



“A multicounty agency authorized to plan for and acquire supplemental water supplies, encourage water conservation and use of recycled water on a regional basis.”

*[BAWSCA Act, AB2058 (Papan-2002)]*

## **Water Supply Reliability Roundtable**

### **Workshop 5: Long-Term Reliable Water Supply Strategy 2050**

**June 17, 2024**

# Agenda

Introductions and Purpose

Strategy 2050 Goals and Objectives

Review and Discussion on Strategy Objectives

Next Steps

# Introduction & Purpose of Workshop Five

- Participants will learn:
  - What is Strategy 2050 and what will it seek to accomplish?
  - How has input from prior Roundtable workshops been incorporated in Strategy 2050 objectives?
- Participants will share:
  - Needs, concerns, and priorities related to Strategy 2050
  - Ideas for how Strategy 2050 can support the region
  - Related efforts to be considered in Strategy 2050 and other potential participants
  - Desired participation in Strategy 2050 development

## BAWSCA's Reliable Water Supply Strategy (Strategy) 2015



- Six-year, multi-phase regional effort that needs updating
  - BAWSCA region's water demands have changed
  - Reliability of existing water supplies is in question
  - Potential for BAWSCA's future independent participation in other agencies' water supply projects

# Strategy 2050 Goals and Objectives

## **BAWSCA's Goal**

Ensure that a reliable, high-quality supply of water is available at a fair price.

## **Strategy 2050 Draft Purpose**

To identify the water supply management needs and opportunities for the BAWSCA region and establish a framework to collectively support water reliability and resilience.



# Strategy 2050 Objectives

1

Provide a comprehensive picture of the region's supply and demand management needs and options.

2

Establish a framework for collectively maintaining and improving regional water supply reliability and resilience.

3

Elevate awareness of and support the region's interests in new and emerging regulations that impact water supply and demand management.

4

Expand regional dialogue and collaboration to collectively address common needs.

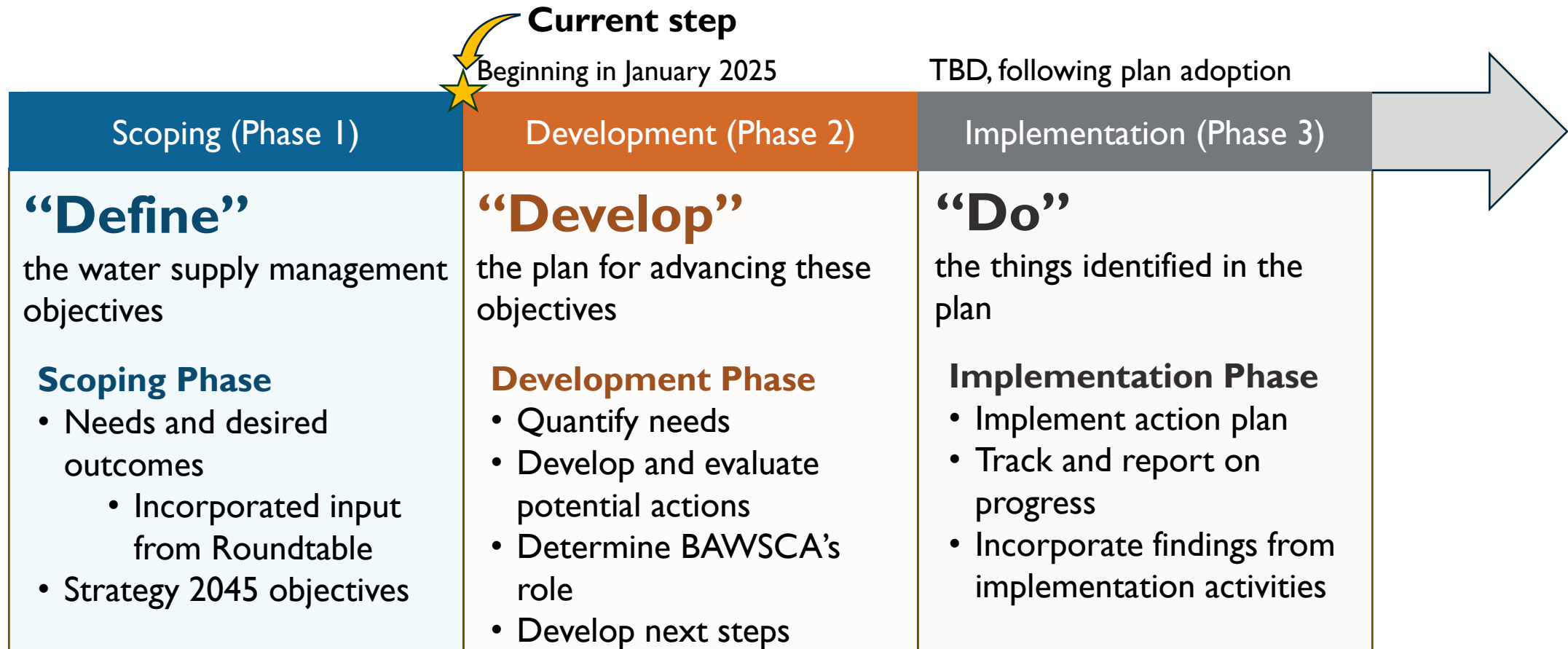
5

Close the gap on funding needed for water supply resilience and reliability.

6

Support availability of affordable water supplies and demand management strategies to all customers.

# Strategy 2050 Development Process



# Participant Poll – Which Strategy 2050 Objective Are You Excited Further Explore?

1

Provide a comprehensive picture of the region's supply and demand management needs and options.

2

Establish a framework for collectively maintaining and improving regional water supply reliability and resilience.

3

Elevate awareness of and support the region's interests in new and emerging regulations that impact water supply and demand management.

4

Expand regional dialogue and collaboration to collectively address common needs.

5

Close the gap on funding needed for water supply resilience and reliability.

6

Support availability of affordable water supplies and demand management strategies to all customers.



# Strategy 2050 Objectives

1

**Provide a comprehensive picture of the region's supply and demand management needs and options.**

2

Establish a framework for collectively maintaining and improving regional water supply reliability and resilience.

3

Elevate awareness of and support the region's interests in new and emerging regulations that impact water supply and demand management.

4

Expand regional dialogue and collaboration to collectively address common needs.

5

Close the gap on funding needed for water supply resilience and reliability.

6

Support availability of affordable water supplies and demand management strategies to all customers.

# Providing Comprehensive Picture of Region's Supply and Demand Management Needs and Options

## Regional Needs

- Variability among BAWSCA Agencies in availability of recent water supply plans or system master plans.
- Limited understanding of groundwater characterization and lack of comprehensive groundwater monitoring.
- Limited studies on the technical feasibility and economics of alternative supply options.
- Limited understanding of climate change and other stressors on future water supplies.

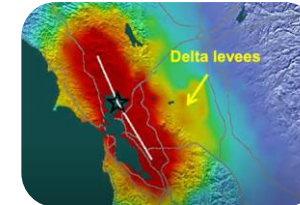
# Providing Comprehensive Picture of Region's Supply and Demand Management Needs and Options

## Strategy 2050 – Evaluate Supply and Demand Management Reliability

- Conduct risk assessment
  - Identify and quantify effects of stressors on water supply reliability
- Project water demand and supply for BAWSCA Agencies,
  - Support 2025 Urban Water Management Plans (UWMPs)
- Assess emergency frameworks
  - Evaluate existing planning and response frameworks and provide recommendations
  - Assess regional emergency resilience programs used by others and identify opportunities to incorporate best practices



Drought



Earthquake



Wildfire



Sea Level Rise



Others?

# Strategy 2050 Objectives

1

Provide a comprehensive picture of the region's supply and demand management needs and options.

2

**Establish a framework for collectively maintaining and improving regional water supply reliability and resilience.**

3

Elevate awareness of and support the region's interests in new and emerging regulations that impact water supply and demand management.

4

Expand regional dialogue and collaboration to collectively address common needs.

5

Close the gap on funding needed for water supply resilience and reliability.

6

Support availability of affordable water supplies and demand management strategies to all customers.

# Establishing Framework for Collectively Maintaining and Improving Water Supply Reliability and Resilience

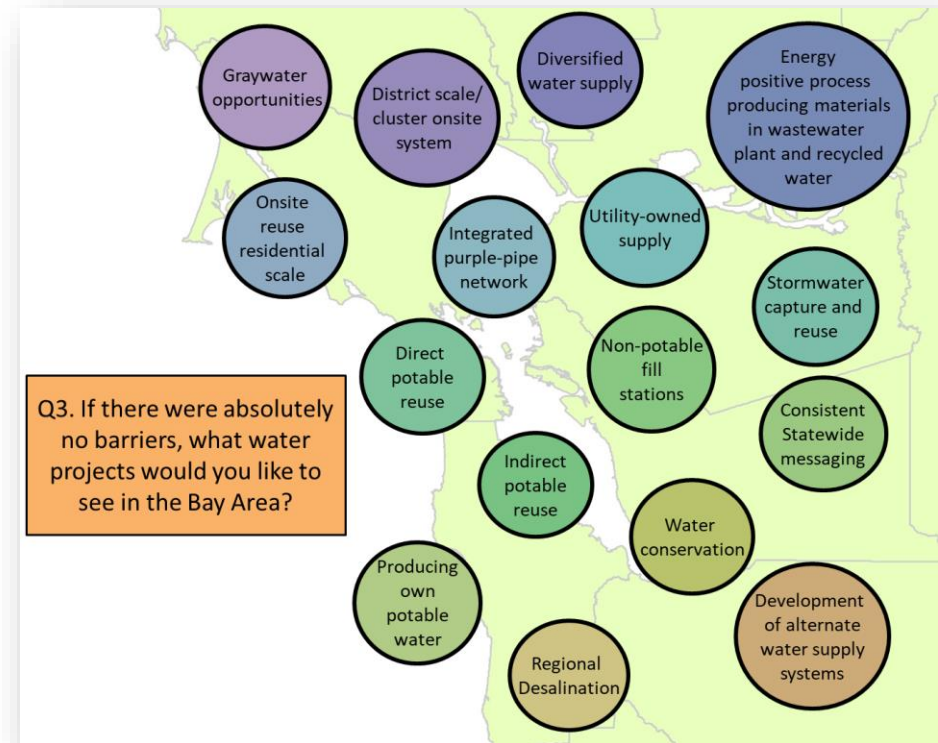
## Regional Needs

- Impacts of climate change and other stressors (e.g., changes in precipitation, extended droughts) on future water supplies and resilience.
- Potential impacts of the Bay-Delta Water Quality Control Plan.
- Potential supply shortages in future dry year scenarios.
  - San Francisco Public Utilities Commission (SFPUC) anticipates a shortfall ranging from 92 million gallons per day (MGD) to 122 MGD in future dry year scenarios.
  - Supply shortfall for BAWSCA Agencies in current and future dry years ranges from 6% to 53%.

# Establishing Framework for Collectively Maintaining and Improving Water Supply Reliability and Resilience

## Strategy 2050 – Evaluate Existing Projects/ Identify New Regional Opportunities

- Establish project database architecture
- Refine existing project concepts
- Develop additional water supply and demand management project concepts
- Develop project portfolios
  - Develop comparative metrics
  - Evaluate project portfolios and assess reliability benefits
- Provide individual reliability planning services
- Evaluate Regional Groundwater Model
  - Develop workplan for updates and recalibration
  - Evaluate spatial and temporal trends in constituents of concern



*Strategy 2050 will build upon project opportunities identified through Roundtable series*



# Strategy 2050 Objectives

1

Provide a comprehensive picture of the region's supply and demand management needs and options.

2

Establish a framework for collectively maintaining and improving regional water supply reliability and resilience.

3

Elevate awareness of and support the region's interests in new and emerging regulations that impact water supply and demand management.

4

Expand regional dialogue and collaboration to collectively address common needs.

5

Close the gap on funding needed for water supply resilience and reliability.

6

Support availability of affordable water supplies and demand management strategies to all customers.

# Elevating Awareness and Supporting Region's Interest in New and Emerging Regulations

## Regional Needs

- Bay-Delta Water Quality Control Plan could lead to potential water supply shortfalls (if implemented as adopted).
- Extensive permitting and environmental requirements affect project implementation (e.g., indirect/direct potable reuse, stormwater recharge, desalination, water transfers).
- Lack of regulatory or governance authority in low priority basins.
- Emerging and/or increasingly stringent regulations for direct potable reuse, water conservation, and groundwater standards.
- Agencies working individually to address upcoming water quality regulatory hurdles (e.g., arsenic and hexavalent chromium, per- and poly-fluoroalkyl substances [PFAs], and other constituents of emerging concern).

# Elevating Awareness and Supporting Region's Interest in New and Emerging Regulations

## Strategy 2050 – Assess Regulatory Setting & Collaboration Opportunities

- Identify regulatory setting
  - Identify current/anticipated near-term and mid-term regulations
  - Summarize requirements, status, potential risks and opportunities, and current actions
- Assess framework for future regulatory collaboration
  - Assess other regional entities' frameworks for regulatory collaboration and advocacy
  - Explore applicability to BAWSCA
  - Identify opportunities for future regional regulatory collaboration & implementation

Water use efficiency requirements

Water quality

Environmental flow requirements

Potable reuse regulations

Reporting requirements

Water rights requirements

Other similar regulations with direct water management impacts

# Poll: Which Emerging Regulations Are of Greatest Interest To You?

---

# Discussion Questions

- How is your organization engaging in the development of, or preparing, emerging regulations?
- What opportunities may exist to expand regulatory collaboration throughout the region?

# Strategy 2050 Objectives

1

Provide a comprehensive picture of the region's supply and demand management needs and options.

2

Establish a framework for collectively maintaining and improving regional water supply reliability and resilience.

3

Elevate awareness of and support the region's interests in new and emerging regulations that impact water supply and demand management.

4

Expand regional dialogue and collaboration to collectively address common needs.

5

**Close the gap on funding needed for water supply resilience and reliability.**

6

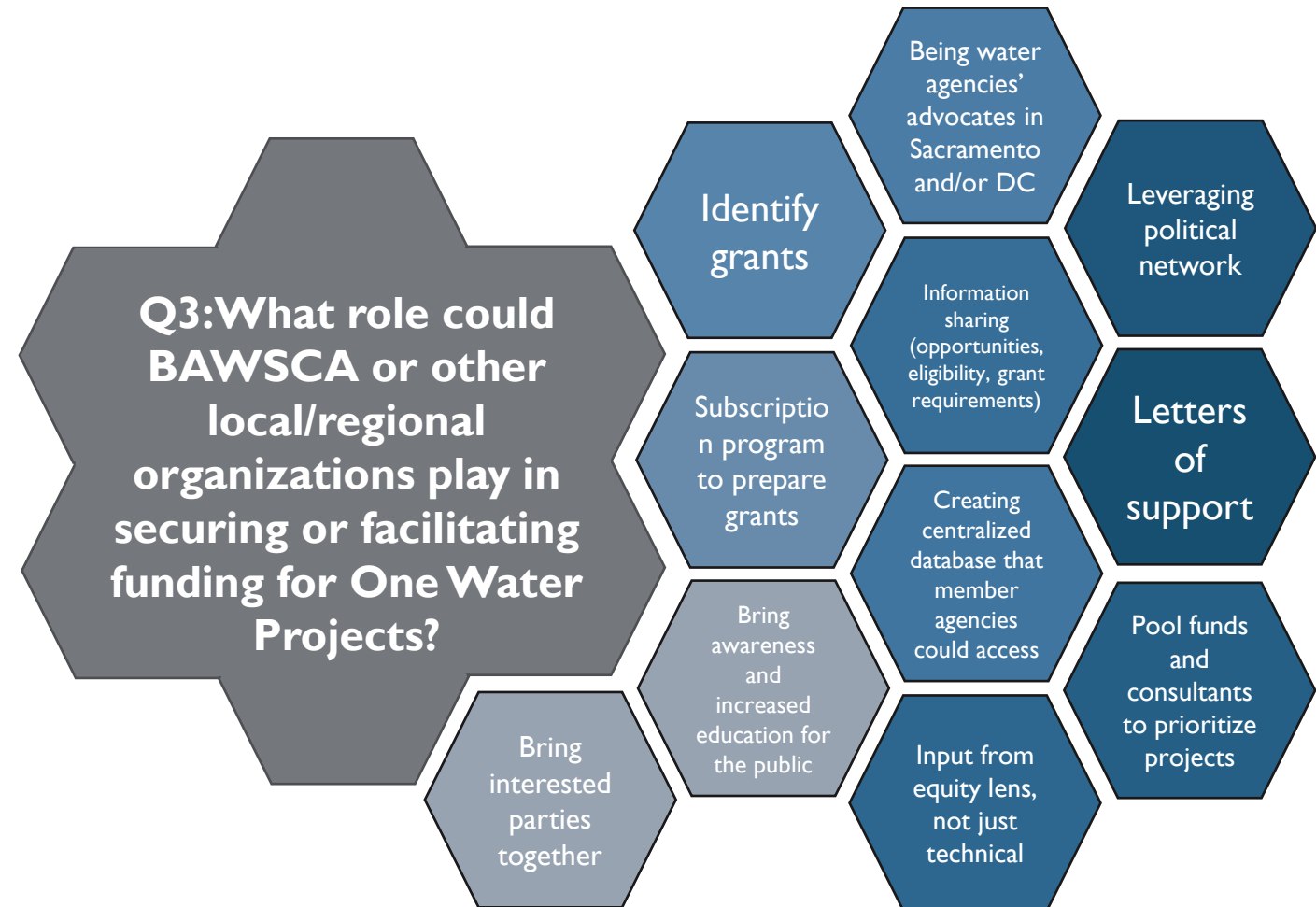
Support availability of affordable water supplies and demand management strategies to all customers.




# Closing the Gap on Funding Needed for Water Supply Resilience and Reliability

## Regional Needs


- Limited funding for:
  - Water supply projects (e.g., desalination and potable reuse) that tend to be more expensive than imported supplies.
  - Project operations and management.
  - Studies and monitoring
- Limited ability to compete for external funding due to:
  - Lack of economies of scale at the individual agency level.
  - Lack of individual agency resources to identify/ pursue funding opportunities.
  - Lack of individual agency resources comply with administration and reporting requirements.



# Tracking Funding Opportunities




## EKI Grants Tracking Tool



\* Hover over the table to see more details.

Program	Website
2022 Urban Community Drought Relief Program	<a href="https://water.ca.gov/Water_Basins/Drought/Drought_Funding/Urban_Drought_Grant">https://water.ca.gov/Water_Basins/Drought/Drought_Funding/Urban_Drought_Grant</a>
Addressing Climate Impacts	<a href="https://wildlife.ca.gov/Conservation/Watersheds/Restoration_Grants/Concept_Application">https://wildlife.ca.gov/Conservation/Watersheds/Restoration_Grants/Concept_Application</a>
Applied Science Grants	<a href="https://www.wabr.gov/water/infocapabilities/index.html">https://www.wabr.gov/water/infocapabilities/index.html</a>
Candidate Species Conservation Fund	<a href="https://www.grants.gov/web/grants/new_opportunity.html?oppid=345058">https://www.grants.gov/web/grants/new_opportunity.html?oppid=345058</a>
Cannabis Restoration Grant Program	<a href="https://wildlife.ca.gov/Conservation/Watersheds/Cannabis_Restoration_Grant">https://wildlife.ca.gov/Conservation/Watersheds/Cannabis_Restoration_Grant</a>
Clean Water State Revolving Fund (CWSRF) Program	<a href="https://www.waterboards.ca.gov/water_issues/programs/grants_loans/cf">https://www.waterboards.ca.gov/water_issues/programs/grants_loans/cf</a>
Cleanup and Abatement Urgent Drinking Water Needs	<a href="https://www.waterboards.ca.gov/water_issues/programs/grants_loans/caa/cleanup_and_abatement.html">https://www.waterboards.ca.gov/water_issues/programs/grants_loans/caa/cleanup_and_abatement.html</a>

### Timeline for grant applications



Funding Agency: CA Dept of P., CA Strategic ..., CDFA, CNRA, DOC, DOI PWS, DWR, ERA, BANK, Reclamation, State Water B., USDA Rural ...

### Applied and Pending-Results:

Program	Status
Multibenefit Land Repurposing Program (MLRP)	Awarded
Sustainable Groundwater Management Grant Program's SGMA Implementation Round 2	Not Awarded

Number of Upcoming Grants

# 7

# Strategy 2050 “Subscription” Funding Support Services

**EKI Solicitation Tracking Tool**

Number of Grants: 140

Number of Upcoming Grants: 22

**BUREAU OF RECLAMATION**

Notice of Funding Opportunity No. R24A50052

**WaterSMART Grants:  
Water and Energy Efficiency Grants  
for Fiscal Year 2024 and Fiscal Year 2025**

**Grant Project Management Dashboard**

Category	Budget	Amount This Invoice	Amount Remaining
Category (a): Component Administration	\$293,000	\$4,074.94	\$288,925.06
Category (b): Environmental/Engineering/Design	\$525,742	\$57,210.29	\$468,531.71
Category (c): Implementation/Construction	\$2,372,402	\$0	\$2,372,402.00
Category (d): Monitoring/Assessment	\$21,000	\$0	\$21,000.00
Category (e): Engagement/Outreach	\$10,515	\$0	\$10,515.00
<b>Total</b>	<b>\$3,222,909</b>	<b>\$61,285.23</b>	<b>\$3,161,623.76</b>

## 1. Grant Tracking

- Match available funding opportunities to your priorities
- Tailored view to the agency needs with robust filter options

## 2. Application Support

- Review Grant guidelines and requirements
- Coordinate with agency and project sponsor
- Prepare comprehensive grant materials and coordinate submittal

## 3. Grant Administration

- Grant agreement coordination and manage documents
- Reporting, invoice packages, and progress reports
- Budget and deliverable tracking

# Discussion Questions

- What funding challenges is your organization facing?
- How can Strategy 2050 help to close the gap on funding needed for water supply resilience and reliability?

# Strategy 2050 Objectives

1

Provide a comprehensive picture of the region's supply and demand management needs and options.

2

Establish a framework for collectively maintaining and improving regional water supply reliability and resilience.

3

Elevate awareness of and support the region's interests in new and emerging regulations that impact water supply and demand management.

4

Expand regional dialogue and collaboration to collectively address common needs.

5

Close the gap on funding needed for water supply resilience and reliability.

6

**Support availability of affordable water supplies and demand management strategies to all customers.**

# Supporting Availability of Affordable Water Supplies and Demand Management Strategies to All Customers

## Regional Needs

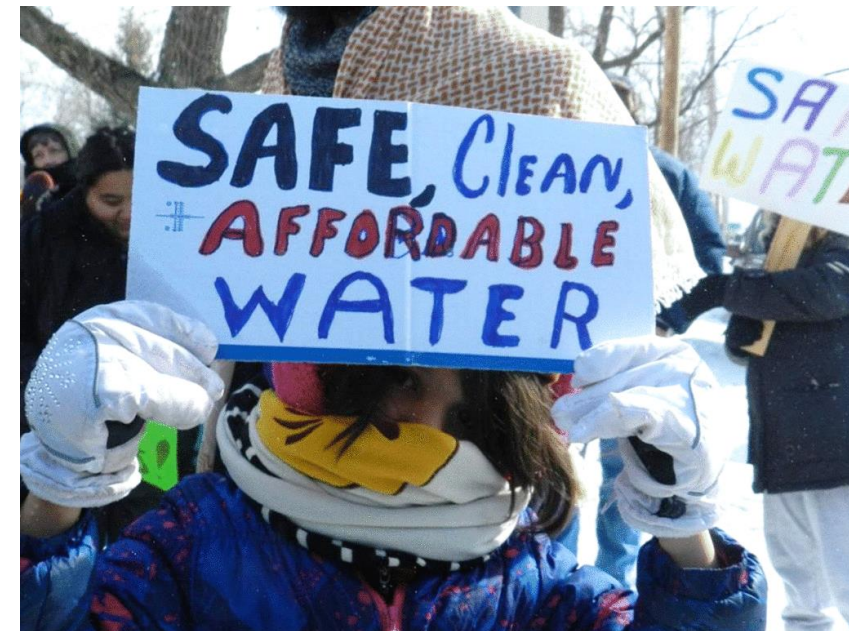
- Ensuring customer affordability, particularly for alternative water supplies that may require expensive new capital infrastructure and development of operational capacity to integrate new supplies.
- Limited opportunities for economies of scale during project implementation for small agencies.
- Identification of entities responsible for funding projects with multiple benefits and stakeholder collaboration.



# Supporting Availability of Affordable Water Supplies and Demand Management Strategies to All Customers

## Strategy 2050 – Document Affordability Challenges and Opportunities

- Evaluate affordability
  - Review State and regional findings and efforts related to affordability
  - Identify affordability challenges
- Assess affordability programs
  - Research and evaluate existing rate assistance programs
  - Develop recommendations on potential programs and/or models



# Discussion Questions

- What challenges related to water affordability are your communities facing?
- What other efforts related to customer affordability could inform Strategy 2050 (e.g., work completed or in progress by your organization or others)?
- How can Strategy 2050 help to support affordable water supplies and demand management strategies?

# Expanding Regional Dialogue and Collaboration to Collectively Address Common Needs

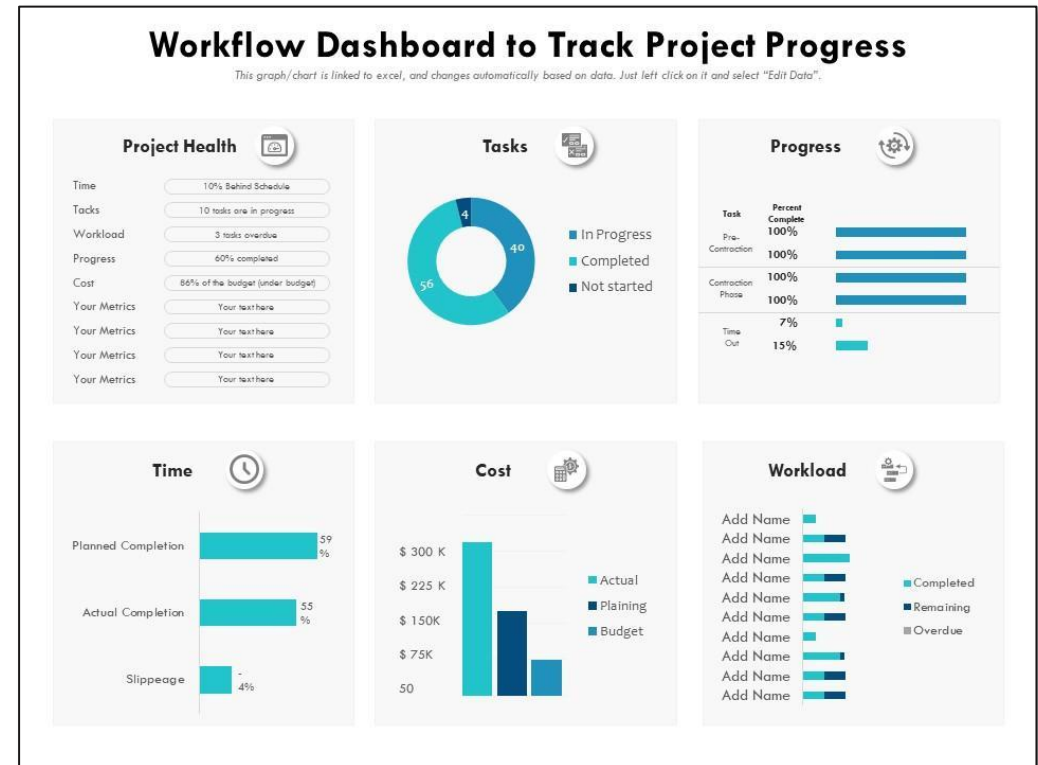
## Regional Needs

- Interagency collaboration and knowledge sharing could lead to potential cost savings and efficiencies (e.g., 85% of BAWSCA agencies are projected to fully implement AMI by 2035 but regional collaboration on project planning and implementation is limited).
- Emerging and/or increasingly stringent regulations, currently being addressed in silos at the individual agency level.
- Limited understanding of system interconnections and associated capabilities hinders the use of interconnections during emergencies.
- Community disengagement and reluctance to embrace alternative supply solutions and public acceptance of potable reuse.

# Expanding Regional Dialogue and Collaboration to Collectively Address Common Needs

## Strategy 2050 – Develop Strategy 2050 & Track and Report 2050 Implementation

- Facilitate stakeholder engagement in Strategy 2050 development
- Enable ongoing coordination, information sharing, and process tracking
  - Tools to facilitate effective communication with decision-makers and advocate for the region
  - Dashboard to track progress on Strategy 2050 objectives
  - Develop Decision Support Tool (DST)
  - Develop action plan and annual progress reports



# Poll: In What Aspects of Strategy 2050 Development Are You Most Interested in Engaging?

---

# Poll: Who Else Should BAWSCA Seek to Engage in Strategy 2050 Development?

---



# Closing Remarks and Next Steps

## Strategy 2050

Engagement Opportunities to begin in early 2025

## Next Roundtable Workshop

Future Topic Ideas?