

Engineering & Operations Committee



State Water Project Dependent Area Solutions: Drought Action Planning Update

Item 6a

July 12, 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

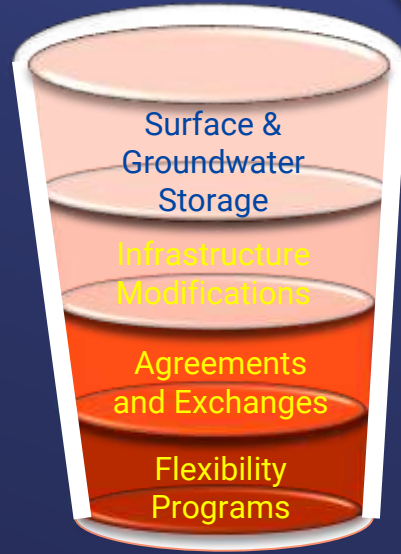
SWP Dependent Area Solutions: **Moving Forward**



Region Wide
Idea
Generation and
Alternative
Identification



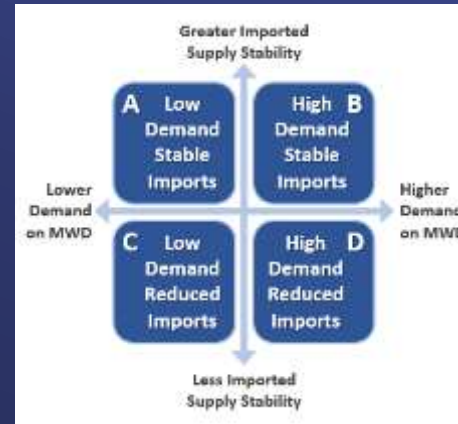
Drought
Action
Briefing
Sheets



Portfolios of
Drought
Actions

Late Summer 2022

SWP Dependent Area Solutions (workshops)



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



Develop an
action plan



Implement
Action
Plan

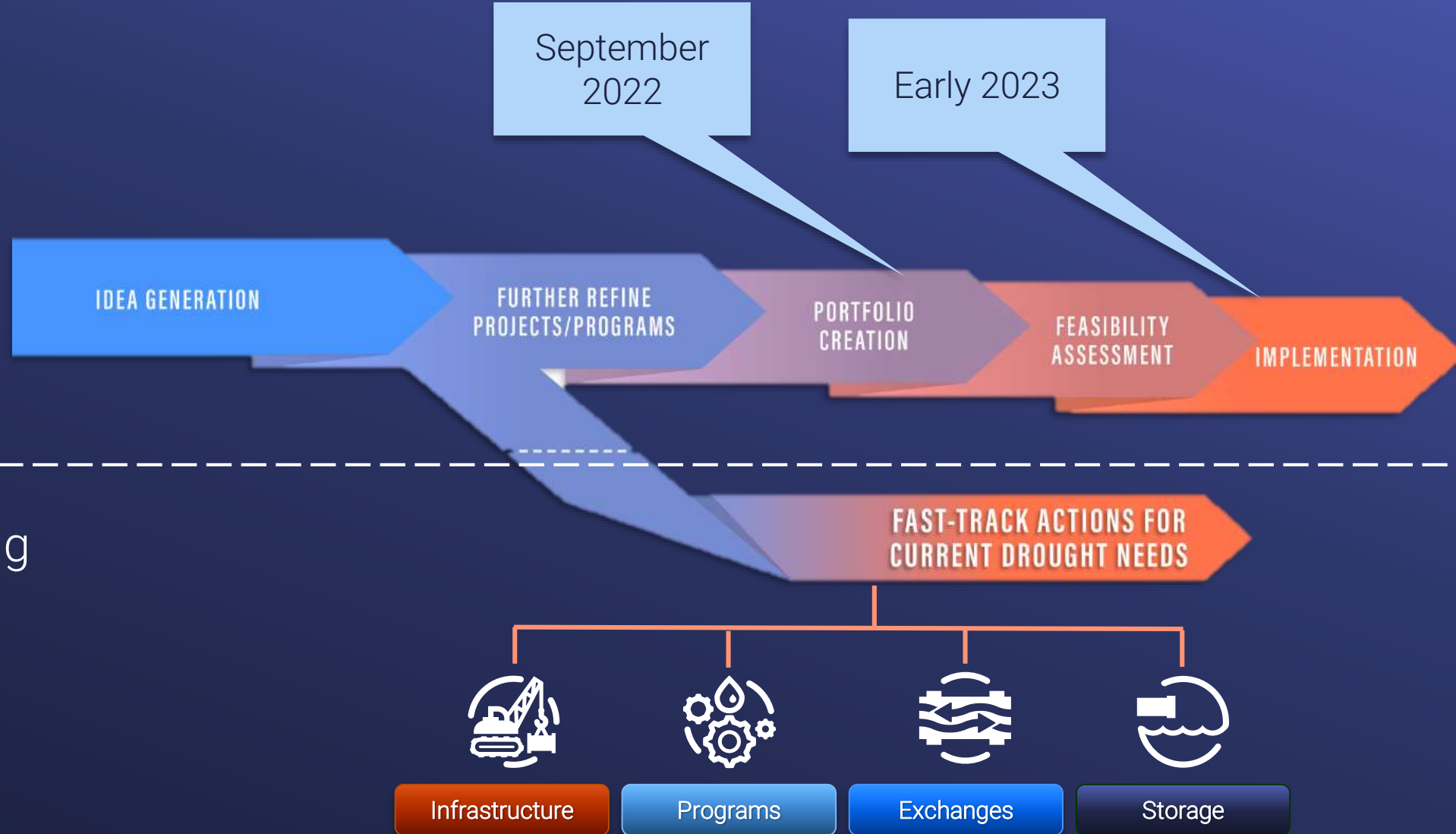
SWP Dependent Area Solutions – Decision Process

Drought Action Development

Two Parallel Tracks

Planning long-term actions for future extreme drought

Implementing near-term actions for current drought emergency



Process for Drought Mitigation Planning: **SWP** Dependent Areas

MAs brainstorm ideas internally, discuss w/ MET staff as needed

MAs working with MET staff to document ideas on Briefing Sheets & score based on criteria

MET staff prepares draft portfolios based on Workshop 4 inputs

MET staff revises portfolios based on MAs comments

Workshop 1

(Apr 22)

Identify Drought Mitigation Functions

Workshop 2

(Jun 10)

Brainstorm Ideas Addressing Functions

Workshop 3

(Jun 17)

Identify & Select Top Evaluation Criteria

Workshop 4

(Jul 15)

Review & Discuss Evaluation Results

Workshop 5

(Aug 12)

Review Draft Portfolios

MET staff report findings to the Board

(September)

SWP Dependent Area

Rialto Area Drought Actions

System Infrastructure Modifications

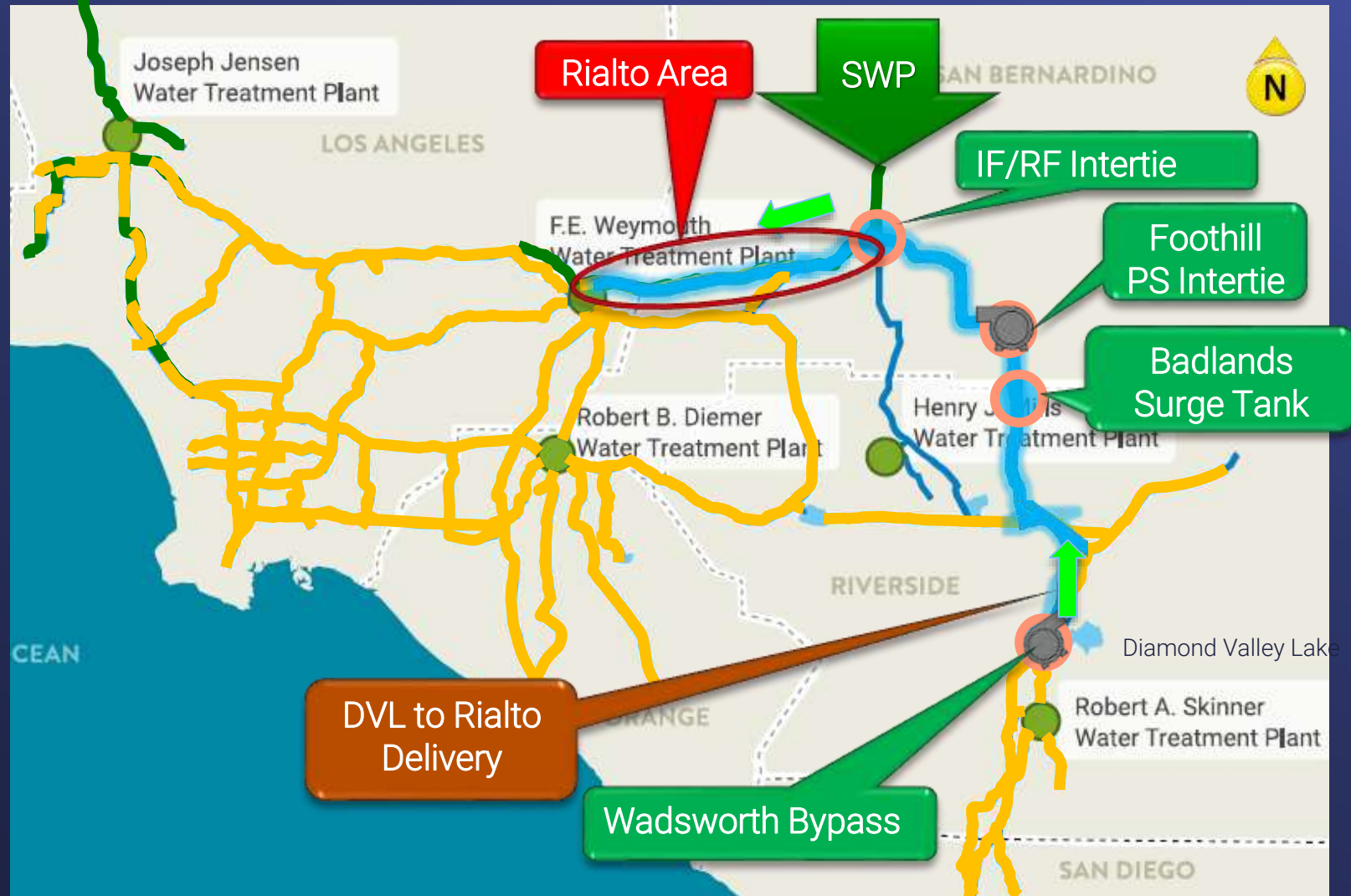
Programs

Exchanges

Storage

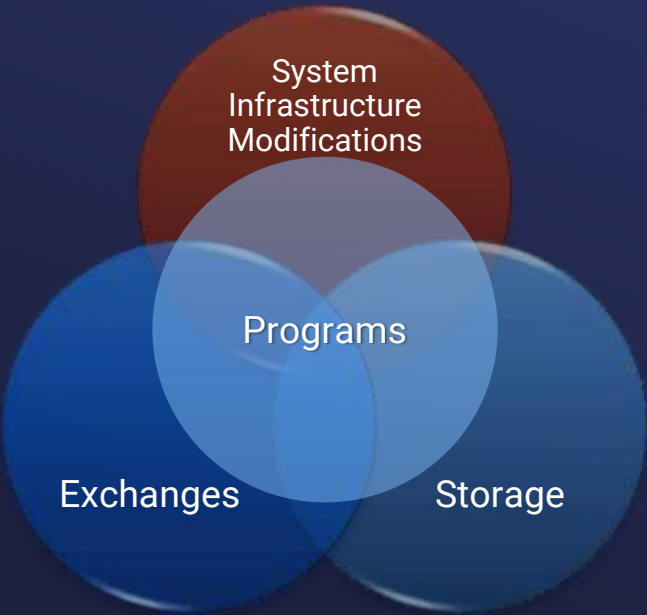
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Near-Term Actions



SWP Dependent Area

Rialto Area Drought Actions

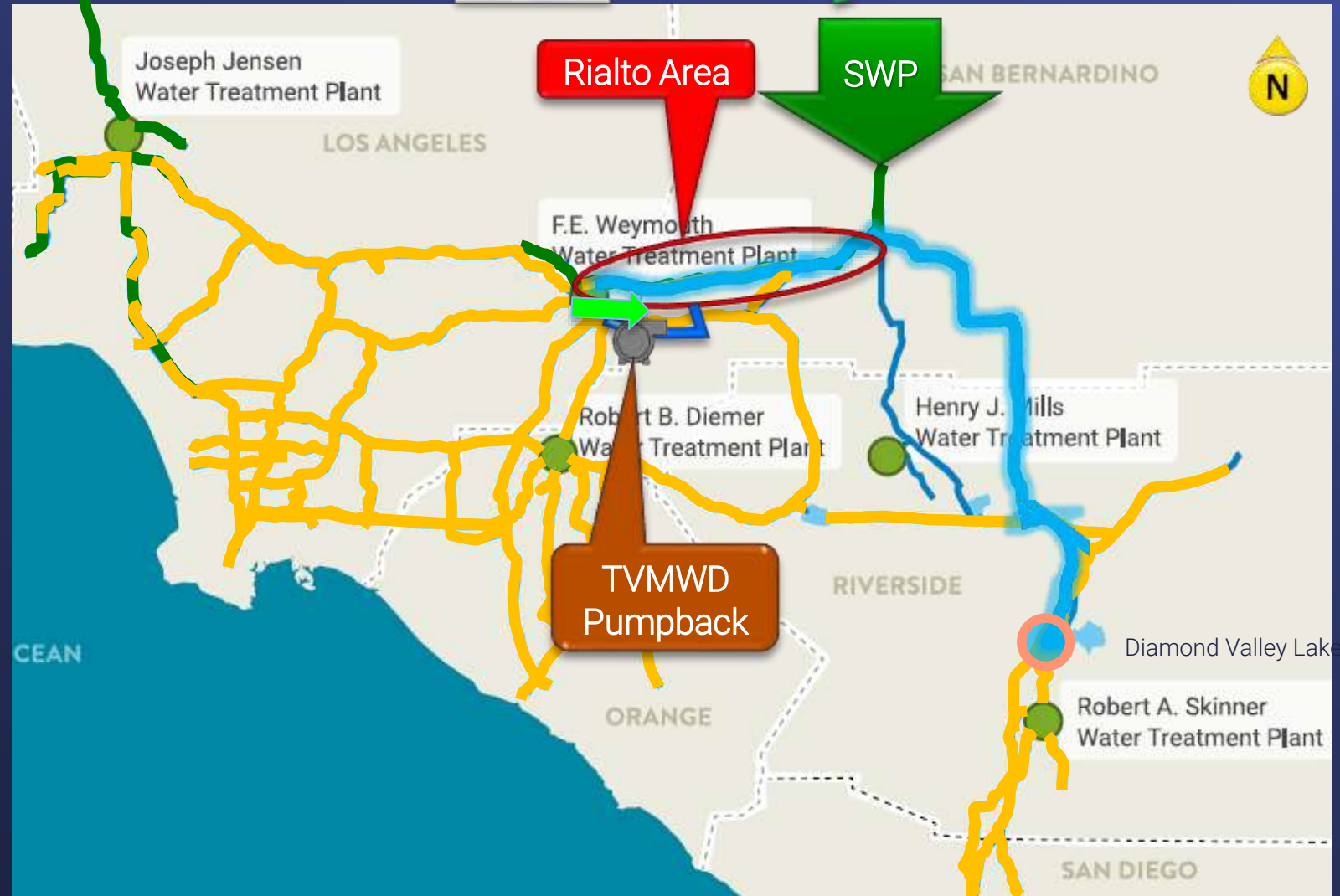


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Additional Near-Term Actions

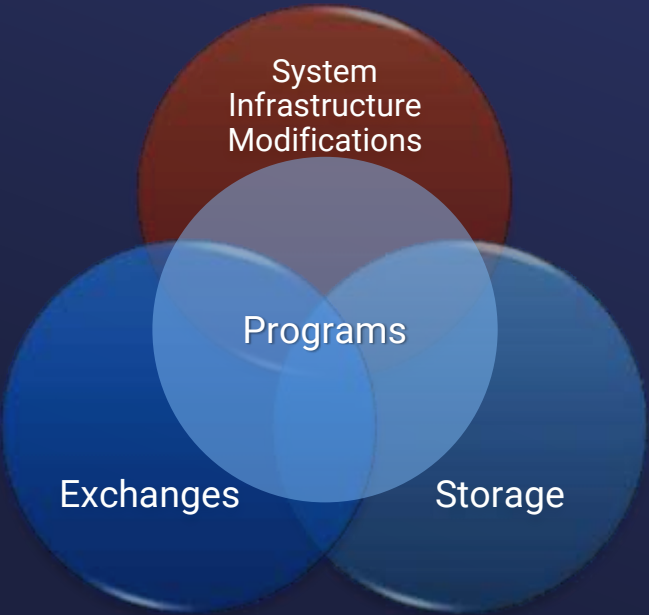


AVEK supply to
East Branch



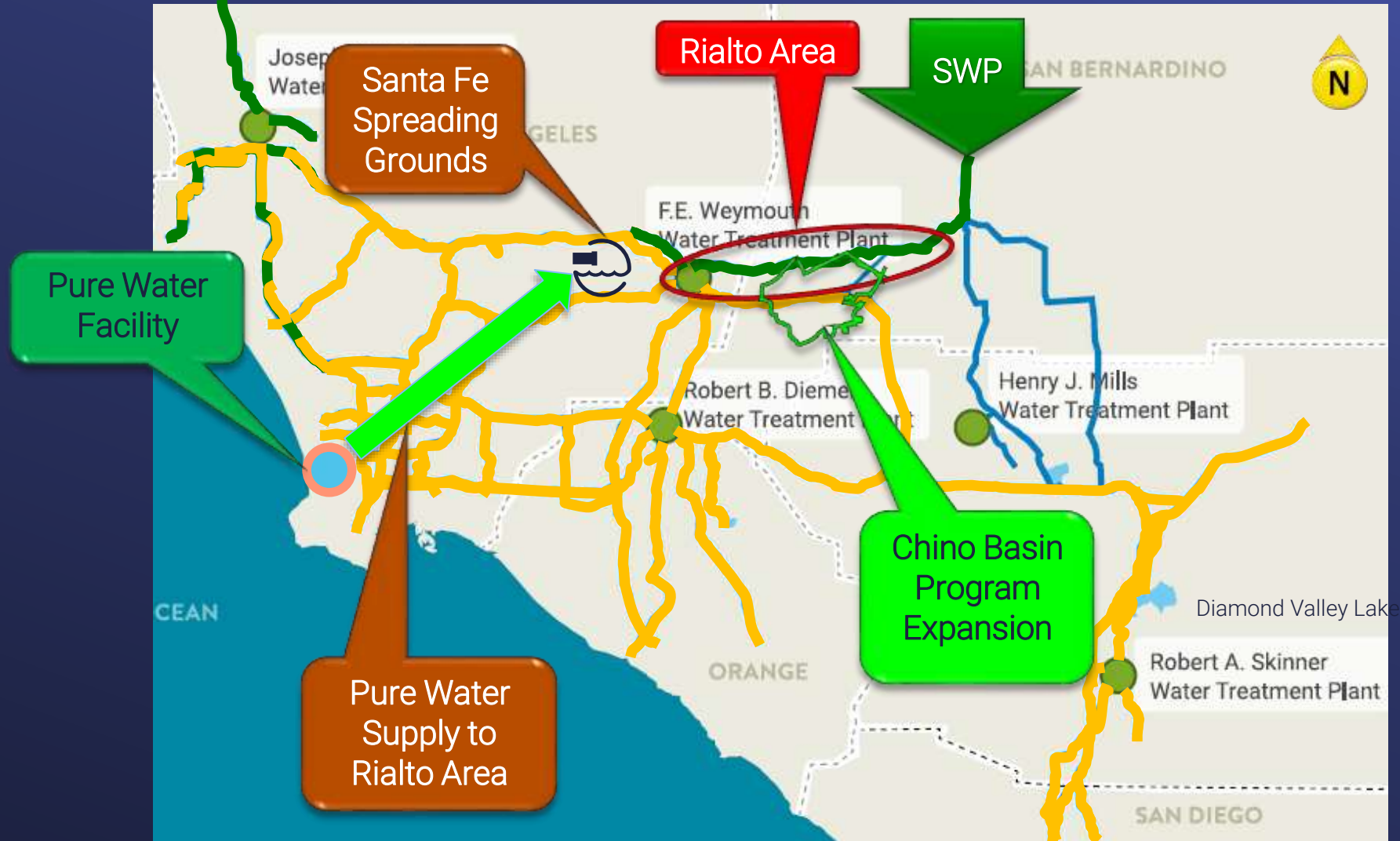
SWP Dependent Area

Rialto Area Drought Actions



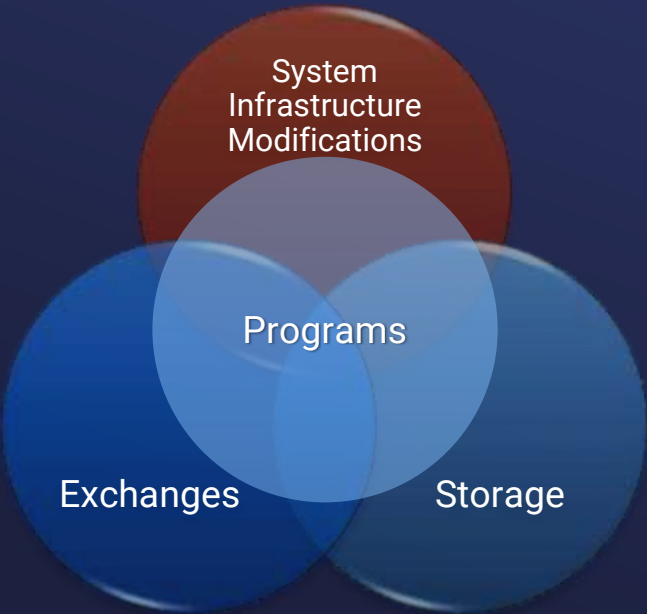
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Long-Term Actions



SWP Dependent Area

West Region Drought Actions



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Near-Term Actions



SWP Dependent Area

West Region Drought Actions

Long Term Actions



System
Infrastructure
Modifications

Programs

Exchanges

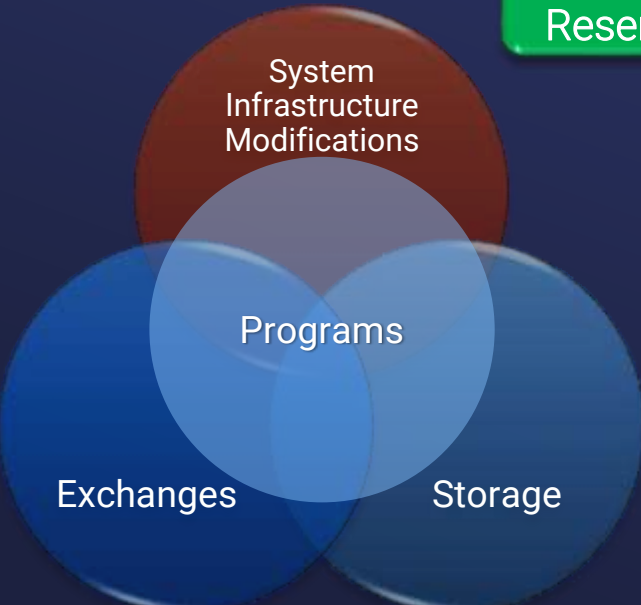
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West Region Drought Actions

SWP Dependent Area

Additional Long-Term Actions



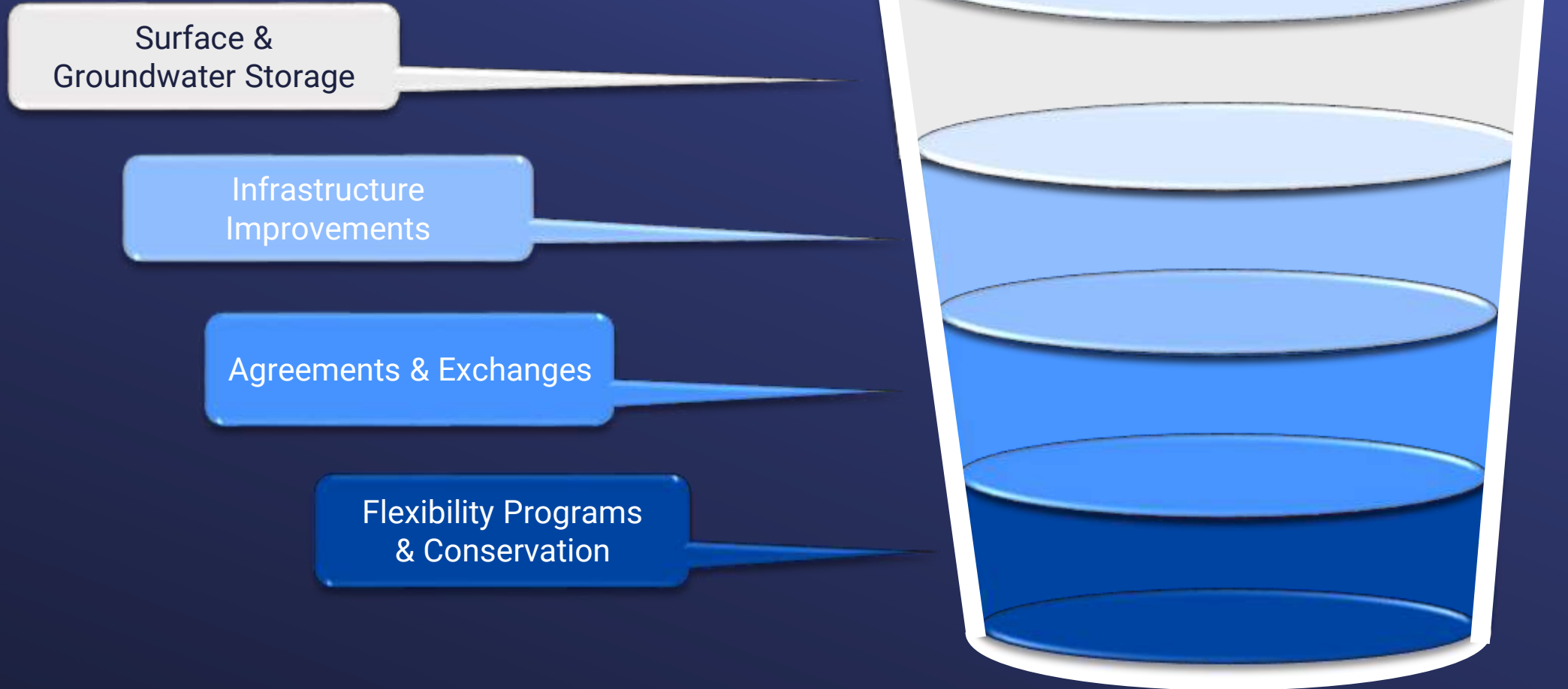
East Side Drought Actions – Upcoming **Contract Awards**

Project	Action	Schedule	Design Team
Three 84-inch valves for Rialto Water Supply Improvements projects	Award procurement contract	Aug-22	Metropolitan
Foothill Pump Station/Inland Feeder Intertie	Award final design agreement	Aug-22	HDR
Wadsworth Pumping Plant Bypass Pipeline	Award pipe procurement contract	Sep-22	Metropolitan
Badlands Tunnel Surge Protection	Award tank procurement contract	Oct-22	AECOM
Wadsworth Pumping Plant Bypass Line	Award construction contract	Nov-22	Metropolitan
Badlands Tunnel Surge Protection	Award pipe procurement contract	Dec-22	AECOM
Inland Feeder/Rialto Pipeline Intertie	Award construction contract	Feb-23	Metropolitan
Badlands Tunnel Surge Protection	Award construction contract	Mar-23	AECOM

West Side Drought Actions – Upcoming **Milestones**

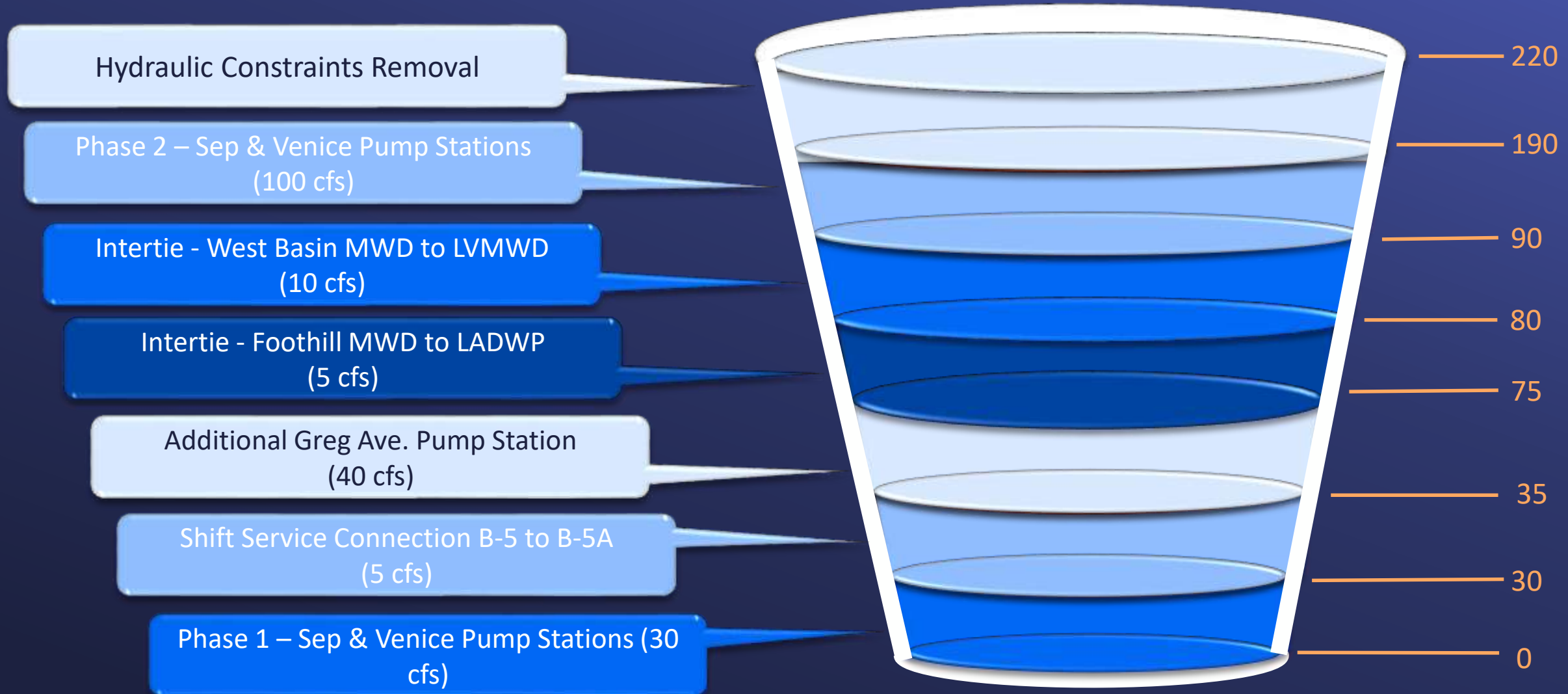
Project	Action	Schedule	Design Team
Westside Pumping Options	Complete Reconnaissance Study	Jul-22	Carollo
Sepulveda Feeder North - PCCP Relining	Award Preliminary Design agreement	Aug-22	HDR
Sepulveda/Venice Pump Stations Phase 1	Complete Feasibility Study	Sep-22	Carollo
AVEK HDWB to Supply Westside Agencies	Complete Feasibility Study	Sep-22	Tetra Tech
Interconnection between WBMWD & LVMWD	Complete Reconnaissance Study	Sep-22	Metropolitan
Shift of Burbank B-5 Supply to B-5A	Complete Feasibility Study	Oct-22	Metropolitan
Surface Storage Options	Complete Reconnaissance Study	Oct-22	Stantec
Expansion of Greg Ave. Pumping Operation	Complete Feasibility Study	Dec-22	Brown & Caldwell

Categories of Possible Drought Action Solutions

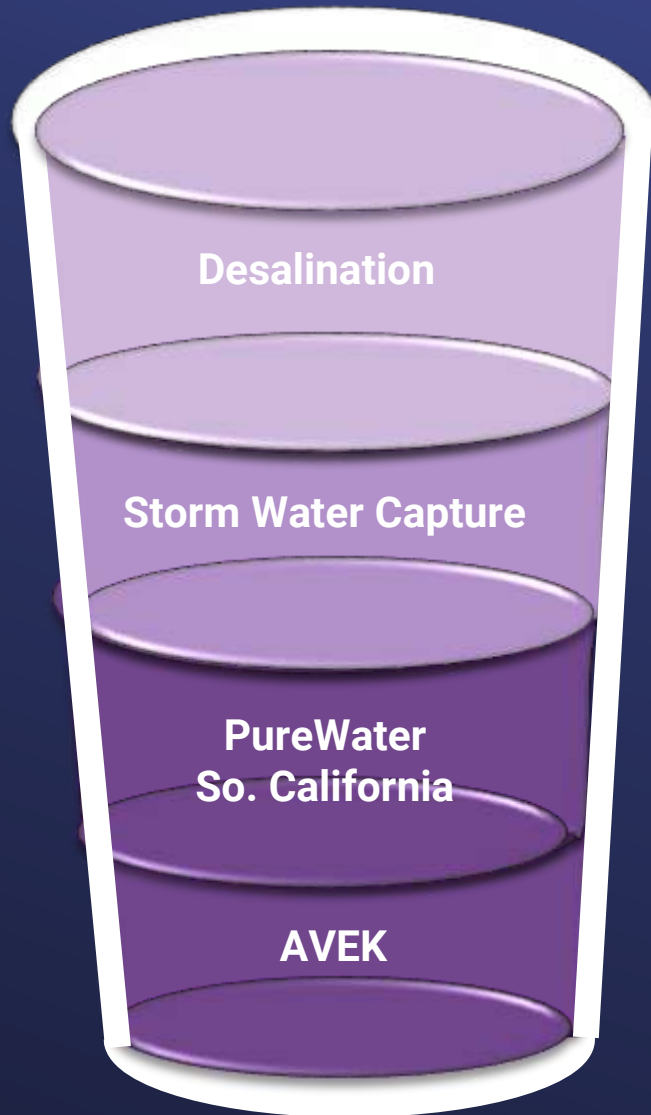


Drought Actions

Sample Portfolio: Infrastructures Improvements



Drought Actions – More **Sample Portfolios**



Supply Improvements



Demand Reductions

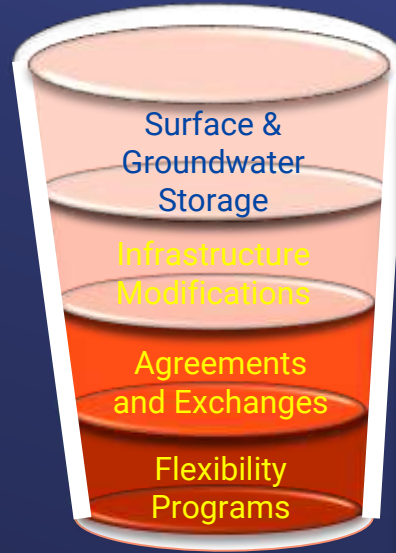
SWP Dependent Area Solutions: Generating Ideas & Actions



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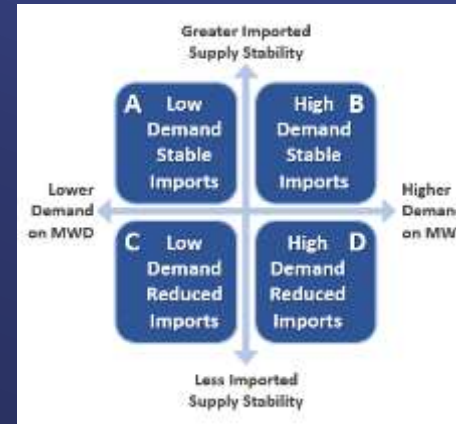


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SWP Dependent Area Solutions (workshops)

SWP Dependent Area Solutions – Decision Process

SWP Dependent Area Solutions: Proposed **Decision Process**

Activity	Schedule
Board action item on Metropolitan's Commitment to Action for SWP Dependent Areas	Aug-22
Board report on the Process for Drought Mitigation Planning of SWP-Dependent Areas (results of the workshop process)	Sep-22
Board report of the Benefits of Various Project Portfolios (IRP testing)	Dec-22
Board action item on Portfolio Action Plan (determine the path forward)	Feb-23

