



Engineering & Operations Committee

# State Water Project Dependent Area Solutions: Drought Action Planning Update

Item 6a

May 10, 2022

# SWP Dependent Area Solutions: Overview

## Issue

Some areas face significant challenges in a severe drought on the SWP system

## Committed to Resolve this Issue

Identifying and implementing measures to ensure all portions of the service area attain a high level of reliability against multi-year, severe droughts

### Current Drought Emergency

Actively manage through current  
severe conditions

### Future Severe Drought

Urgently prepare for the next  
severe drought

# Standard Operation





# Current Extraordinary Drought Operation





# Current Extraordinary Drought Operation



## Actions to Address Historic Drought

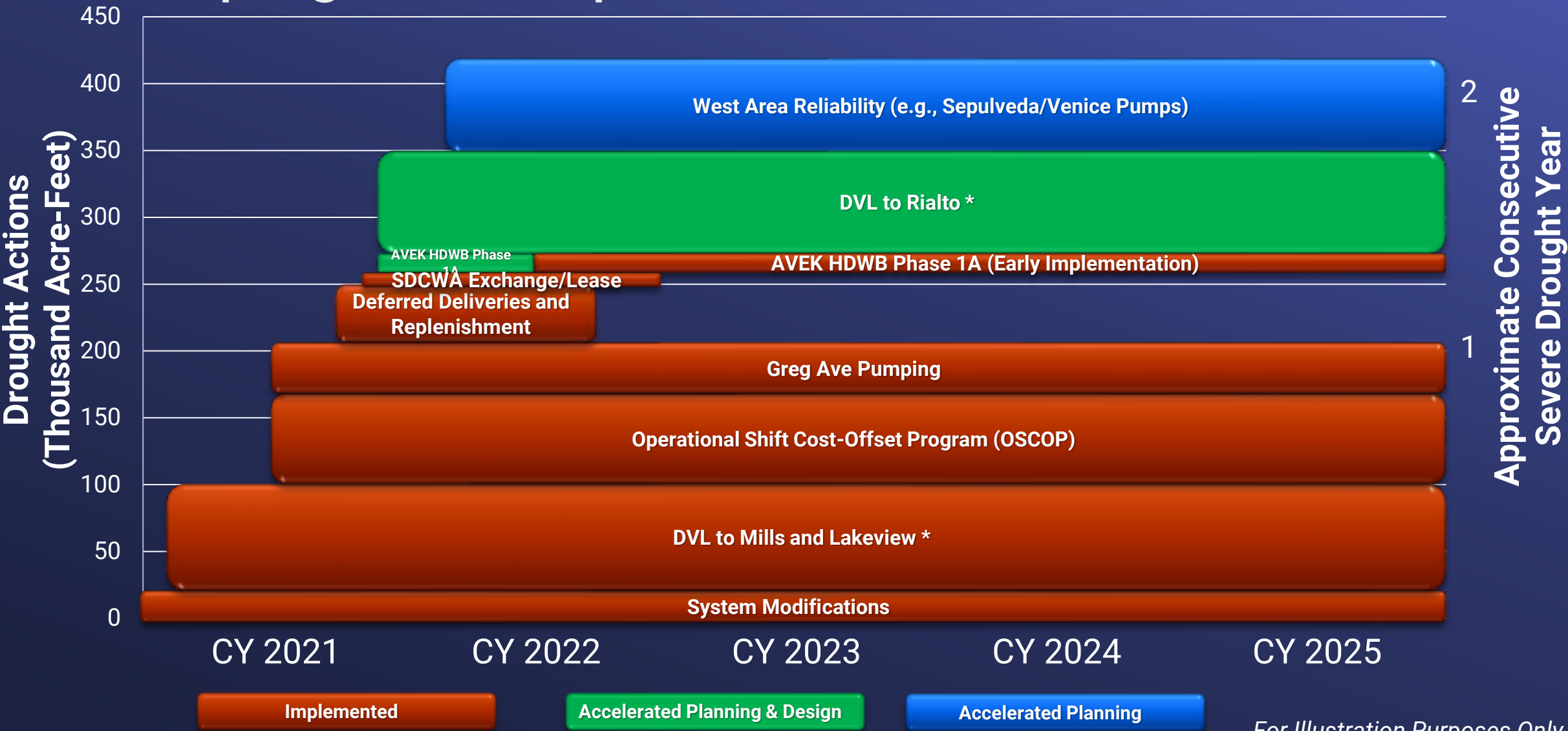
### Board Actions

- Operational Shift Cost Offset Program (2021)
- DVL to Rialto Improvements (2021)
- SBVMWD Exchange (2021)
- SDCWA Exchange/Lease (2021)
- West Area Reliability Studies (2022)
- Reverse Cyclic Program (2022)

### Member Agency Activities

- SWP Dependent Areas Coordination Meetings
  - Brainstormed ideas and solutions
  - Prepared Drought Action Briefing Sheets
- Drought Action Planning and Development Workshops
  - Workshop #1: April 22
  - Workshop #2: June 10
  - Workshop #3: June 17

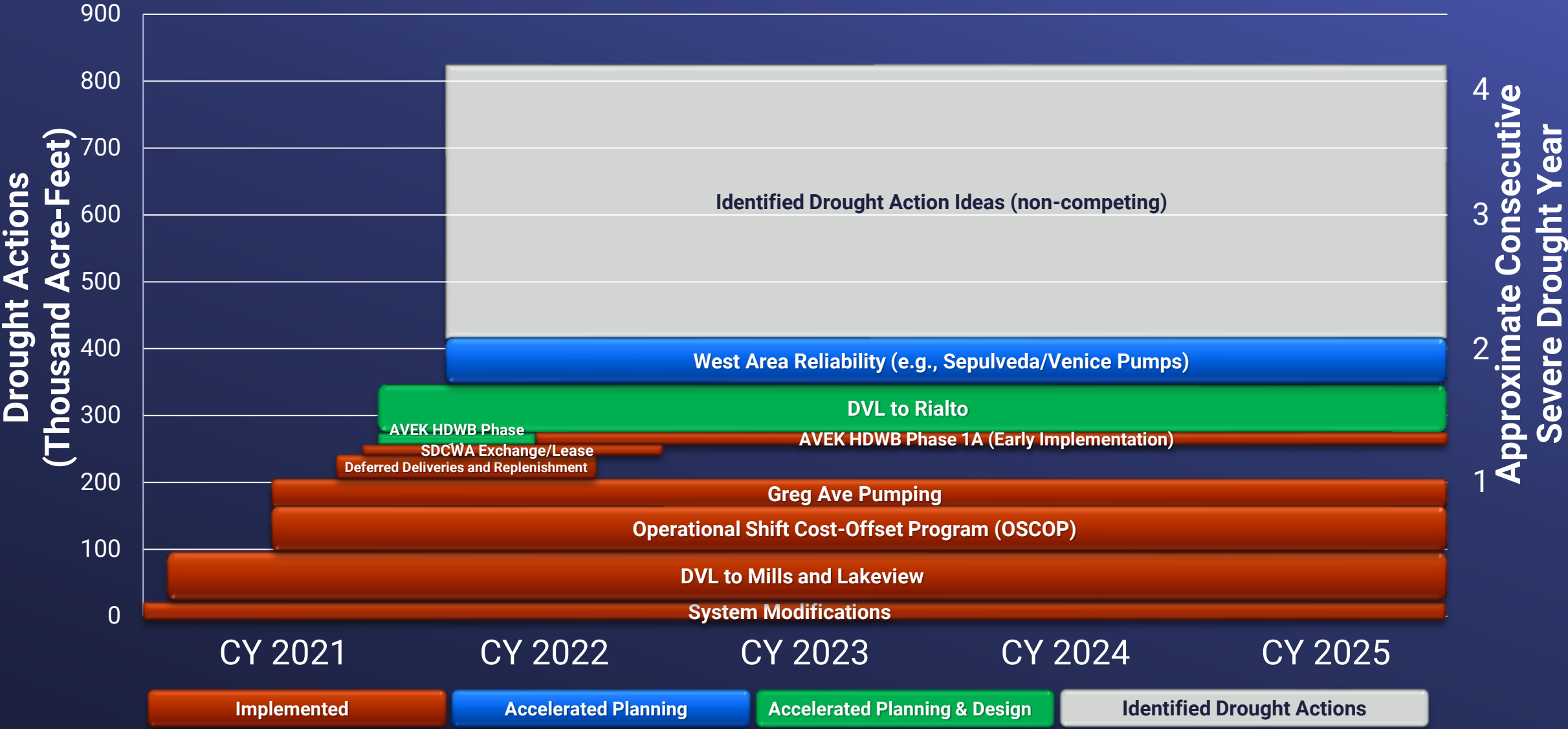
# Developing SWP Dependent Area Solutions



\* Possible use of CRW through Wadsworth Pumping Plant if DVL storage is depleted

For Illustration Purposes Only  
Approximate Scale

# Developing SWP Dependent Area Solutions





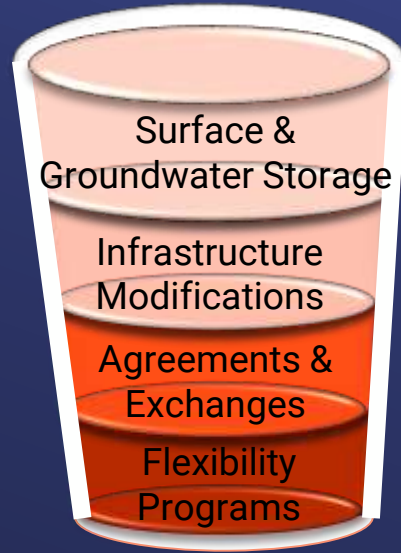
# SWP Dependent Area Solution – Ideas and Moving Forward



Region Wide  
Idea  
Generation and  
Alternative  
Identification

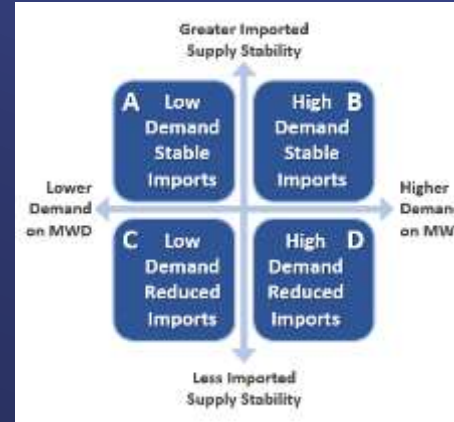


Drought  
Action  
Briefing  
Sheets



Portfolios of  
Drought  
Actions

Late Summer 2022



Evaluate the  
benefits of each  
option or  
portfolio, and  
test benefits



Develop an  
action plan



Implement  
Action  
Plan

SWP Dependent Area Solutions (workshops)

SWP Dependent Area Solutions – Decision Process

SWP Dependent Area Solutions

# Developing Assessment/ Planning Tools

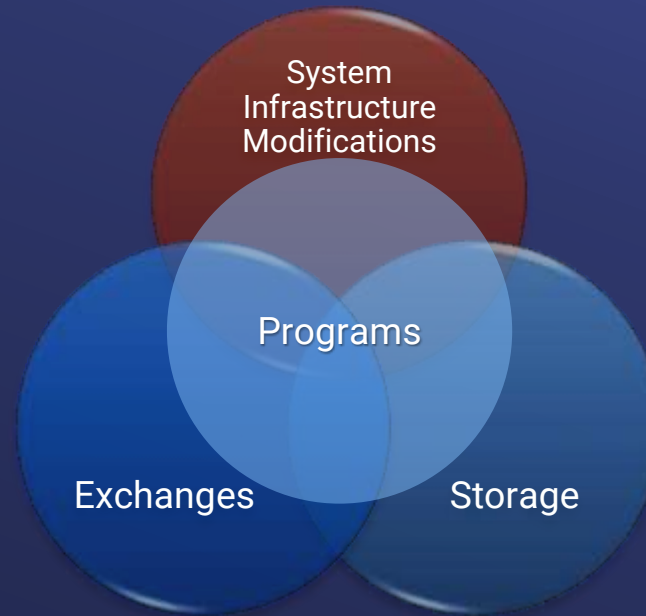
	Future Action	Potential Yield TAF/Year	Cost	Criteria A	Criteria B
<input checked="" type="checkbox"/>	New Interconnections Project	80-100			
<input checked="" type="checkbox"/>	Increased Banking Takes	5			
<input checked="" type="checkbox"/>	Additional Exchange	5			
<input checked="" type="checkbox"/>	New Pump Stations in Area A	<del>70</del>			
<input checked="" type="checkbox"/>	Expanded Banking Program	70			
<input checked="" type="checkbox"/>	Expanded Pump Station in Area A	70			
<input checked="" type="checkbox"/>	New Pump Station in Area B				
<input type="checkbox"/>	New Pump Station in Area B				
<input type="checkbox"/>	CRW to Area B				
<input type="checkbox"/>	Expanded Banking Program				
<input type="checkbox"/>	New Reservoir				
<input type="checkbox"/>	More Options				
	<b>Total</b>	<b>230-250</b>			

Smart tools assist in more comprehensive understanding of various mixes of projects/programs

Some projects may be mutually exclusive

# Drought Action Planning & Development

## Idea Sharing



General categories of  
drought actions

- Examples of drought action ideas generated by both Metropolitan and member agencies

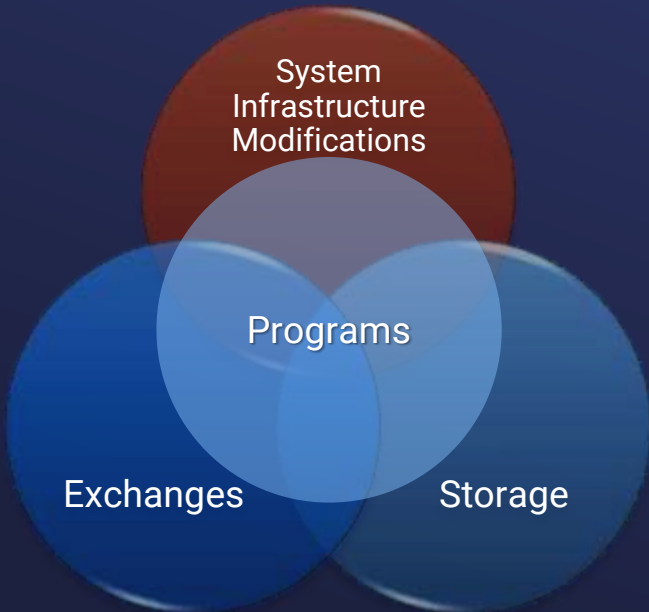


# Examples of drought action ideas generated by both Metropolitan and member agencies

- Operational Shift Cost-Offset Program
- Reverse Cyclic Program
- Antelope Valley – East Kern Banking Program
- DVL to Rialto Delivery
- Sepulveda Feeder Reverse Flow (Venice/Sepulveda Pump Stations)
- Exchanges
- Three Valley Municipal Water District Enhanced (TVMWD) JWL Pumpback
- Burbank Water and Power shift
- Las Virgenes Municipal Water District (LVMWD) Interconnection

# System Infrastructure Modifications

Example: TVMWD



## TVMWD Enhanced JWL Pumpback

- Upgrade/expand existing TVMWD pumpback system
- Deliver additional treated Colorado River water via existing service connection
  - Up to 30 cfs
- Potentially shift 100% of TVMWD SWP use to Colorado River water
  - Potential near-term project (~Fall 2023)

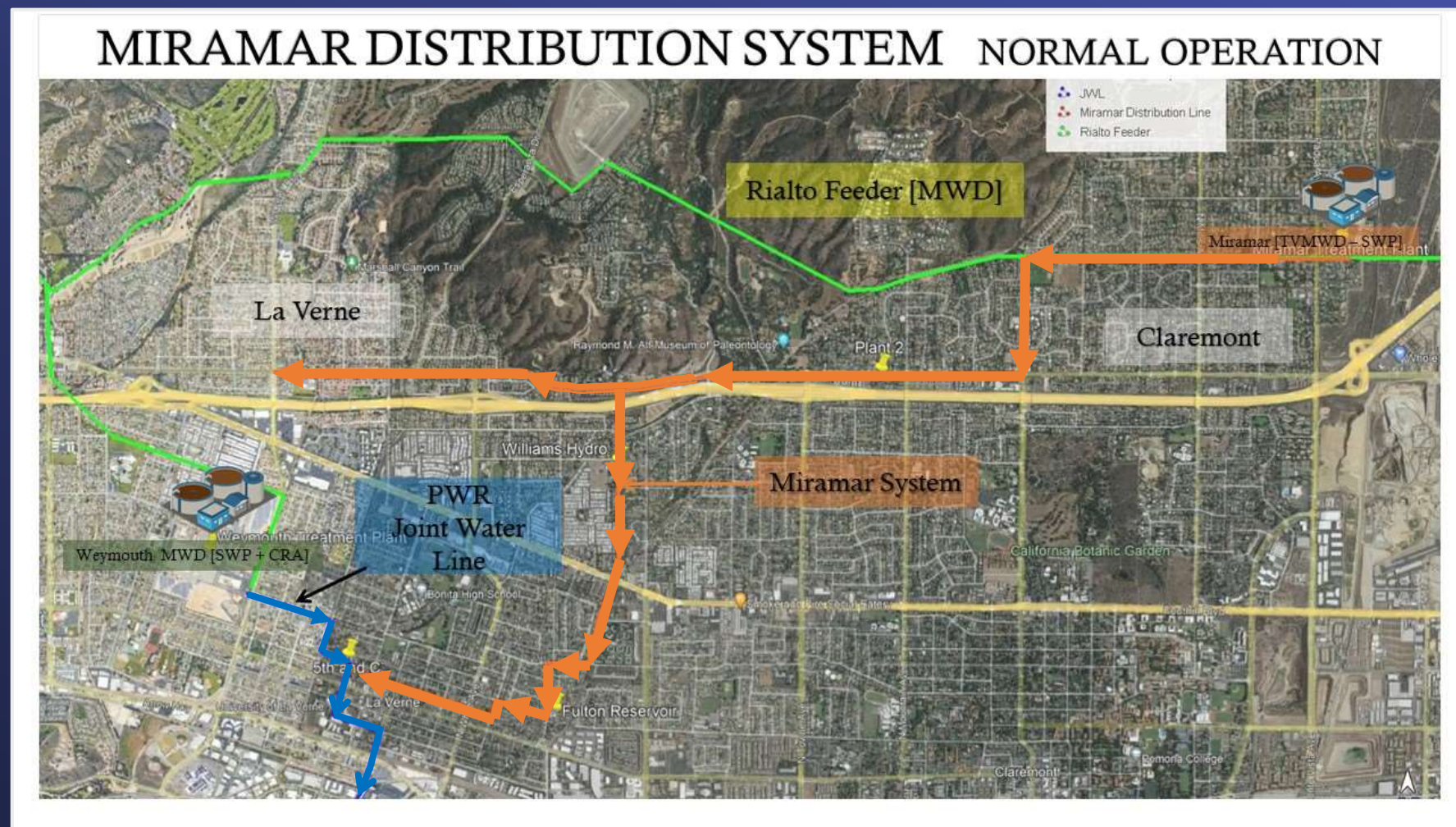
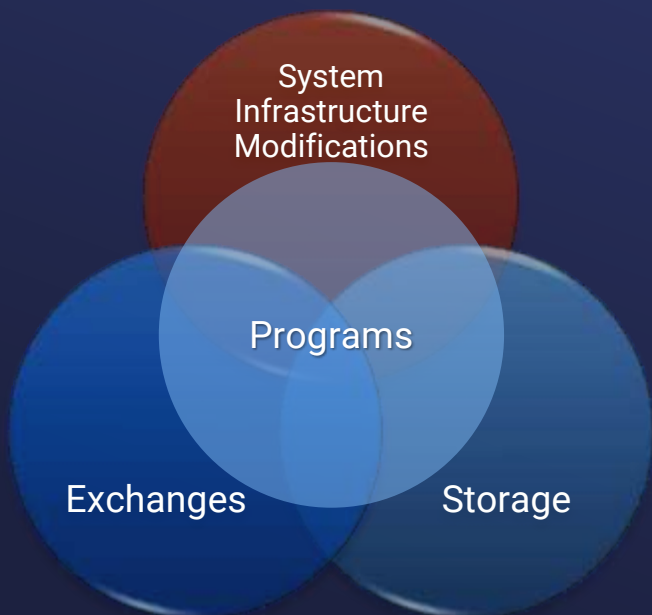


5<sup>th</sup> and C Pumpback Station



# System Infrastructure Modifications

Example: TVMWD

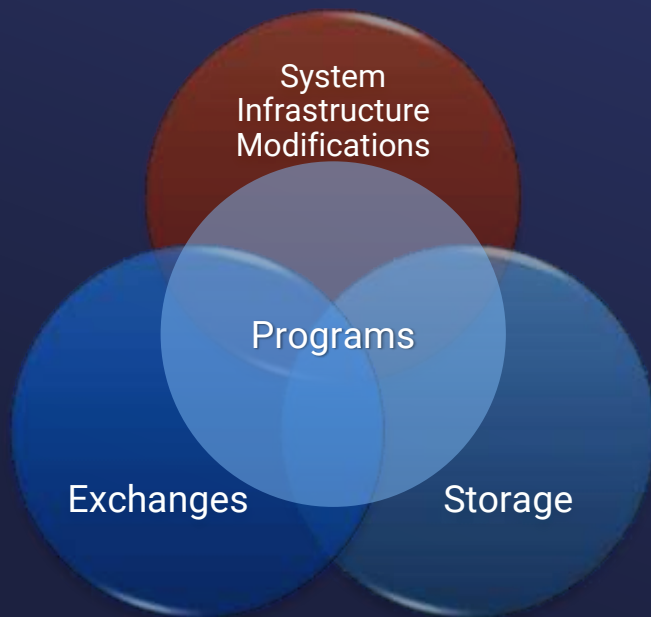




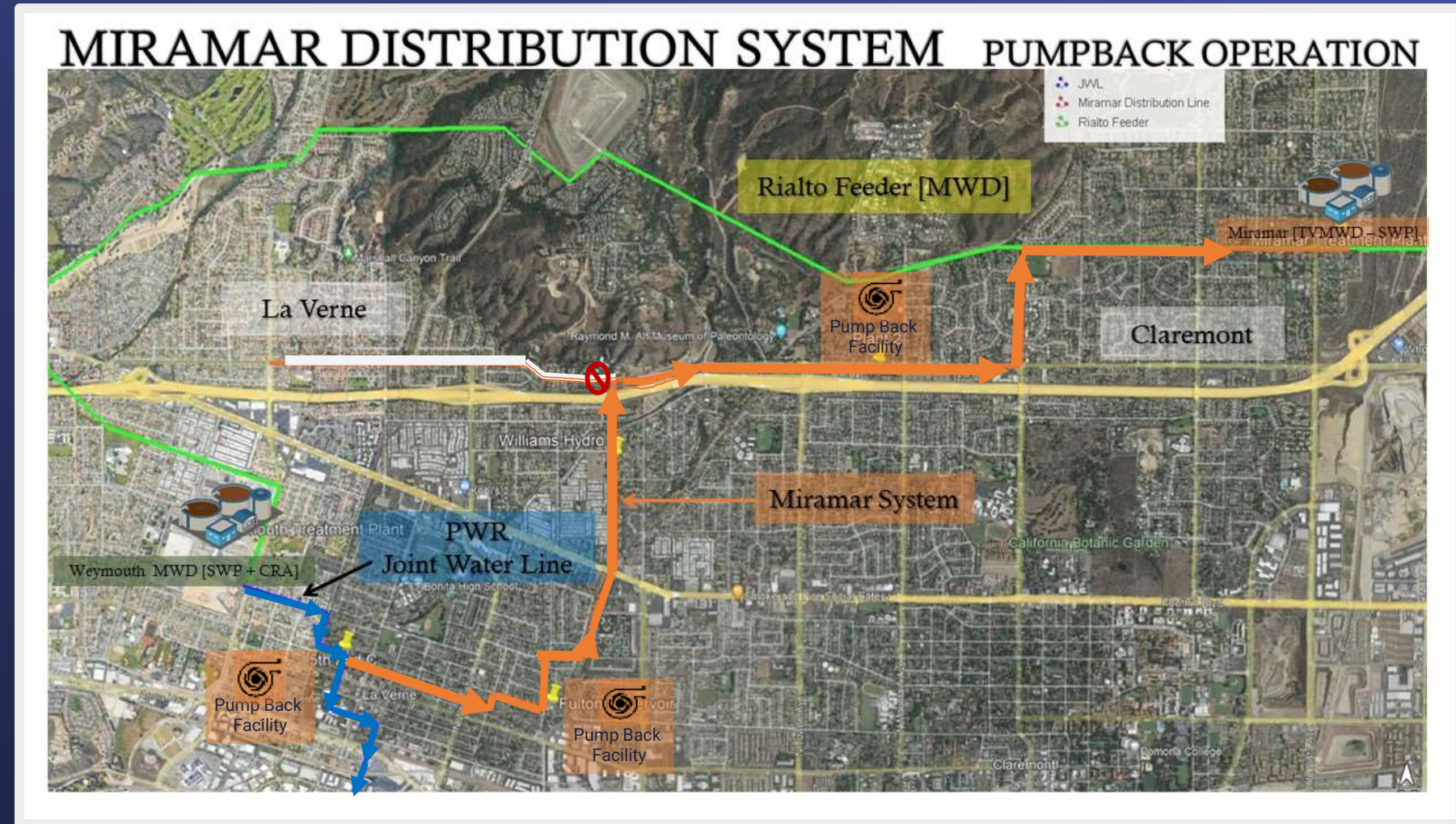
SWP Dependent Area Solutions

# System Infrastructure Modifications

Example: TVMWD



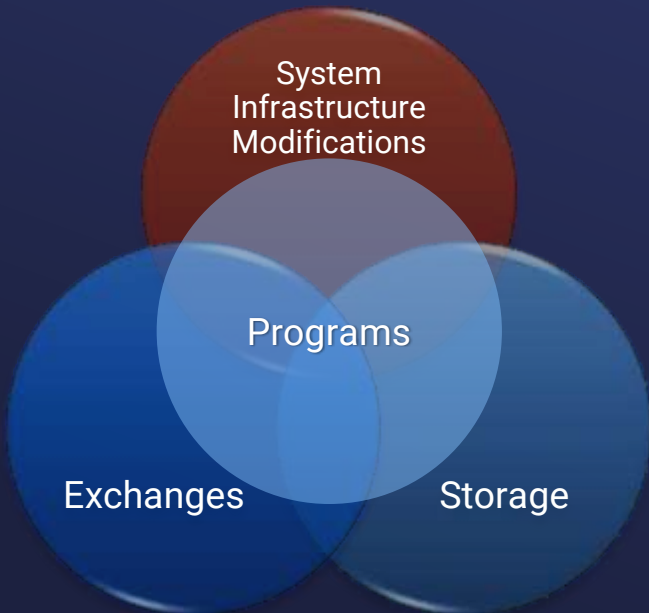
May 10, 2022



Engineering & Operations Committee

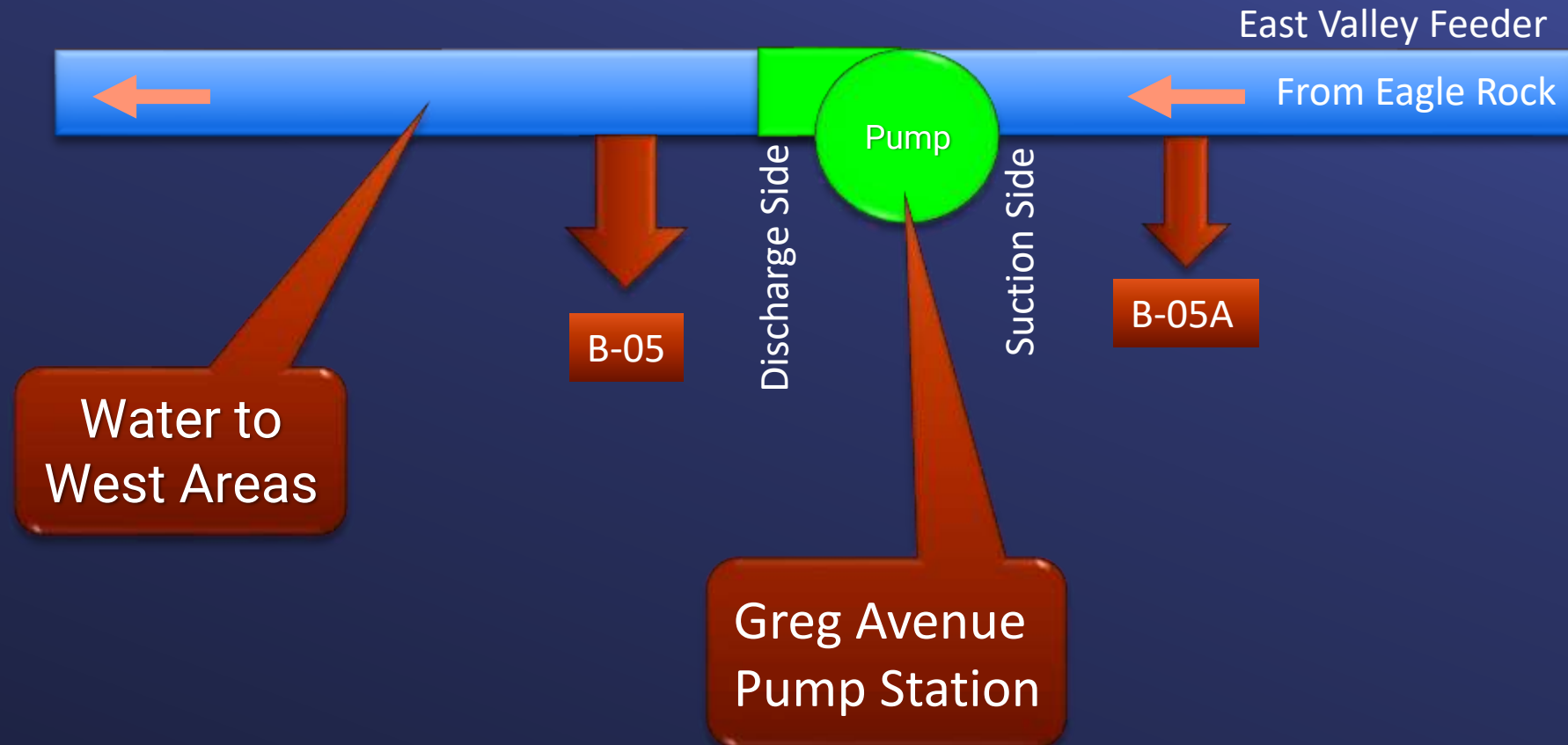
Item # 6a Slide 15

# System Infrastructure Modifications New Interconnection



## Burbank Water and Power

- Burbank B-05 to Burbank B-05A

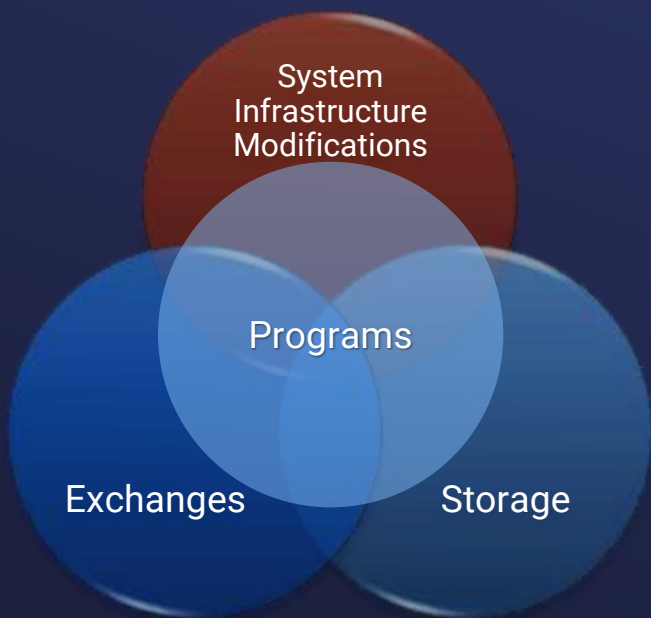




SWP Dependent Area Solutions

## System Infrastructure Modifications

Member Agency Interconnection



May 10, 2022

## LVMWD/LA County Waterworks District 29 New Interconnection

- Utilize and upgrade existing facilities to convey CRW to LVMWD and Calleguas service areas
- Enables LVMWD shift to CRW (9-30 TAF/year)
- Can also provide CRW to Calleguas through upcoming interconnection
- Potential online 2024-25





