



Overview for Los Angeles Neighborhood Council Coalition

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Aug 2, 2025

Introductions



Christina Jones

Pure Water Los Angeles (LASAN)
Program Management



Erin Maciel

Pure Water Los Angeles (LADWP)
Program Management

Water Supply Sources

Historical Imports

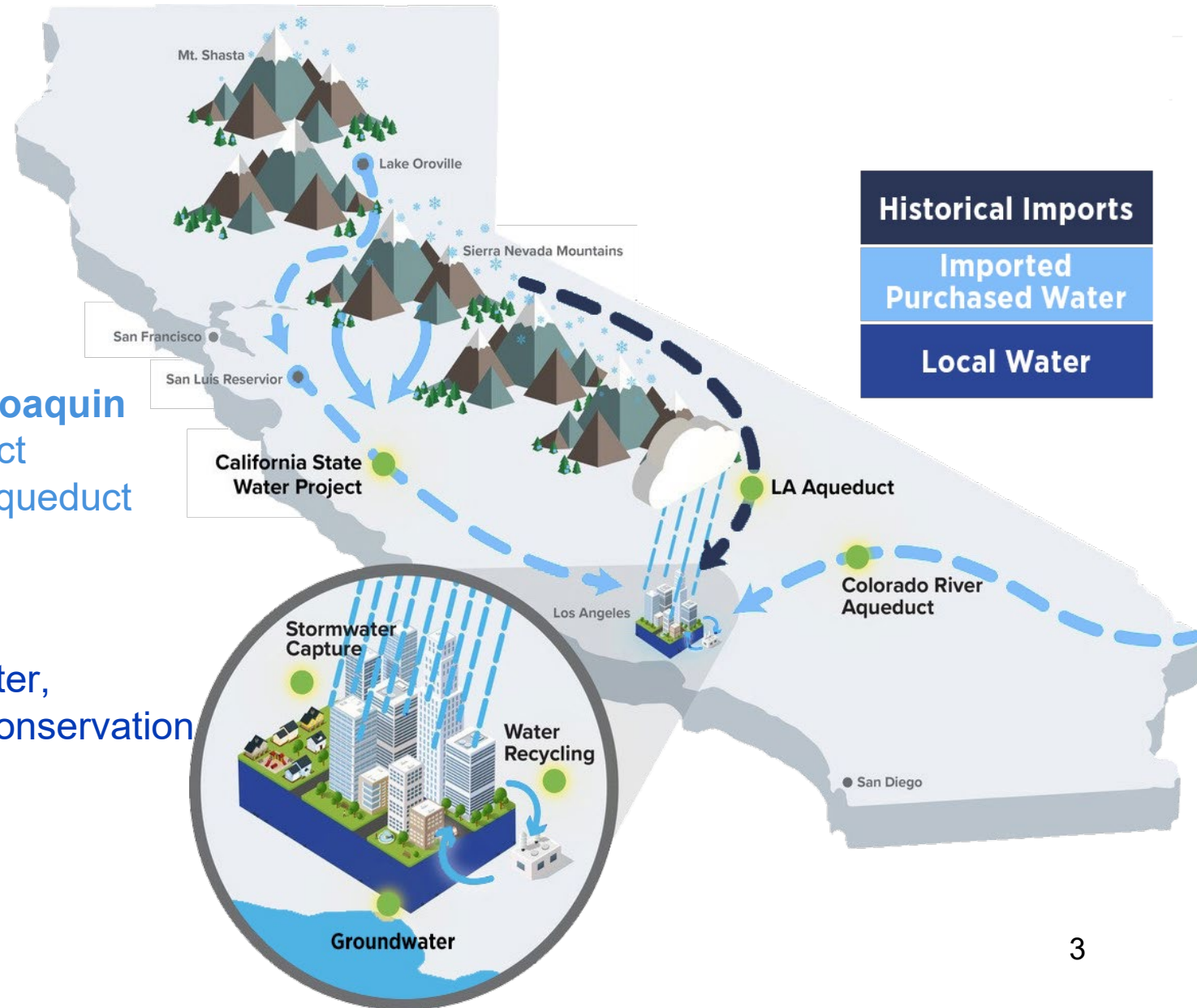
- **Eastern Sierras** via the Los Angeles Aqueduct

Imported Purchased Water

- **Northern Sierra and Sacramento-San Joaquin Delta** via the California State Water Project
- **Colorado River** via the Colorado River Aqueduct

Local Water

- Local Water Supplies including groundwater, recycled water, stormwater capture and conservation





Increasing Local Water Supplies



The Pure Water Los Angeles program aims to provide purified recycled water from LASAN's Hyperion Water Reclamation Plant by using advanced treatment and purification processes, which will create a new, sustainable water resource that will diversify the supply for L.A. and the region.



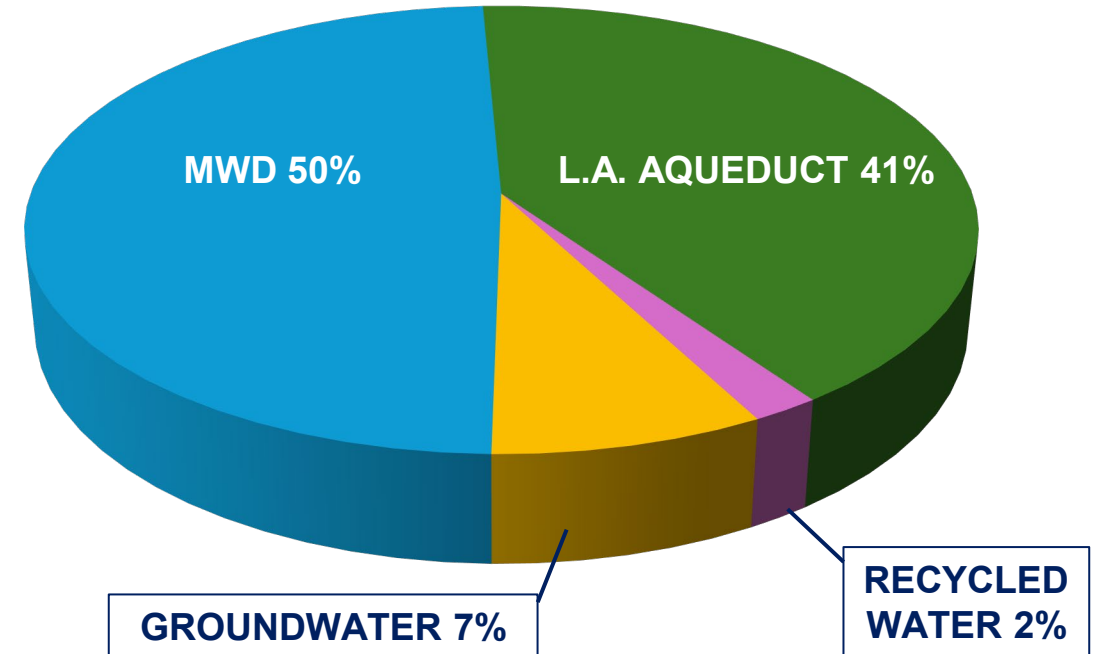
LADWP is forecasting over 70 additional stormwater projects over the next 15 years to double its capacity.



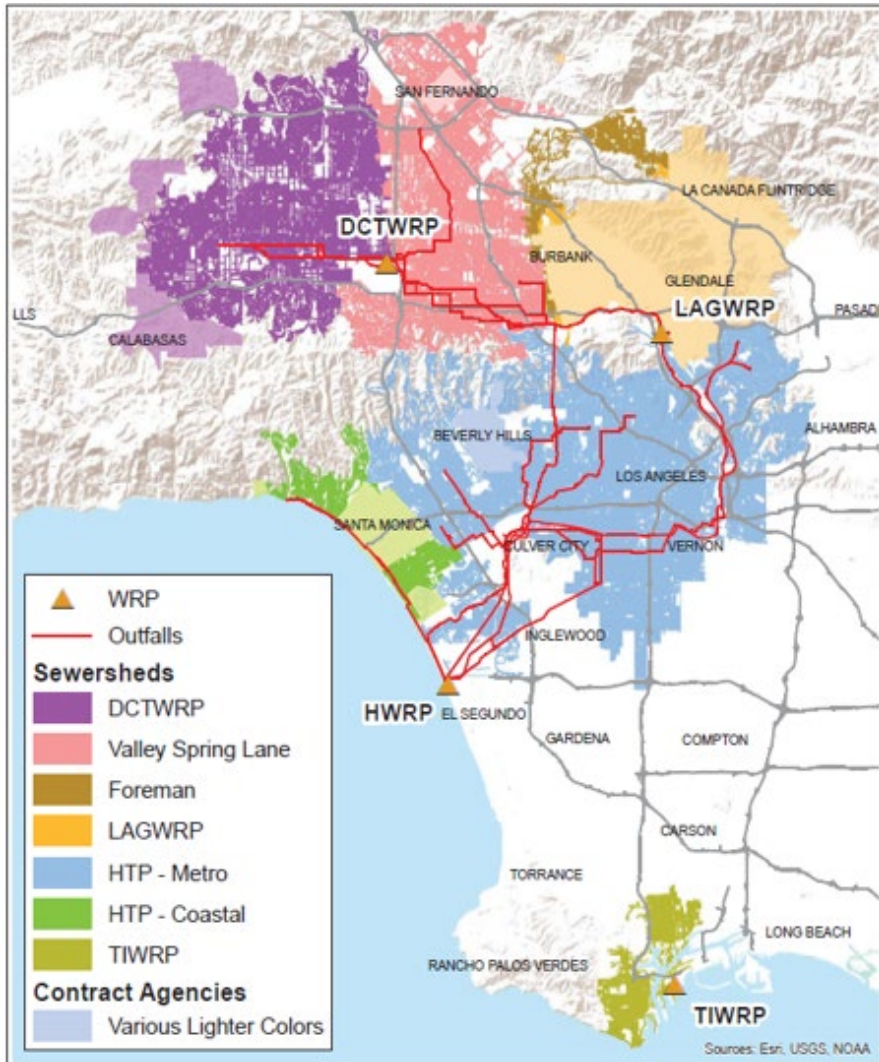
LADWP is remediating the San Fernando Valley Basin, which restores the capacity of the San Fernando Basin as a drinking water source and groundwater storage.

WATER SUPPLY SOURCES

(5-year average, FY 2020-2024)

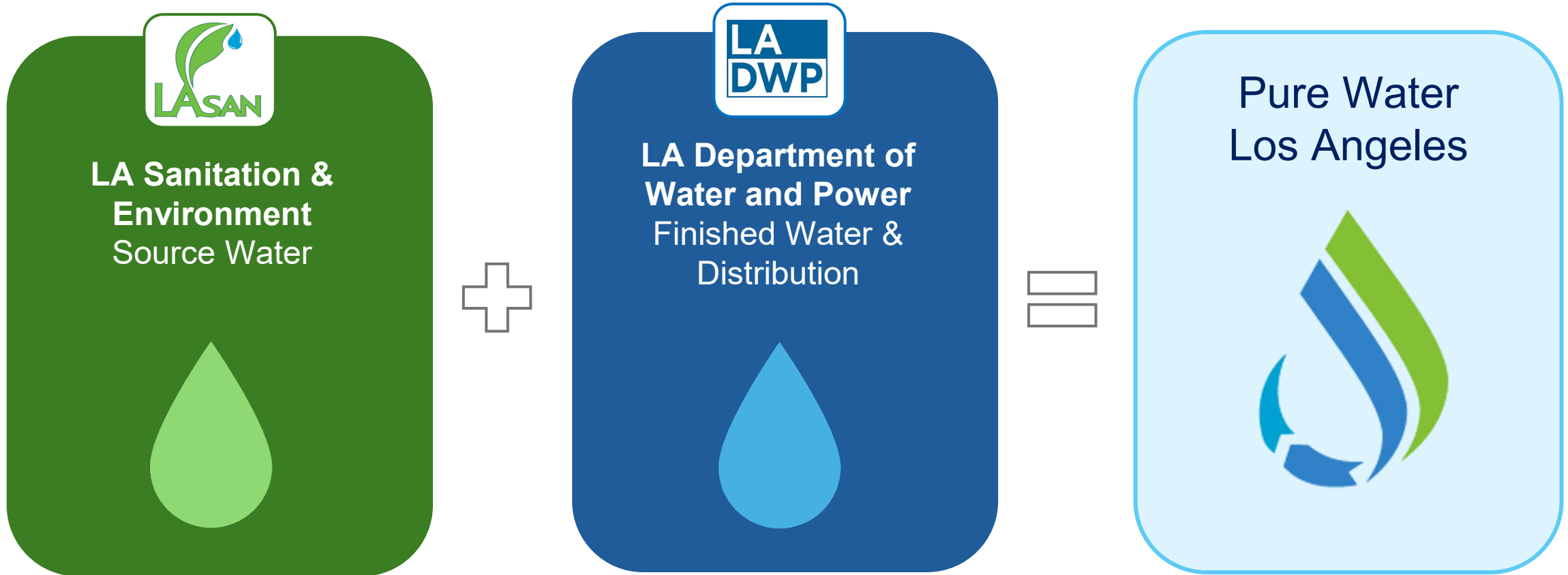


Wastewater System Overview

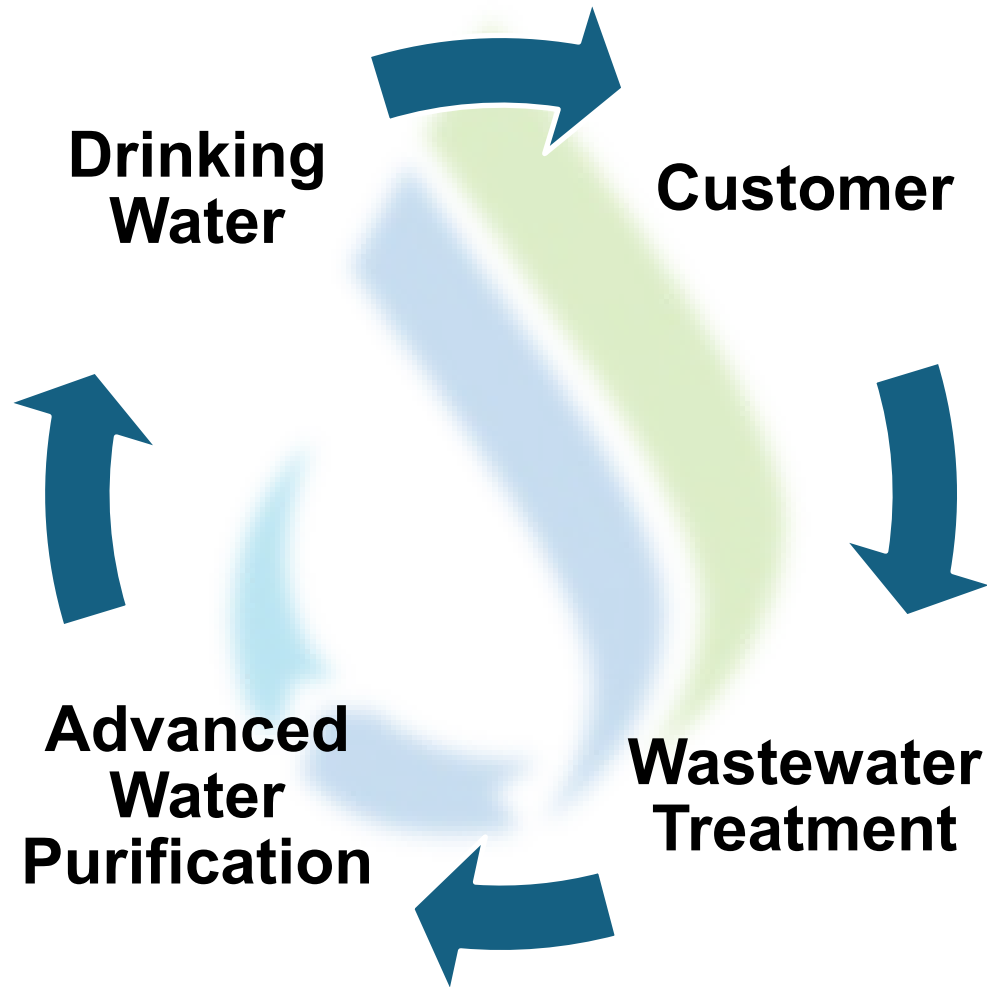


- 4.7 million people
- 600 square miles
- 29 contract agencies
- 6,700 miles of sewers
- Hyperion Water Reclamation Plant treats an average of 270 million gallons per day

Two Departments Deliver One Major City Initiative



One Water

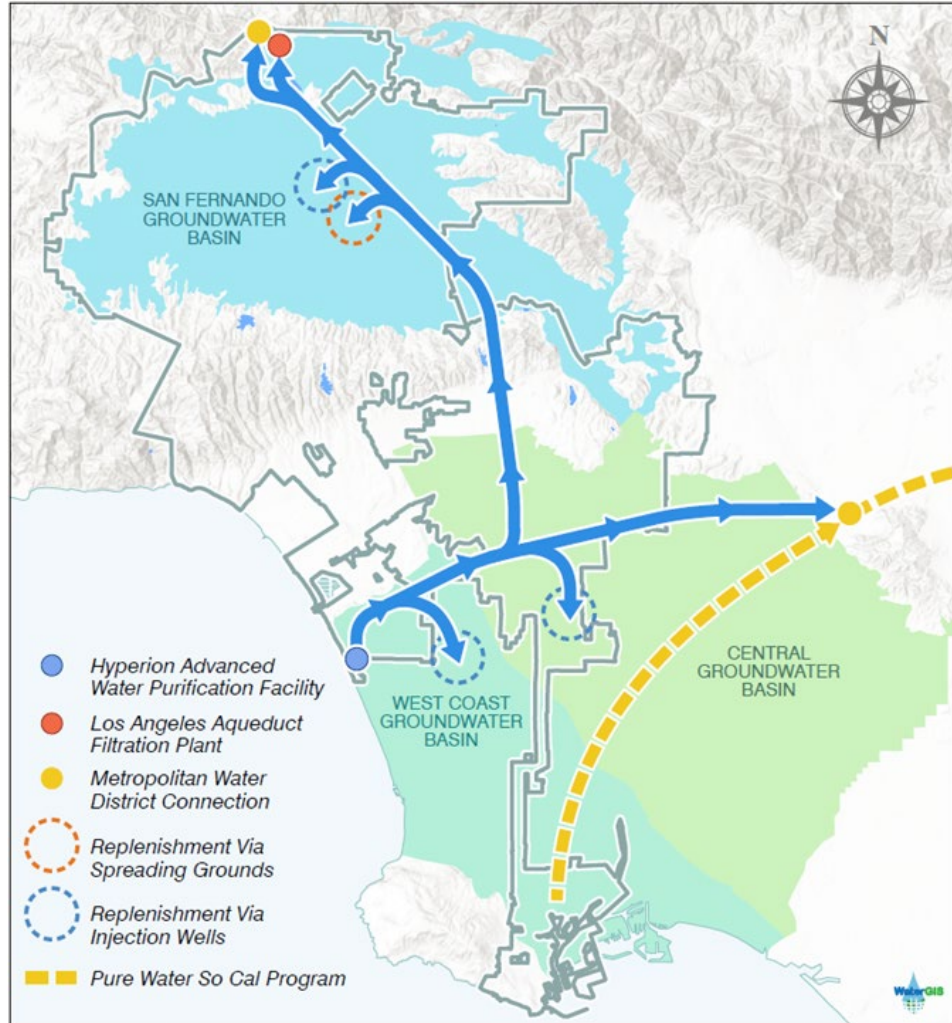


Purified Recycled Water

National Advanced Purified Water Program



Pure Water Los Angeles



GOALS



Maximize Wastewater Reuse



Construct/Upgrade Cost-Effective Infrastructure



Diversity LA's Water Supply Portfolio



Resiliency, Reliability, and Sustainability



Enhance Ecosystem Health



Community & Equity Benefits

STRATEGY

IPR:

Replenishment of local groundwater basins

(Approved in 2014)

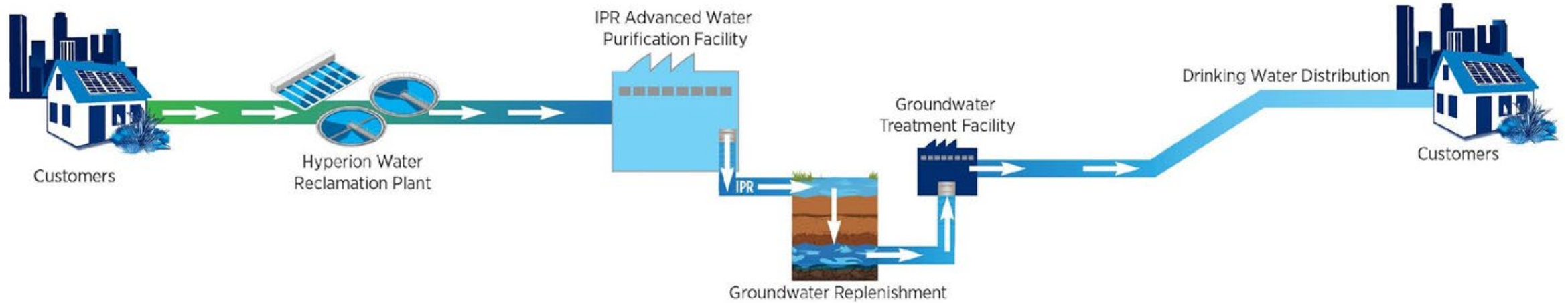
DPR:

Introduction of purified water upstream of Water Treatment Plant

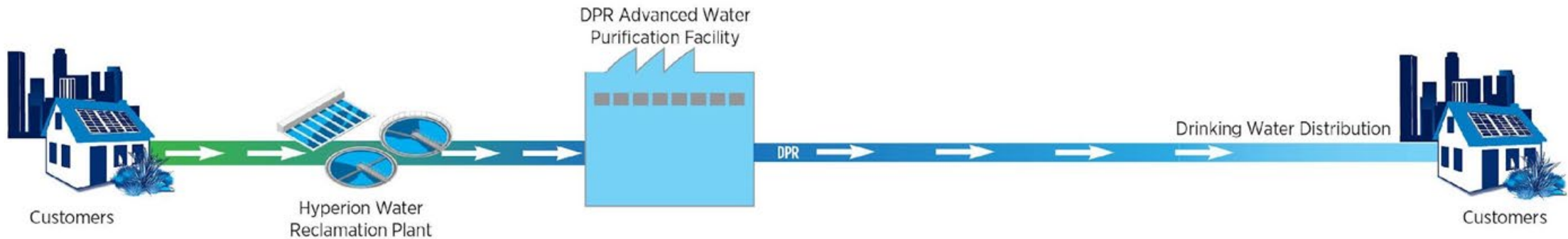
(Approved in 2023)

Indirect Potable Reuse (IPR) & Direct Potable Reuse (DPR)

IPR - Indirect Potable Reuse



DPR - Direct Potable Reuse



Construction and Implementation Phases

at Hyperion Water Reclamation Plant

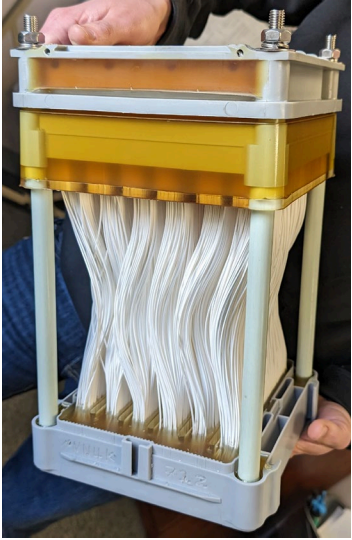
Phase 1 (50 MGD):
Foundational infrastructure
and initial water production

Phase 2 (50 MGD):
Expansion of treatment,
increased water production

Phase 3 (up to 130 MGD):
Complete build out,
maximization of water
production



Potable Reuse Technology Terminology



Membrane
Bioreactors
(MBR)

organic matter and, potentially, nutrients such as nitrogen and phosphorus (depending on the MBR) are removed using biological processes. Next, membranes remove microscopic particles including microorganisms. Removes: nitrogen and microbial solids



Reverse
Osmosis
(RO)

Pressure is used to force the water through a semi-permeable membrane that transmits the water but stops most dissolved materials from passing through the membrane. Removes: minerals, bacteria, pathogens



Ultraviolet
Advanced Oxidation
(UV/AOP)

a purification process where powerful oxidants are formed and then used to break down chemicals and disinfect water. Removes: organic pollutants, microbes, and recalcitrant chemical contaminants

Current Projects at Hyperion Play Critical Role



Hyperion Advanced Water Purification Facility

- Proof of Concept
- Construction completed
- Water production anticipated June 2025



Membrane Bioreactor Pilot Facility

- Regulatory acceptance and research
- Construction completed
- Testing to begin late 2025

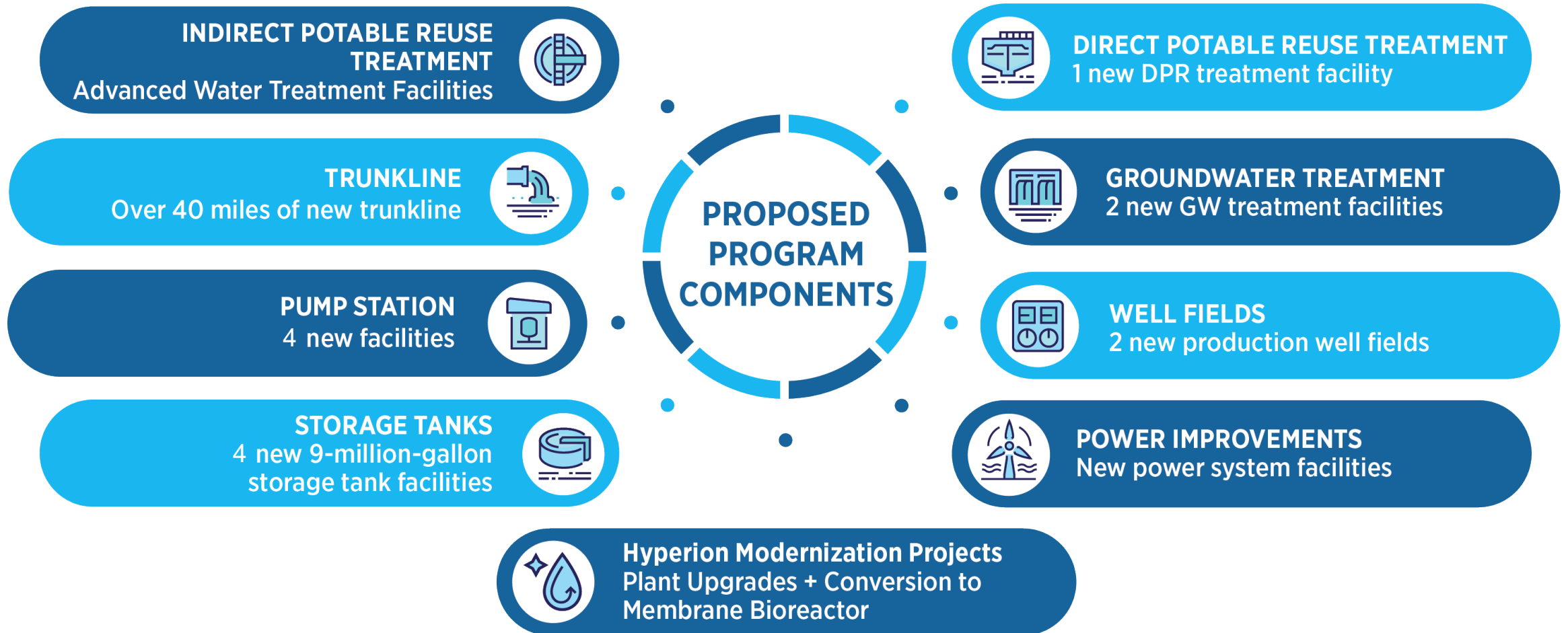
Benefits from Implementation of MBR

Environmental Benefit for Santa Monica Bay

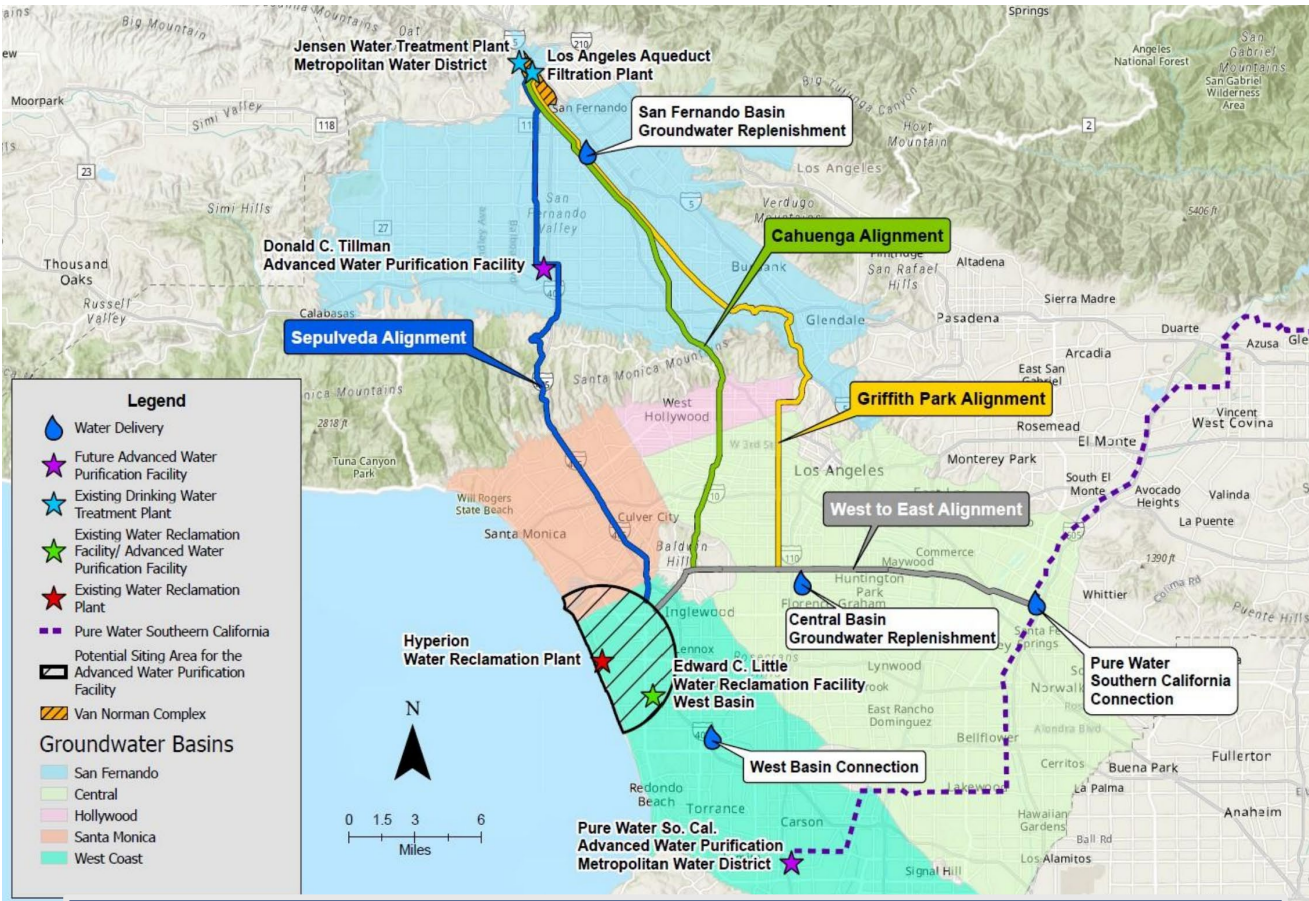
- Use of Membrane Bioreactor (MBR), provides two major benefits:
 - Cleaner water for subsequent purification
 - Significant reduction of pollutants discharged



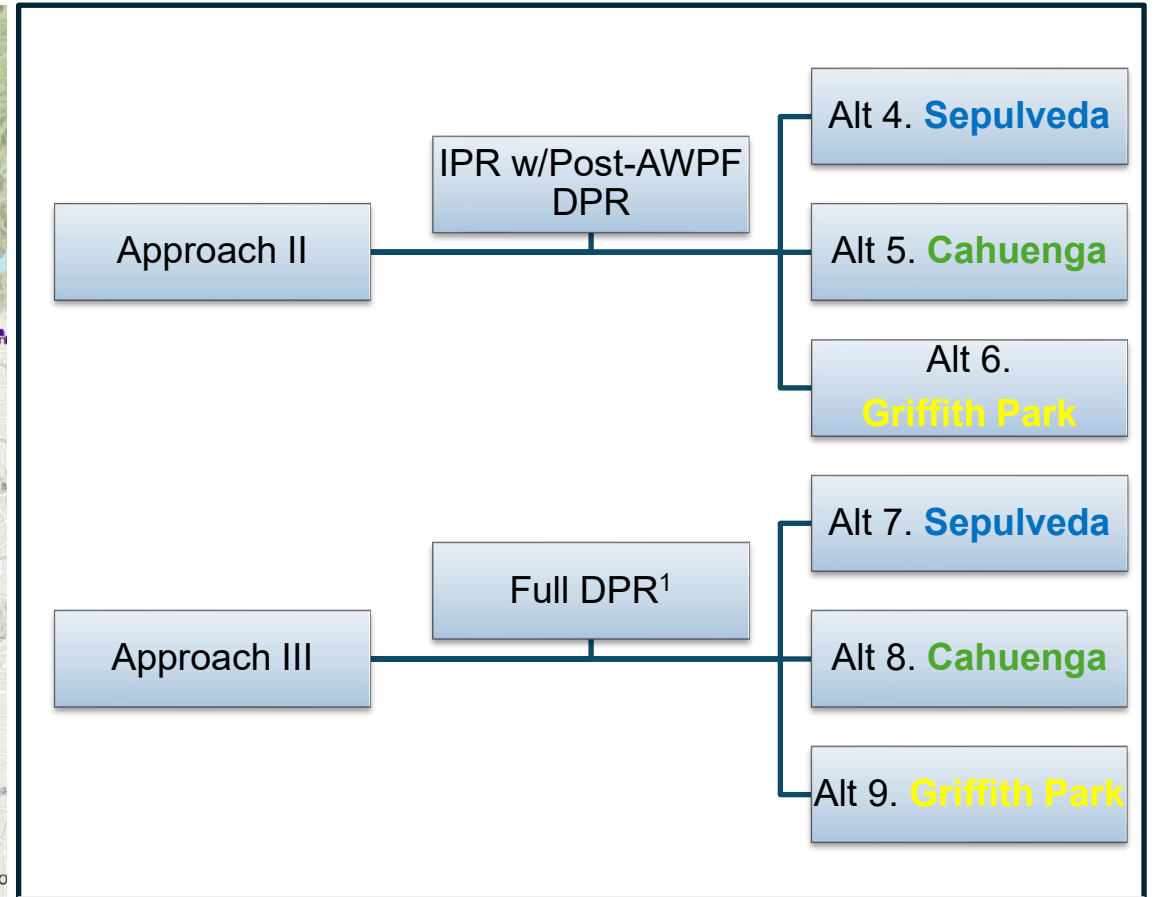
Projected Capital Improvements



Treatment and Conveyance Strategies



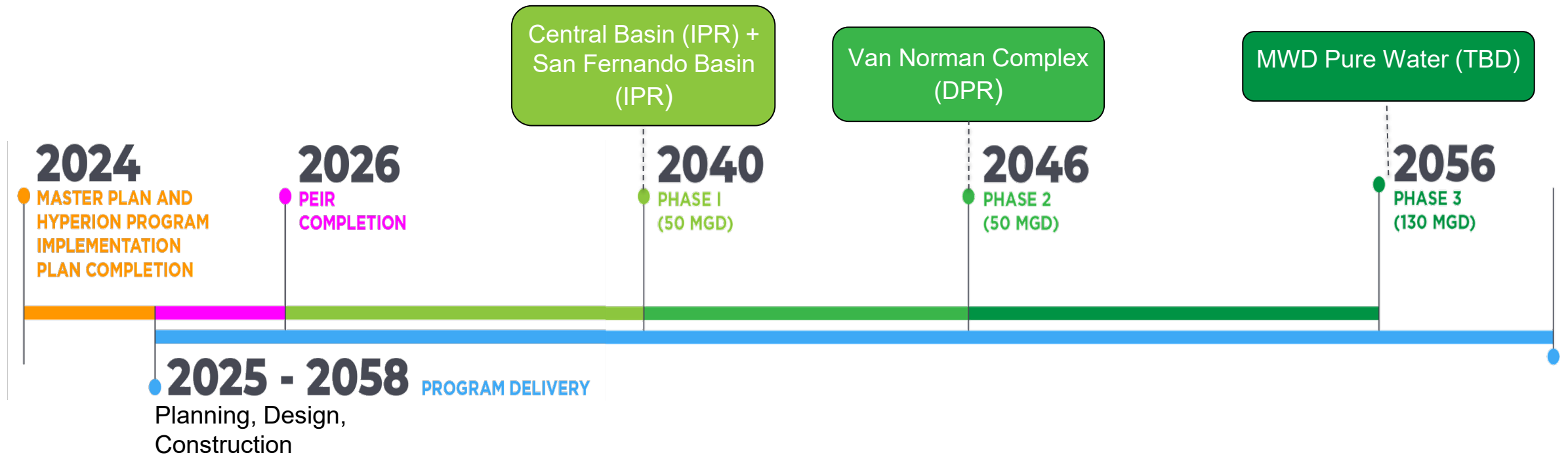
DPR Regulations Approved by State on December 19, 2023



¹ – Approach III is IPR initially, then phased to full DPR.

² – All Alternatives include a connection to MWD's Pure Water Southern California Program.

Program Phasing Schedule and Cost



Program Capital Cost Range:
\$20.9 - \$25.8B

Program Benefits



EQUITY

invests in communities



CLIMATE JUSTICE

safeguards the availability of water for all Angelenos



ENVIRONMENTAL

protects the Santa Monica Bay



WORKFORCE DEVELOPMENT

generates good paying sustaining jobs



ECONOMIC

maximizes cost-effective production



TRANSPARENCY

ensures stakeholders are well-informed

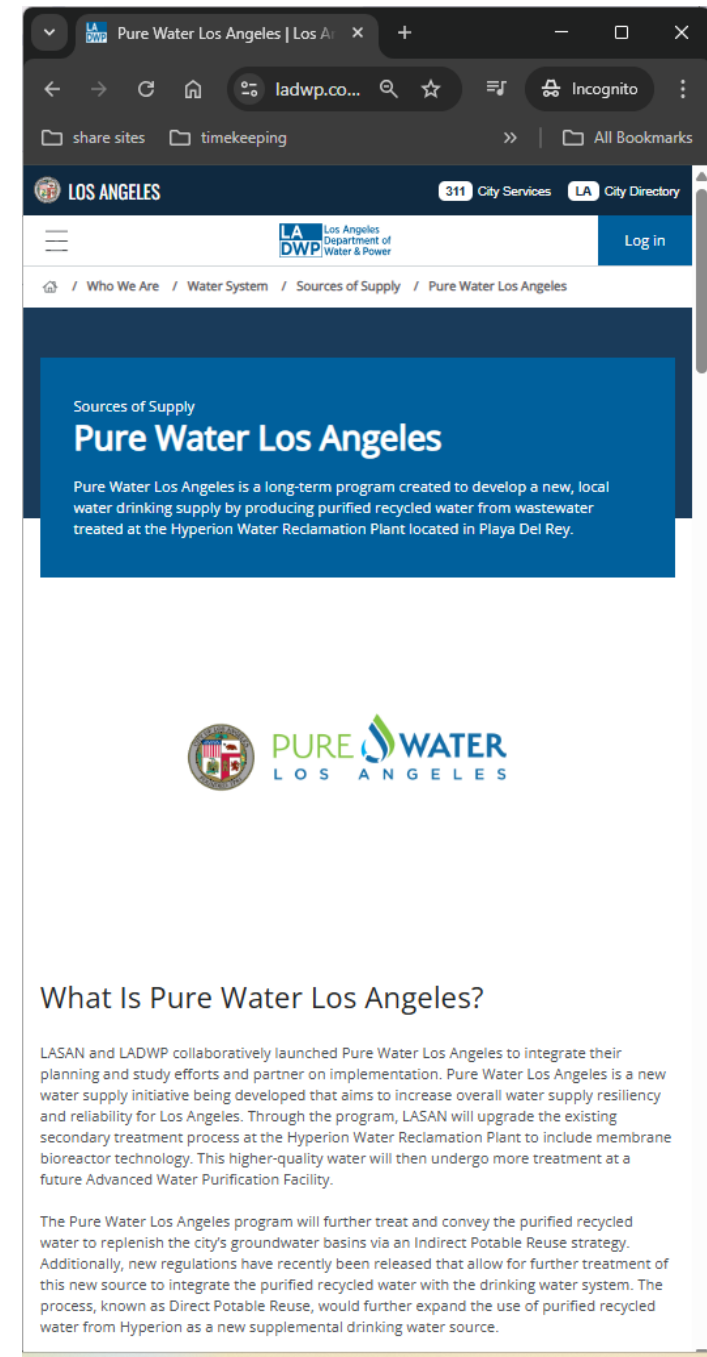


PARTNERSHIPS

leverages regional participation

Resources on the Program Website

- Master Plan by LADWP
- Program Implementation Plan by LASAN
- An Introduction to the Master Plan and the Program Implementation Plan
- Program Factsheet
- Program Presentation
- ladwp.com/purewaterlosangeles
- Email: PureWaterLosAngeles@ladwp.com



Program Evolution



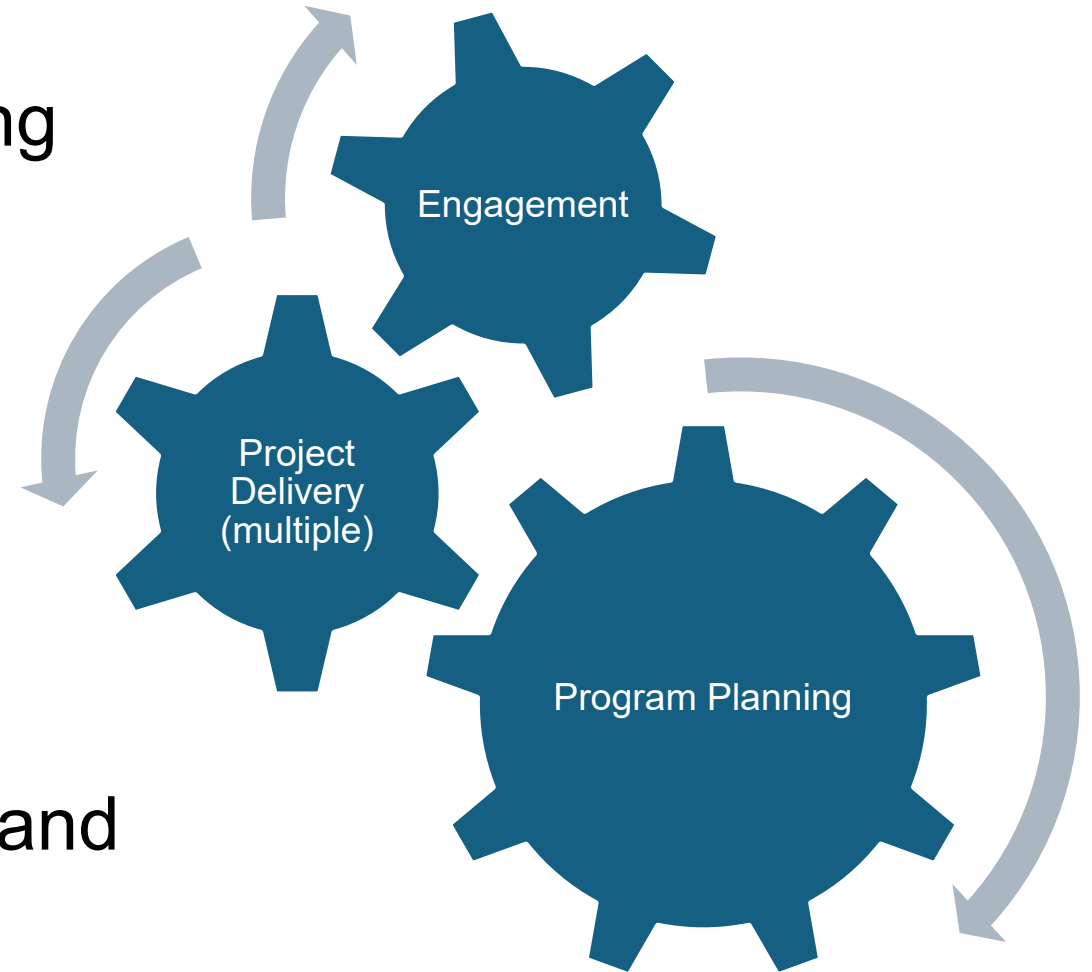
Preliminary program planning completed



Programmatic EIR is next



Many program refinements and decisions yet to come





Questions?