



Pure Water Southern California

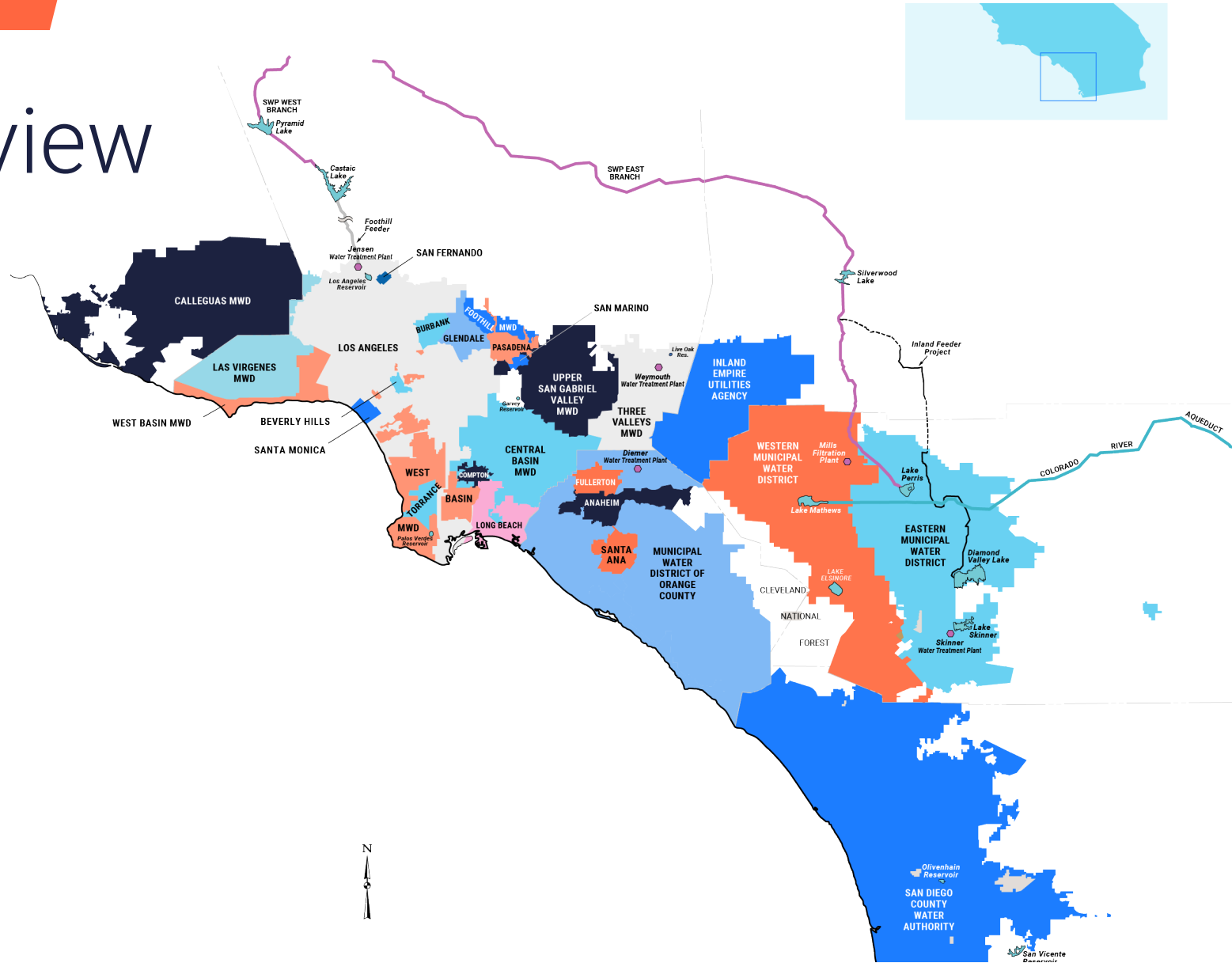
Welcome!

September 23, 2023



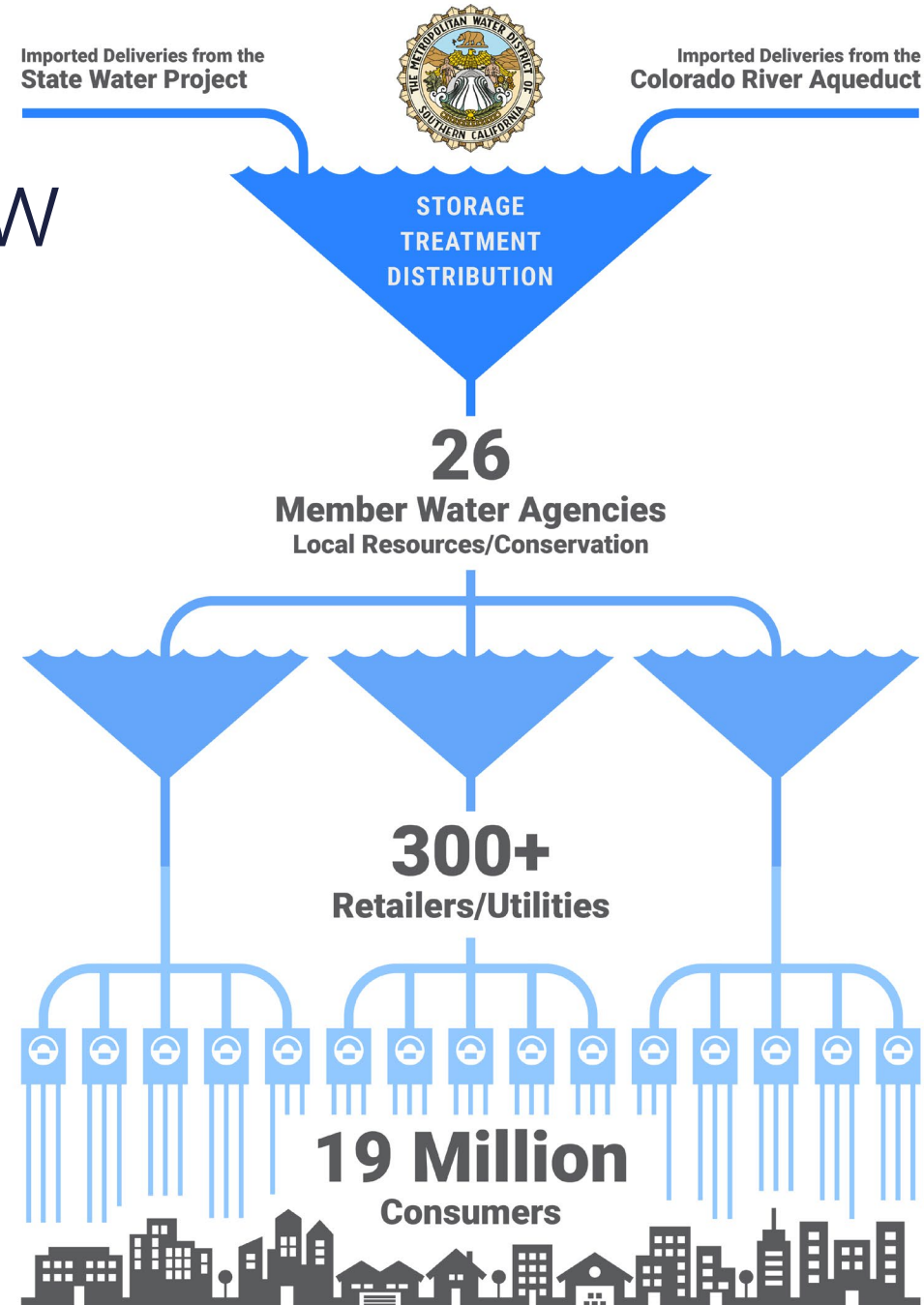
Metropolitan Overview

- Service area of 19 million people, 5,200 square miles, parts of six counties
- Supports \$1.6 trillion regional economy (ranks 11th in the world)

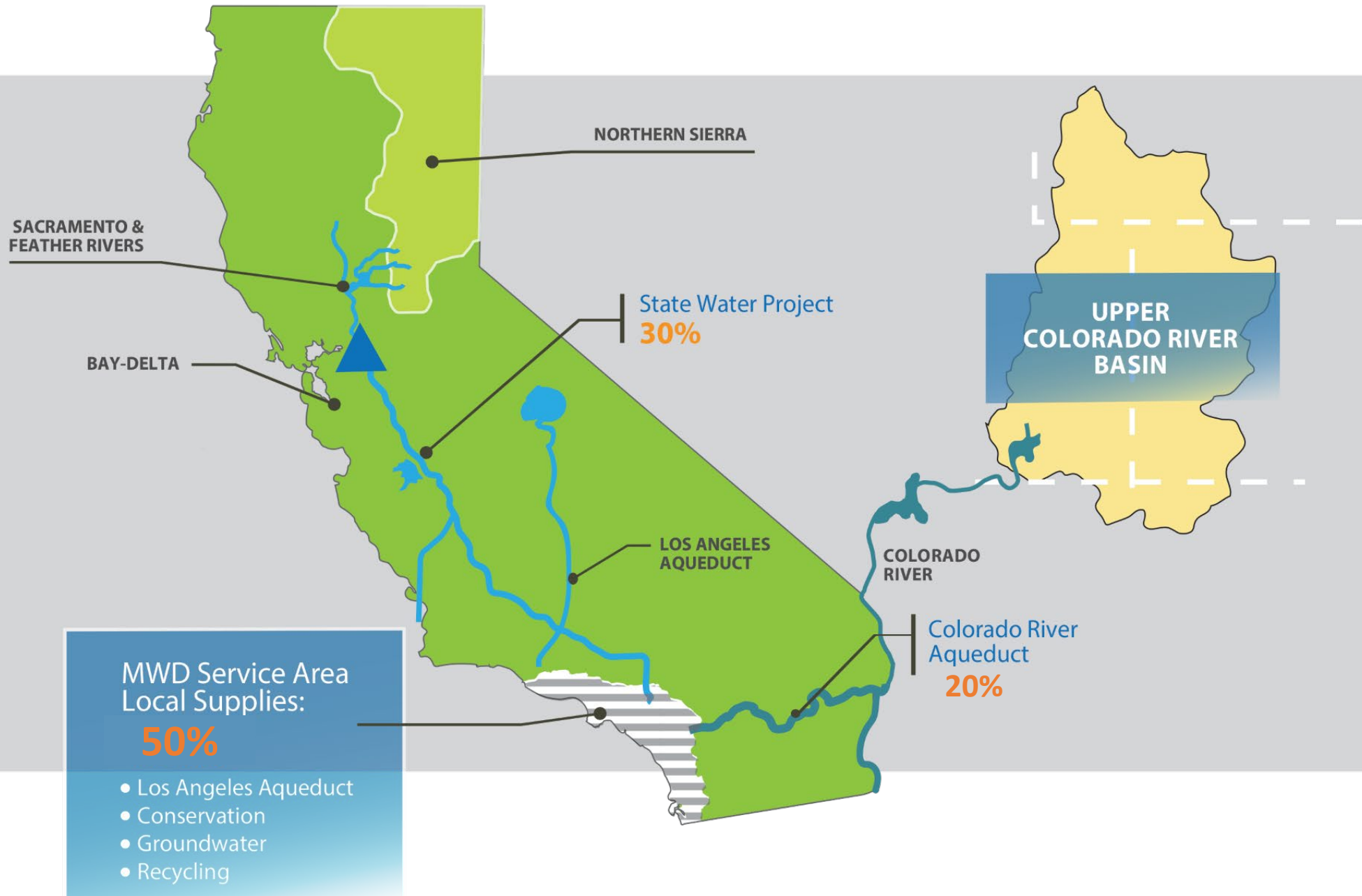


Metropolitan Overview

- Nation's **largest** wholesale water provider governed by 38 Member Board from 26 public member water agencies
- Imports water from Colorado River, Northern Sierra, invests in **local projects & conservation**



Sources of Water in Southern California



Impacts of Climate Change

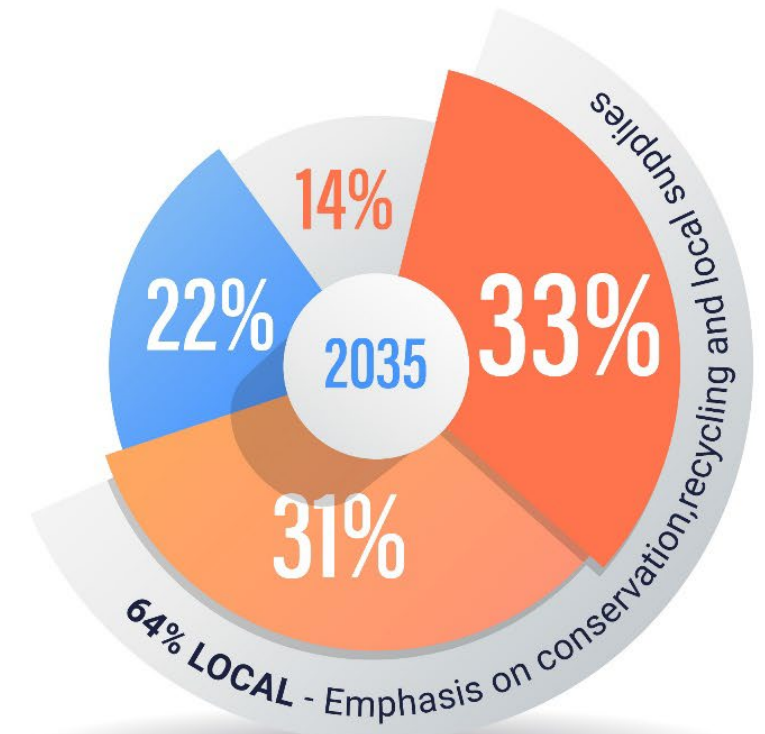
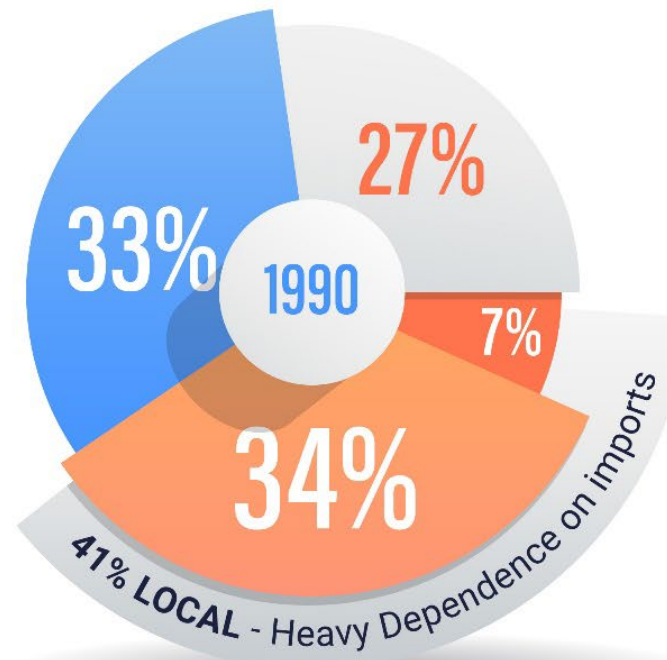


Water Supply Strategy

Average Year Water Supply 1990 vs. 2035

Local Supply Target

45 Year Goal Projection



Pure Water Southern California Program

How it works



①

Used water (wastewater) from homes, businesses, and industries in LA County



②

Cleaned at Sanitation Districts' Joint Water Pollution Control Plant



③

Purified at Metropolitan's advanced water purification facility



④

Conveyed through over 60 miles of pipeline to groundwater basins, industries, or Metropolitan's drinking water plants



⑤

A new climate-resilient source of water for Southern California

Pure Water Southern California

In numbers



Up to 150 million
gallons per day



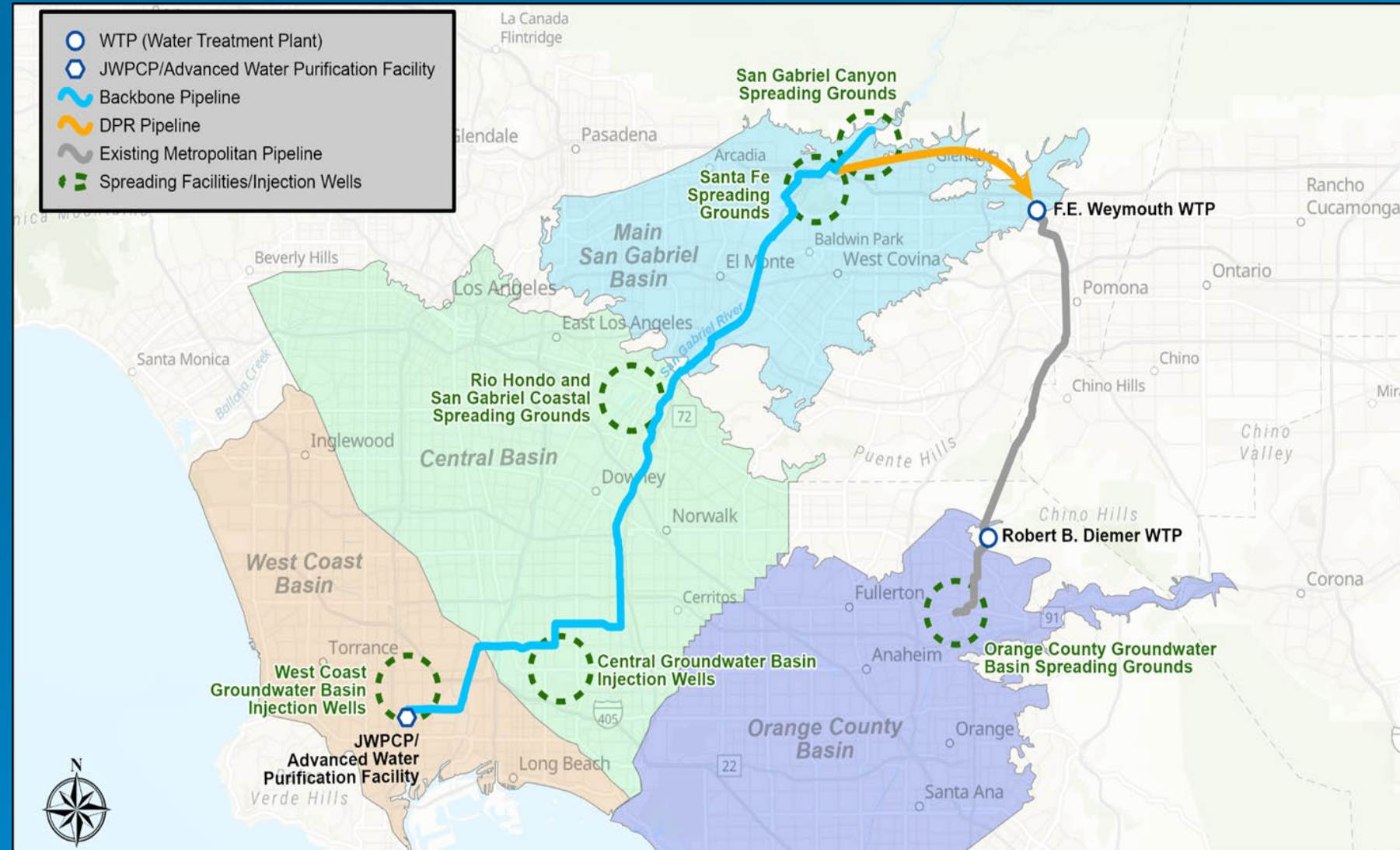
Enough water for over
1.5 million people



One of the largest
programs of its kind in
world

Program Facilities

- Advanced Water Purification facility
- Conveyance pipelines
- Pump stations
- Spreading facilities
- Injection wells
- A regional water reuse system



California Recycled Water Regulations



Non-Potable
Reuse

Irrigation
Industrial Uses

2000



Indirect
Potable Reuse

Groundwater
Replenishment

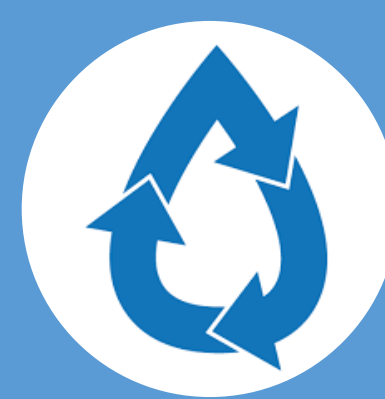
2014



Indirect
Potable Reuse

Reservoir Water
Augmentation

2018



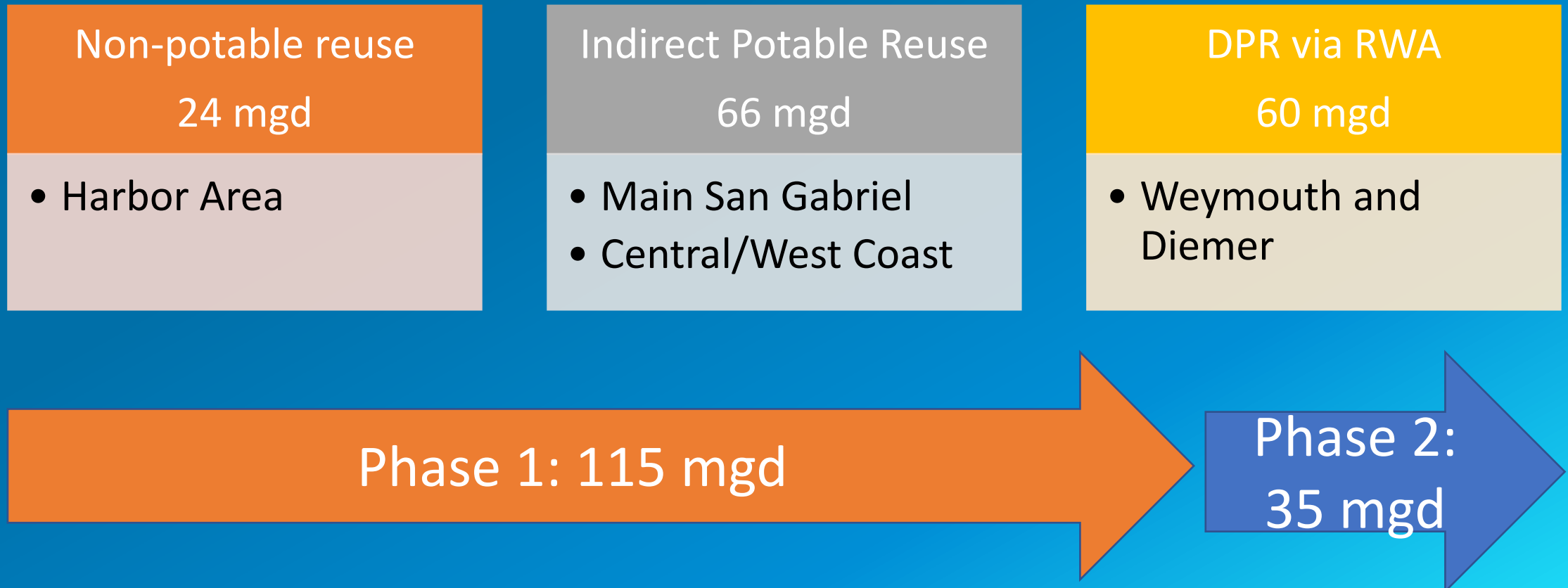
Direct
Potable Reuse

Raw and Treated
Water
Augmentation

2023

Increasing requirements for public health protection

Program Overview



Joint Water Pollution Control Plant



- Average flow of ~250 million gallons daily
- Agency serves ~5.6 million people in L.A. County
- Cleaned water flows to the ocean
- Largest untapped source of treated wastewater





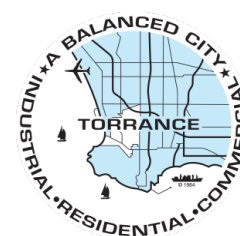
THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Program Partners



**LOS ANGELES COUNTY
SANITATION DISTRICTS**
Converting Waste Into Resources

Metropolitan Member Agencies



Groundwater Basin Managers



Colorado River Partners



Other Key Partners



**US Army Corps
of Engineers®**



Energy for What's Ahead™



Project History

- Pilot Scale Studies (2010-2012)
- Feasibility Study Report (2013-2016)
- Conceptual Planning Studies (2017-2019)
- Demonstration Plant (2017- present)
- Environmental Planning (2021-2024)
- Preliminary Design (start 2023)



Program Benefits

Water Supply Benefits



Provides a Sustainable
Supply of Water



Increases
Water Resiliency



Replenishes
Groundwater Basins



Creates a Local
Supply of Water

Environmental Benefits



Enhances
Water Quality



Reuses the Largest Untapped Source
of Wastewater in the Region



Reduces Reliance on
Imported Supplies

Economic Benefits



Fuels
Economic Growth



Generates
Jobs

Program Schedule

2021-2024

Environmental
Planning

2023-2031

Design &
Construction

2032

Primary Startup &
Operations

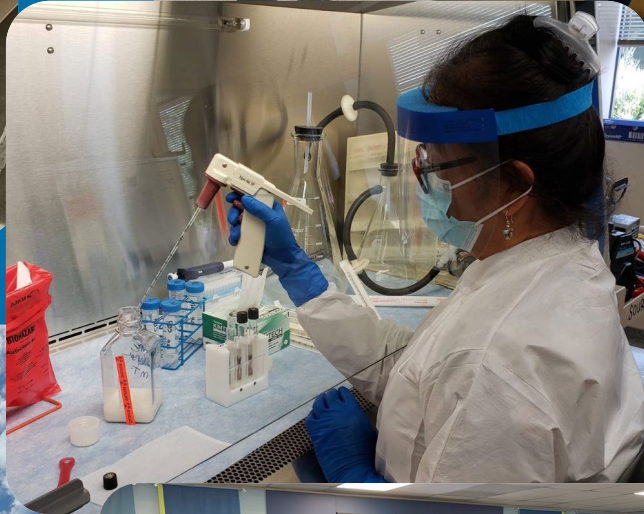


Unique Elements

- Design Build and Alternate Delivery Methods
- Project Labor Agreement
- Grant and Partnership Funding



Pure Water Southern California Demonstration Plant

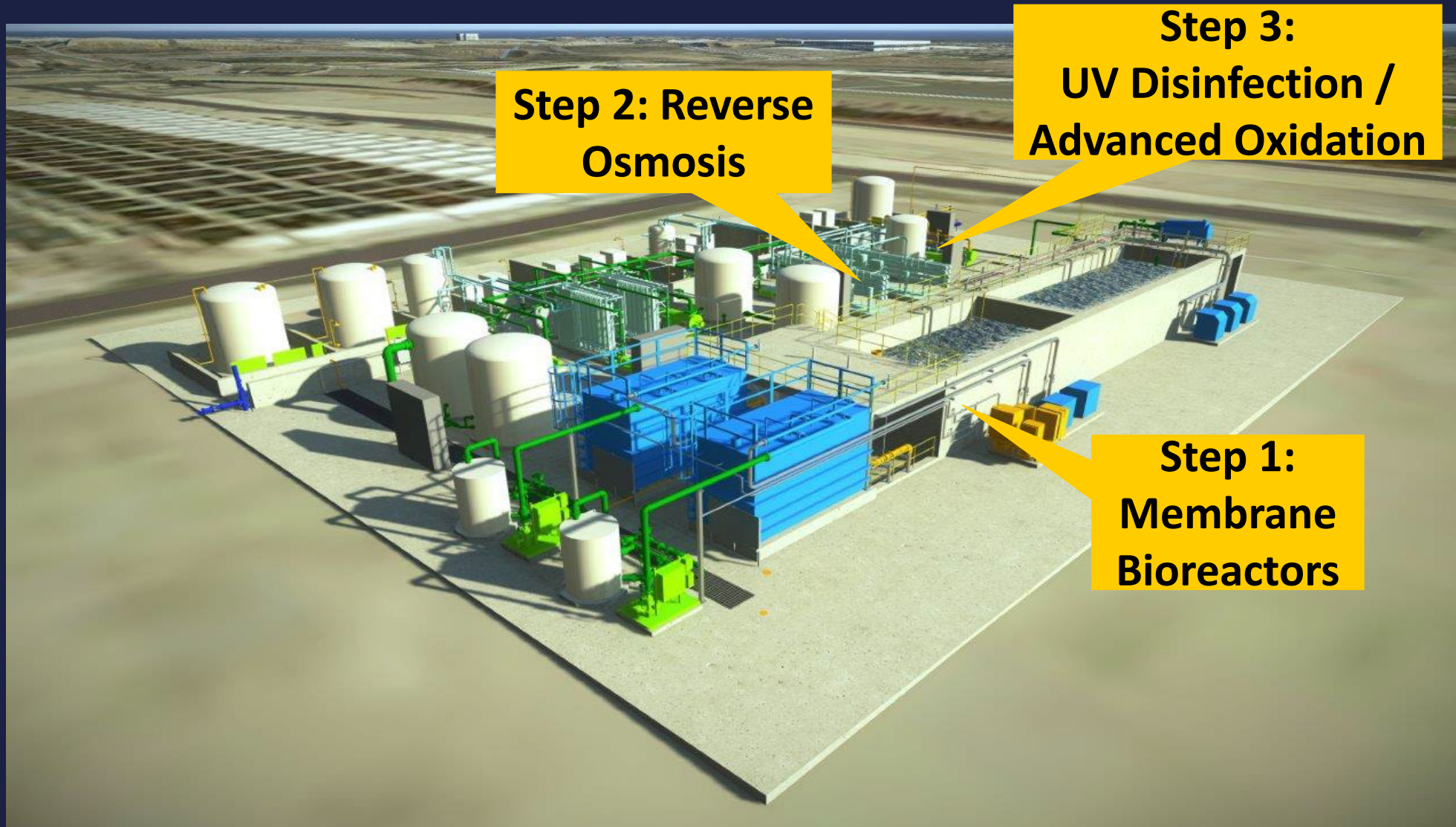


Demonstration Plant Overview

- Tests an innovative purification process
- Obtain regulatory approval of process
- Provides costs and data for full-scale facility
- Gain public support



Purification Process





Let's Take a Tour

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**LOS ANGELES COUNTY
SANITATION DISTRICTS**
Converting Waste Into Resources

PUREWATER
SOUTHERN CALIFORNIA


Metropolitan Pure Water Website


www.mwdh2o.com/purewater

THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

EN ▾ Local Water Agency ▾ Director Login 🔍

☰






Water is too precious to use just once. So, the Metropolitan Water District of Southern California is making a major investment in a potential water recycling program that would reuse water currently sent to the ocean. Pure Water Southern California, formerly known as the Regional Recycled Water Program, will take cleaned wastewater and further purify it to produce a new, sustainable source of high-quality water for Southern California.

This partnership with the Los Angeles County Sanitation Districts would produce up to 150 million gallons of water daily when completed and provide purified water for up to 15 million people, making it one of the largest water reuse programs in the world.

[View program resources →](#)

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[Program fact sheet →](#)



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