

Assessing Readiness for Framework Compliance

CALWEP PLENARY

March 9, 2023



OBJECTIVE

Attendees have a conceptual approach to planning for compliance and are defining common needs together

SESSION OUTLINE

1. An approach and resources for readiness
2. First Steps: stories from the trenches
3. Open Mic: share your story!
4. Models for support systems

SESSION BOTTOMLINE

- The time is now to plan for the Framework
- Performance-driven programs enable compelling compliance stories
- Let's define the support system we need



01

**AN APPROACH AND
RESOURCES FOR
READINESS**

CALIFORNIA'S FRAMEWORK OPPORTUNITY

- A more **equitable approach** to setting standards
- **More flexibility** to implement cost-effectively
- Water supply sustainability achieved through **local decision-making**
- **More transparency** for agencies and customers



WHAT WE'RE UP AGAINST

Limited staff capacity

Gaps in technical expertise

Magnitude and complexity of data analysis requirements

Increased funding requirements

Disengaged management

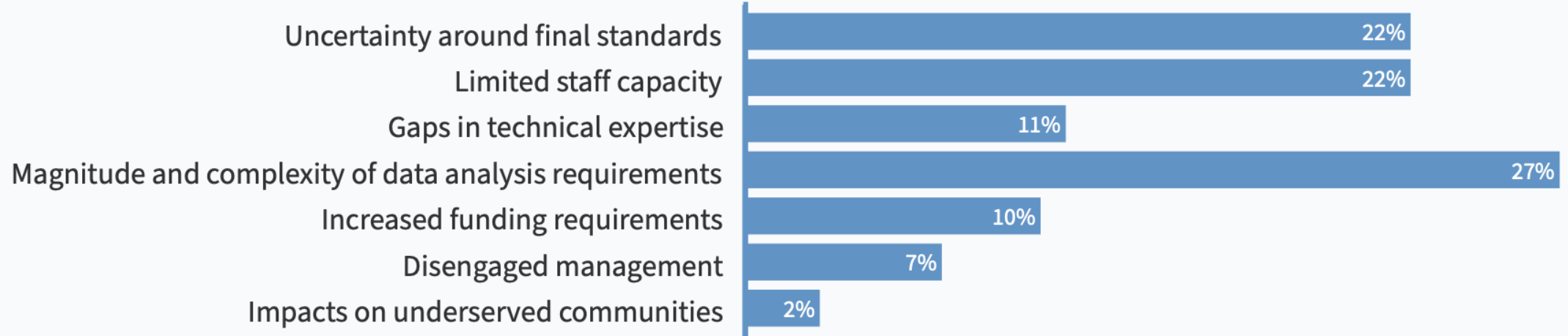
Amplified underserved community impacts



When poll is active, respond at Pollev.com/calwep2314

Text **CALWEP2314** to **22333** once to join

What is your agency's most significant issue when preparing for Framework compliance? (Pick up to 3)



ALL AGENCIES WANT TO:



Gain an understanding of water use compared to Water Use Objective & component standards



Get on track to meet new targets and advance Compliance Tasks

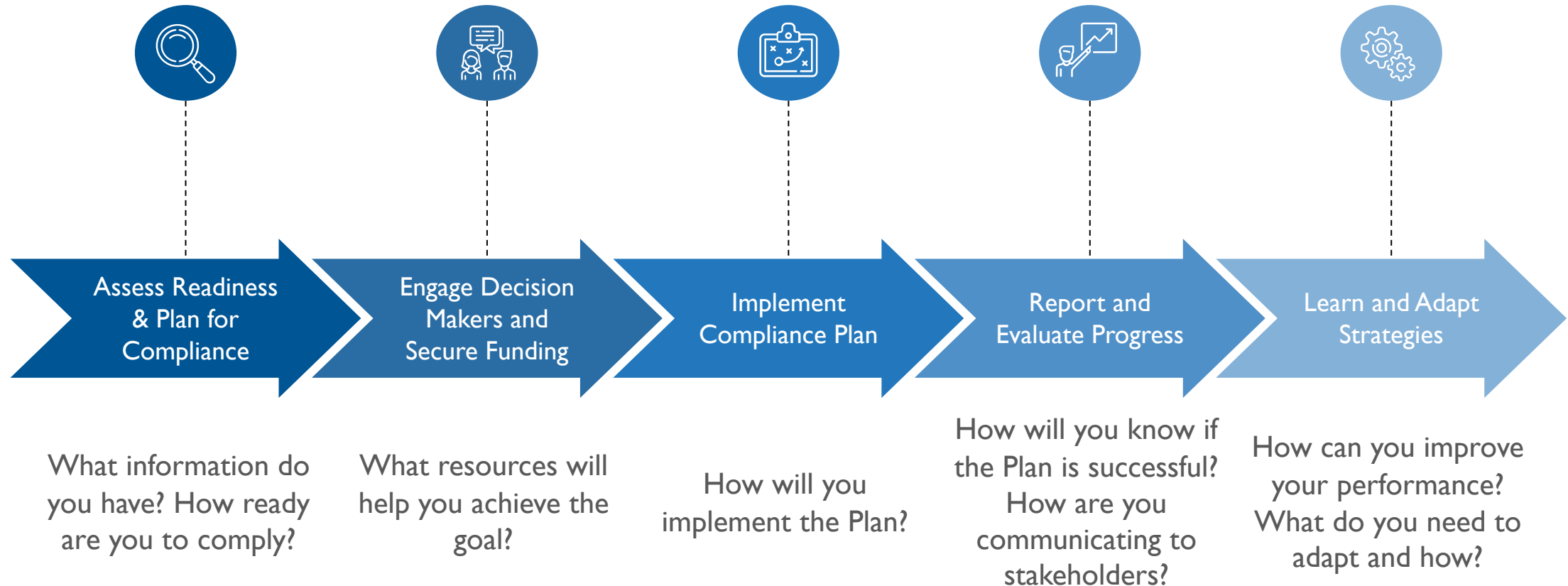


Give decision-makers confidence to **allocate resources**



Assess and communicate progress to state agencies, management, and the public using clear and relevant metrics

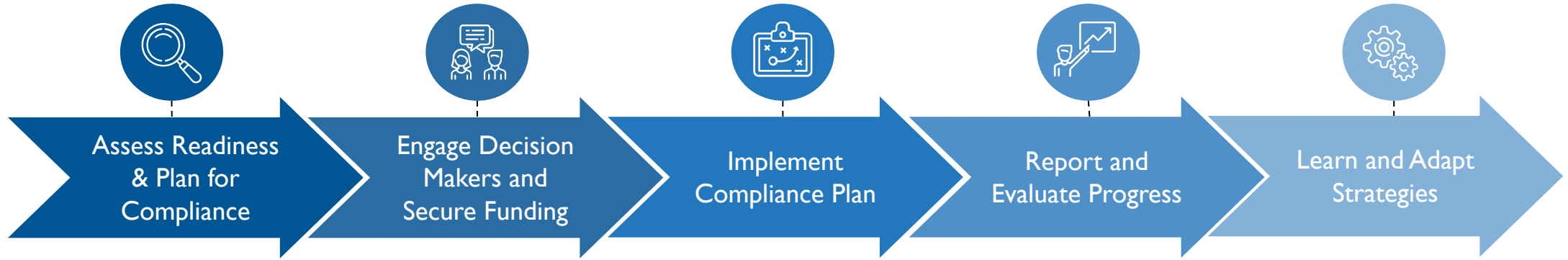
A FIVE-PHASED APPROACH TO COMPLIANCE SUCCESS



ACTIVITIES AND BEHAVIORS BY PHASE



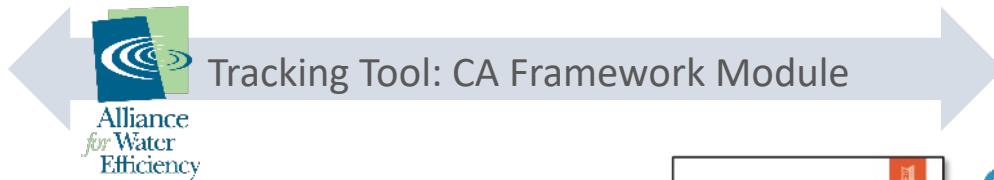
AVAILABLE RESOURCES AND GUIDANCE



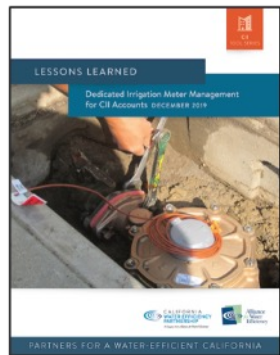
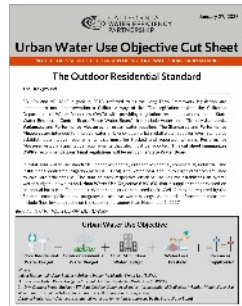
WUO Exploration Tool

Water Loss Economic Model

Residential LAM Data



Standard Cut Sheets



DIM Mgmt Guidance for CII



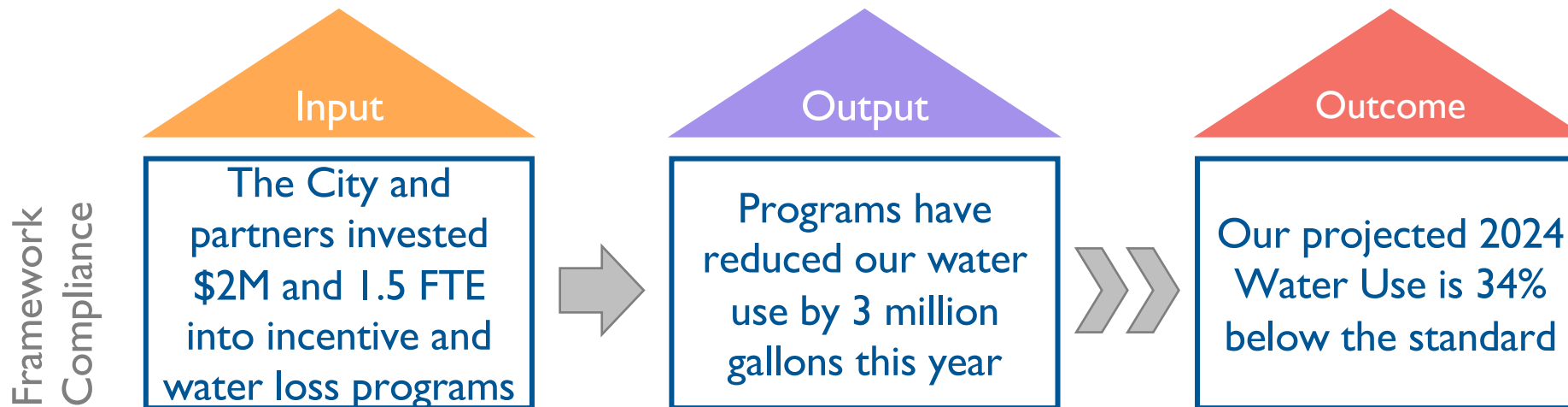
Media & Outreach Toolkit

ELEMENTS OF A PERFORMANCE-DRIVEN PROGRAM



- 1 Clear Goals
- 2 Few Performance Metrics
- 3 Tool to Calculate Metrics
- 4 Regular Reporting
- 5 Structured Adaptation Process

TELLING A COMPLIANCE STORY



02

**SDCWA and OTAY WATER
DISTRICT**

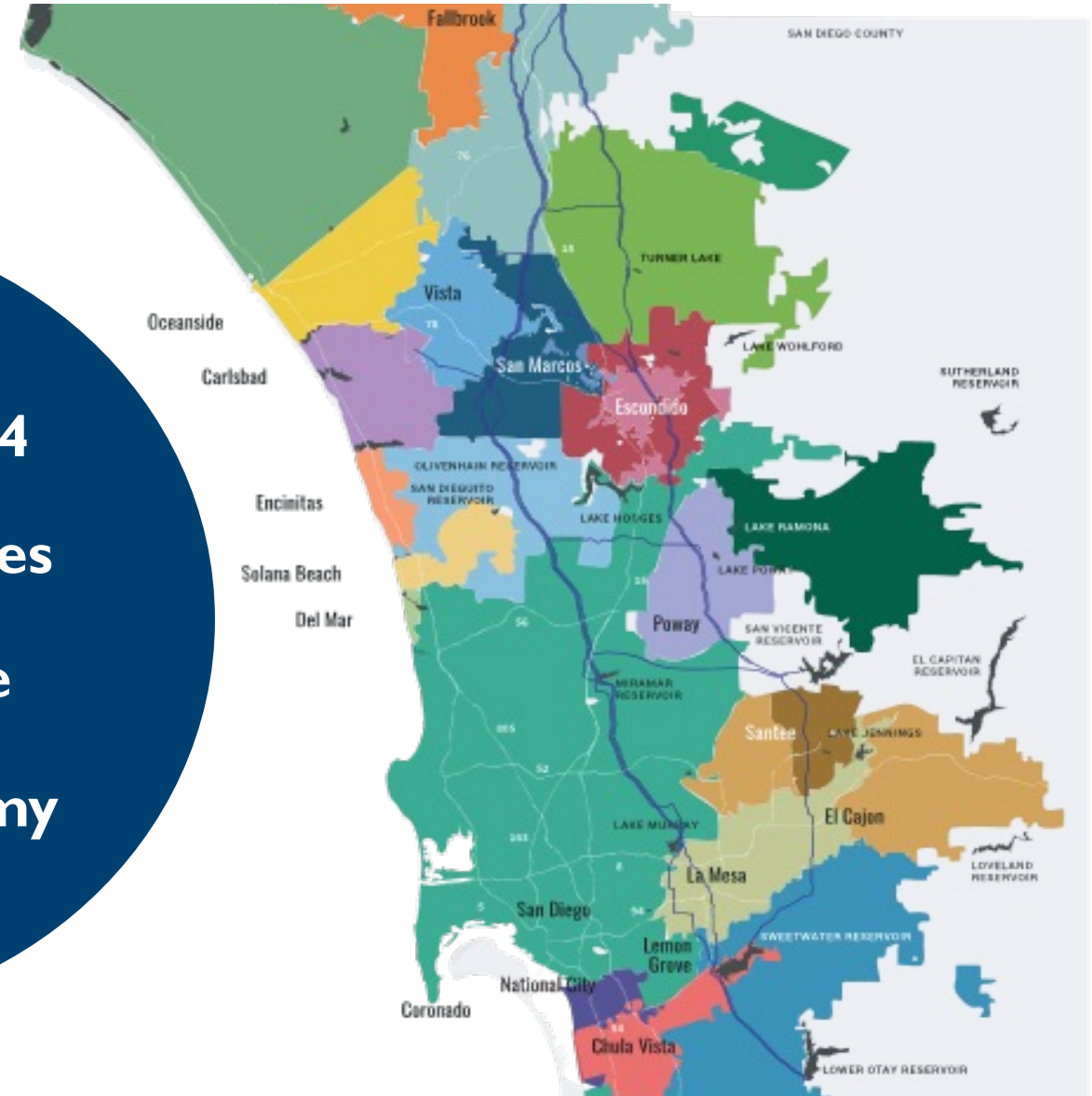
INTRO TO SDCWA



**San Diego County
Water Authority**
And Its 24
Member Agencies

Joni German
Water Resource Specialist

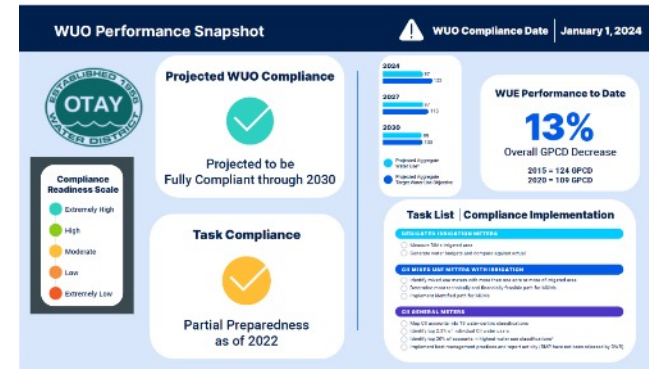
Established in 1944
24 member agencies
3.3 million people
\$253 billion economy



HELPING OUR AGENCIES PREPARE



Educational Workshops



Access to Consultant Support



Grant Funding for Regional Programs Targeting Non-Functional Turf



Welcome to the collaboration space for the San Diego Region Multi-Benefit Stacked Incentives Learning Network!

This site creates a space for members to share and access learning resources, ideas, challenges, lessons learned, and best practices as they explore investments and partnerships to achieve agency objectives including compliance, healthy communities, and sustained funding sources for projects.

This site also serves as a knowledge management platform, where meeting logistics and other event details are organized and easily accessible to network participants, and where resources produced or compiled by the San Diego County Water Authority, Environmental Incentives, or network members are posted and shared with all members.

Learning Networks to Engage Partners



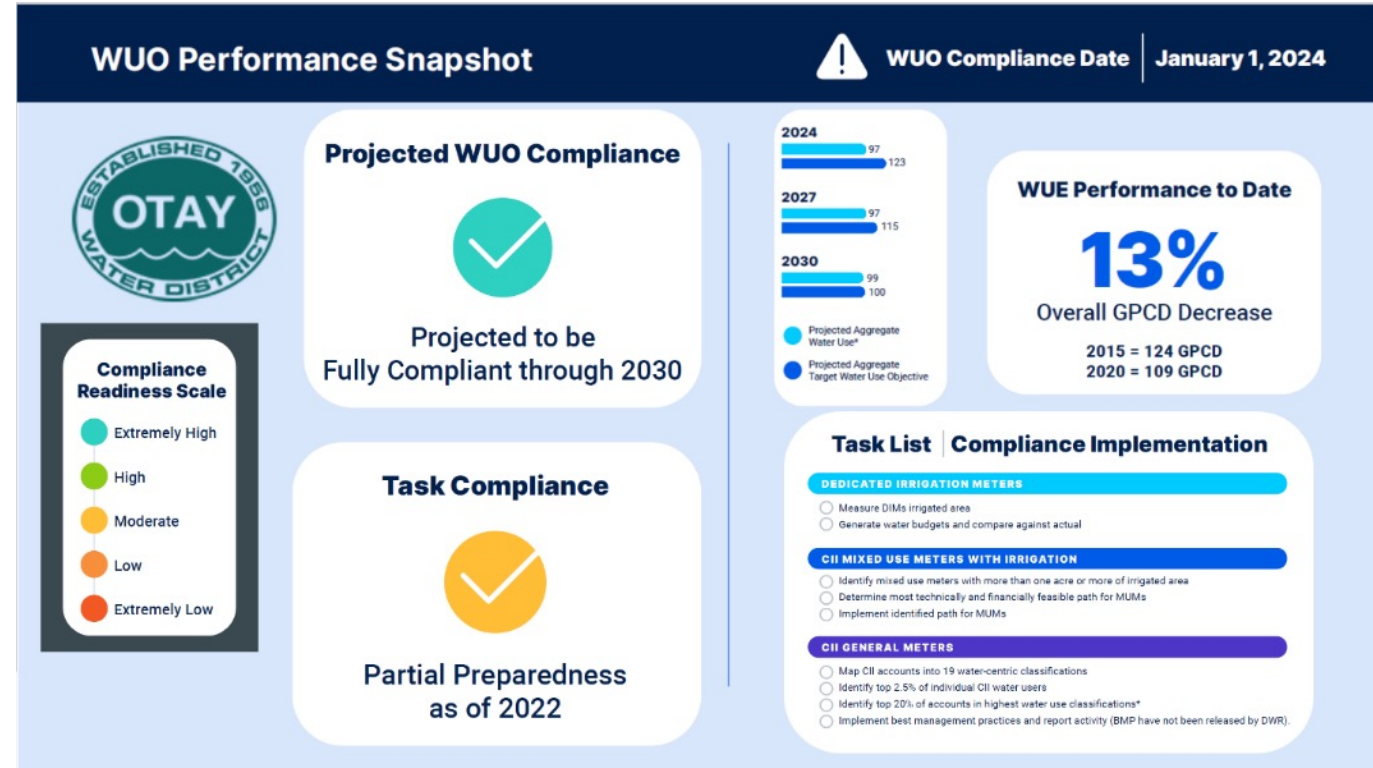
San Diego County Water Authority
 And Its 24 Member Agencies



ASSESSING READINESS AT OTAY WATER DISTRICT

Effort:

- Assessed readiness to comply with current Framework components
- Presented strengths and risks to management
- Evaluated programs against compliance risks and considered costs, benefits, and feasibility of program enhancements





ASSESSING READINESS AT OTAY WATER DISTRICT

CII/Dedicated Irrigation Meters WUO Compliance

Compliance Readiness Scale

- Extremely High
- High
- Moderate
- Low
- Extremely Low

2024 Compliance Readiness Level

High

2030 Compliance Readiness Level

High

2024 Compliance Performance

Target: 12 GPCD
Estimated Compliance Standard*

Otay projected to be in compliance

2020 Use 12 GPCD
Projected 2030 Use 12 GPCD

2030 Compliance Performance

Target: 12 GPCD
Estimated Compliance Standard*

Otay projected to be in compliance

2020 Use 12 GPCD
Projected 2030 Use 12 GPCD

2024 Implementation Requirements Status

20% by 2023 | 40% by 2024 | 60% by 2025 | 80% by 2026 | 100% by 2027

0% — Measure DIMs

0% — Generate Water Budgets

Compliance Requirement Tasks

Measure DIMs irrigated area
Generate water budgets and compare against actual
Report annual WUO starting in January 2024

Program Enhancement Opportunities

Target inefficient water users for program
Implement large landscape optimization services for entire service area
Maximize turf replacement incentives

CII Mixed Use Meters with Irrigation Compliance

Compliance Readiness Scale

- Extremely High
- High
- Moderate
- Low
- Extremely Low

2024 Compliance Readiness Level

Moderate

2030 Compliance Readiness Level

Moderate

2027 Compliance Performance

No performance standard set by State

Requirement is to install DIMs or in-lieu technology for mixed use meters with 1+ acre of irrigated area

2012 Mixed Use Meter Stats*

993 = Total Number of Mixed Use Meter Accounts
572 = Already have Dedicated Irrigation Meter at Site
31 = Agriculture or Residential
4 = Closed
337 = Identified as Not Suitable for DIM**
228 = Less than 1 Acre of Landscaping
168 = 1+ Acre of Landscaping***

*For reference only. Does not include accounts established after 2012
**Will need to reassess this category
***Require measurement and water budget

2024 Implementation Requirements Status

20% by 2023 | 40% by 2024 | 60% by 2025 | 80% by 2026 | 100% by 2027

0% — Identify MUMs >1 acre of irrigated area

0% — Determine most feasible path for MUMs

0% — Implement solution for MUMs

Compliance Requirement Tasks

Identify mixed use meters with more than one acre or more of irrigated area.
Determine most technically and financially feasible path for MUMs
Implement identified path for MUMs
Annually report activities and performance results

In-lieu Technologies

If in-lieu technology chosen, must implement complementary BMPs along with the technology.

The required BMPs include:
communications, irrigation system inspections, repair and maintenance and proper irrigation scheduling

Water budget-based rate structure
Water budget-based management (no rate structure)

Hardware improvements
Remote sensing combined with other available information

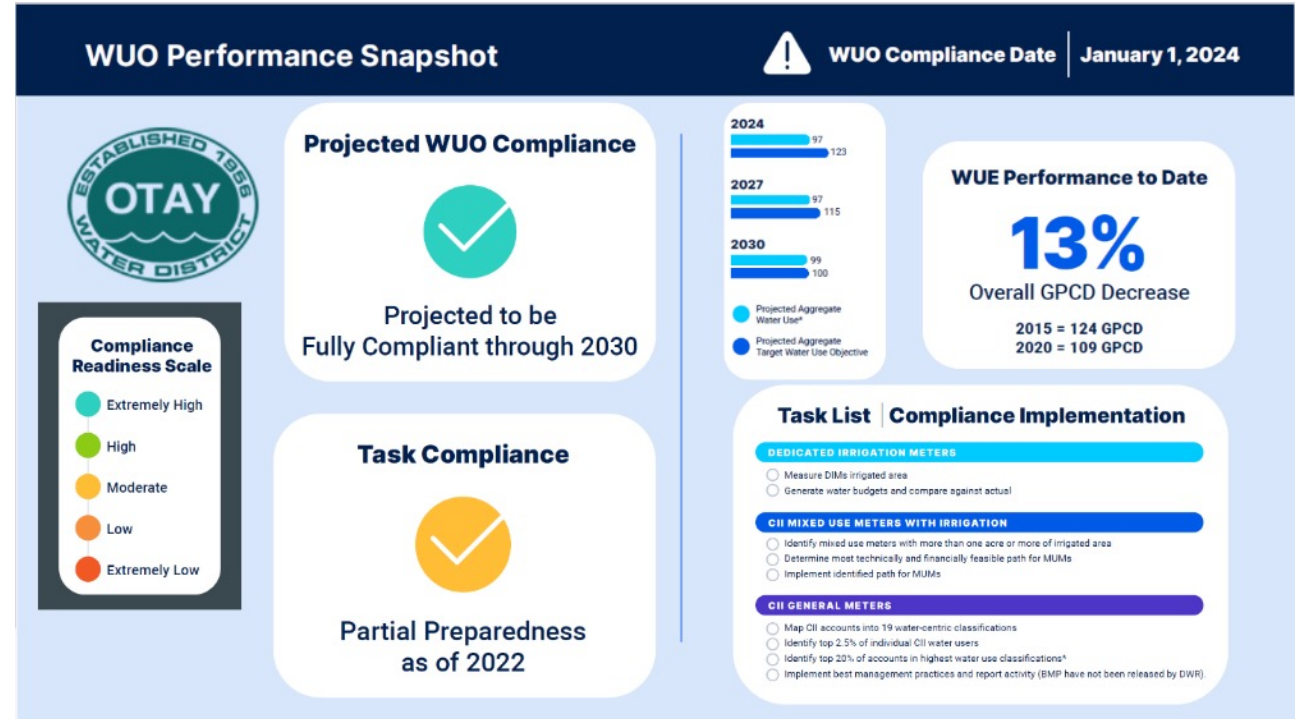
Other technologies meeting the burden of proof



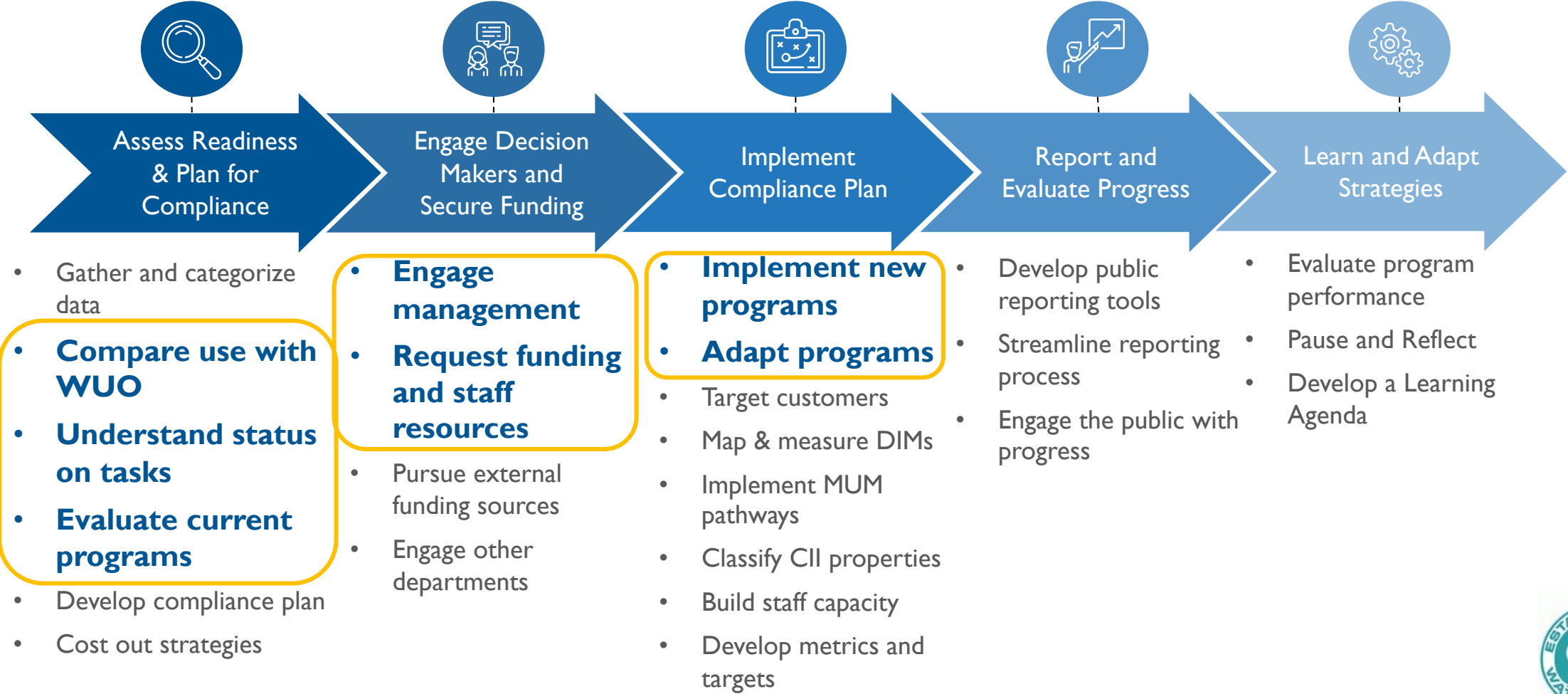
ASSESSING READINESS AT OTAY WATER DISTRICT

Outcomes to Date:

- Began evaluating enhancement of existing programs and creation of new programs based on highest compliance risks
- Management understands need and is preparing to allocate resources



OTAY WATER DISTRICT





🌐 When poll is active, respond at **PolleEv.com/calwep2314**

📧 Text **CALWEP2314** to **22333** once to join

Management at my Retail Agency understands the requirements of the Framework and Water Use Objectives

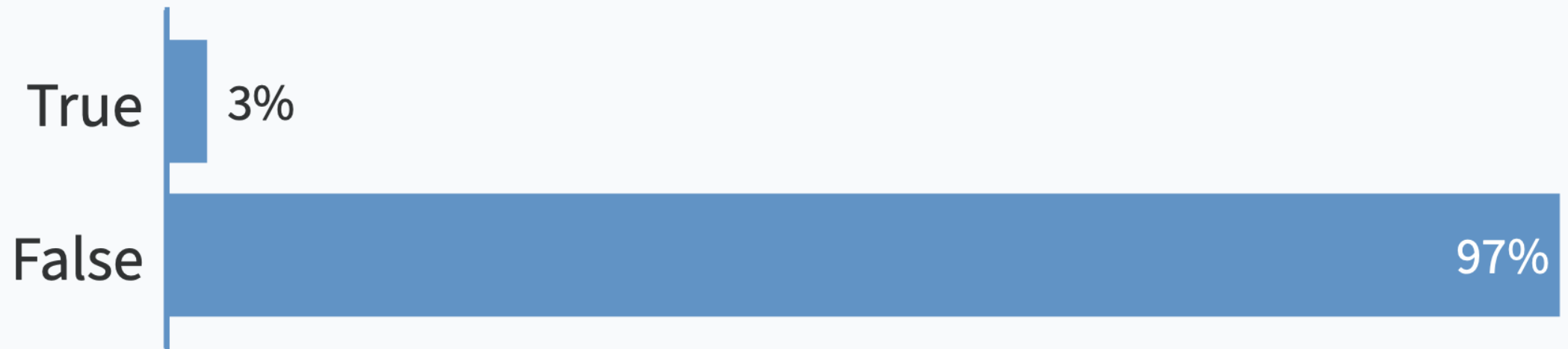




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My agency has an understanding of how much it will cost to comply

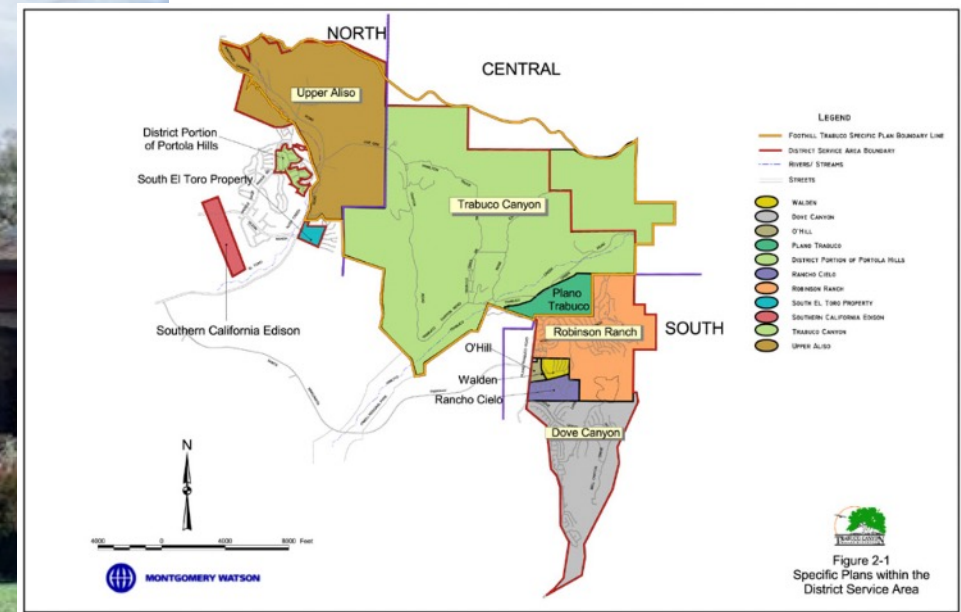


02

**TRABUCO CANYON
WATER DISTRICT**



Michael Perea
Assistant General Manager





UNIQUE CHALLENGES FOR TCWD:

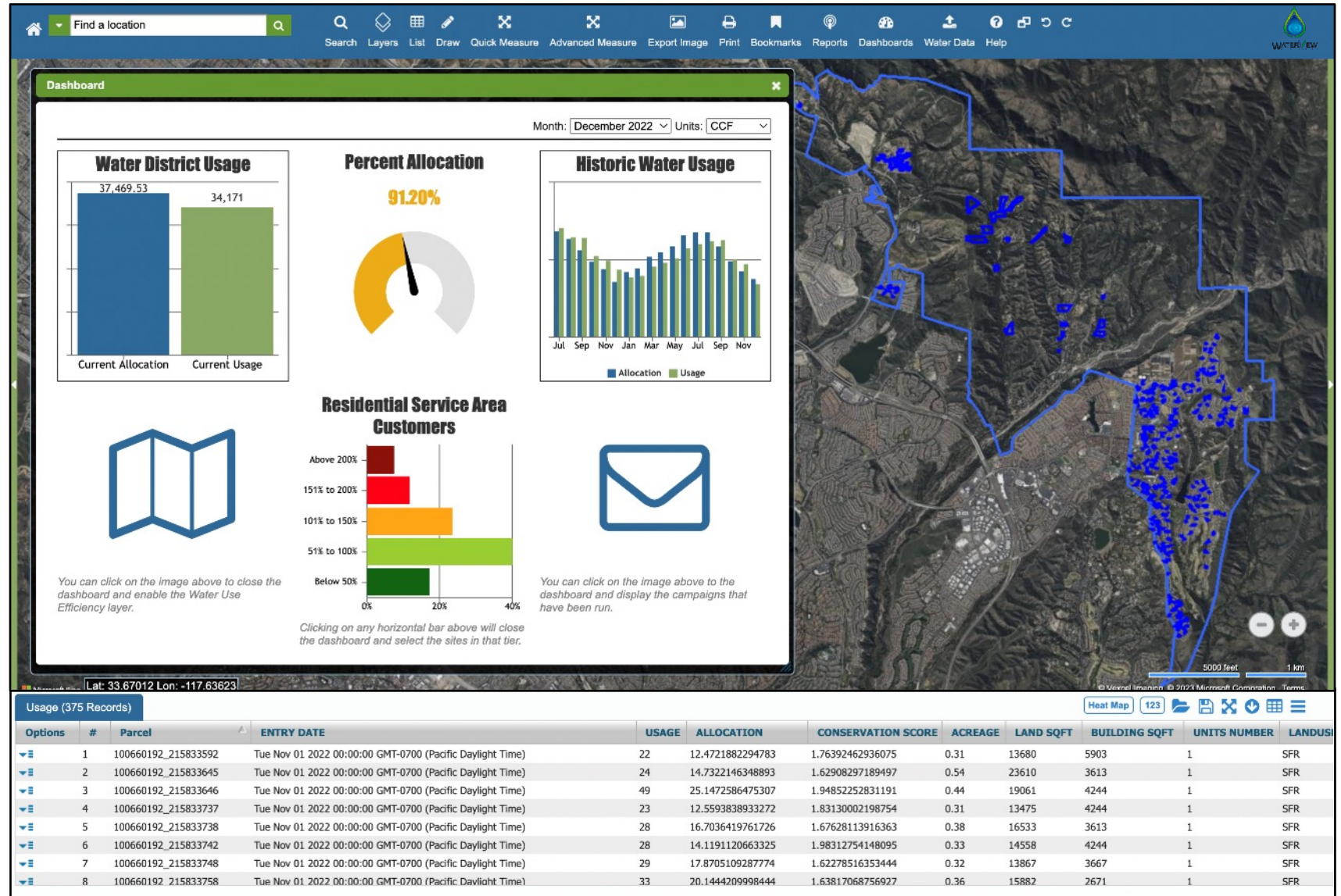
- Diverse and unique service area
- 90% Residential:
 - Planned communities
 - Large Estates
 - Cabins in the canyon
- <10% HOA DIMs - Potable & Recycled - significant demands
- <2% CII and Multi-Family customers - small classification = limited control on average outdoor demands
- Small District workforce to meet regulatory requirements (25 FTEs)



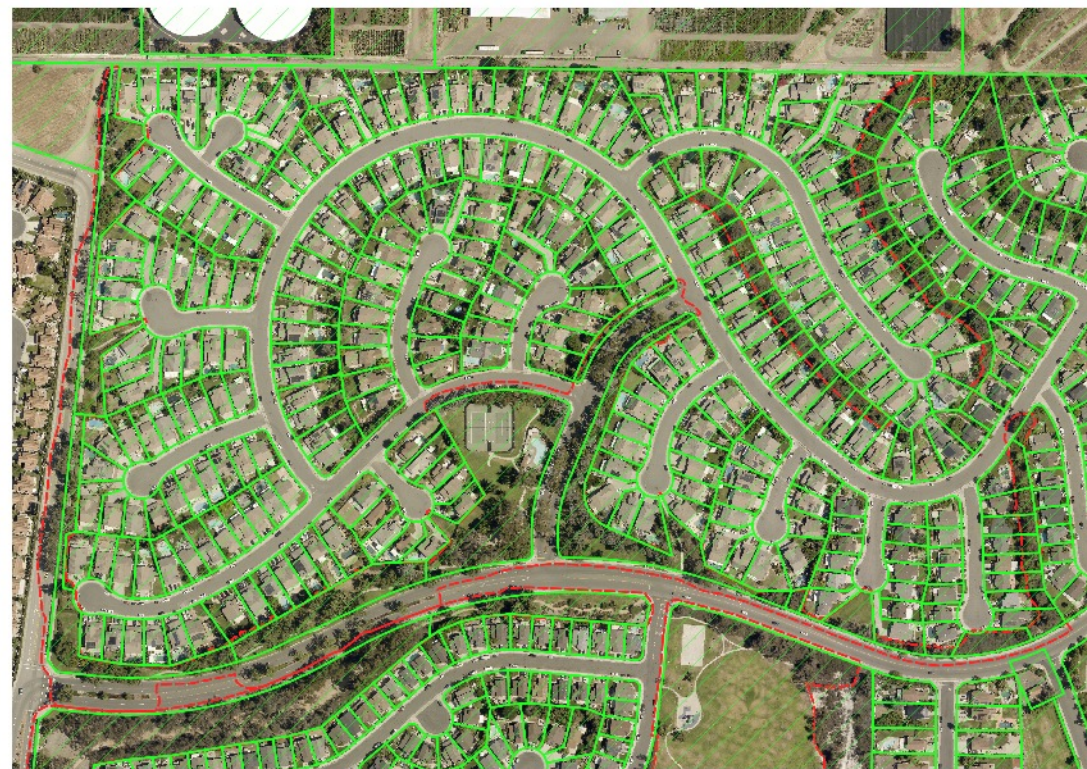
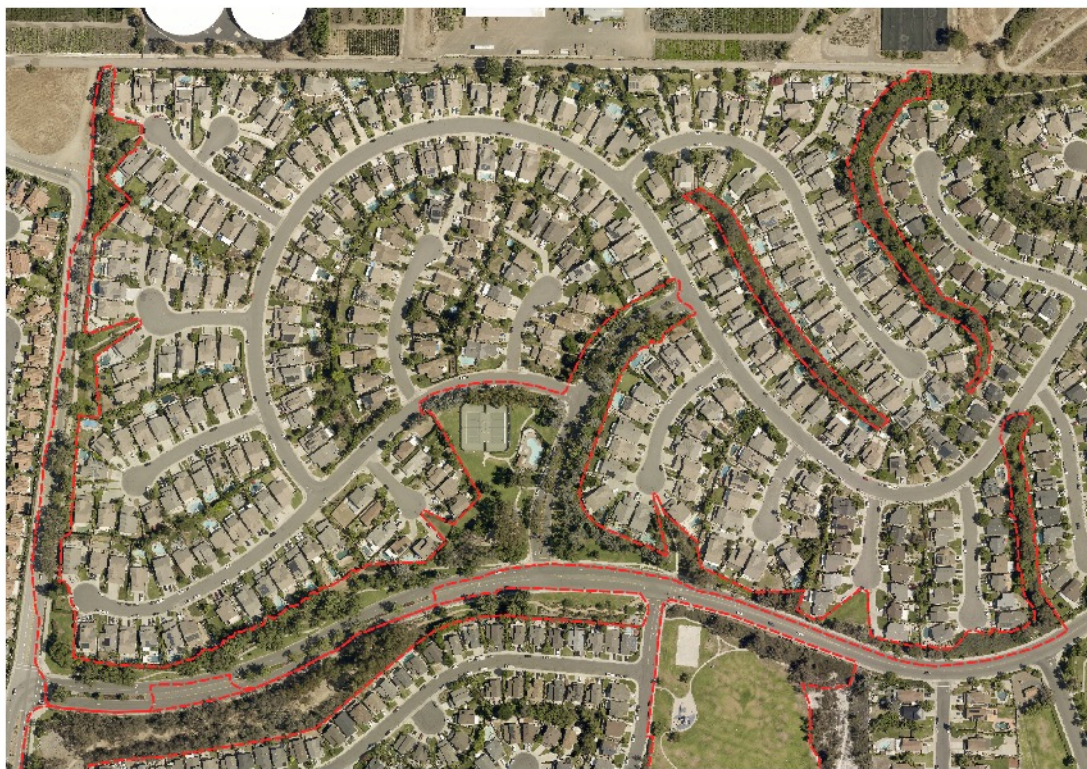
With such a large residential population and unique demographics

SUPPORT was needed to help understand how the current water use behaviors of our residential customers would comply with the new standards

DWR LAM Data
|
Real Consumption
|
CIMIS ET Data
|
Parcel Data
|
Demographics



CII DIM – Irrigated Premise Delineation and Mapping



Identifying where the DIMs are + **creating a boundary/premise** around the landscaped areas being irrigated by DIM(s)

Irrigated premises are delineated by grouping 1 or more contiguous parcels with the same owner that share 1 or more DIMs



Irrigated premise are extended beyond parcel boundaries to include all irrigated areas

HOA example shows a variety of irrigated landscape, interwoven throughout a residential area

In this example the irrigated area is served by only **ONE** DIM





Informed decisions with local knowledge needed in order to fully understand land use especially with SLA designation

The irrigated turf in this example does not have explicit evidence of recreation although next to tennis courts and a public pool

**Visible/detectable
recreational
evidence**





SLA Designation

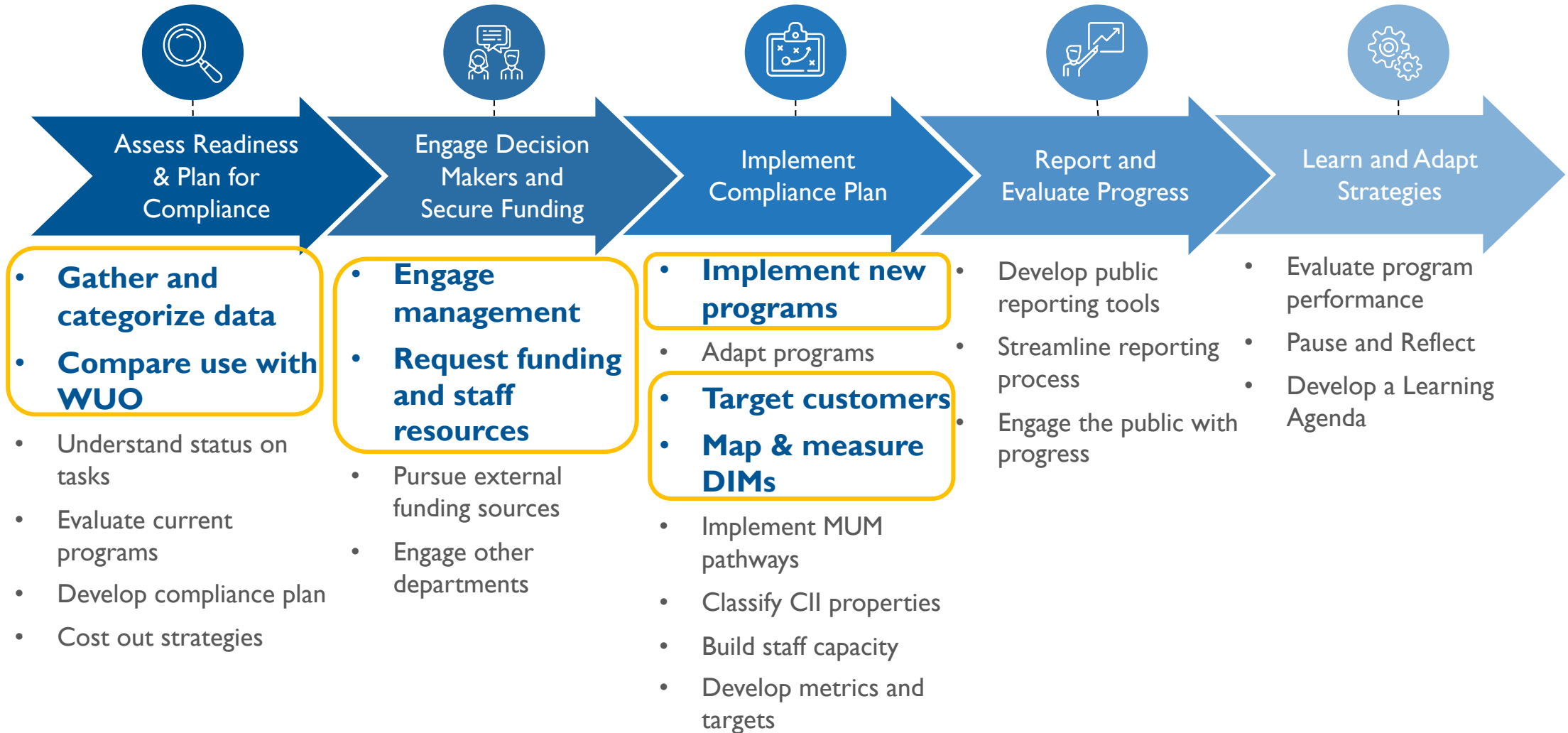


NEXT STEPS:

- Generate Water Budgets for Customers
- Conduct Outreach
- Work Side-by-Side with Customers
 - Educate Customers
 - Identify Opportunities
 - Develop Plans for Project Implementation and Funding
 - Gain Board Approval
 - Implement Projects and Obtain Incentives
- Report Results



TRABUCO CANYON WATER DISTRICT



POLL TIME!

Which standards component do you feel is the most challenging to comply with?

- Residential **GPCD** standard
- Residential outdoor standard
- **CII outdoor (DIM)** standard
- **Water loss** standard

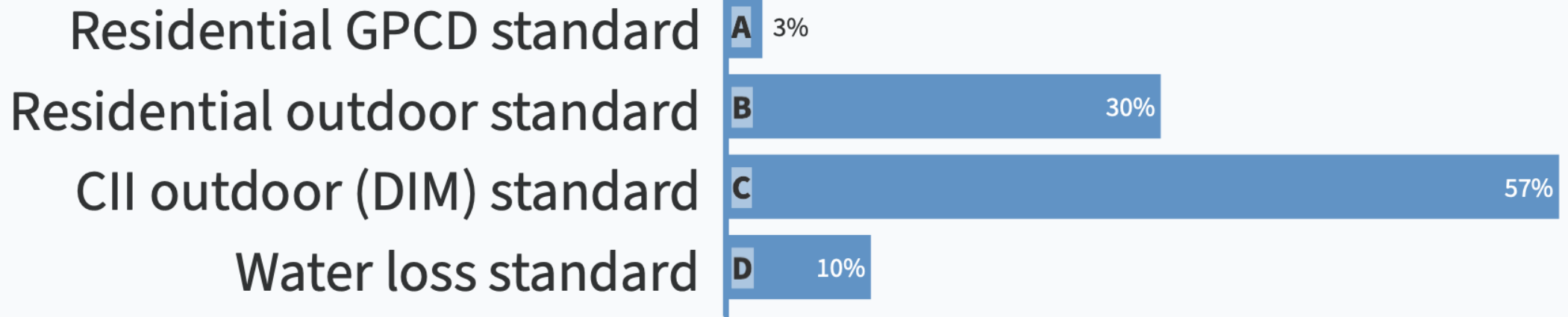




Respond at PollEv.com/calwep2314

Text **CALWEP2314** to **22333** once to join, then **A, B, C, or D**

Which standards component do you feel is the most challenging to comply with?



03

OPEN MIC



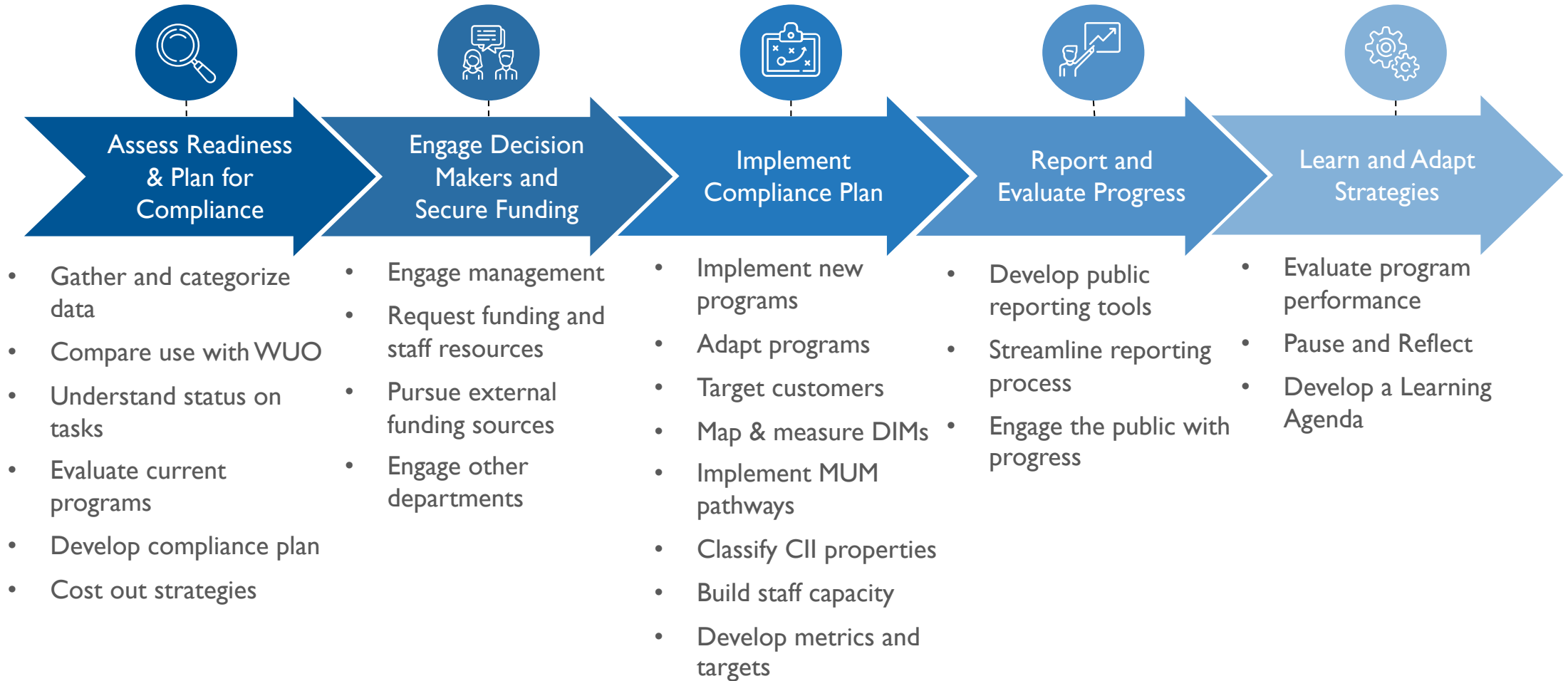
SHARE IN
THE CHAT

and/or



RAISE YOUR
HAND TO
SHARE

WHERE ARE YOU?



04

MODELS FOR SUPPORT
SYSTEMS

COMPARABLE PROGRAMS AND SUPPORT SYSTEMS



Multi-Benefit Land Repurposing Program

Statewide Support Entity delivers:

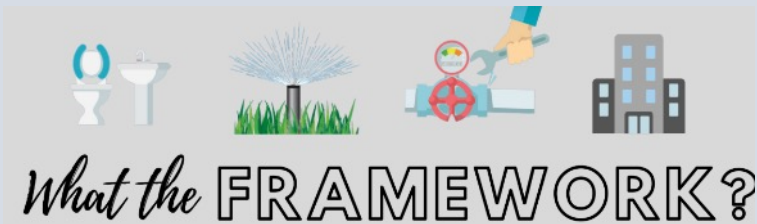
- **Reporting Support** - metric development, reporting tools
- **Peer Learning** - Learning Agendas, Communities of Practice, Local Capacity-building
- **Grantee Support** - Technical Assistance
- **Communications** - Awareness-building initiatives



Habitat Portfolio Management System

- **Methodology Sheets** developed to create clear, consistent definitions and standards for project data entered.
- **Detailed guidance for identifying project outcomes**, translating them to performance metrics, and capturing info a geospatial data format.

OPEN DISCUSSION



- What do California water agencies need from the state, CalWEP and other partners to successfully achieve compliance?
- What are the biggest barriers?
- What would help you move forward?

THANK YOU!

Megan Chery
Environmental Incentives
mchery@enviroincentives.com

Maureen Erbeznik
Maureen Erbeznik & Associates
merbeznik58@gmail.com

Joni German
San Diego County Water Authority
jgerman@sdcwa.org

Michael Perea
Trabuco Canyon Water District
MPerea@tcwd.ca.gov