

An aerial photograph of a large concrete dam situated in a deep, rugged canyon. The canyon walls are composed of layered, reddish-brown rock. A river flows through the canyon, and the dam is positioned across it. The sky is clear and blue. The text is overlaid on the image.

SRP 2035 Sustainability Goals

Advisory Group Meeting #1

October 13, 2023

Welcome

Bobby Olsen

**Associate General Manager & Chief Planning, Strategy,
and Sustainability Executive**

Safety & Sustainability Minute

Safety & Sustainability Minute



Cooler weather affects tire pressure



Be safe on the road & have your tires checked



Proper air pressure is also good for the environment

Welcome Board and Council Observers



Chris Dobson
SRP District Vice President



Robert Arnett
SRP Board Member



Mario Herrera
SRP Board Member



Nick Brown
SRP Board Member



Mark Mulligan
SRP Council Member



Rocky Shelton
SRP Council Member

2035 Sustainability Goals Roadmap



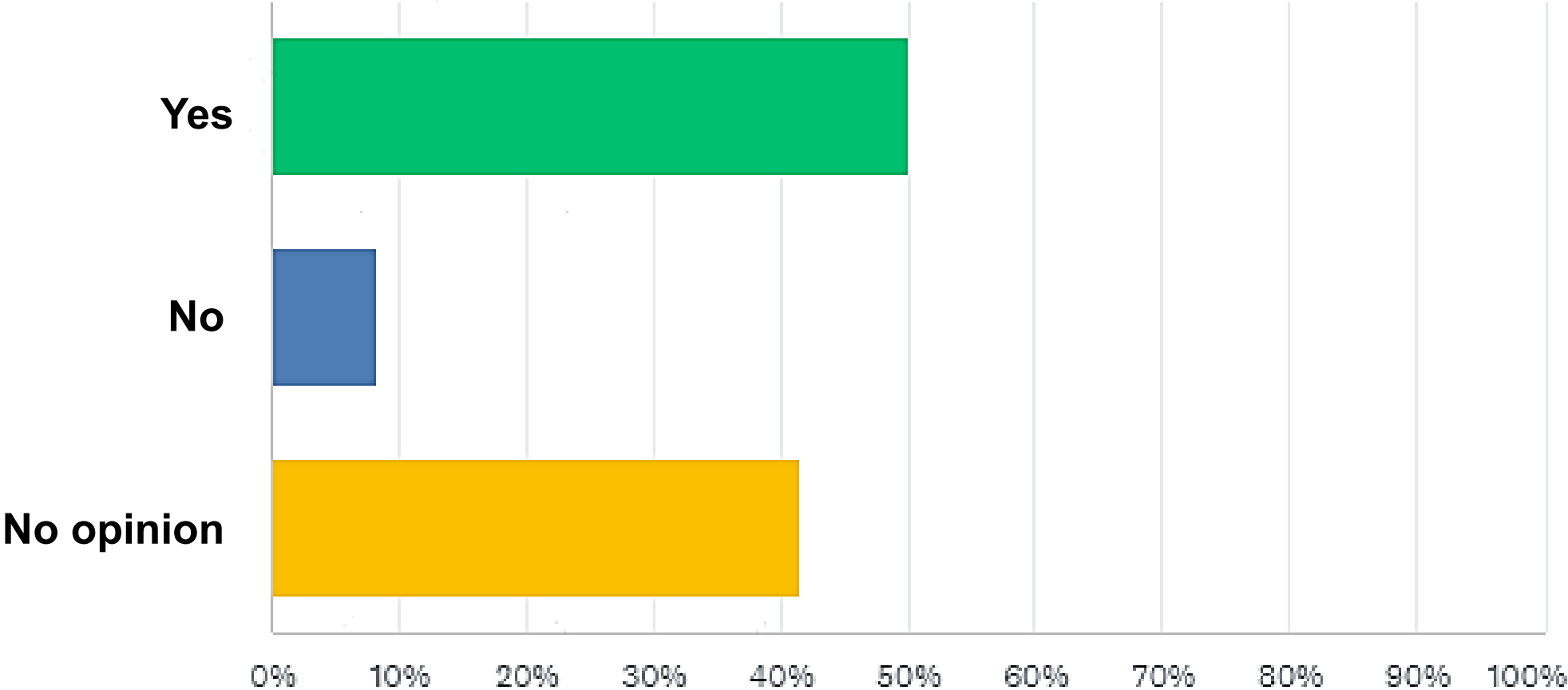
SRP 2035 Sustainability Goal Survey Results

Top 10

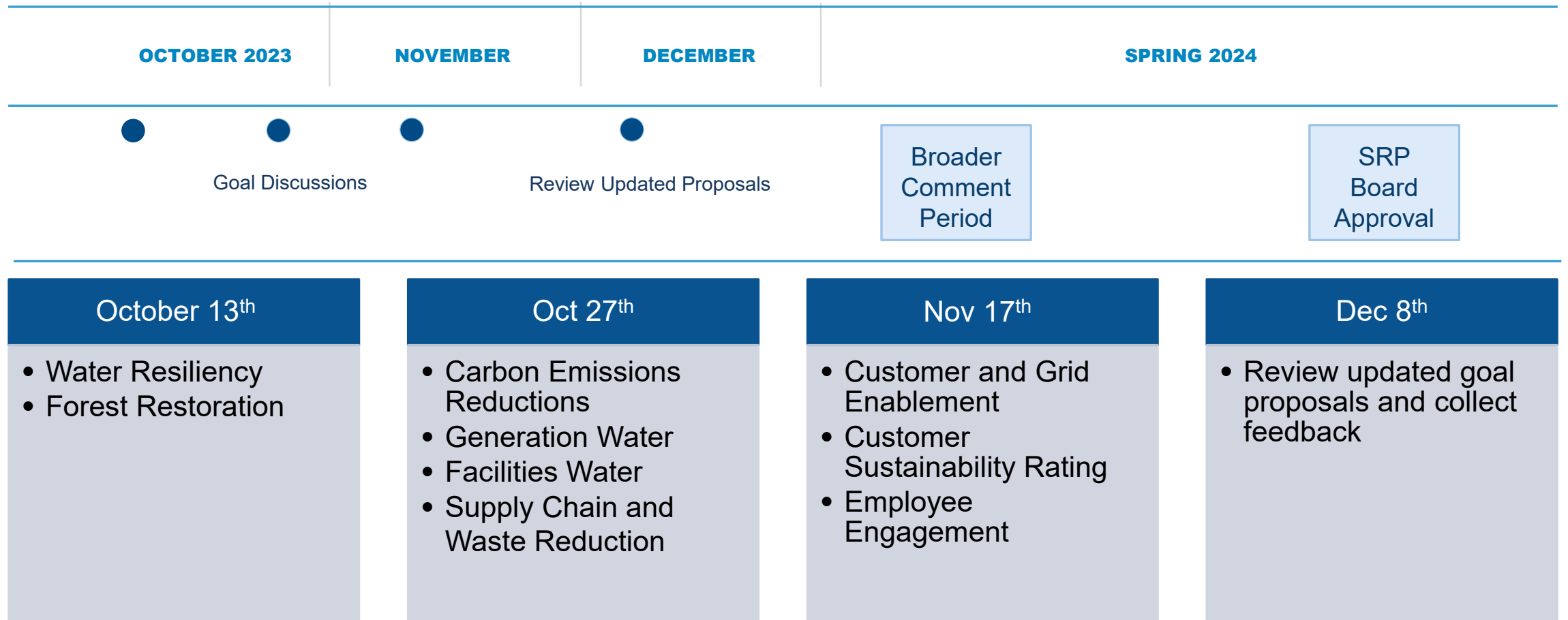
1. 1.1 Generation Carbon
2. 4.1 Energy Efficiency
3. 4.4 Electric Technologies
4. 4.3 Electric Transportation
5. 4.2 Demand Response
6. 4.5 Grid Enablement
7. 2.4 Generation Water
8. 1.3 Fleet Emissions
9. 1.2 Facilities Emissions
10. 2.3 Generation Groundwater



Should SRP consider restructuring goals?



2035 Sustainability Advisory Group Engagement Schedule



October 13th Agenda

Time	Topics
8:00–8:30	Gather breakfast
8:30–8:45	Welcome
8:45–9:20	Advisory Group Introduction and Aspirations
9:20–9:50	Context Setting
9:50–10:00	Break
10:00–12:00	Water Resiliency Goals
12:00–1:15	Working Lunch, Water Resiliency Goals and Forest Restoration Goal
1:15–1:30	Wrap-up and Next Steps

Welcome Our Facilitator



Kim Hartmann, Ed.D.
KCH Solutions LLC

Meeting Objective

Inform



*Sustainability Goal
Progress, New Context
& Lessons Learned*

Listen



Q & A

Refine



*Sustainability Goal
Recommendations to
the SRP Board*

Meeting Protocol

- Be present
- Active engagement
- Inclusive
- Respectful
- Open and curious
- Chatham House Rule



Advisory Group



City of Phoenix



Customer Utility Panel



Context Setting

Tom Cooper

Senior Director, Future System Assets and Strategy

Break

SRP 2035 Goal Owner Discussion Framework

1. Level-set

2. Discuss

3. Update

4. Pulse Survey

Water Resiliency

Where does SRP water come from?

- 150 miles from the forest floor to your door
- 8.3M acres of watershed in the forests
- 7 lakes in the SRP system that act as reservoirs
- 4 dams on the Salt River generate 230 megawatts of power when demand is high – enough to power 172,000 homes.
- 2 dams on the Verde River
- Water delivered throughout the Valley using 131 miles of canals



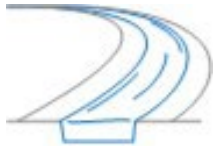
2.2 Lost & Unaccounted For Water

Michael Mendonca

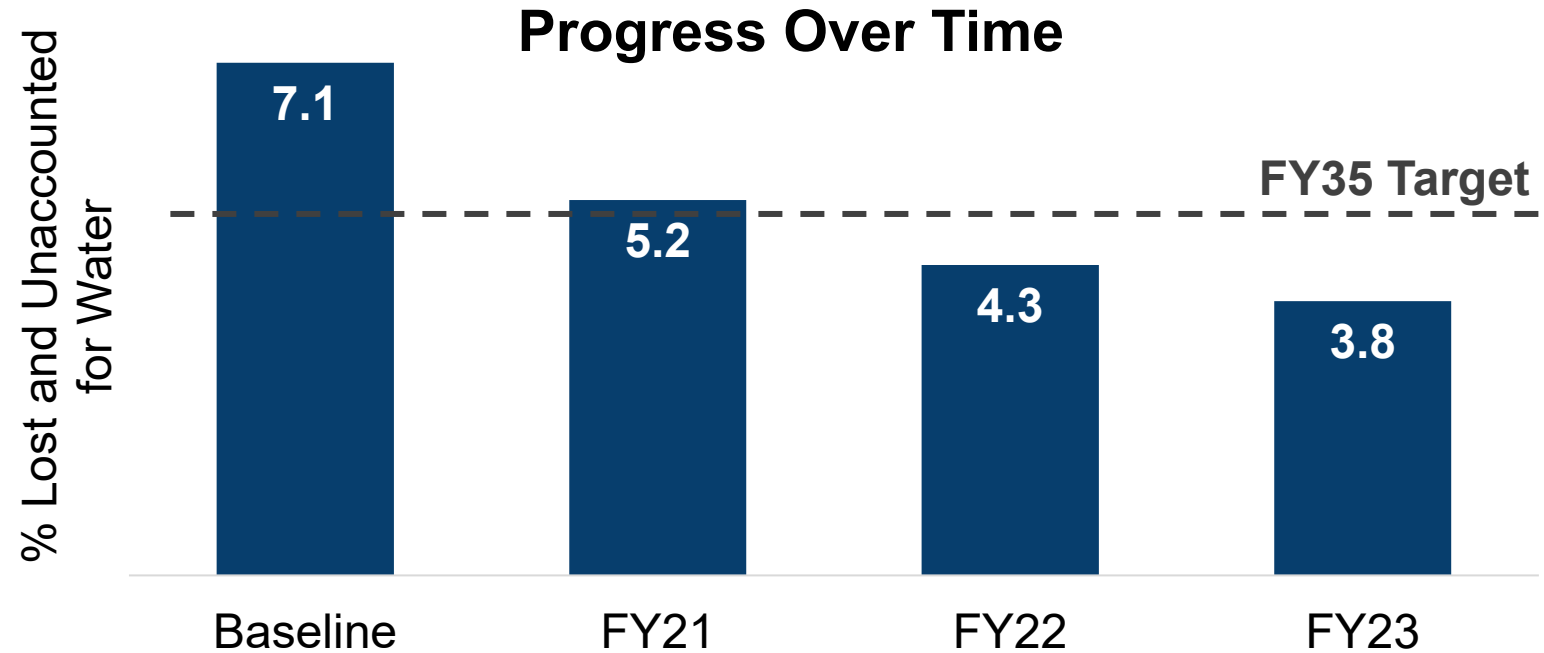
Senior Director, Water Strategic Services

Where have we been?

2.2 Lost & Unaccounted For Water



Achieve a lost and unaccounted for rate of less than 5% on a 10-year rolling average.



What has changed and what have we learned?

- Lining canals
- Improved water measurement
- Improved headgate efficiency
- Underground inspection technology
- Scheduling efficiency



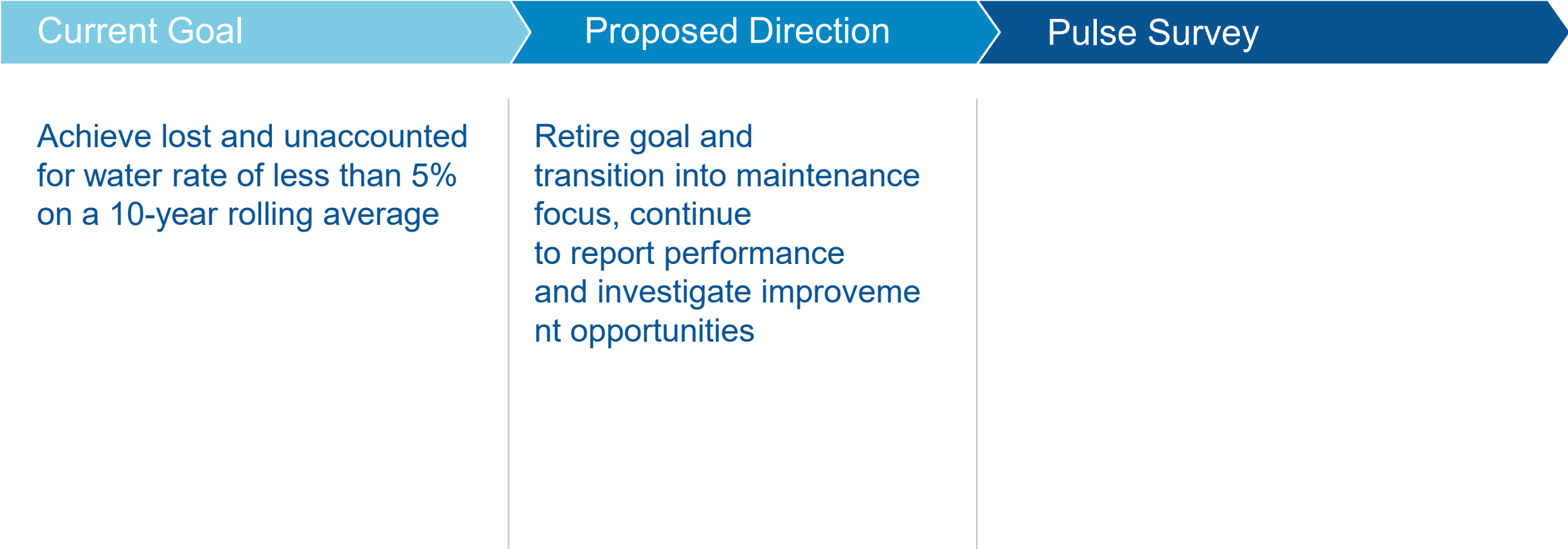
How do we move forward together?

Current Goal: Achieve lost and unaccounted for water rate of less than 5% on a 10-year rolling

Proposed Direction:

Retire goal and transition into maintenance focus, continuing to report performance and investigate improvement opportunities

Goal 2.2 Lost and Unaccounted for Water



2.3 Generation Groundwater

Michael Mendonca

Senior Director, Water Strategic Services

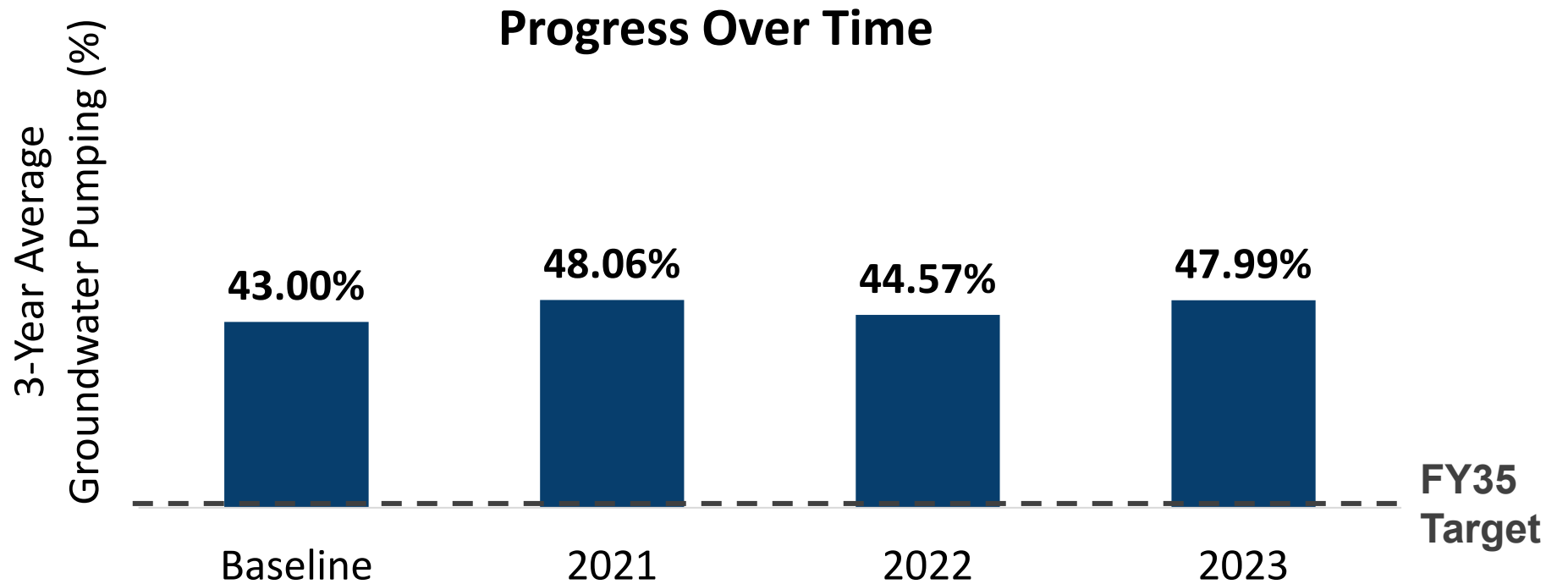


Where have we been?

2.3 Generation Groundwater



Eliminate or offset power generation groundwater use in Active Management Areas (AMAs)



What has changed and what have we learned?

Challenges:

- Resource Integration
- Hot Summers
- Variability



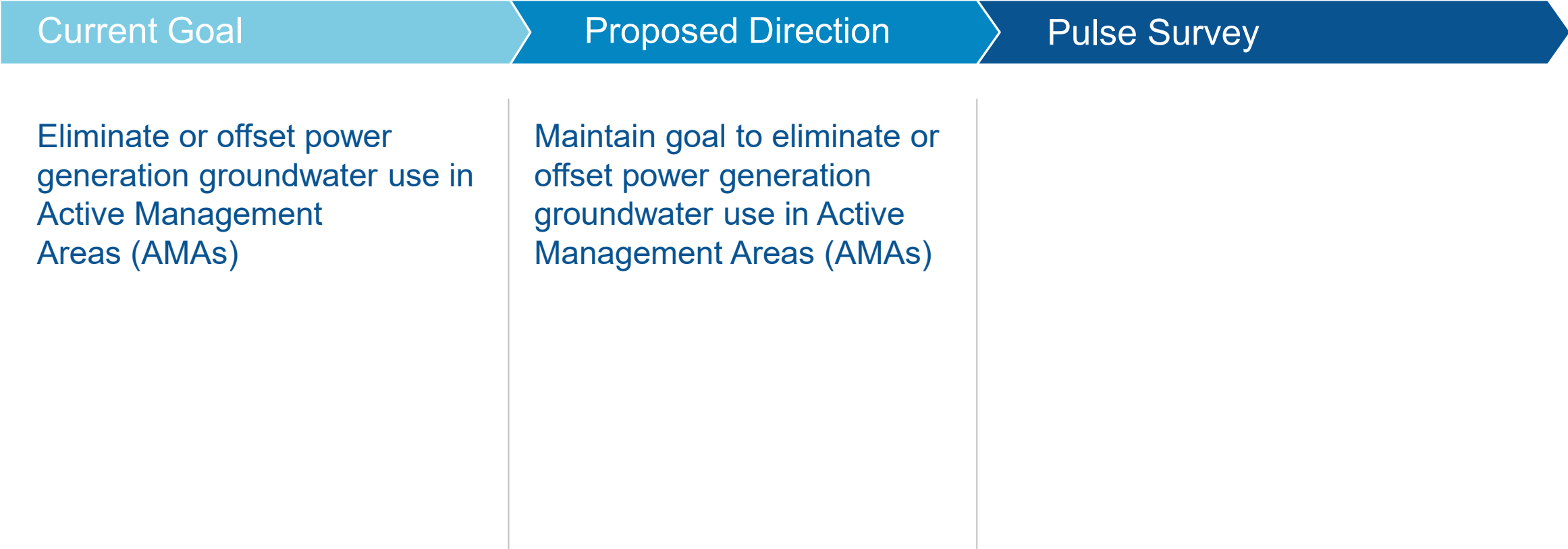
How do we move forward together?

Current Goal: Eliminate or offset power generation groundwater use in Active Management Areas (AMAs)

Proposed Direction: No changes

Maintain goal to eliminate or offset power generation groundwater use in Active Management Areas (AMAs)

Goal 2.3 Generation Use in AMAs



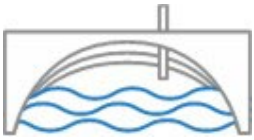
2.5 Water Storage

Michael Mendonca

Senior Director, Water Strategic Services

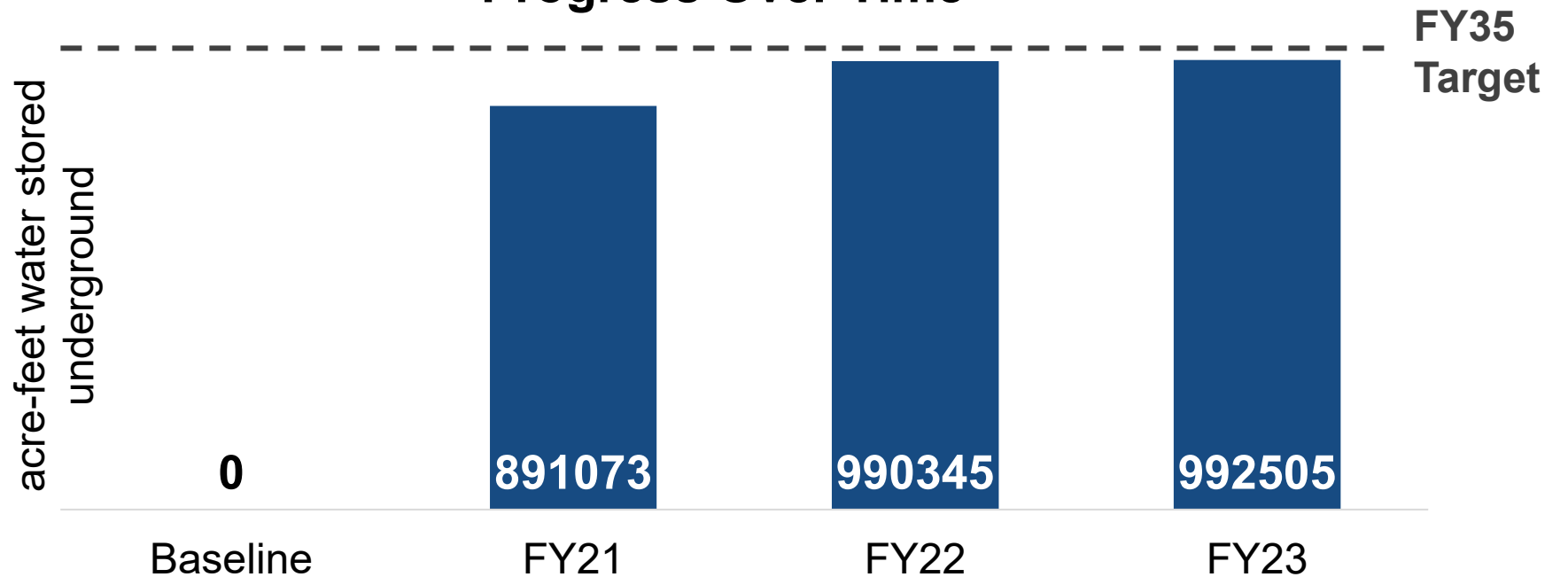
Where have we been?

2.5 Water Storage



Store 1 million acre-feet of water supplies underground

Progress Over Time



What has changed and what have we learned?

First-ever shortage declaration on Colorado River

Supplies previously used to meet goal now being conserved in Lake Mead

Collaboration with Army Corps of Engineers has resulted in potential additional supplies for meeting goal



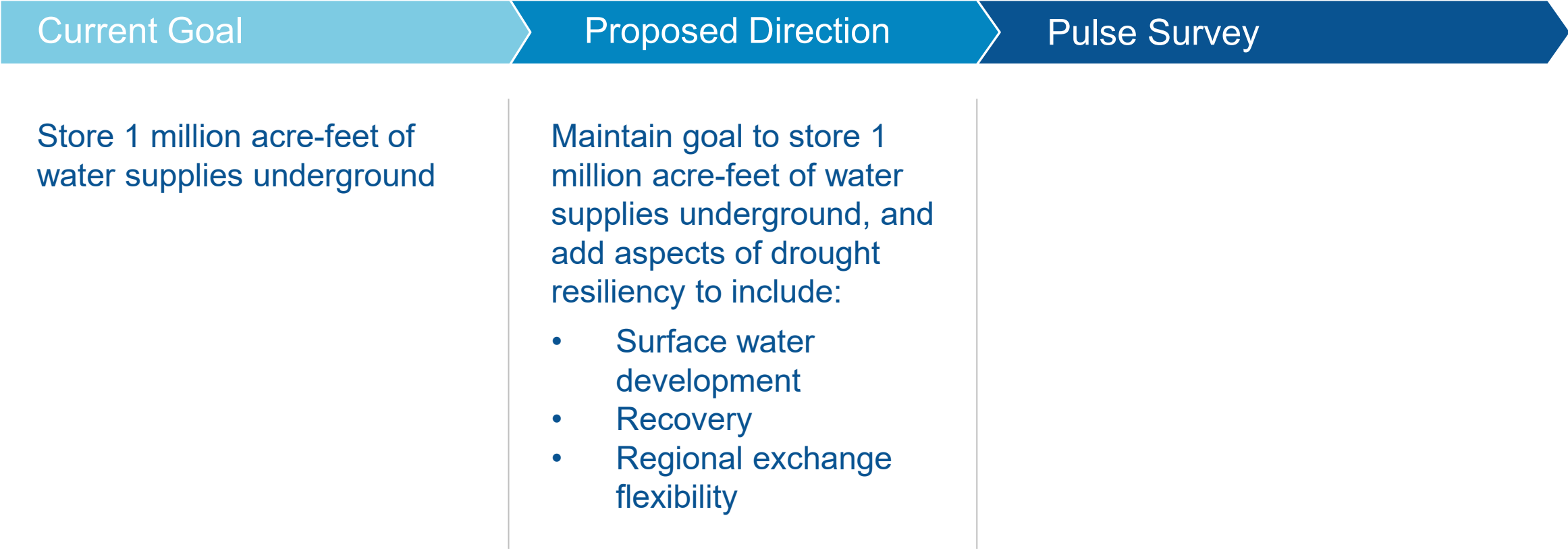
How do we move forward together?

Current Goal: Store 1 million acre-feet of water supplies underground

Proposed Direction: Maintain goal to store 1 million acre-feet of water supplies underground, and add aspects of drought resiliency to include:

- Surface water development
- Recovery
- Regional exchange flexibility

Goal 2.5 Storage Underground



Lunch

2.6 Water Conservation

Elvy Barton

Manager, Water and Forest Sustainability

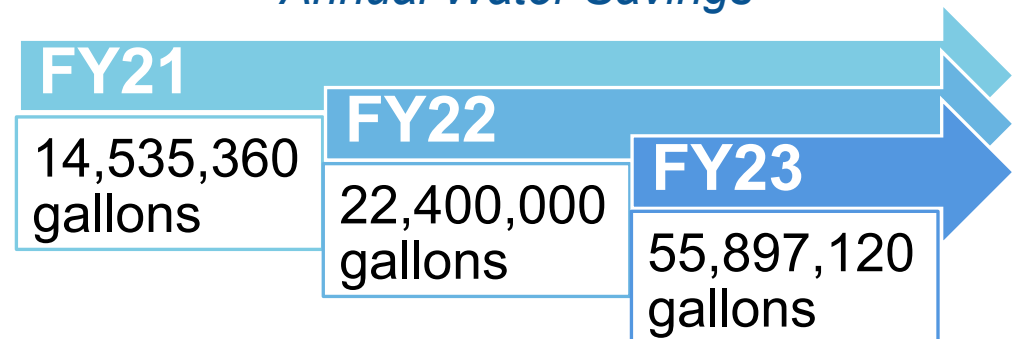
Where Have We Been?

- In 2019, Board approved goal of 5 billion gallons
- Progress achieved through:
 - SRP Water Conservation Expos
 - Smart Irrigation Controller Pilot Program with Town of Gilbert
- Upcoming reportable water savings programs:
 - Waterfluence (water-use monitoring software)
 - Commercial, Industrial, & Institutional water efficiency assessments

SRP Water Conservation Expo



Annual Water Savings



What Has Changed and What Have We Learned?

Pandemic and Drought Effects



- Adapted Water Expo to meet pandemic policies
- Increased drought awareness

New Partnership Programs



- Establishing new collaborative programs
- Collaborative process takes up to a year

Data Collection Timelines

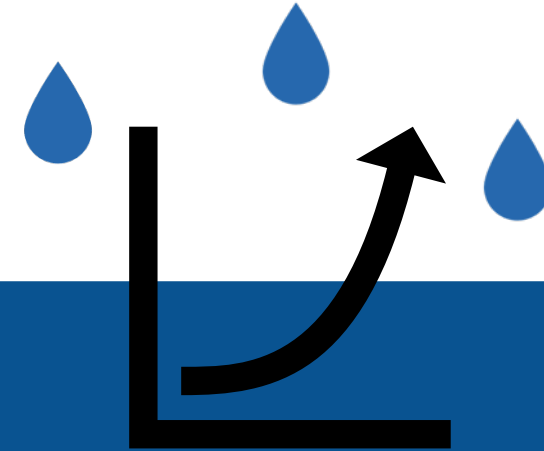


- At least one year of data must be collected to confirm reportable water savings
- Receiving data is the last of many steps in a collaborative process with municipalities

How Do We Move Forward Together?

- New initiatives will build momentum and goal progress
 - Water Conservation Goal Database Development
 - Commercial & HOA water efficiency assessments
 - Waterfluence program expansion

Current Goal: In partnership with Valley cities, support municipal water conservation goal achievements by creating and executing programs to identify 5 billion gallons (~15,300 af) of potential water conservation by 2035.

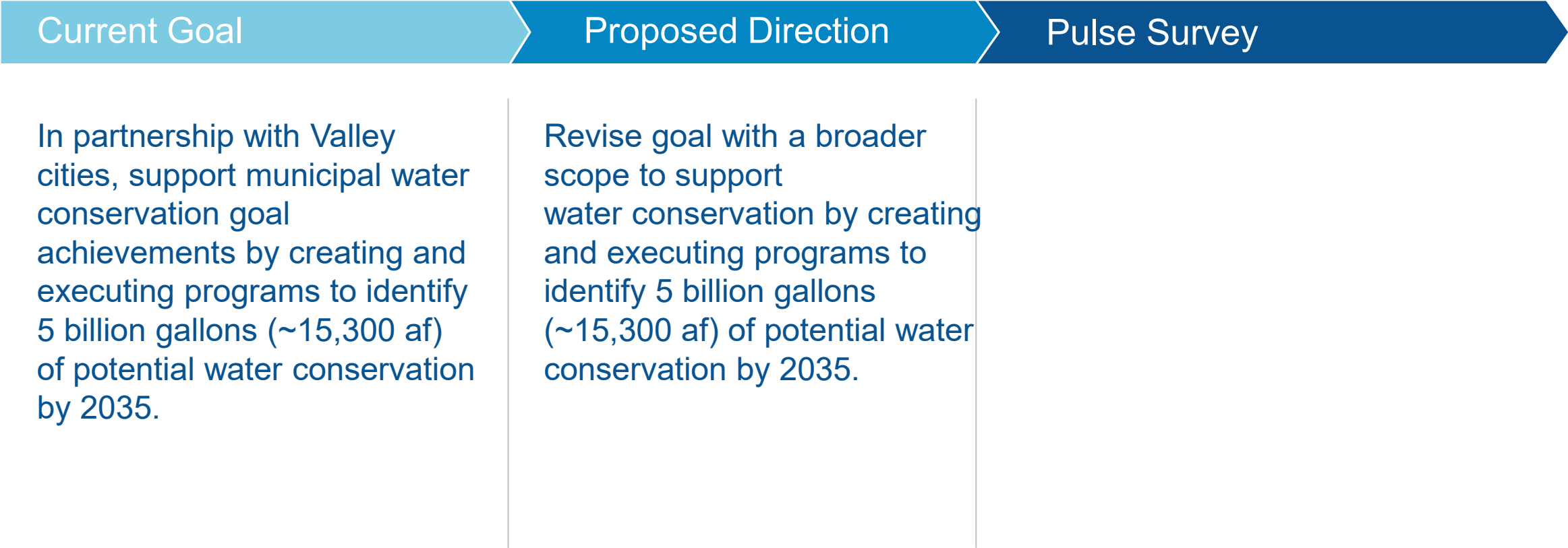


Proposed Direction

To achieve five billion gallons by 2035, we would like to:

- Expand the geographical scope of the goal to include organizations across SRP watersheds and communities we impact
- Broaden the definition of water conservation to include conservation easements, watershed health improvements, irrigation improvements and agricultural system improvements

Goal 2.6 Support Municipal Water Conservation



5.3 Forest Restoration

Elvy Barton

Manager, Water and Forest Sustainability

Where Have We Been?

Four Forest Restoration Initiative (4FRI)

- Landscape-scale restoration collaborative
- Four Forests: Kaibab, Coconino, Tonto, Apache-Sitgreaves
- Goal to thin 50,000 acres/ year
- Acres thinned average: 12,000 – 14,000 acres/ year

SRP Goal

- Board approved goal in 2019
- 50,000 acres/ year or 500,000 acres by 2035
- Aligned to 4FRI goal
- Focused on pine mechanical thinning
- Slight increases in acres/ year



What Have We Learned and What Has Changed?

SRP Wildfire Risk

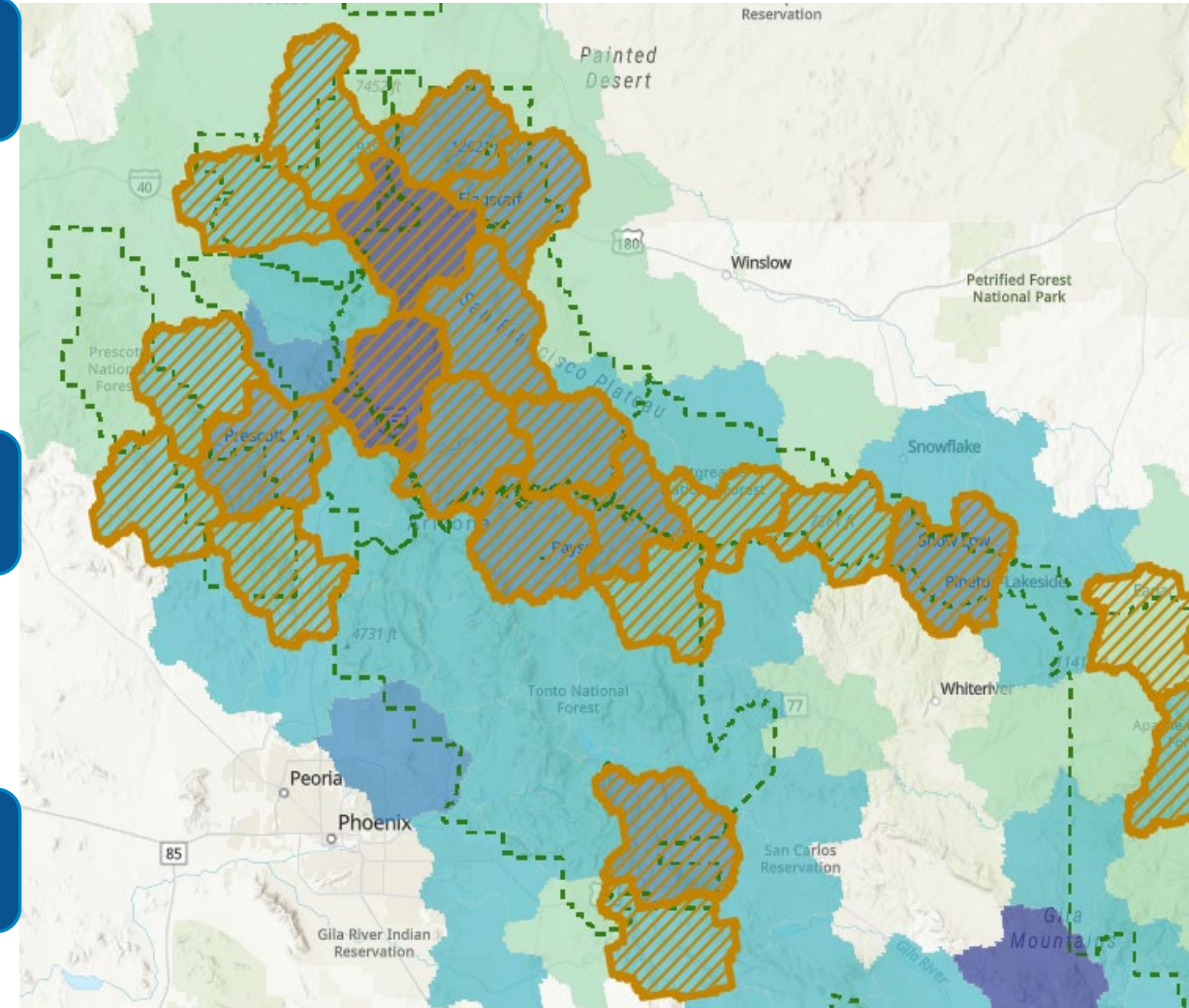
- High risk fire sheds
- Majority of SRP projects are woodland mastication (non-commercial thinning)
 - Not counted in 50,000 acres 4FRI Goal

Forest Restoration Funding

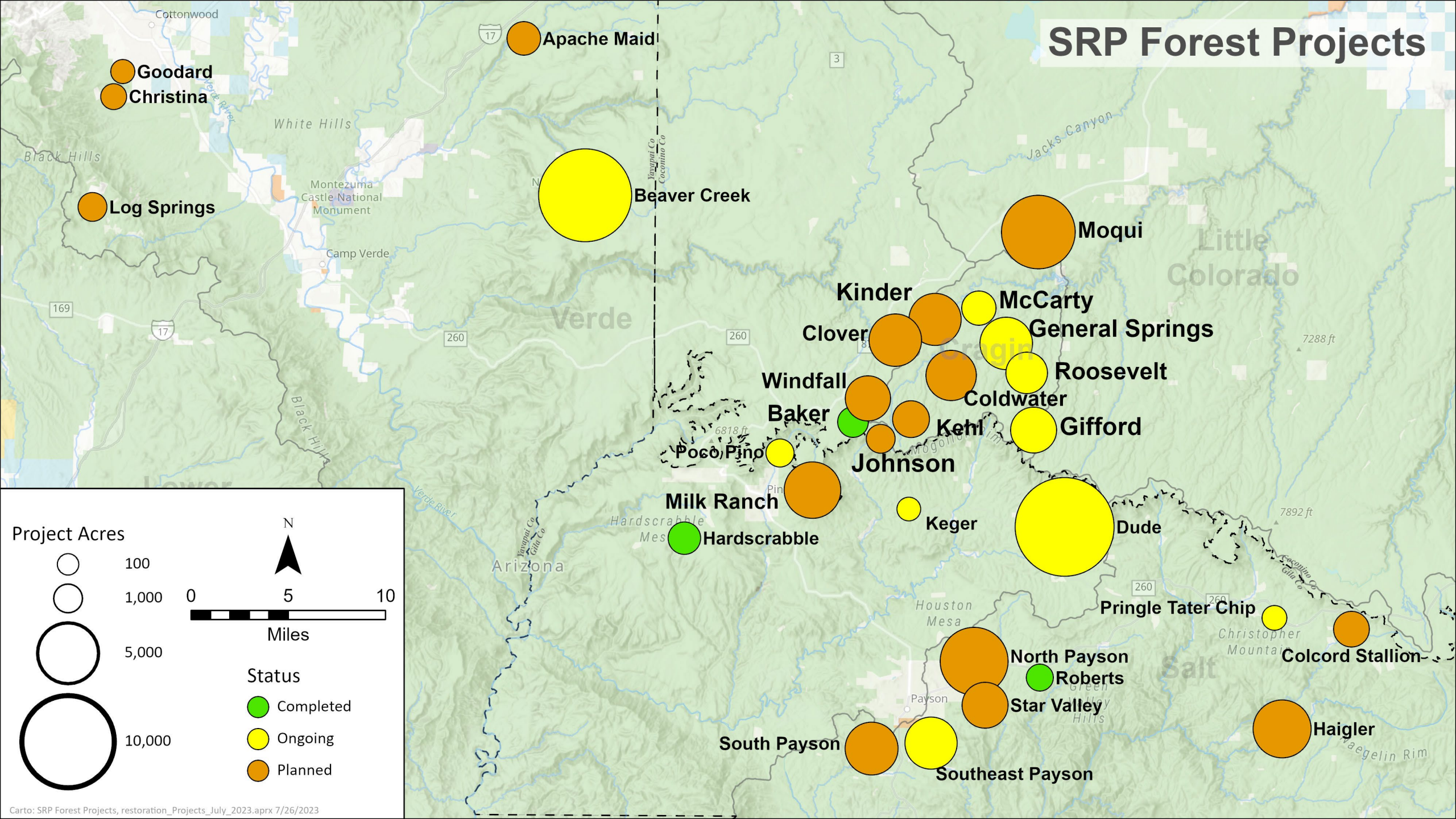
- Bipartisan Infrastructure and Inflation Reduction Act
- SRP and partner funding

Forest Product Industry

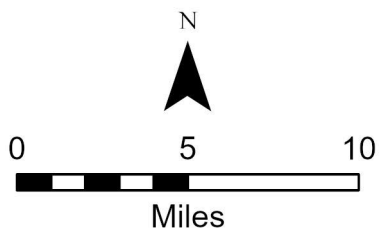
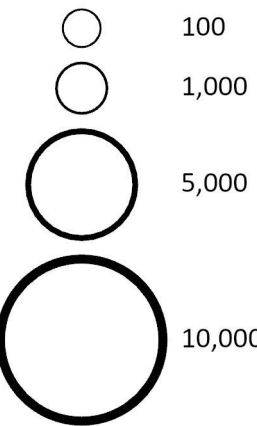
- Lack of capacity and markets



SRP Forest Projects



Project Acres



Status



Looking Forward

Proposed Direction

- Increase goal to 800,000 acres by 2035
 - Includes 4FRI pine thinning and non-commercial thinning, Prescott National Forest acres, Tribal partnership acres
- Expand scope to include non-commercial thinning acres
 - Recalculate progress to include non-commercial thinning
- Remove annual goal of 50,000 acres/ year

Current Goal: Increase SRP's leadership role in forest restoration treatments through partnerships, influence, education and support for industry to thin 50,000 acres by year or 500,000 acres total.



Goal 5.3 Forest Restoration



Closing Poll

Thank you!

Save the Date!

2035 SUSTAINABILITY ADVISORY GROUP

Meeting #2

Carbon Emissions Reductions,
Generation Water, Facilities Water,
Supply Chain & Waste Reductions

27

OCT
2023