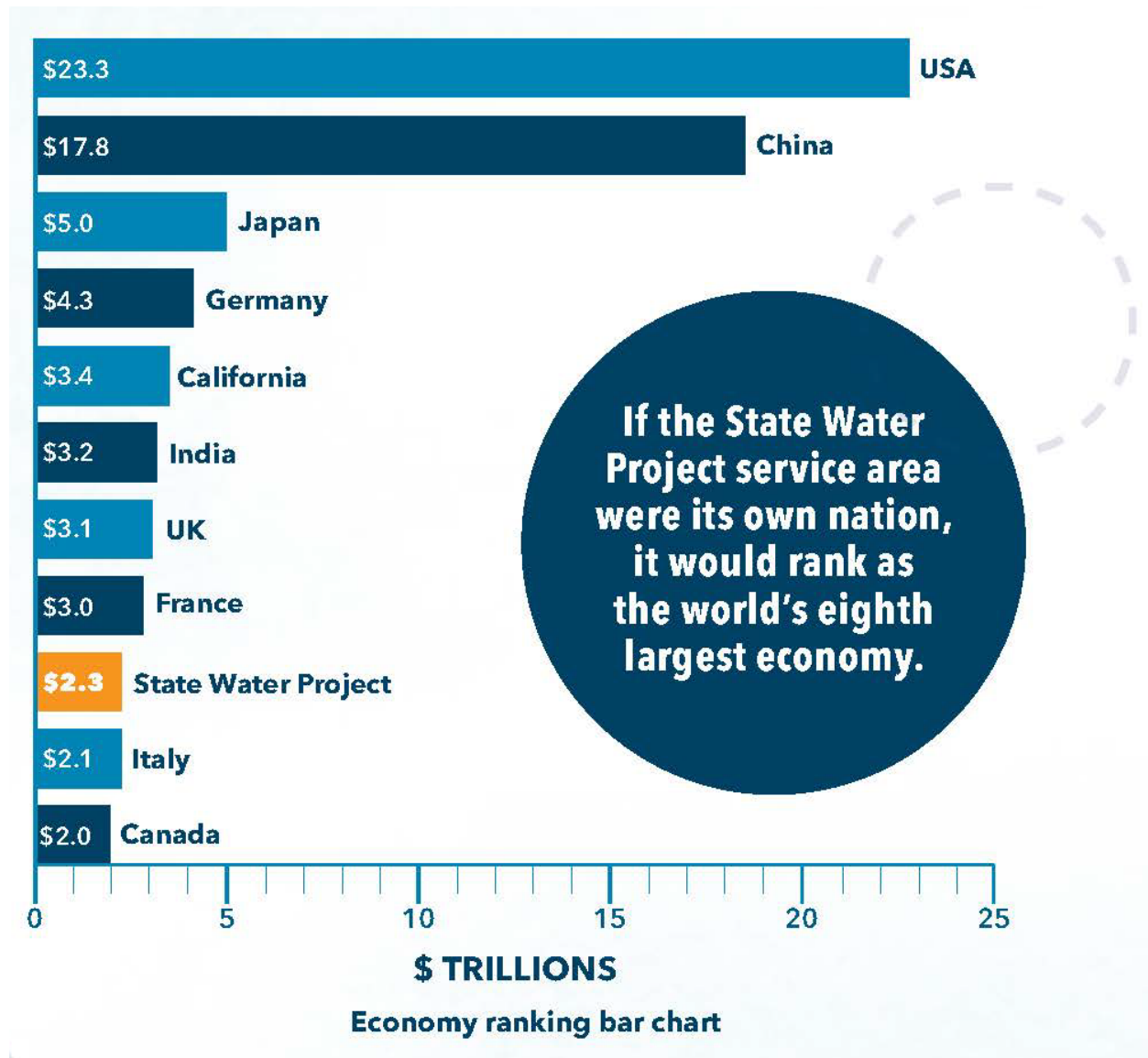


Politics



Scarcity

Abundance





You Can be the First to Support the Next Phase of DCP

- Consider supporting the next phase of funding up to the amounts provided below.
 - Bonds expected late 2028, early 2029, some of these expenditures could be returned once bonds received.

	“Up To” Amount
SB Valley	\$11.5 million
Pass	\$8.2 million

Board Motion & Roll Call Vote



Mickey Valdivia
President



Chander Letulle
Vice President



Robert Ybarra
Treasurer



Kevin Walton
Secretary



Ron Duncan
Director



Dr. Blair M Ball
Director



Larry Smith
Director



Paul Kielhold
President



June Hayes
Vice President



**T. Milford
Harrison**
Treasurer



Gil J. Botello
Director



Susan Longville
Director

Staff Recommendation:

Consider the next phase of funding for the Delta Conveyance Project (DCP). Each Board may choose to formally support the next phase of funding for DCP at this workshop or may wish to consider scheduling this item for approval at an upcoming Board of Directors meeting.

Discussion Item 2.2 (pg. 5)

Lance Eckhart, PG, CHg - General Manager, San Gorgonio Pass Water Agency

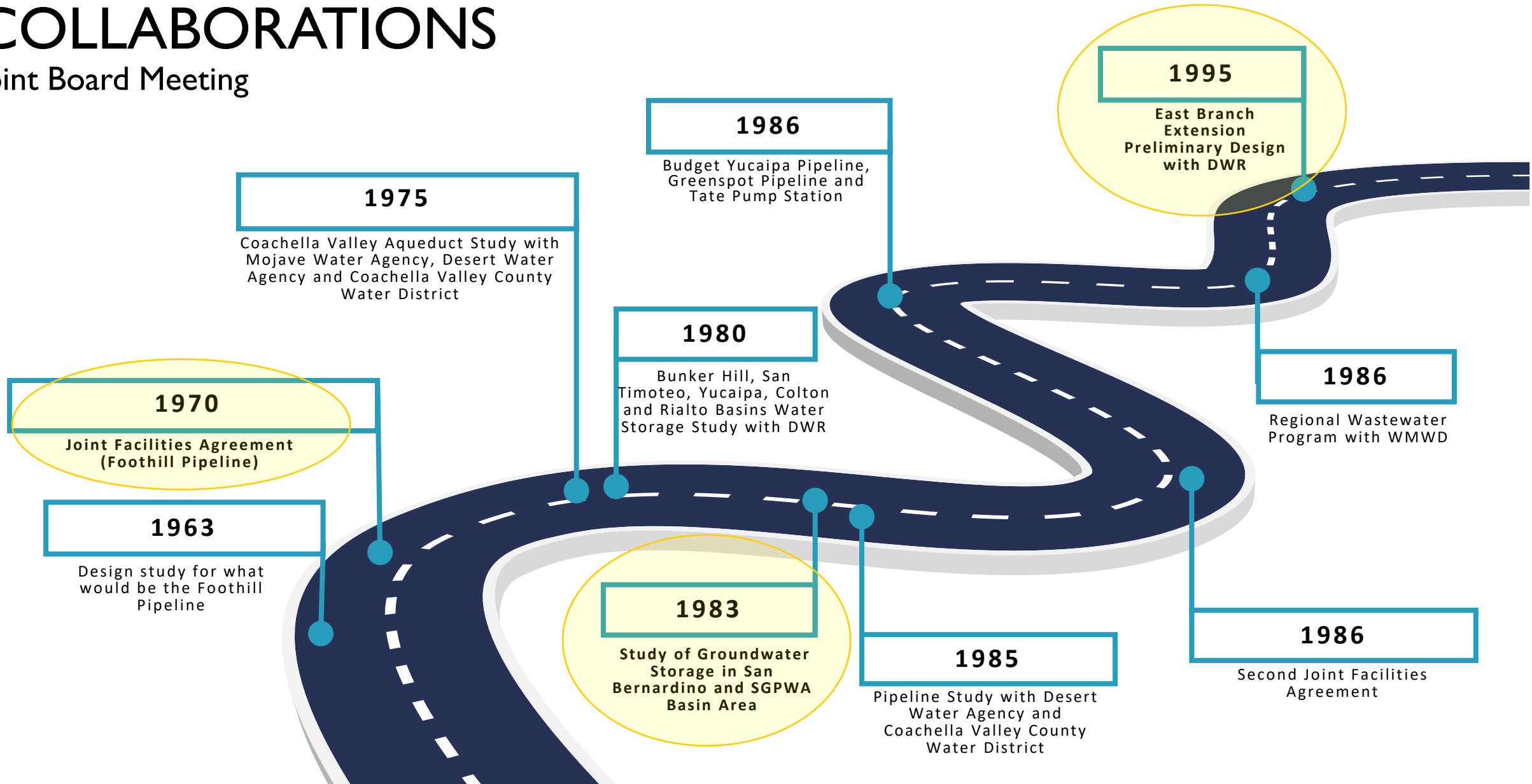
Heather Dyer, MS, MBA - CEO/ General Manager, San Bernardino Valley

Collaborations of San Gorgonio Pass Water Agency and San Bernardino Valley

SGPWA and San Bernardino Valley

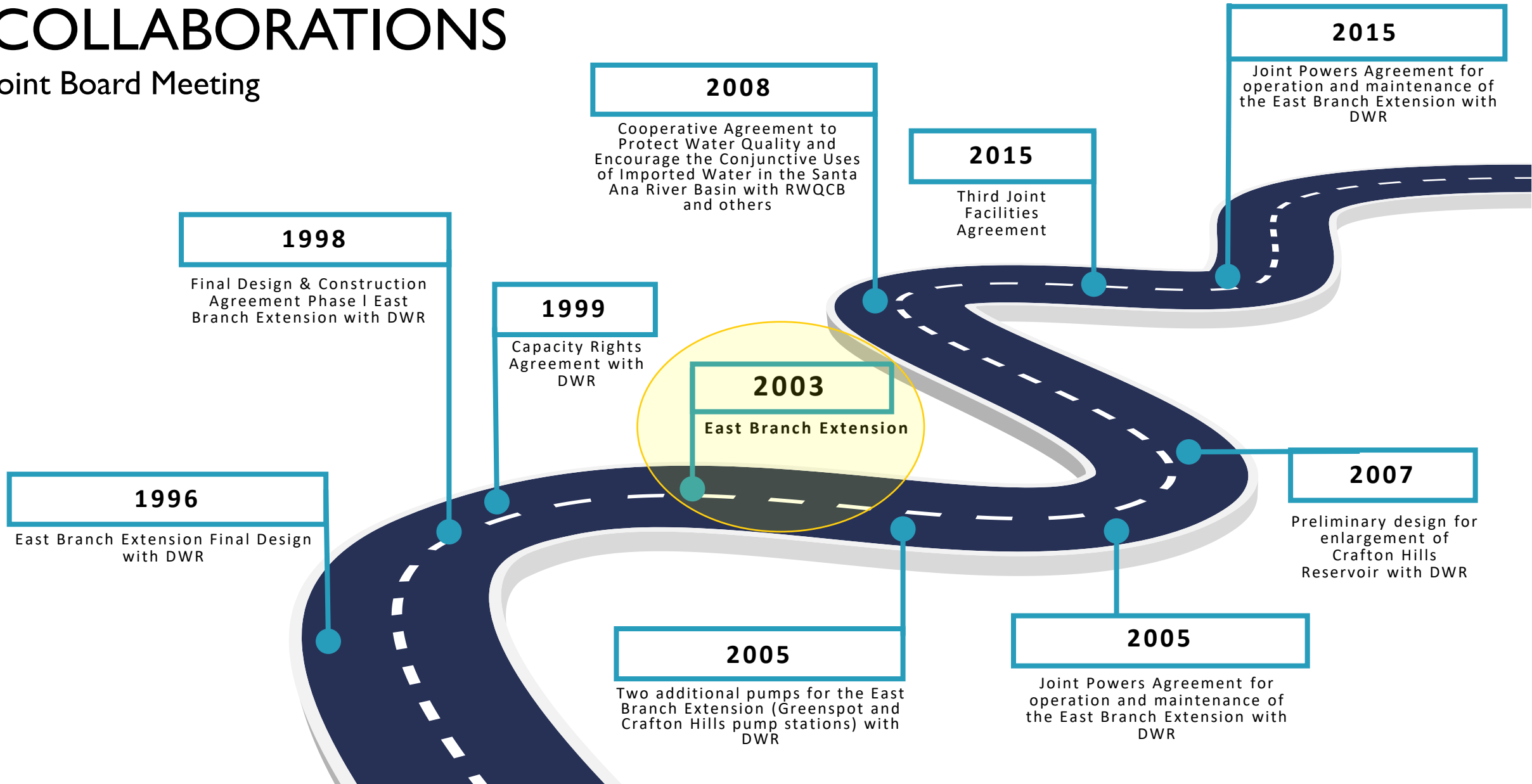
COLLABORATIONS

Joint Board Meeting



SGPWA and San Bernardino Valley COLLABORATIONS

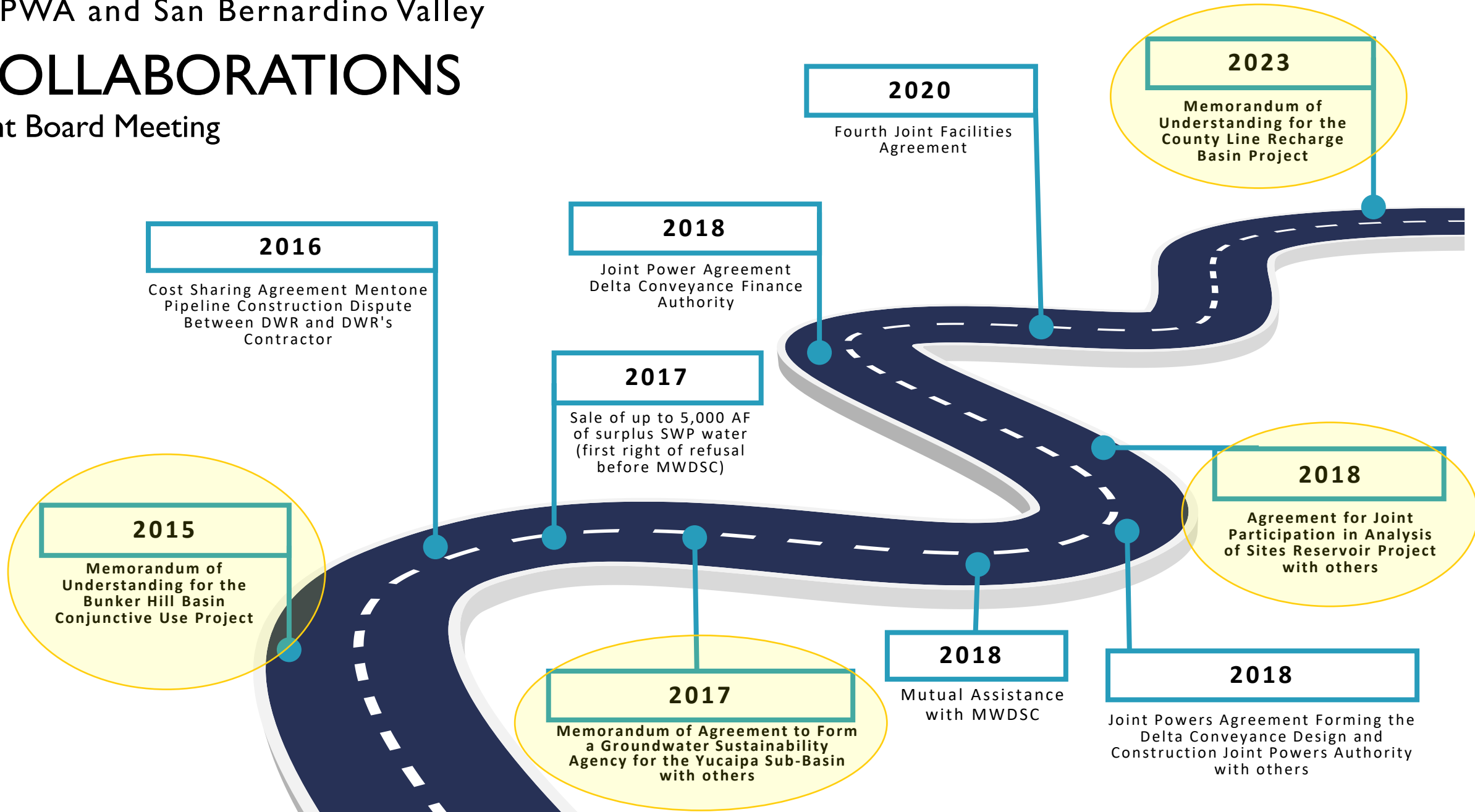
Joint Board Meeting



SGPWA and San Bernardino Valley

COLLABORATIONS

Joint Board Meeting



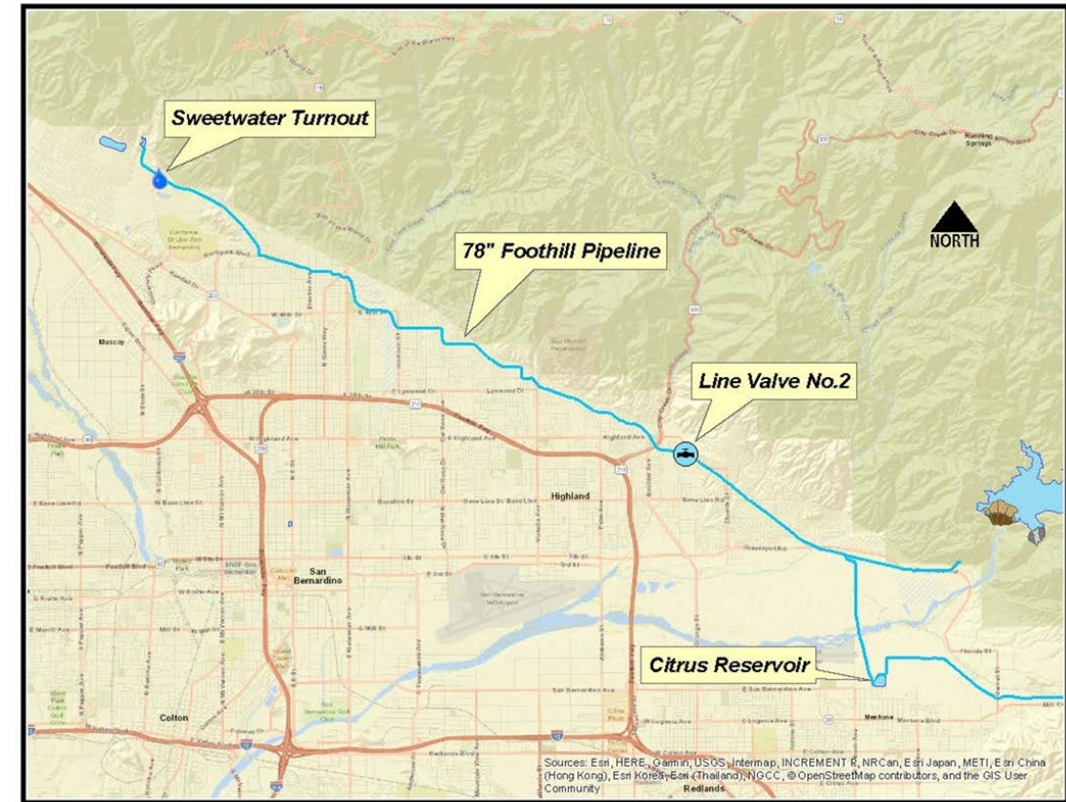
FOOTHILL PIPELINE EARTHTEC INJECTION SYSTEM

OVERVIEW

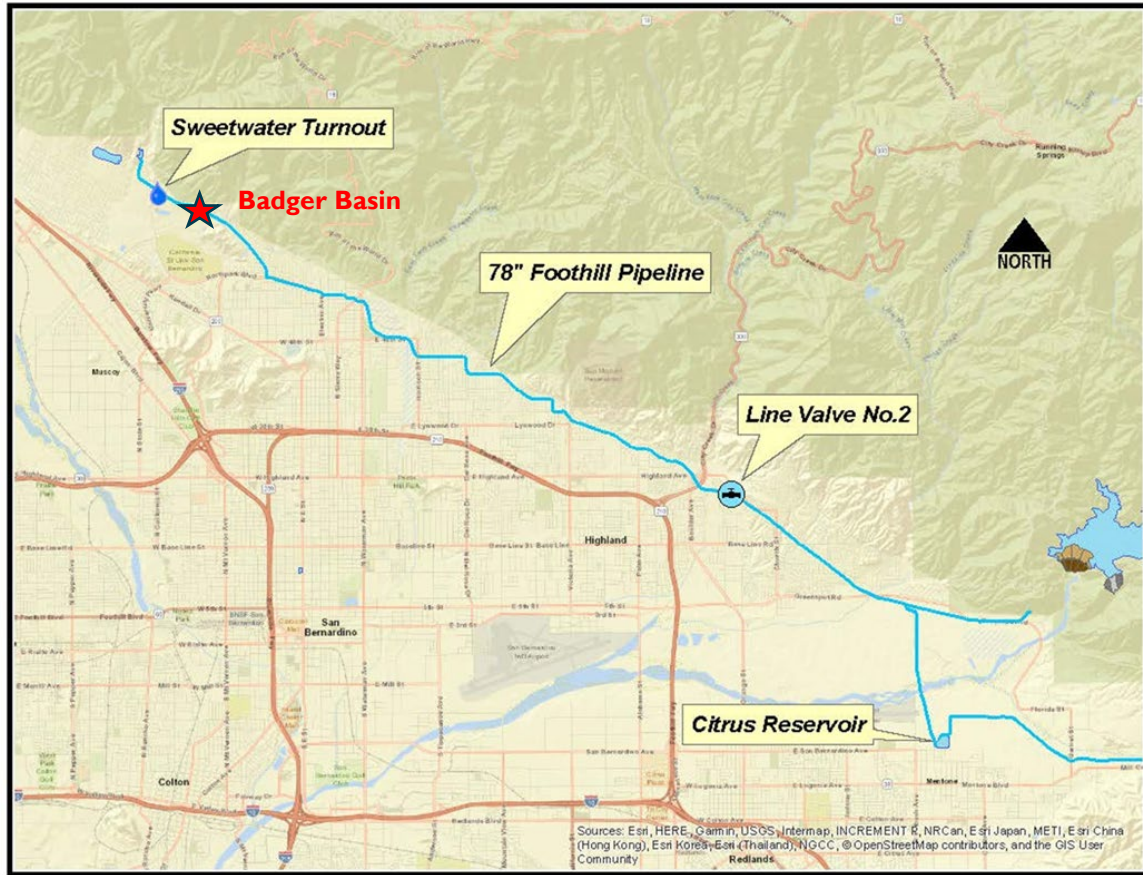
- ✓ Algae tends to reduce groundwater recharge rates and can result in the following:
 - ✓ Clogging
 - ✓ Increased pre-treatment costs in treatment plants
 - ✓ Taste and odor problems in drinking water
- ✓ Two injection systems installed on the Foothill Pipeline to help combat algae growth throughout the SWP delivery system

STATUS

- ✓ Successfully completed in 2019
- ✓ Injection stations have improved the SWP water quality throughout the system
- ✓ Effective tool for the benefit of both agencies



TREATMENT COMPARISON



Badger 10/4 9am



Badger 10/4 9am



Badger 10/5 @9am



Badger 10/5 @9am



Badger 10/9



Badger 10/9



COLLABORATION ON YUCAIPA BASIN

- SB Valley and Pass are the two regional agencies and State Water Contractors overlying the Yucaipa Basin
- Both agencies are active in the Yucaipa Sustainable Groundwater Management Agency, which they helped formed in 2017 with water providers in the Basin
- Groundwater Sustainability Plan for the Basin approved by DWR in January 2024; serves as a basin sustainability roadmap for the next 20 years

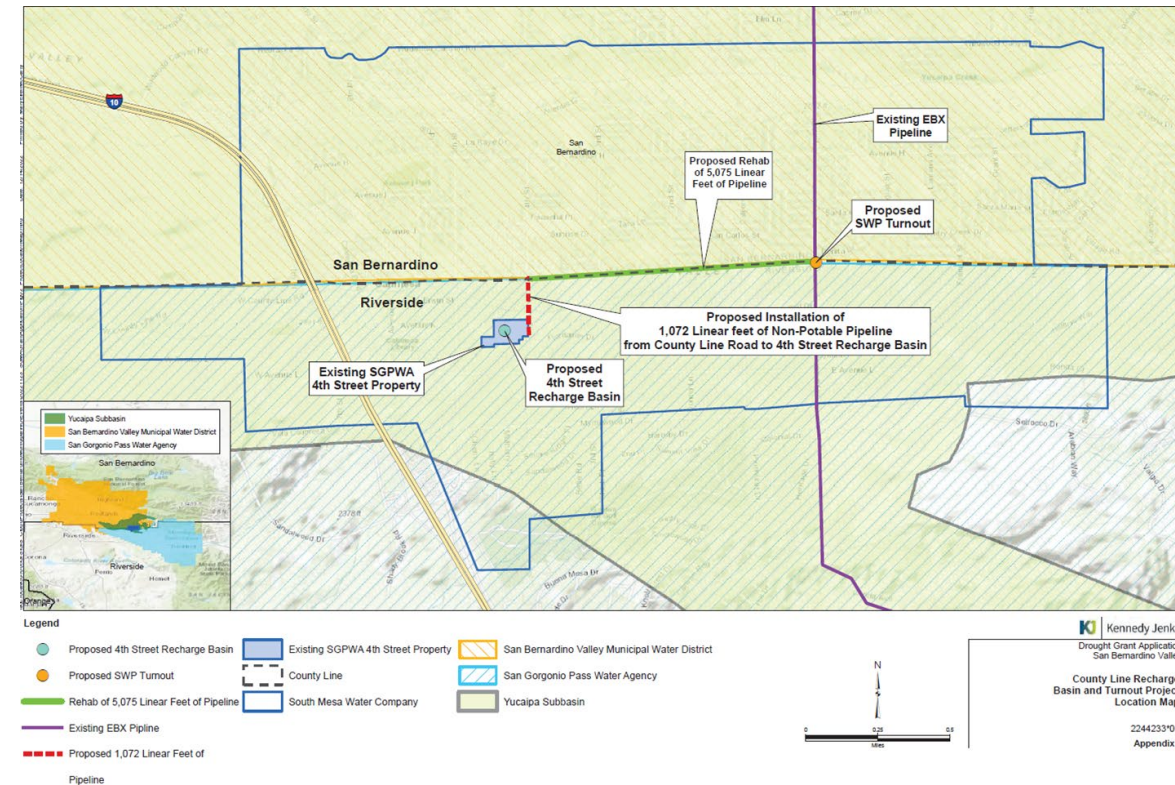
COUNTY LINE TURNOUT AND RECHARGE BASIN

OVERVIEW

- ✓ SB Valley and Pass both participate in Yucaipa GSA
- ✓ DWR has designated the Yucaipa Subbasin as a high-priority basin
- ✓ The Calimesa Management Area (CMA) is one of four management areas within the Yucaipa Subbasin
- ✓ Currently there are no managed aquifer recharge capabilities within CMA
- ✓ The CMA straddles SB Valley's and Pass service areas

PROGRESS UPDATE

- ✓ Both are working together collaboratively, along with South Mesa Water Company, to develop a SWP turnout, conveyance system, and recharge basin to ensure long term groundwater sustainability and reliability within the CMA.
- ✓ Estimated Project Completion: End of 2025



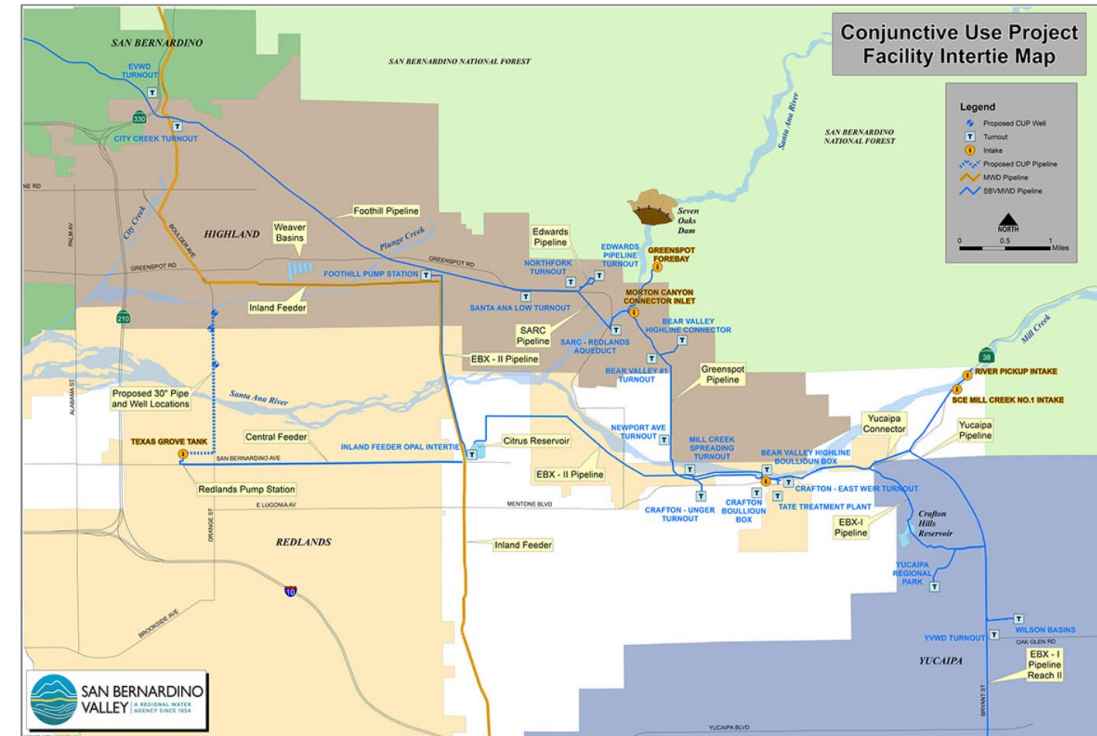
SANTA ANA RIVER AND BUNKER HILL CONJUNCTIVE USE PROGRAMS (SARCCUP & BHCUP)

Overview

- ✓ Operational flexibility for groundwater production
- ✓ Increased yield and water supply reliability
- ✓ Lower overall costs from regional project
- ✓ Mitigation for high groundwater

Goal

- ✓ Complete construction of up to three new wells by 2026 to fulfill grant obligations (*in the planning phase*)
- ✓ More efficient use of supplemental water when available



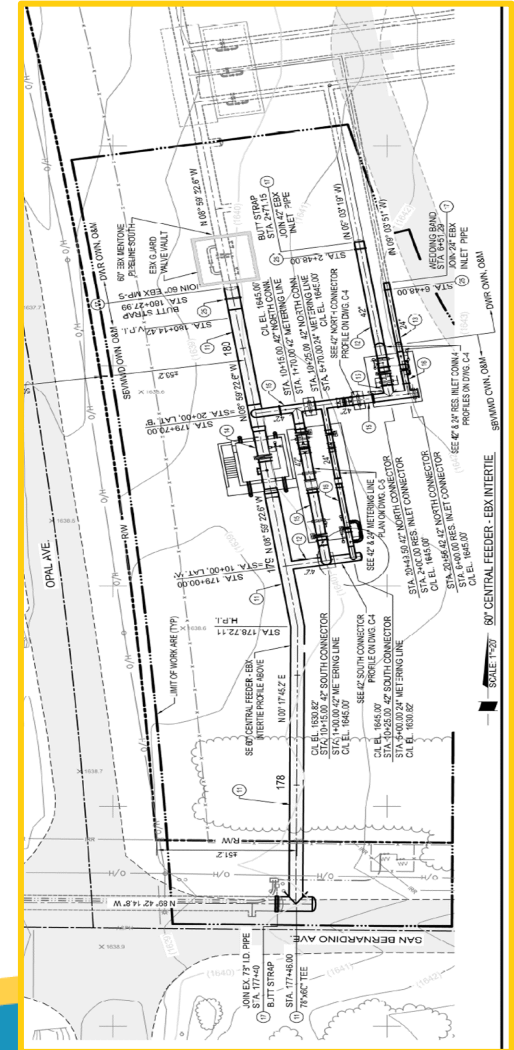
CENTRAL FEEDER – EAST BRANCH EXTENSION INTERTIE

OVERVIEW

- ✓ To connect Central Feeder pipeline to East Branch Extension to facilitate delivery of BHCUP water to YVWD and Pass
- ✓ The intertie would facilitate the bidirectional delivery of both State Water Project and Conjunctive Use water

PROGRESS UPDATE

- ✓ Design plans and specifications = 95% complete
- ✓ DWR Turn-in/Turnout Agreement = In-Progress
- ✓ Estimated completion date: Q1 2025



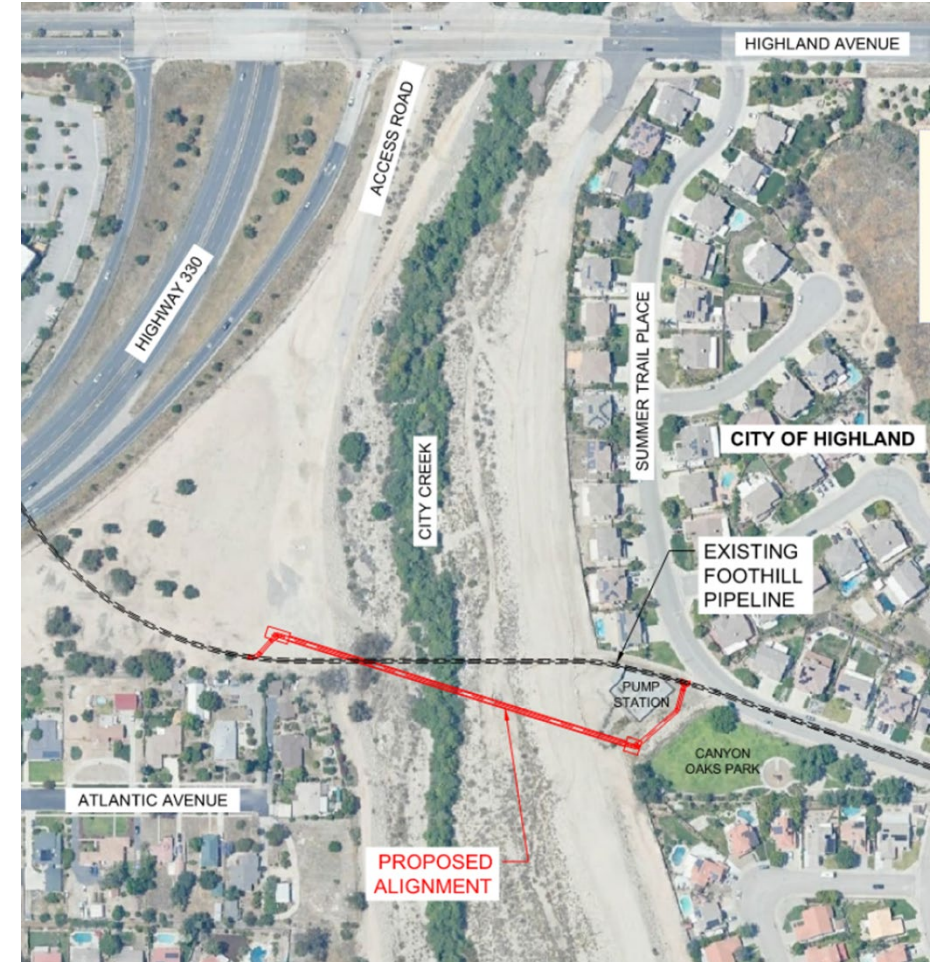
FOOTHILL PIPELINE CROSSING AT CITY CREEK

OVERVIEW

- ✓ 78-inch diameter Foothill Pipeline constructed in the 1970s
- ✓ Since 2006, actively working to protect the portion of the Foothill Pipeline that crosses City Creek from erosion and head-cutting
- ✓ Feasibility study completed in 2023. Recommendation is to tunnel under City Creek

PROGRESS UPDATE

- ✓ Bid plans and specifications are estimated to be complete by September 2024
- ✓ Construction is estimated to be complete by the end of 2025



A scenic mountain landscape at sunset. The sky is a warm, golden yellow, and the mountains are silhouetted against the light. The foreground shows a forest of green and yellow trees. The word "Adjourn" is overlaid in a large, blue, sans-serif font.

Adjourn