



California WaterFix Board Workshop

March 27, 2018

Presentation Outline

- Recap of October 2017 Board Action and Recent Developments
- Allocation of Project Cost/Benefits
- Alternative Financing for Full Project Implementation
- Implementation Agreements
- Upcoming Board Action

Recap

October 2017 Board Action

- Adopt CEQA determination for 9,000 cfs project
- Support participation in 9,000 cfs project
 - 25.9 percent share of overall project costs
- Authorize
 - Design and Construction JPA participation
 - Finance JPA participation
 - Adaptive Management Program participation

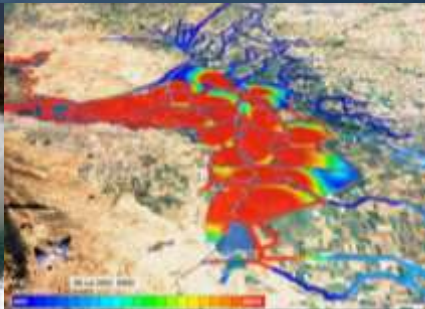
California WaterFix

Recent Developments

- DWR approved CA WaterFix Jul 2017
 - 9,000 cfs, two tunnels, and three intakes
- Public Water Agencies (PWAs) consider CA WaterFix Sep-Oct 2017
- PWAs developing financing options
- DWR announced option of staged construction Feb 2018
- Metropolitan Board directs staff to explore opportunities for full project financing Feb 2018

Benefits of Full Project Implementation

- Expedites environmental and water supply benefits
 - Reverse flow reduction
 - Flexible operations
 - Enhanced coordination between SWP/CVP
 - Seismic resiliency
 - Climate change adaptation
 - Water quality
- Cost savings versus staged approach



Summary of Implementation Issues

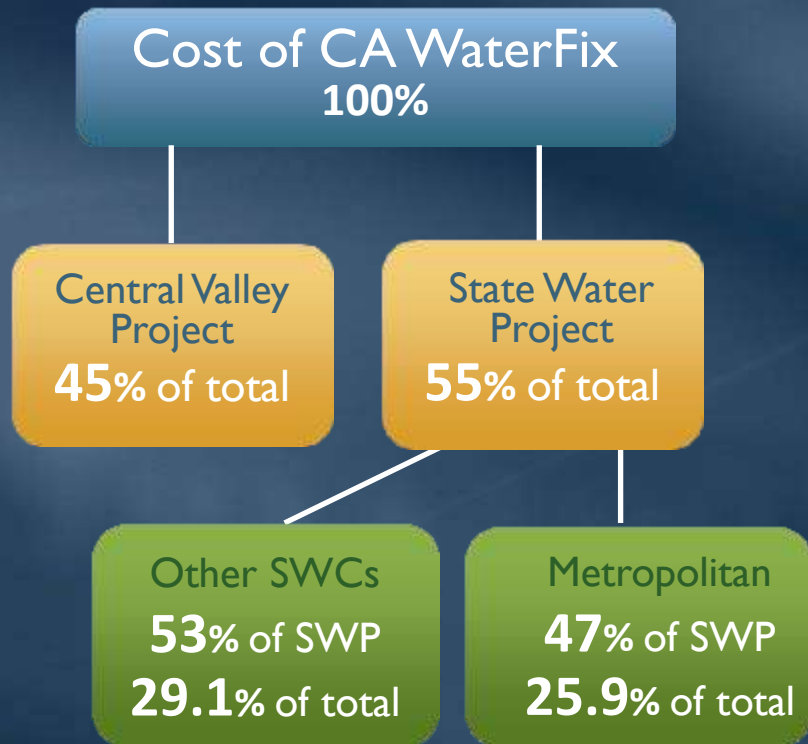
- Central Valley Project PWA Participation
 - USBR Water Contract Administration
 - CVP Contractor financing
- Allocation of Project Costs/Benefits
- State Water Project (SWP) PWA Water Transfers

An aerial photograph of a winding river, likely the Colorado River, showing a dirt road and vegetation along its banks. The river is a deep blue, and the surrounding land is a mix of green and brown. The title text is overlaid on the right side of the image.

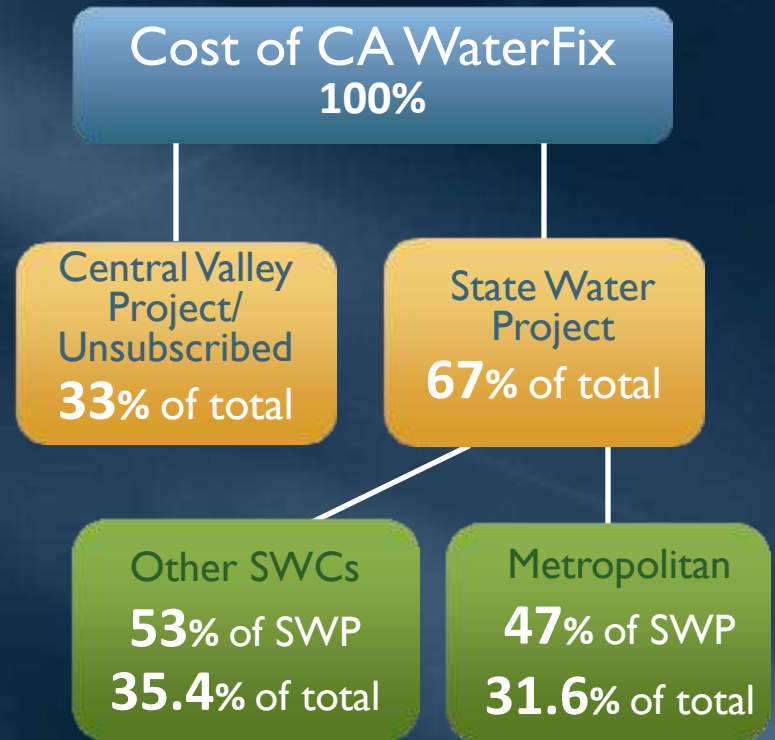
Allocation of Project Cost/Benefits

California WaterFix

October 2017

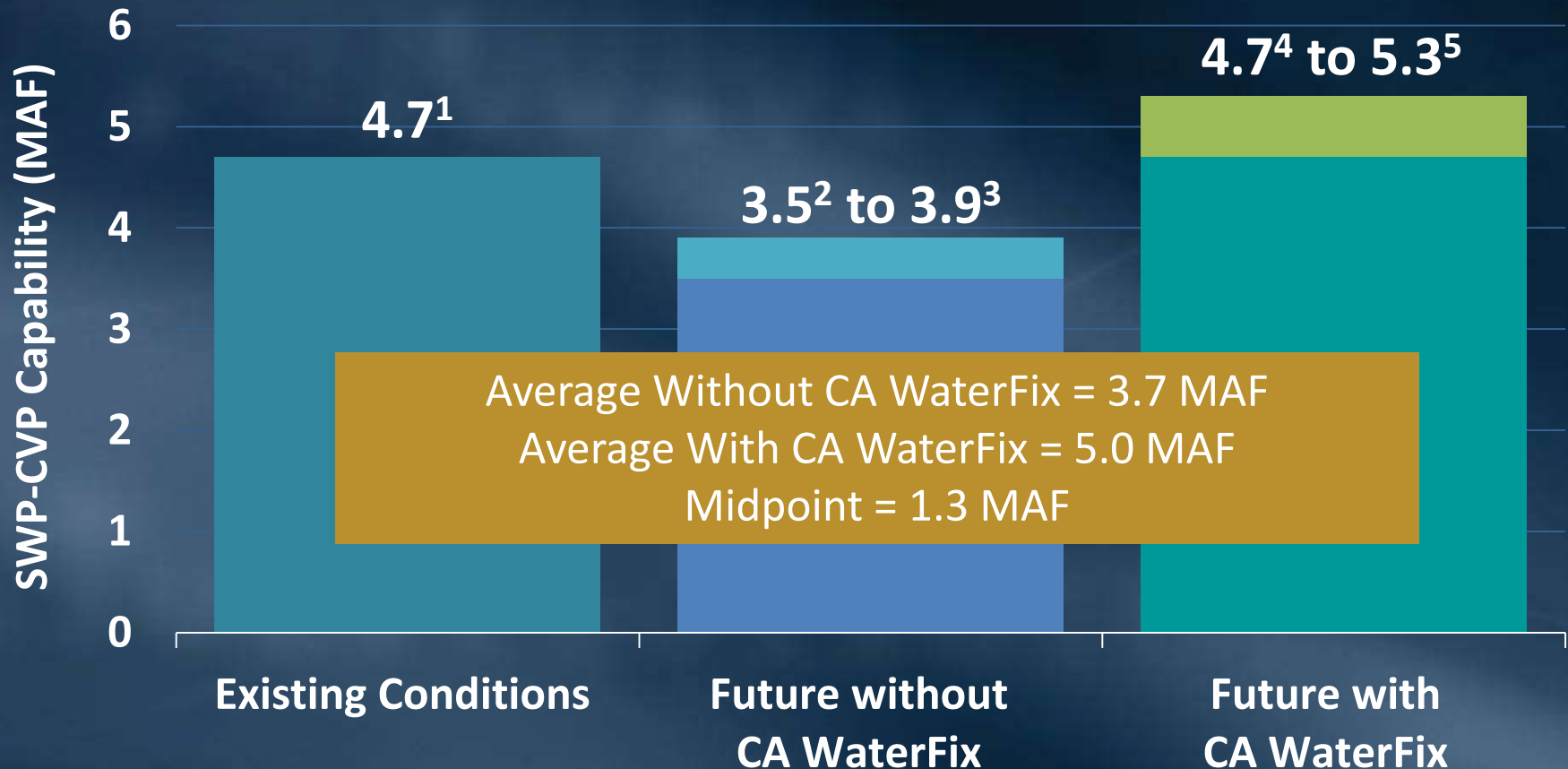


March 2018



California WaterFix Water Supply Analysis

Average Delivery Capability With & Without CA WaterFix



¹ California WaterFix EIR/EIS No Action Alternative, existing conditions with 2025 climate change impacts

² 2015 Delivery Capability Report Existing Conveyance High Outflow scenario

³ 2015 Delivery Capability Report Existing Conveyance Low Outflow scenario

⁴ California WaterFix EIR/EIS Alternative 4A-H4, initial operating criteria lower range

⁵ California WaterFix EIR/EIS Alternative 4A-H3, initial operating criteria upper range

California WaterFix

Water Supply Improvement Comparison

Incremental Improvement	October 2017 4,950 cfs SWP (55%) 4,050 cfs CVP (45%)	March 2018 6,000 cfs SWP (67%) 3,000 cfs CVP (33%)
Total	1,300,000 AF	1,300,000 AF
CVP	585,000 AF	429,000 AF
SWP	715,000 AF	871,000 AF
MWD	337,000 AF (25.9% of total)	410,000 AF (31.6% of total)

Based on preliminary Metropolitan analysis

California WaterFix

Cost Analysis (2017 Dollars)

	October 2017 4,950 cfs SWP (55%) 4,050 cfs CVP (45%)	March 2018 6,000 cfs SWP (67%) 3,000 cfs CVP (33%)
Metropolitan Share	25.9 %	31.6 %
Metropolitan Capital Cost	\$4.3 billion	\$5.3 billion
Marginal Cost		
• South Delta Pumps	\$613 /AF	\$613 /AF
• Delivered/Treated	\$840 /AF	\$840 /AF
Overall Metropolitan Budget Impact		
• Overall Increase ¹ (at end of 15-ys)	13 %	16 %
• Annual Increase	0.9 %	1.1 %
• Average Increase per AF ²	\$122 /AF	\$148/AF
Household Cost³	\$1.90 / month	\$2.40 / month

(1) Based on Metropolitan's 2017/18 Revenue Requirement of \$1,574 M; assume 4% interest rate base case

(2) Approximate based on Metropolitan's 2017/18 sales budget of 1.70 million acre-feet

(3) Household impact based on 6.2 million occupied residential households in MWD Service area, 70% residential / 30% industrial split.

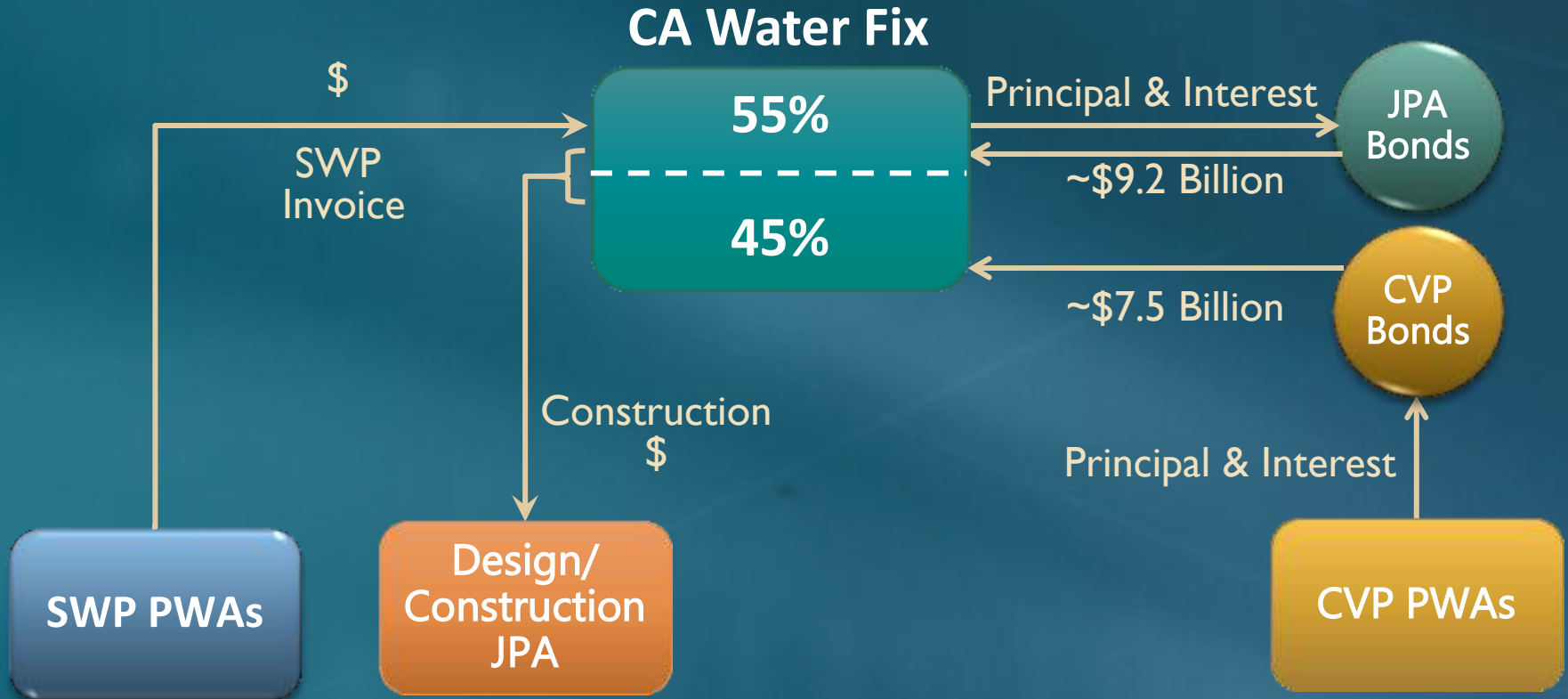
An aerial photograph of a winding river or canal. The water is a deep blue-grey color. Along the banks, there are patches of green vegetation and areas of exposed brown earth or sand. A dirt road or path runs along one of the curves of the river. The overall scene is captured from a high angle, looking down at the water and the surrounding land.

Alternative Financing for Full Project Implementation

Alternative Financing for Full Project Implementation

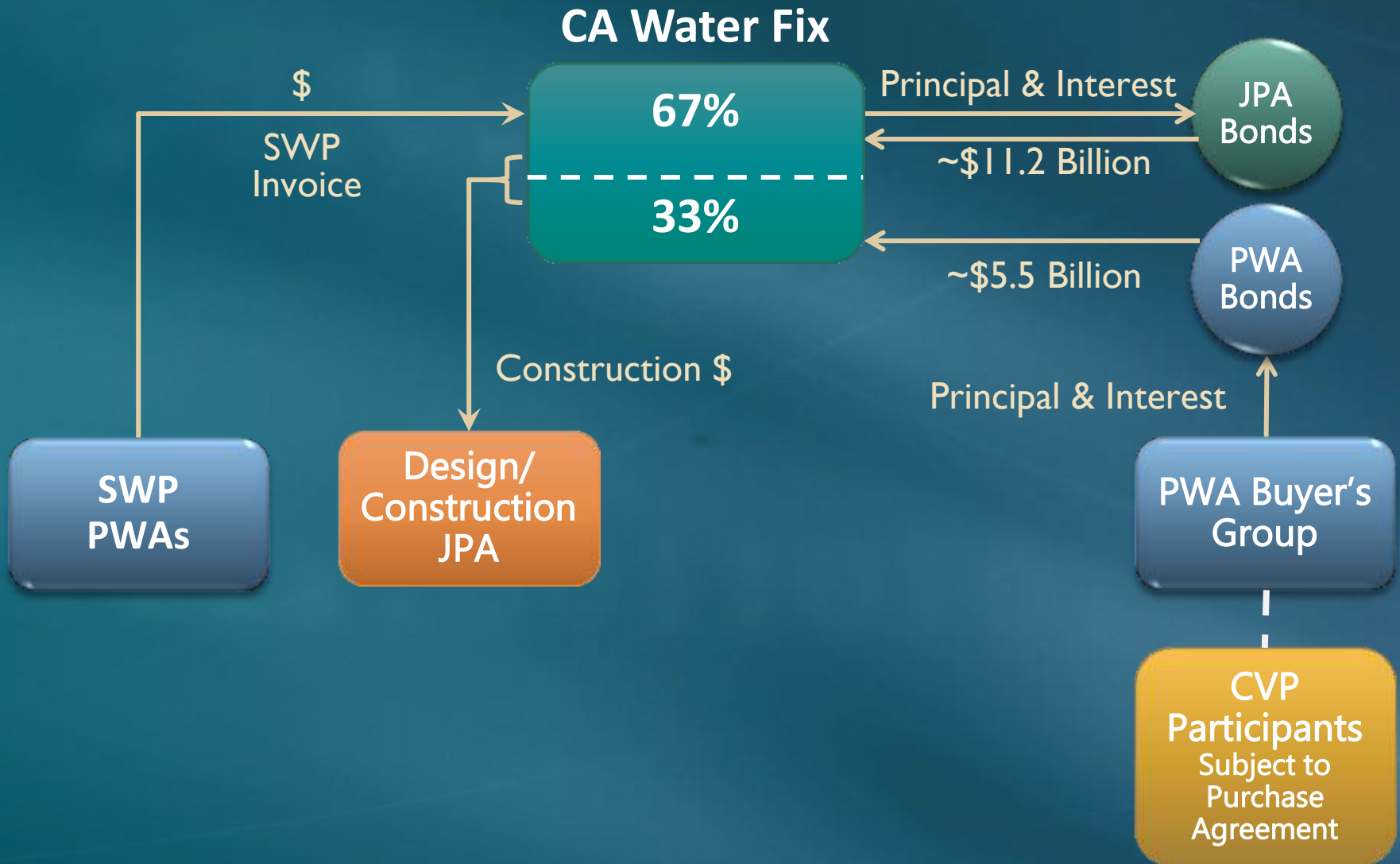
- Board request -- Consider implementing full project now
 - Evaluate financing unsubscribed capacity for sale/lease
- Overarching principles
 - Maintain consistency with approved project
 - Promote participation by other SWP/CVP contractors to minimize MWD financial impacts
 - Beneficiaries pay
 - Minimize financial risks to MWD

Cost Allocation and Financing



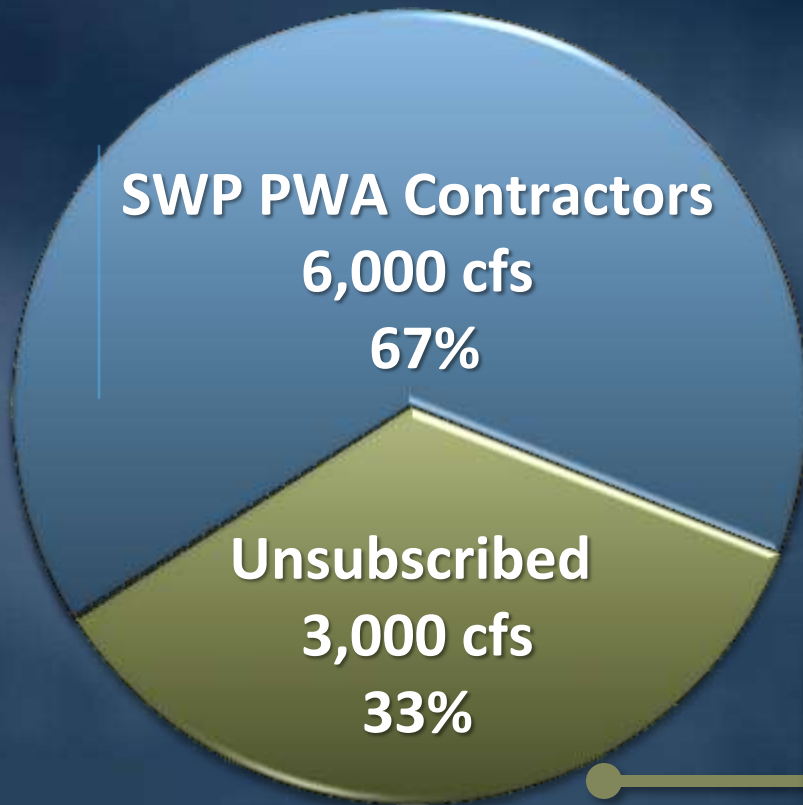
Cost Allocation and Financing

Acquire CVP PWA Share and Subsequent Purchase by CVP PWAs



California WaterFix

Benefit of 33% Unsubscribed Share



Acquisition by SWP “Buyer’s Group”

- Sale/lease to CVP Participants
- Improved water supply reliability
- Wheeling revenue
- Conveyance of transfers/Sites Reservoir water

Based on preliminary Metropolitan analysis

Metropolitan's Financial Exposure

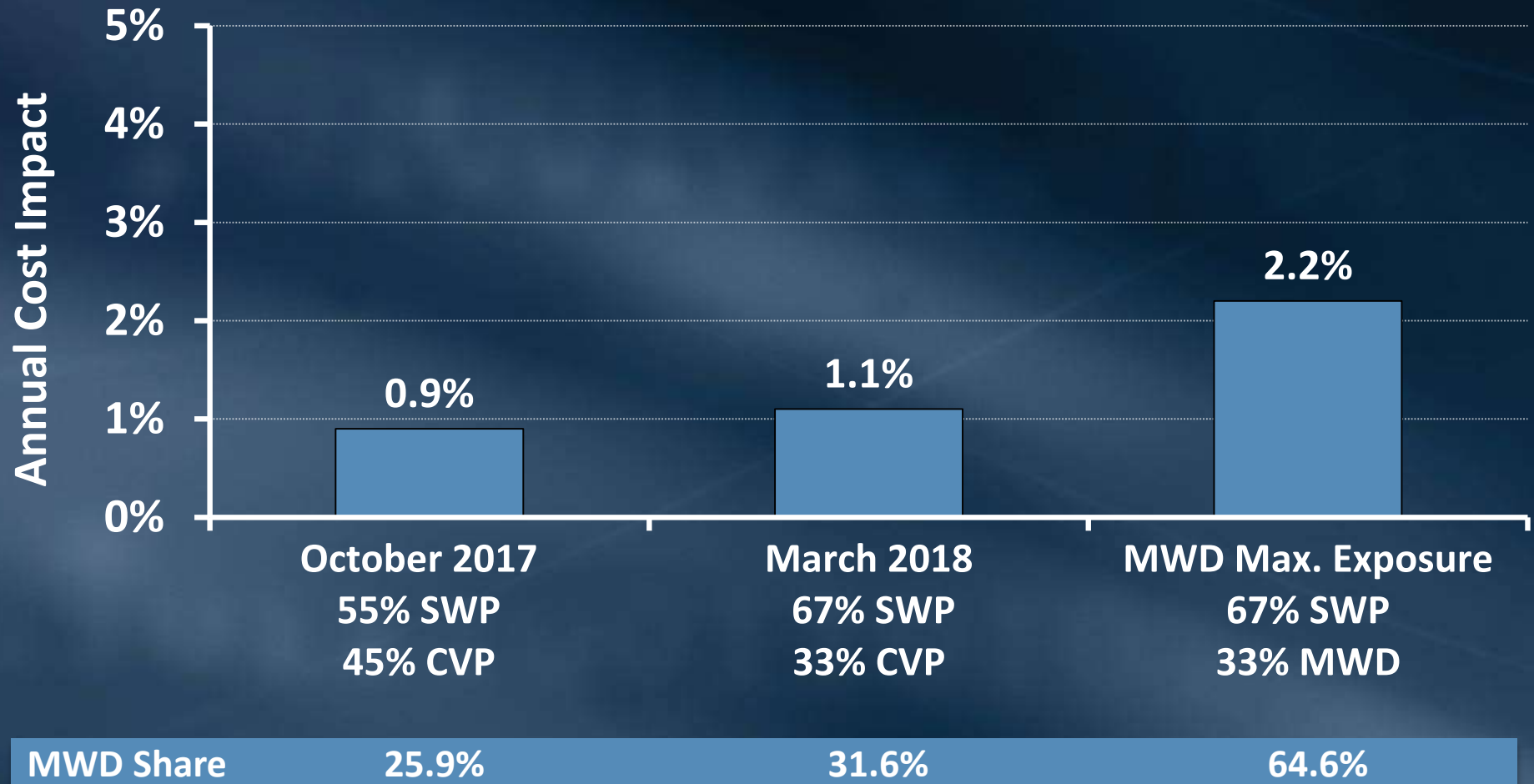
33% Unsubscribed Share Cost Analysis (2017 Dollars)

	March 2018 6,000 cfs SWP (67%) 3,000 cfs CVP (33%)	Maximum Exposure 6,000 cfs SWP (67%) 3,000 cfs MWD (33%)
Metropolitan Share	31.6%	64.6%
Metropolitan Capital Cost	\$5.3 billion	\$10.8 billion
Overall Metropolitan Budget Impact		
• Annual Increase	1.1 %	2.2 %
• Overall Increase (at end of 15-yrs) ¹	16 %	33 %
Household Cost²	\$2.40 / month	\$4.80 / month

(1) Based on Metropolitan's 2017/18 Revenue Requirement of \$1,574 M; assume 4% interest rate base case

(2) Household impact based on 6.2 million occupied residential households in MWD Service area, 70% residential / 30% industrial split.

Annual Cost Impact



*Based on 4% base interest rate
Applies over the period of construction*



Proposed Implementation Agreements Key Terms

DWR Master Agreement

● Objective

- Provide for financing and purchase of unsubscribed share of CA WaterFix
- DWR to assign interest in CA WaterFix capacity to Buyer's Group
- DWR operates CA WaterFix to maximize water supply benefits consistent with operating requirements

● Participants

- Department of Water Resources
- Metropolitan/other SWP "Buyer's Group" members

DWR Master Agreement

● Key Terms

- Buyer's Group retains rights to capacity for the life of CA WaterFix
- Buyer's Group shall determine fair compensation for the movement of water through their capacity interest
- Buyer's Group has rights to convey capacity interest in CA WaterFix
- Obligations for capital payments continue until all debt is paid
- Obligations for O&M payments continue for the life of the CA WaterFix

Capacity Purchase Agreement

Objective

- To convey up to 33% capacity interest from Buyer's Group to CVP Participants
- Protect Buyer's Group from financial risk

Parties

- Buyer's Group (MWD and other SWP PWAs)
- CVP Participants preferably through San Luis & Delta Mendota Water Authority

Key Terms

- Buyer's Group provides financing for project during construction
- Upon completion of construction, CVP Participants fully compensate Buyer's Group
- Non-refundable upfront payment to Buyer's Group
- Non-refundable progress payments during construction period to Buyer's Group
- Sufficient security to minimize default risk

An aerial photograph of a winding river or canal. The water is a deep blue-grey color. The banks are lined with a mix of green vegetation and brown, dry-looking earth. A dirt road or path runs along the inner curve of the bend in the river. The overall scene is captured from a high angle, looking down at the water and the surrounding landscape.

SWP Water Transfer Agreements

SWP Water Transfer Agreements

● Framework

- All south of Delta contractors pay their proportional share of CA WaterFix cost
- SWP Contractors selling incremental CA WaterFix water reliability benefits
- Buyer pays 85% of seller's CA WaterFix cost
- Costs align with benefits
- Individual agreements may vary

● Potential Participants

Sellers

- Kern County
- Dudley Ridge
- Tulare Lake Basin
- County of Kings
- Oak Flat
- Empire West Side

Buyers

- Santa Clara
- San Geronio Pass
- Metropolitan
- Others

SWP Water Transfer Agreements

Agreement Template/Key Terms

- Reliability improvement from CA WaterFix
 - Buyer receives Table A (~81% of improvement)
 - Seller retains Article 21 (~19% of improvement)
- Table A supplies can be scheduled unlike Article 21
- Buyer receives additional transfer benefits should an emergency occur longer than 12 months

SWP Water Transfer Agreements

Agreement Template/Key Terms

- Seller
 - Pays all SWP costs including CA WaterFix costs to DWR
 - Receives 85% reimbursement from buyer, effectively paying 15% of CA WaterFix costs
 - Retains access to Article 21 supplies
 - Retains conveyance capacity for non-project transfers
 - Retains 12 months emergency conveyance for base supply

SWP Water Transfer Agreements

Agreement Template/Key Terms

- Buyer
 - Receives reliability improvement in Table A supplies from CA WaterFix
 - Transfer amount linked to SWP allocation and determined in advance
 - In the event of an emergency lasting longer than 12 months, Buyer receives additional transfer supplies
 - Pays Seller 85% of Seller's CA WaterFix cost

SWP Water Transfer Agreements

Agreement Template/Key Terms

- Example for water transfer of 100,000 AF Base Table A

SWP Allocation	Transfer Water (AF) *
0 to 10%	-
11 to 20%	200
21 to 30%	3,000
31 to 40%	6,000
41 to 50%	7,000
51 to 60%	7,000
61 to 70%	13,000
71 to 80%	22,000
81 to 90%	25,000
91 to 100%	26,000

* Initial analysis, amounts modeled every five years at a minimum

An aerial photograph of a winding river or canal. A dirt road follows the curve of the water body, which is bordered by green vegetation and some trees. The water is a deep blue color. The title "Gap Funding Agreement" is overlaid in the center in a large, bold, yellow font with a black outline.

Gap Funding Agreement

Gap Funding Agreement

- Terms
 - Provides start-up funding prior to issuance of bonds
 - All south of Delta participants pay their fair share
 - Gap funding will be reimbursed with interest upon first bond issuance
- Provides funding for permitting, geotechnical and design

Gap Funding Agreement

- Duration 12 months
- Budget \$133 million
- Funding
 - SWP Participating agencies and State Water Resources Development System Funds

Preliminary list of agencies that may seek authorization: Antelope Valley-East Kern Water Agency, Coachella Valley Water District, Desert Water Agency, Metropolitan Water District, Mojave Water Agency, San Bernardino Valley Municipal Water District, San Geronio Pass Water Agency, Santa Clara Valley Water District, and Zone 7 Water Agency

Upcoming Board Action

- The board will be asked to consider two main actions:
 - Funding Metropolitan's share of the SWP's 67% (31.6% of the total)
 - Financing the unsubscribed 33% through the SWP Buyer's Group with contracts executed obligating CVP Participants to pay up to 33% of the cost

