



Pure Water Southern California

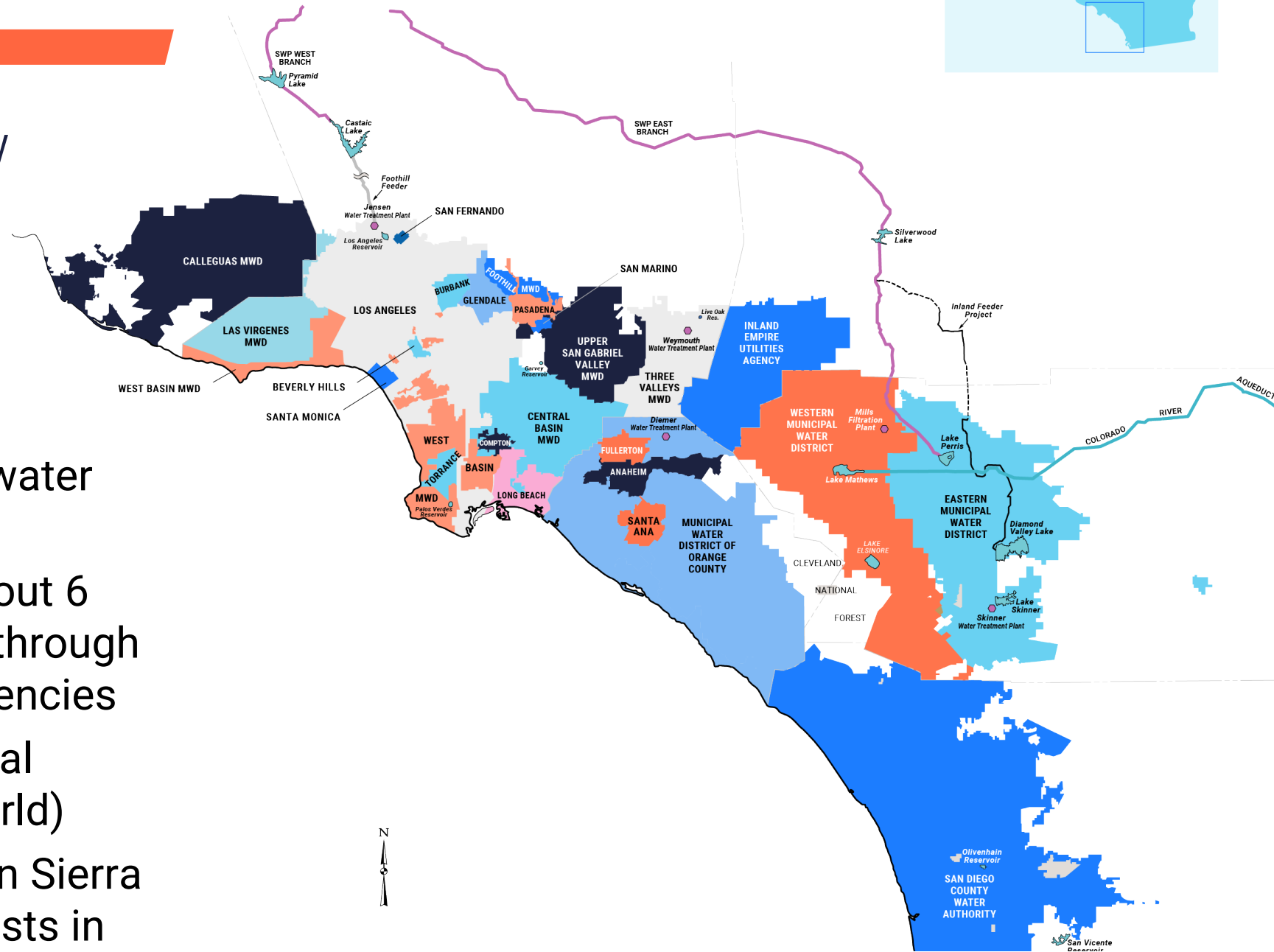
April 20, 2024

PUREWATER
SOUTHERN CALIFORNIA

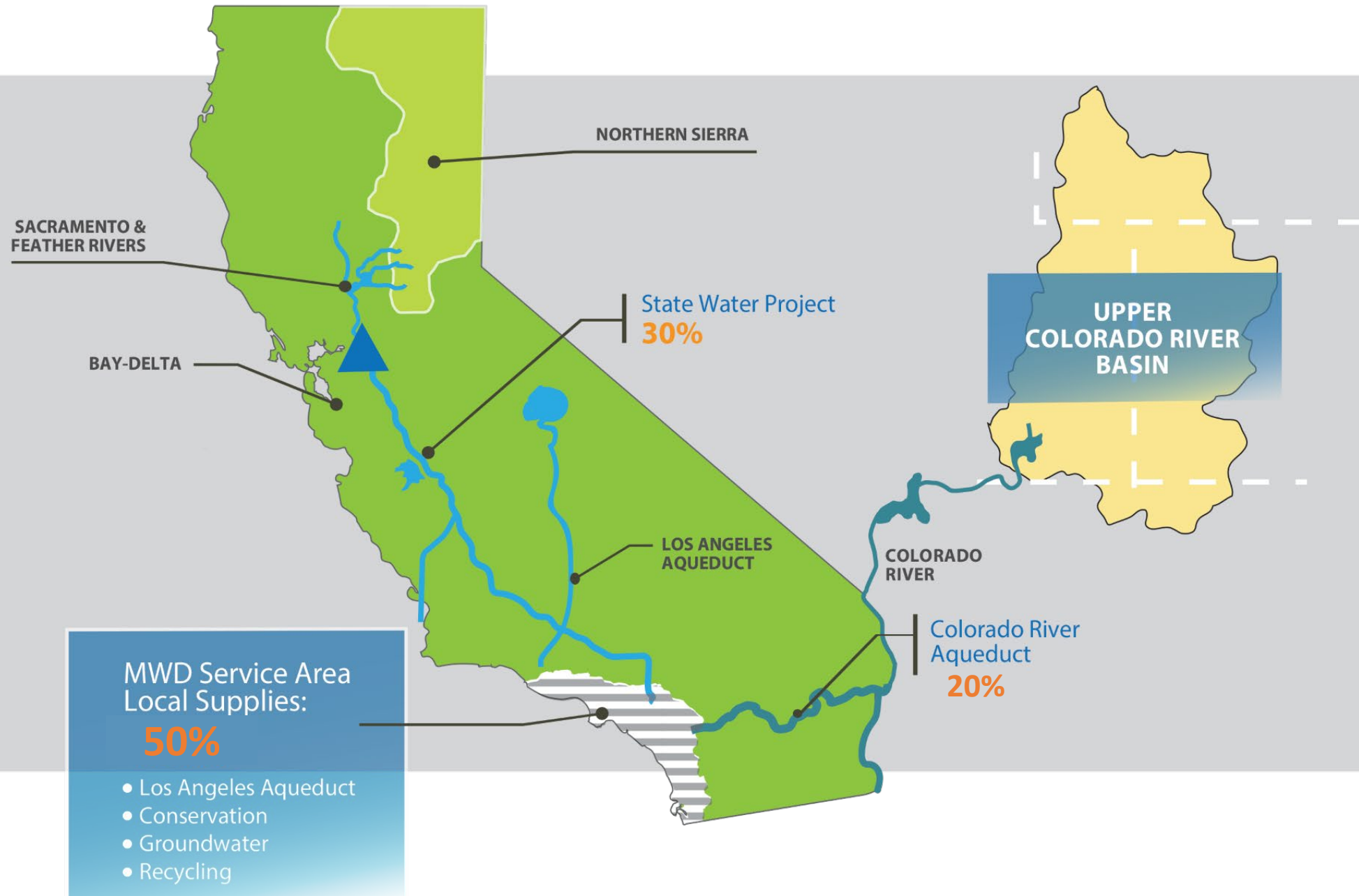


Metropolitan Overview

- Nation's largest wholesale water provider
- 5,200 square miles throughout 6 counties, 19 million people through 26 public member water agencies
- Supports \$1.6 trillion regional economy (11th largest in world)
- Imports water from Northern Sierra and the Colorado River, invests in local projects & conservation



Sources of Water in Southern California



Impacts of Climate Change



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' A.K. Warren Water Resource Facility

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



A.K. Warren Water Resource Facility



- 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





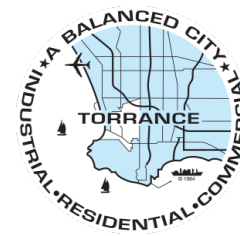
THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Program Partners



LOS ANGELES COUNTY
SANITATION DISTRICTS
Converting Waste Into Resources

Metropolitan Member Agencies



Groundwater Basin Managers



Colorado River Partners



Other Key Partners





Unique Elements

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

Considering Affordability:

Securing Outside Funding & Agency Contributions for a \$6.4 B project



- \$87M outside funding received to date
- \$8.2M partner contributions received to date
- Upcoming opportunities
 - USBR Large Scale Water Recycling Program
 - Additional partnership contributions

Program Schedule

2021-2025

Environmental
Planning

2023-2031

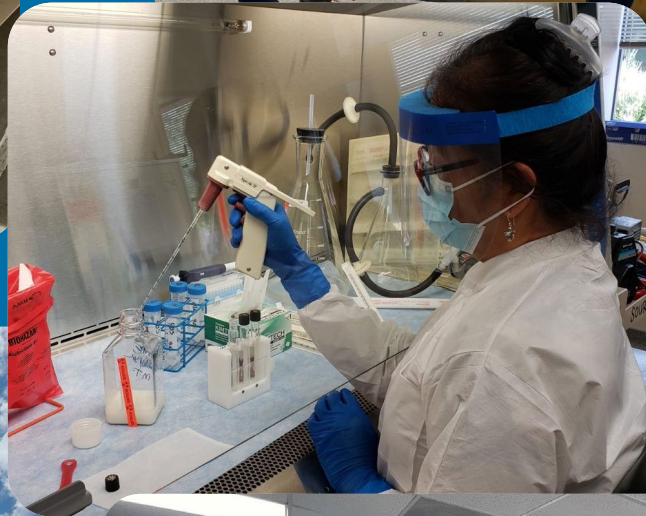
Design &
Construction

2032

Primary Startup &
Operations



Grace F. Napolitano
Pure Water Southern California
Innovation Center

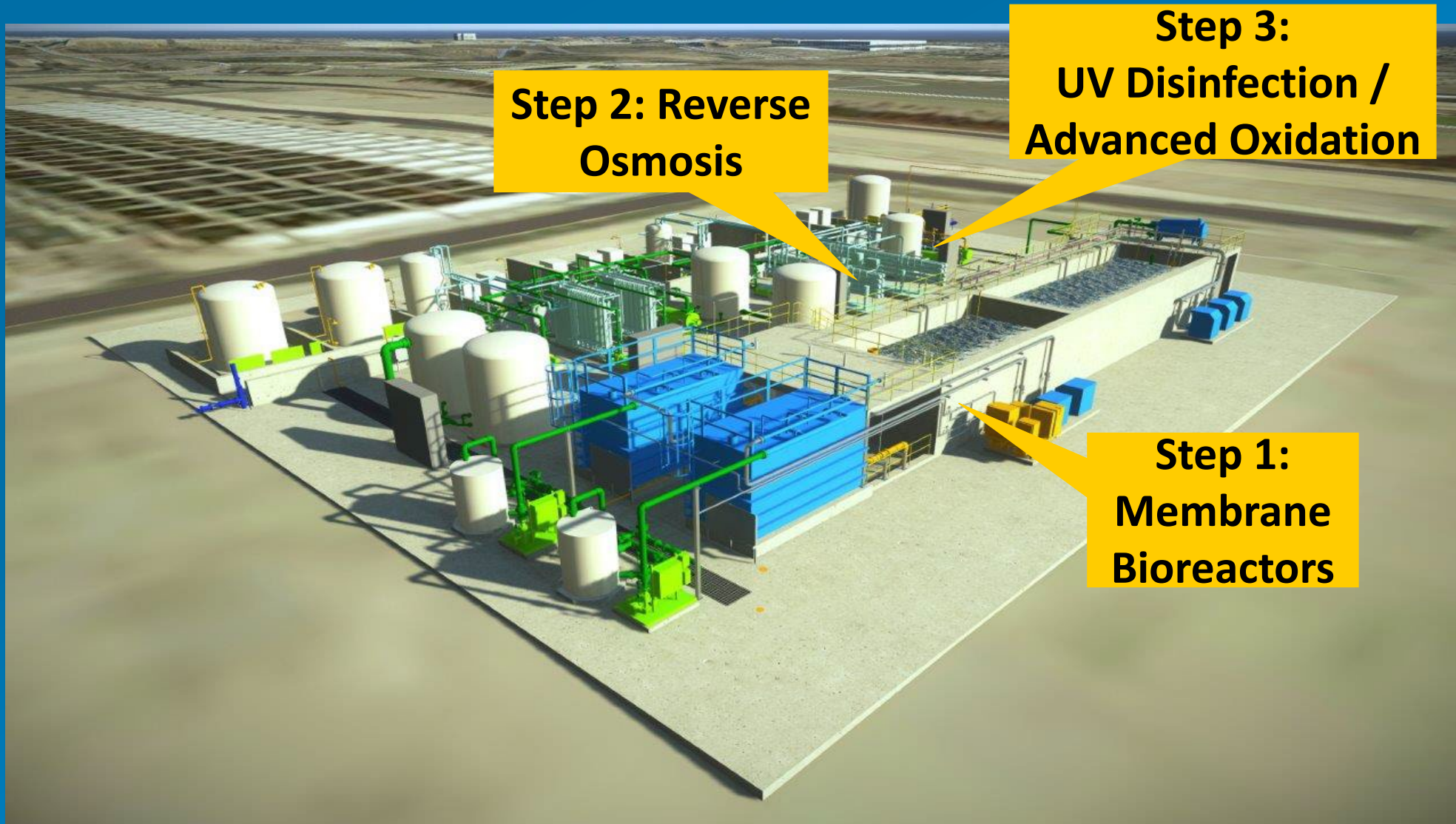


Innovation Center Overview

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



Purification Process



**Step 2: Reverse
Osmosis**

**Step 3:
UV Disinfection /
Advanced Oxidation**

**Step 1:
Membrane
Bioreactors**



Let's Take a Tour

Post-Tour Survey





Wrap-up and Questions

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Newsletter Sign-Up

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

PUREWATER
SOUTHERN CALIFORNIA