



Engineering & Operations Committee

State Water Project (SWP) Dependent Area Solutions: Drought Action/Project Portfolios Update

Item # 6b

September 12, 2022

Call to Action

- Identify elements of solutions to Southern California's water reliability crisis
 - Collaboration with member agencies
 - Individual meetings
 - Workshop series
 - Development of action/project portfolios
 - Reconfiguration of infrastructure to enhance access to existing supply portfolio
 - Development of new supplies
 - Development of surface & groundwater storage

Member Agency Workshop Series

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

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

MWD staff prepares initial portfolios based on Workshop 4 inputs

MWD staff revises portfolios based on MAs comments

Workshop 1
(Apr 22)

Workshop 2
(Jun 10)

Workshop 3
(Jun 17)

Workshop 4
(Jul 15)

Workshop 5
(Aug 12)

Identify Drought Mitigation Functions

Brainstorm Ideas Addressing Functions

Identify & Select Top Evaluation Criteria

Review & Discuss Evaluation Results

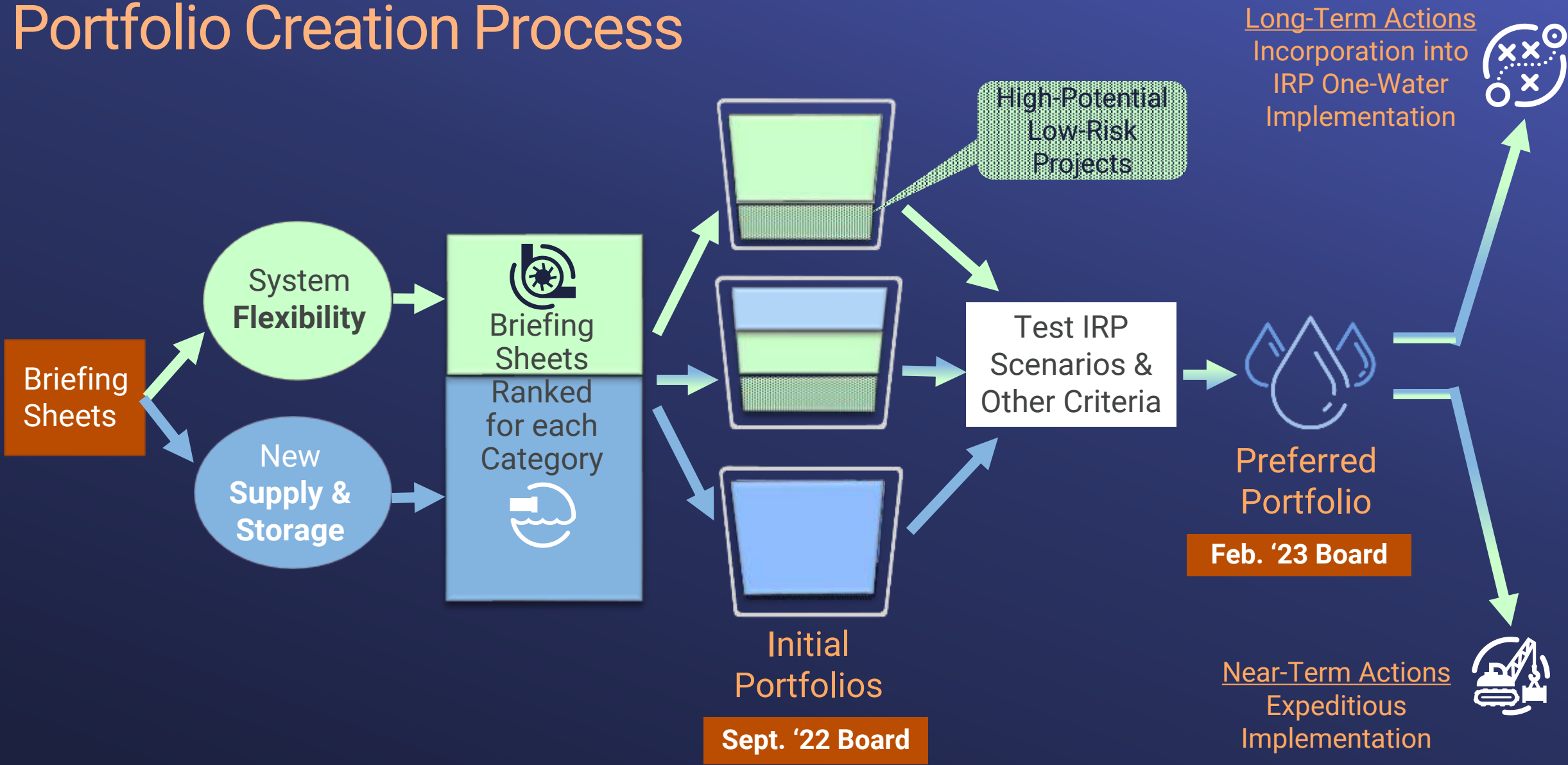
Create Initial Portfolios

Staff report findings to the Board
(September)

Definitions

- **Near-term portfolios** are to address a potential future drought within 7 to 10 years
- **Long-term portfolios** are to address a potential future drought beyond 10 years and consider the overall supply reliability
- **System flexibility category** includes projects that reconfigure the existing conveyance & distribution system to improve access to the existing supply & storage portfolio
- **Supply/Storage category** includes projects that add core supply, flexible supply, or storage

Portfolio Creation Process



SWP Dependent Area Solutions

Drought Action /Project Portfolios Update

Initial Criteria

Preliminary – will be
evaluated with
member agencies

Planning for the Next Drought (Near-Term)

- Action/project portfolio creation criteria
 - Number of low-SWP-supply years - 3
 - Supply level - 5% allocation each year
 - Demand level - 2021 level + 30 TAF
 - Initial storage level - 2021 plus 100 TAF in DVL
 - Existing resource and drought action performance - 2021 level for entire year
 - Resource take strategy - take surface storage evenly
 - Buffer - 10%

SWP Dependent Area Solutions

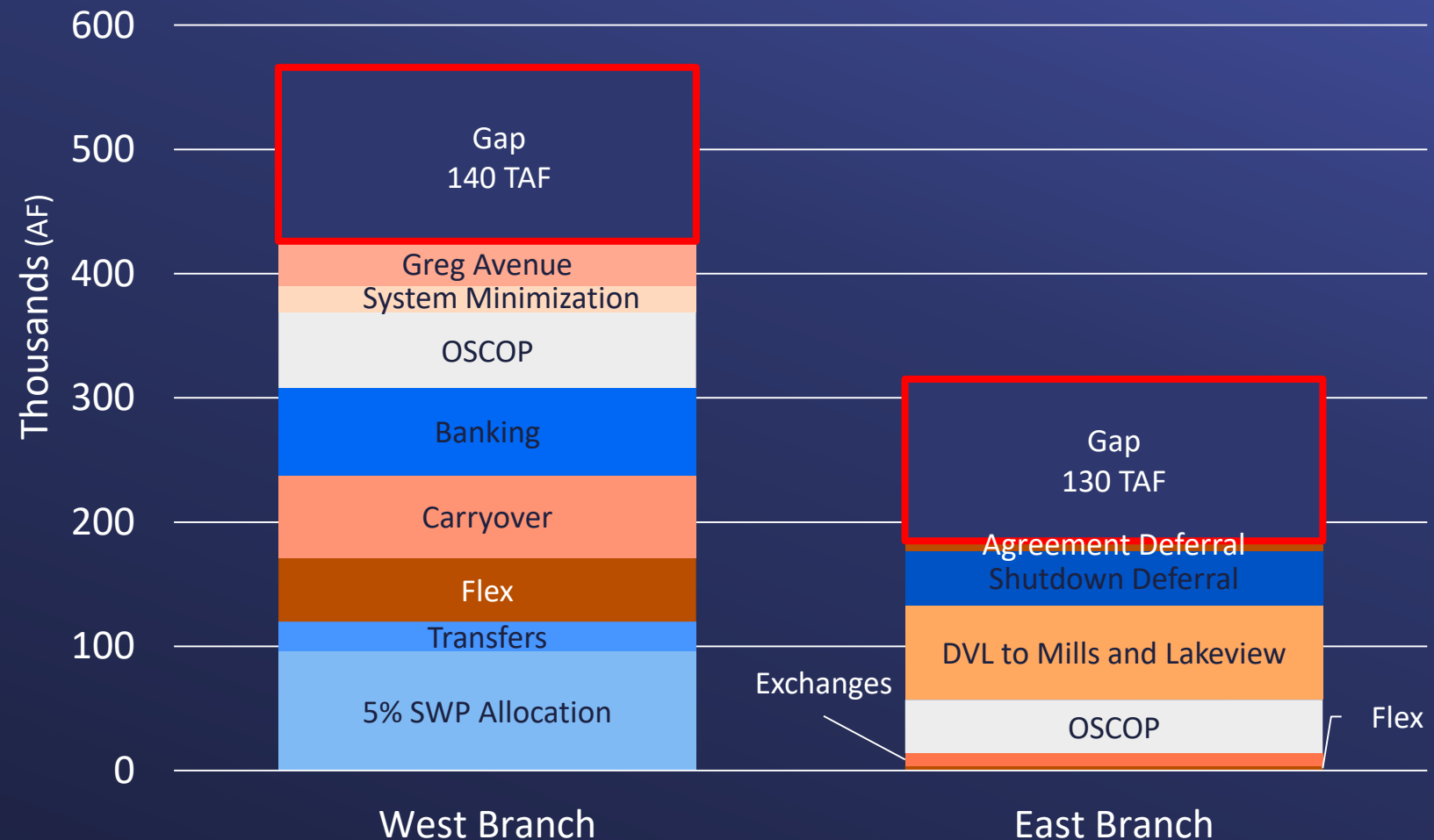
Drought Action /Project Portfolios Update

Initial Gap

Preliminary – will be evaluated with member agencies

Future Supply Gap with Existing Resources

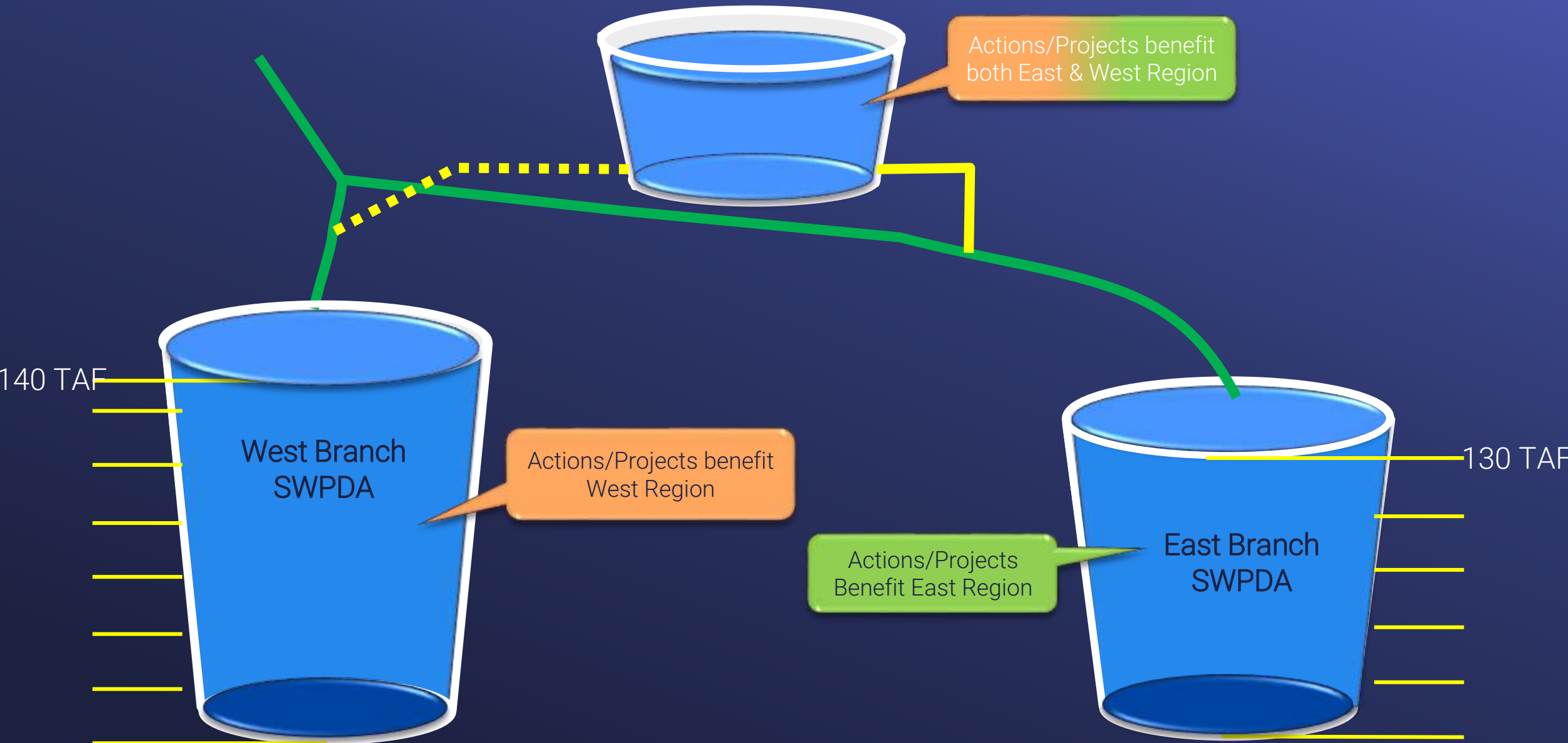
New Operation Assuming New Drought Actions



Planning for Future Droughts & Supply Reliability (Long-Term)

- Analyze and size through incorporation with the IRP
- Could consider additional criteria
 - Extended drought resilience
 - Sustainability
 - Climate change
 - Seismic resilience

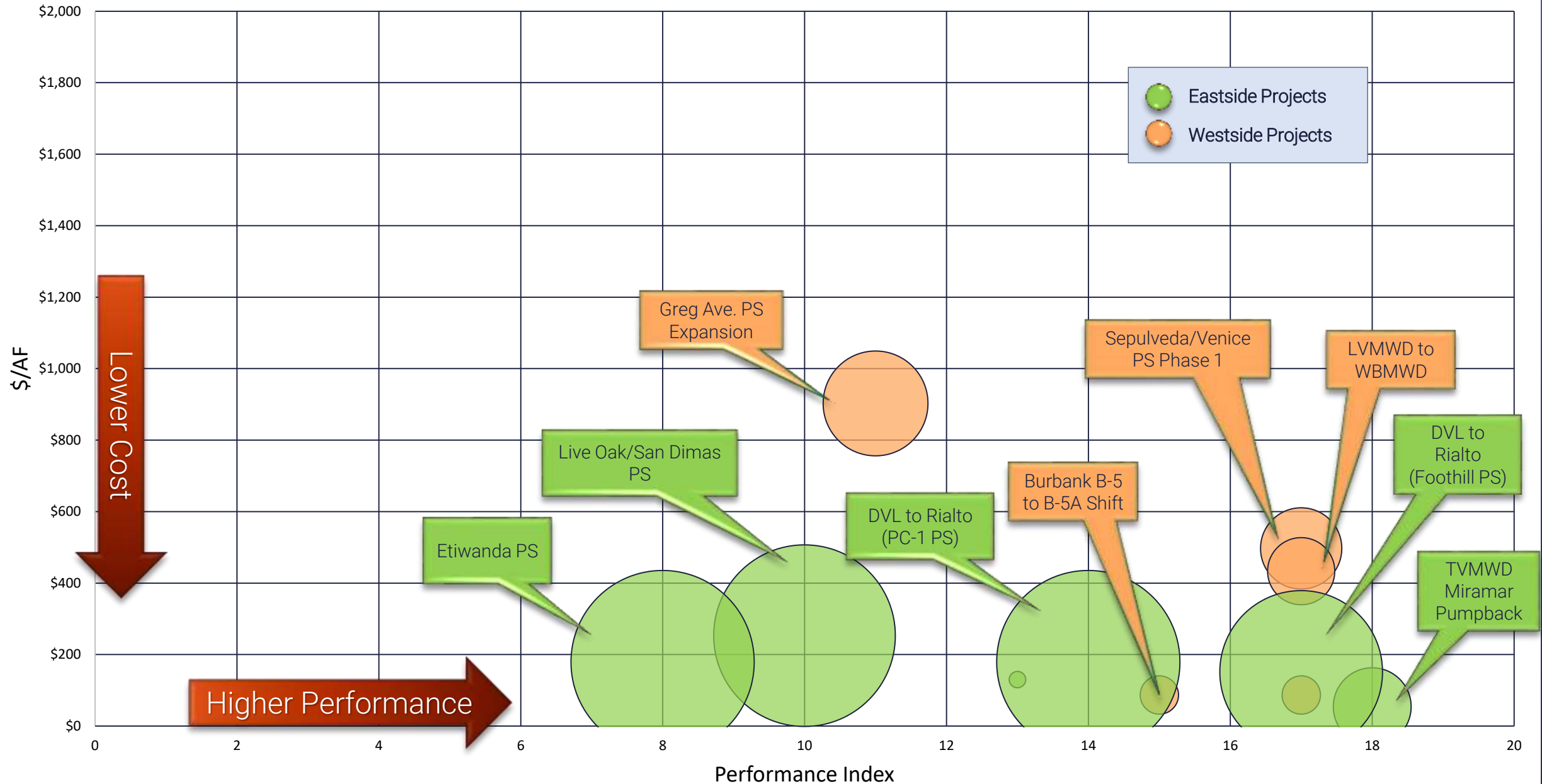
Near-Term Demand/Supply Gap - East & West Branches



Proposed Initial Portfolios

- Near-term
 - System-flexibility portfolio
 - Mixed portfolio
- Long-term
 - System-flexibility portfolio
 - Supply/storage portfolio
 - Mixed portfolio

Near-Term System Flexibility Projects



Initial East Branch Near-Term Mixed Portfolio



Other Potential Projects

- Local Basin Projects
- Chino Basin Program Expansion
- Quagga Control CRW to USG-3

130 TAF



Initial West Branch Near-Term Mixed Portfolio



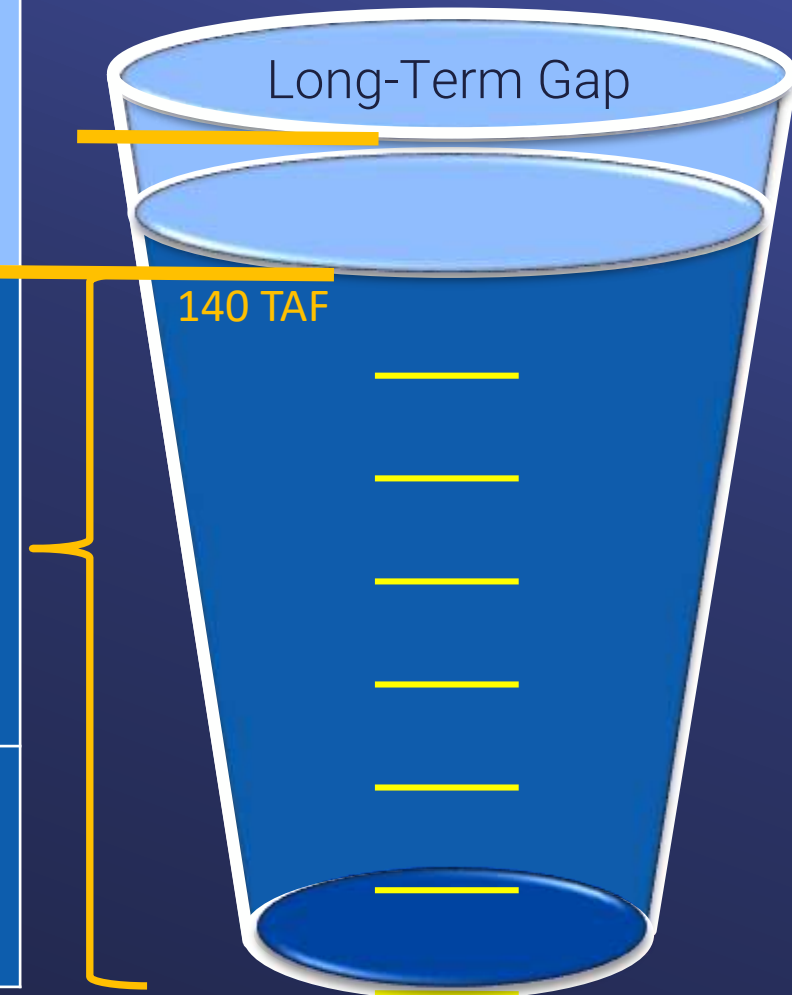
Initial West Branch Long-Term Mixed Portfolio

- In-region reservoirs
- Local desalters
- Seawater desalination



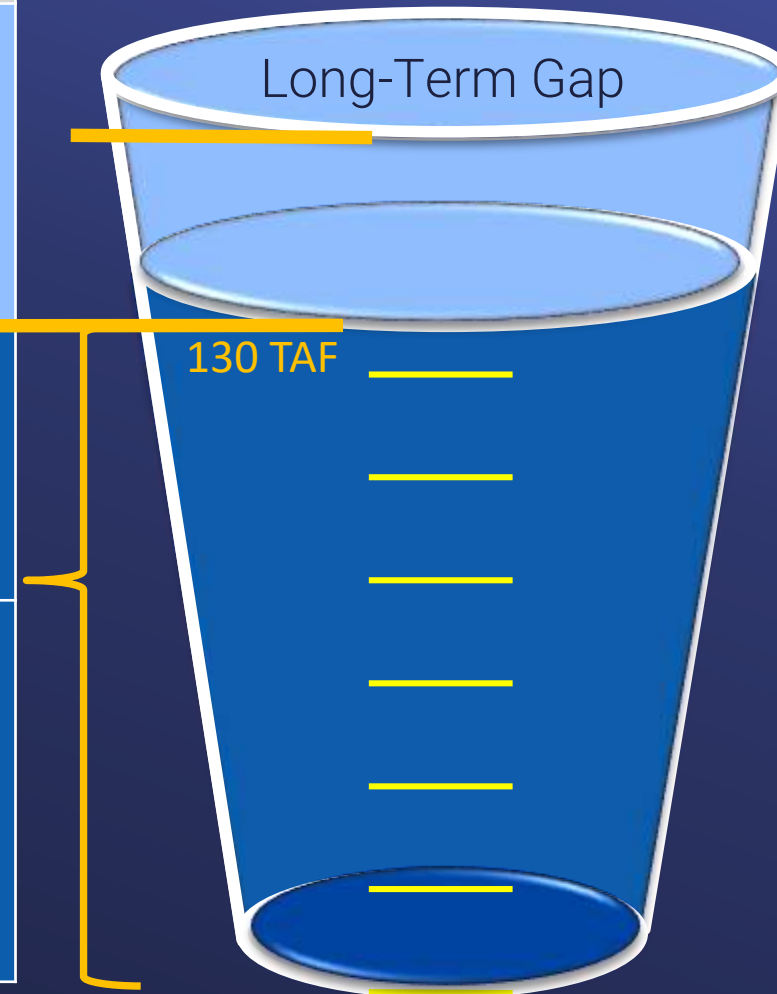
Summary of Initial Portfolios – West Branch

| | Status | Project Description |
|--------------------|--|--|
| Long-Term Projects | Likely Options - Initial Reconnaissance Study | <ul style="list-style-type: none"> • Pure Water SoCal • E-W Conveyance Line • Desalination • Local Supply • Regional Storage • Pumping Expansion |
| Near-Term Projects | High Potential Options – Expedited Study | <ul style="list-style-type: none"> • AVEK to West Branch w/ New Connection • Crescenta - LA Connection • LVMWD – WBMWD Interconnection • Burbank B5 to B5A Shift |
| | High Potential Options – Implementation | <ul style="list-style-type: none"> • Sepulveda/Venice PS Phase 1 |



Summary of Initial Portfolios – East Branch

| | Status | Project Description |
|--------------------|--|---|
| Long-Term Projects | Likely Options - Initial Reconnaissance Study | <ul style="list-style-type: none"> • Pure Water SoCal • Expanding GW Basin usage • Local Supply |
| Near-Term Projects | High Potential Options – Expedited Study | <ul style="list-style-type: none"> • USG Cyclic & other similar Programs • TVMWD Miramar Pumpback |
| | High Potential Options – Implementation | <ul style="list-style-type: none"> • DVL to Rialto Delivery <ul style="list-style-type: none"> • Wadsworth Intertie • Badlands Surge Tank • Foothill PS Intertie • IF/RF Intertie • AVEK |



Significant Funding Dedicated to Advance Drought Projects

- Projects for the current biennium: \$46M
 - East side: DVL to Rialto Delivery (four projects)
 - West side: Sepulveda/Venice Pump Stations
 - Additional high-potential/low-risk projects
- Ten-year CIP expenditure projection: \$283M
 - Pumping capacity expansion
 - Interconnectivity improvements
 - Groundwater treatments
- \$50M for Metropolitan's drought mitigation projects included in the State budget
- Continue to explore grant opportunities

Next Steps

- Continue to expedite high-potential low-risk near-term projects
- Conduct additional studies to define scope and costs of long-term projects
- Further analyze and refine initial portfolios
 - Incorporate into IRP process
 - Collaborate with member agencies
- Return to Board in February 2023 with preferred portfolios and recommended actions

