



Water Supply Master Plan 2050

Santa Clara Valley Water Commission, January 28, 2026

Needs and Purpose of WSMP

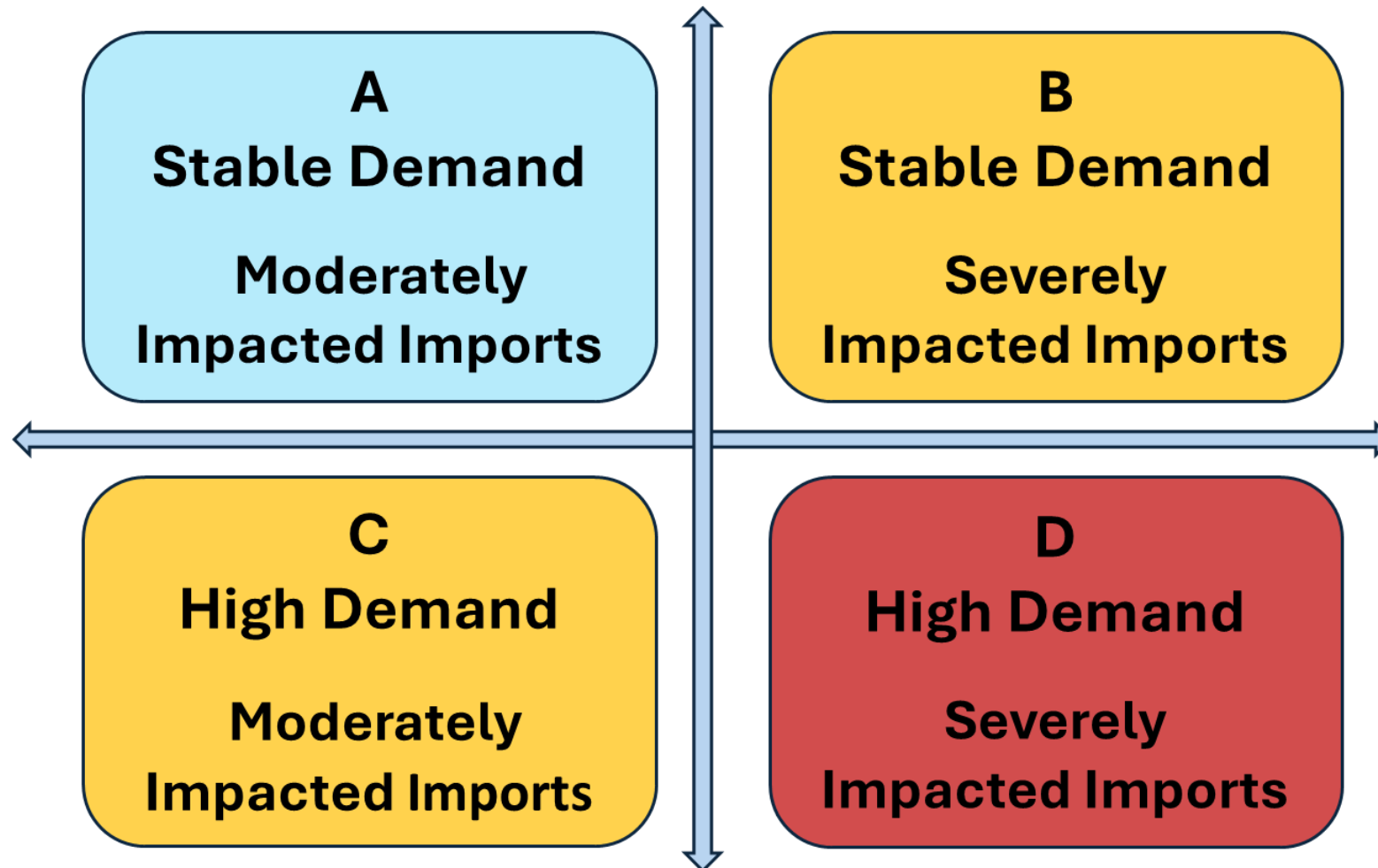
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- Guiding document for long-term water supply investments
- Address challenges and identify strategies to maintain reliable water supply system
- Adapt to changing conditions

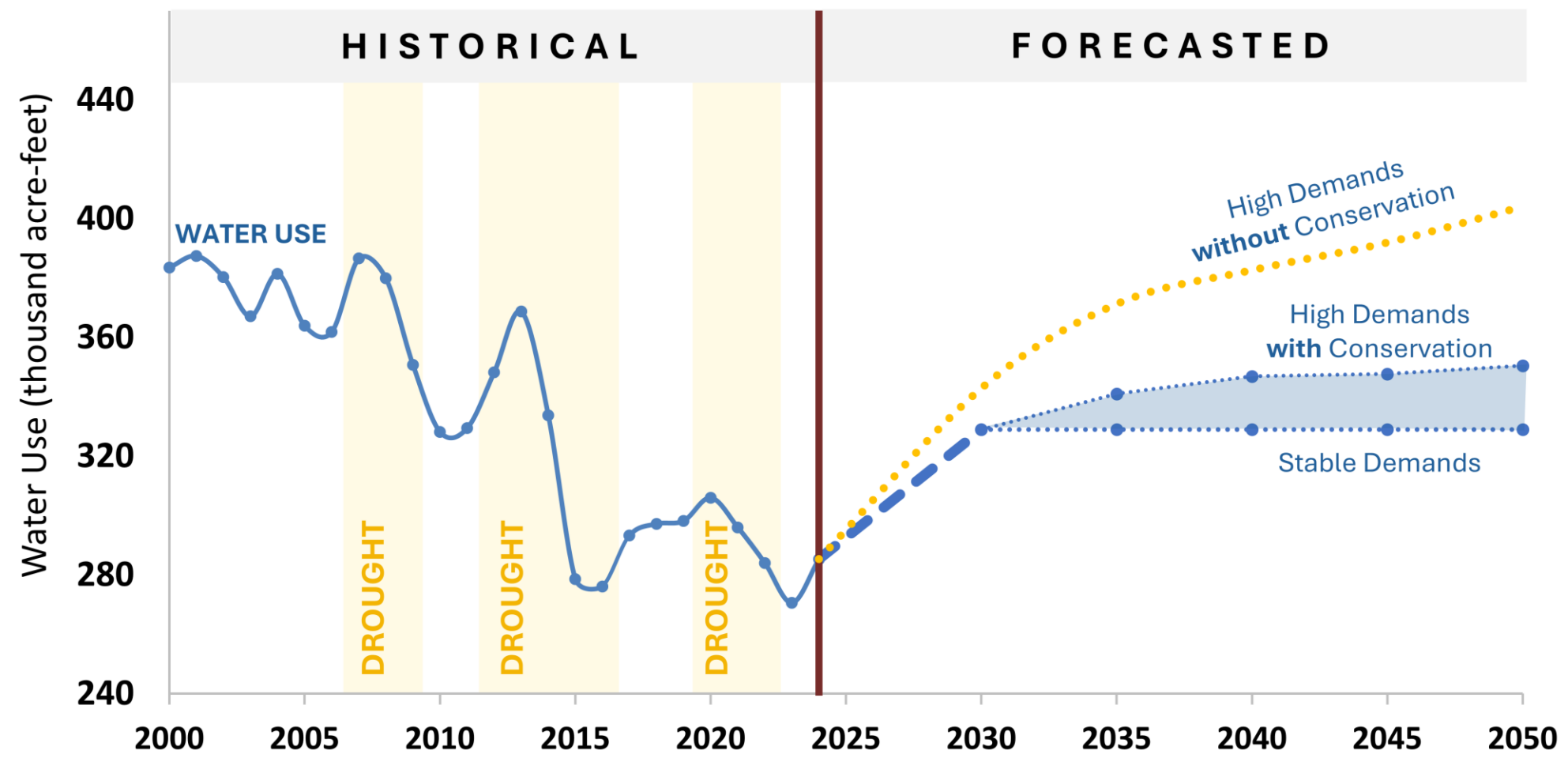


Planning for Multiple Future Conditions

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Historical and Forecasted Demand



Demand modeling integrates historic water use trends, housing and economic growth, climate change, and post-drought water use rebound.

Imported Water Supply

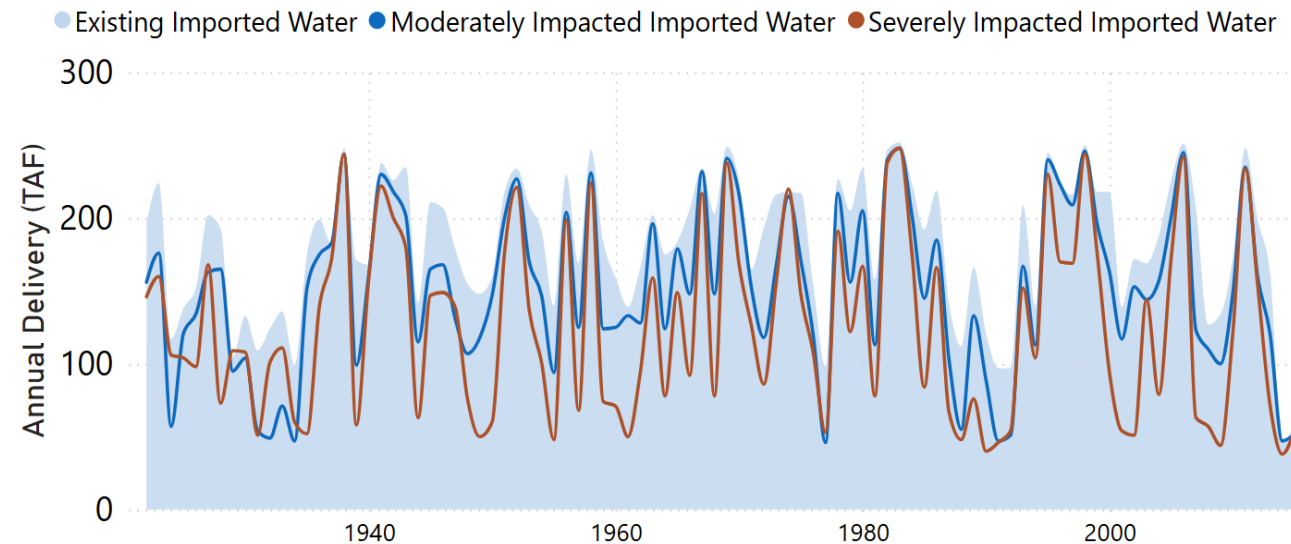
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Two imported water scenarios

- Moderately impacted imports
- Severely impacted imports

Climate change considered

Future Projected SWP and CVP Imported Water



Baseline Assessment - Assumptions

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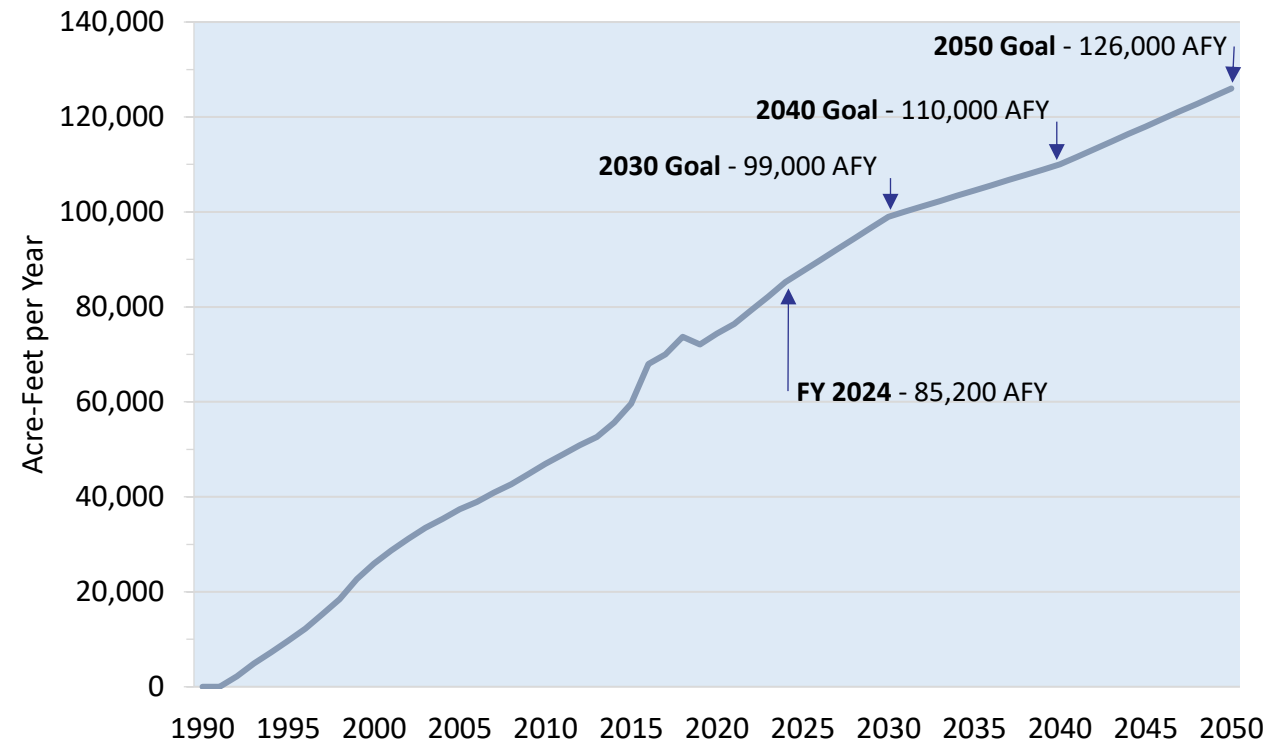
Achieve long-term conservation goals

Complete dam seismic retrofits by 2035

Maintain Valley Water assets

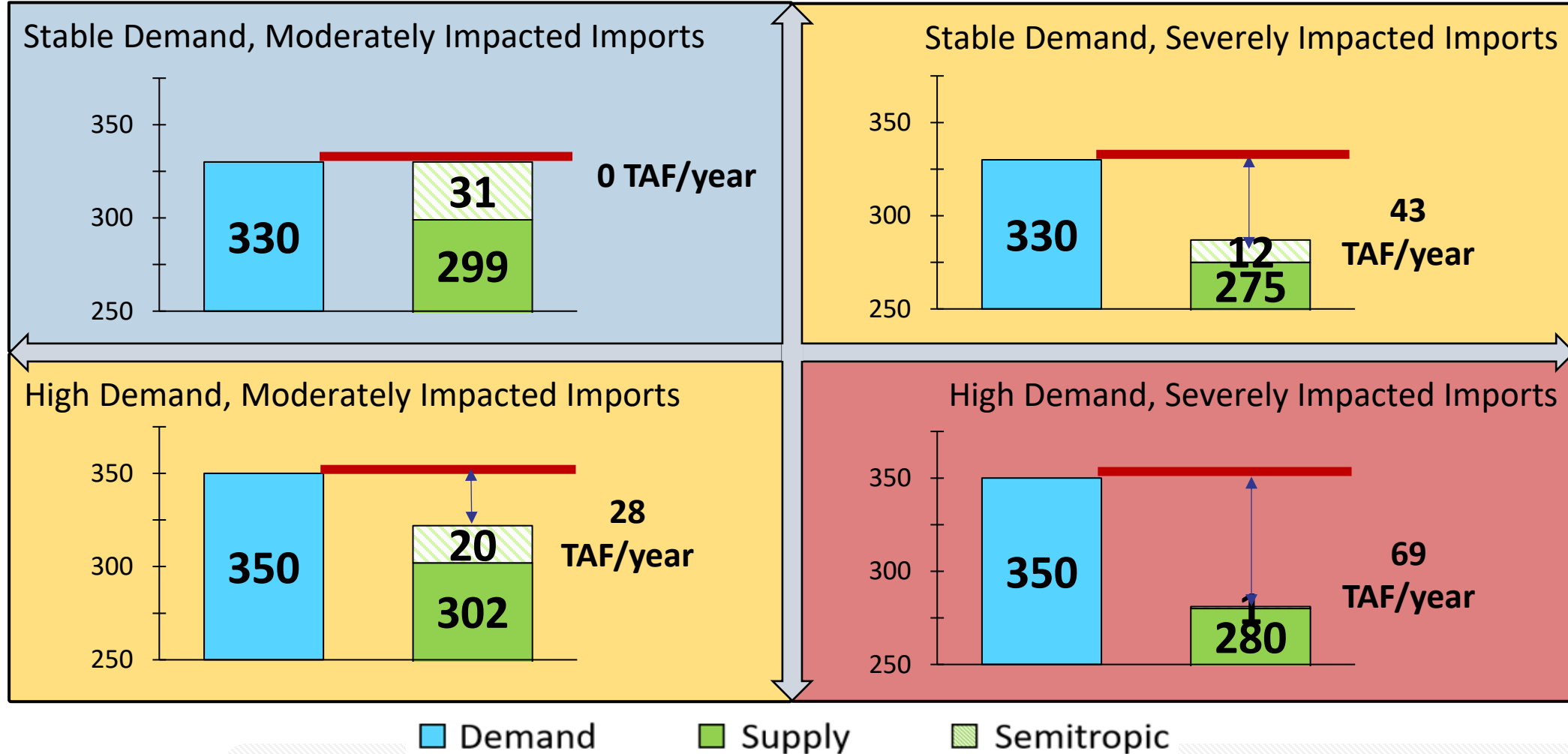
Recycled water use

Water Conservation Savings Progress



Baseline Assessment – Drought in 2050

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Needs for Investment

- Potential impacts of lower level of service
 - Quality of life
 - Economic impact
 - Irrigation for parks and trees
 - Agricultural production
 - Land subsidence
- Billions in economic losses



Project Options Grouped by Primary Benefits

Alternative Supply

Palo Alto Potable Reuse
Pure Water Silicon Valley
Refinery Recycled Water Exchange
Local Seawater Desalination

Storage

B.F. Sisk Dam Raise
Groundwater Banking

Surface Supply

Delta Conveyance Project
Sites Reservoir

Recharge and Pipelines

Coyote Valley Recharge Pond
Butterfield Channel Managed Aquifer Recharge
Madrone Channel Expansion
San Pedro Ponds Improvement Project

Conservation and Potable Reuse Goals

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- Water conservation goal
 - 126,000 AFY by 2050



- Potable reuse goal
 - 24,000 AFY by 2035
 - Long-term vision to maximize water reuse up to 32,000 AFY by 2050

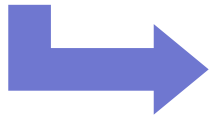
Strategies for Water Supply Reliability

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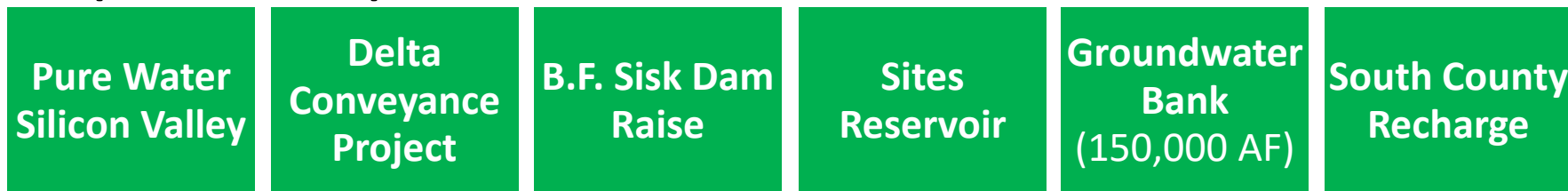
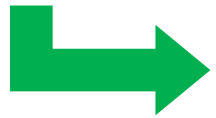
Lower Cost (\$3.9 Billion)



Local Control (\$4.5 Billion)



Diversified (\$4.0 Billion)



Adaptive Management Roadmap

NOW

- **Focus on Lower Cost Portfolio**
- Continue planning for other projects
- Continue Desal feasibility study
- Continue implementing conservation programs

NEAR-TERM (2-3 YEARS)

- Assess progress on project planning and implementation
- Make project decisions based on triggers, new information, and actual conditions
- Continue planning for other projects

MID-TERM (5 YEARS)

- Assess progress on project implementation
- Update demand projections and water supply outlook
- Update WSMP

Annual MAP report

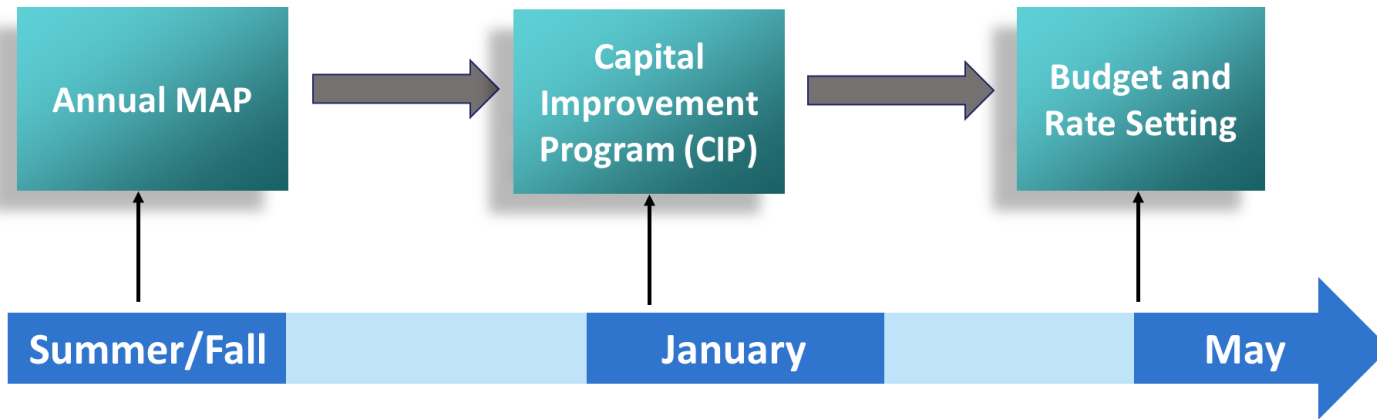
INDICATORS



Sisk negotiation
DPR project progress
Project decisions

Annual Reporting for Adaptive Process

- Track project progress
- Report conditions of indicators
- Recommend actions as needed



Indicators

- Negotiation and agreements with other agencies
- Upcoming project decisions
- Regulatory and permitting issues
- Annual supply
- Annual water use
- Conservation progress
- Growth trend/demand
- Regional agreements and decisions by other agencies
- Other

Next Steps

- Annual reporting