



# Master Water Report Update... Update

June 7, 2023

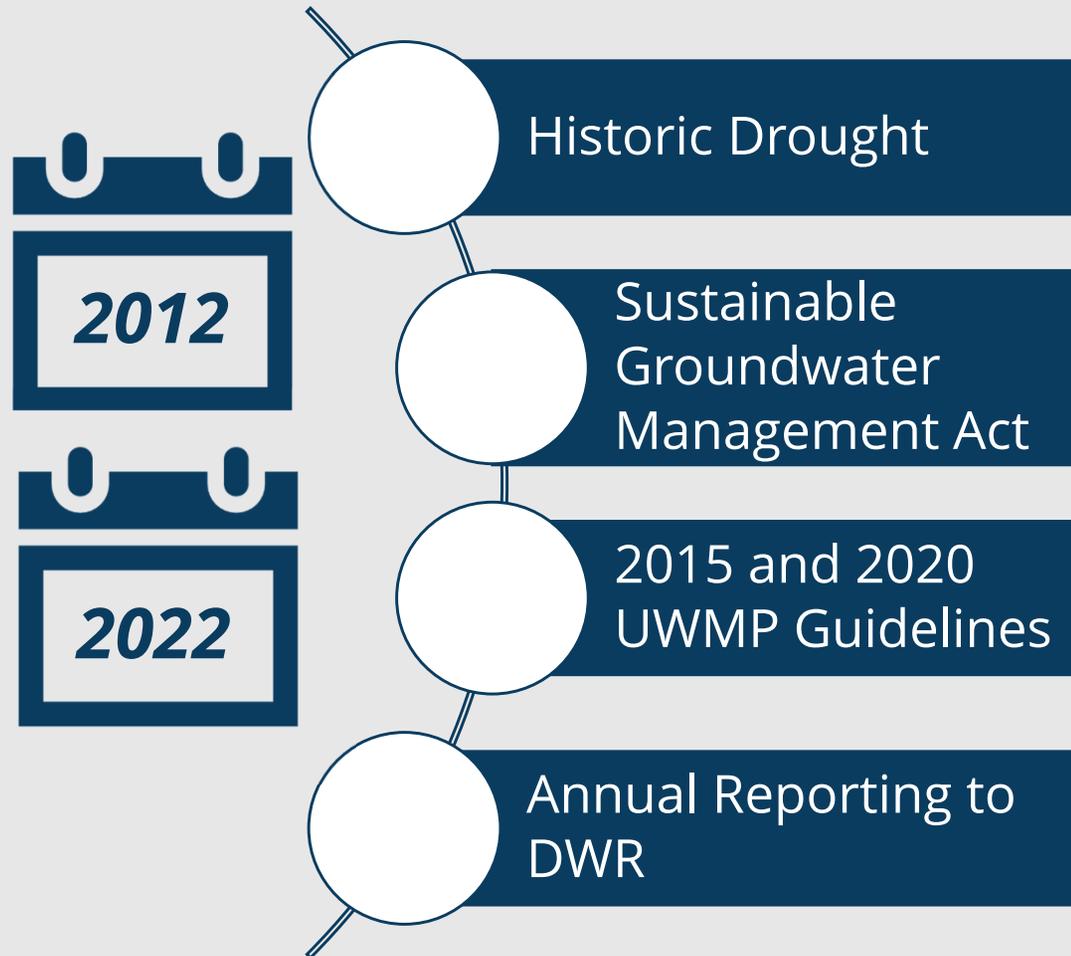
# Master Water Report (MWR) Update

- Background of Project
  - Goals
  - Project Components
- Summary of Data & Information Audit
- Development Steps
- Proof of Concept
- Next Steps



# Master Water Report - Background

- 2012 Report – out of date!
- Automated system
- Water supply & demand
- Inform decision-makers and the public

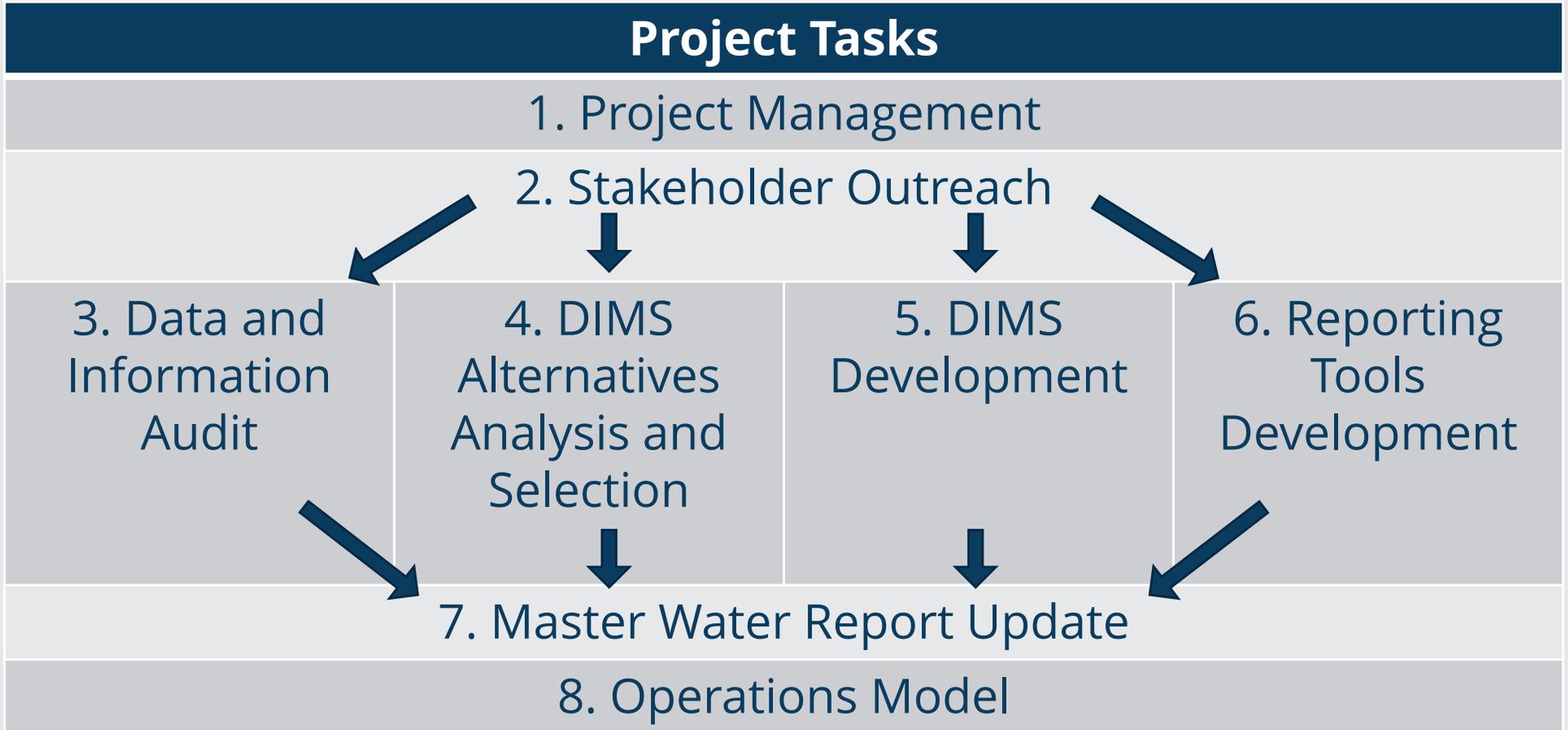


COUNTY  
of SAN LUIS  
OBISPO

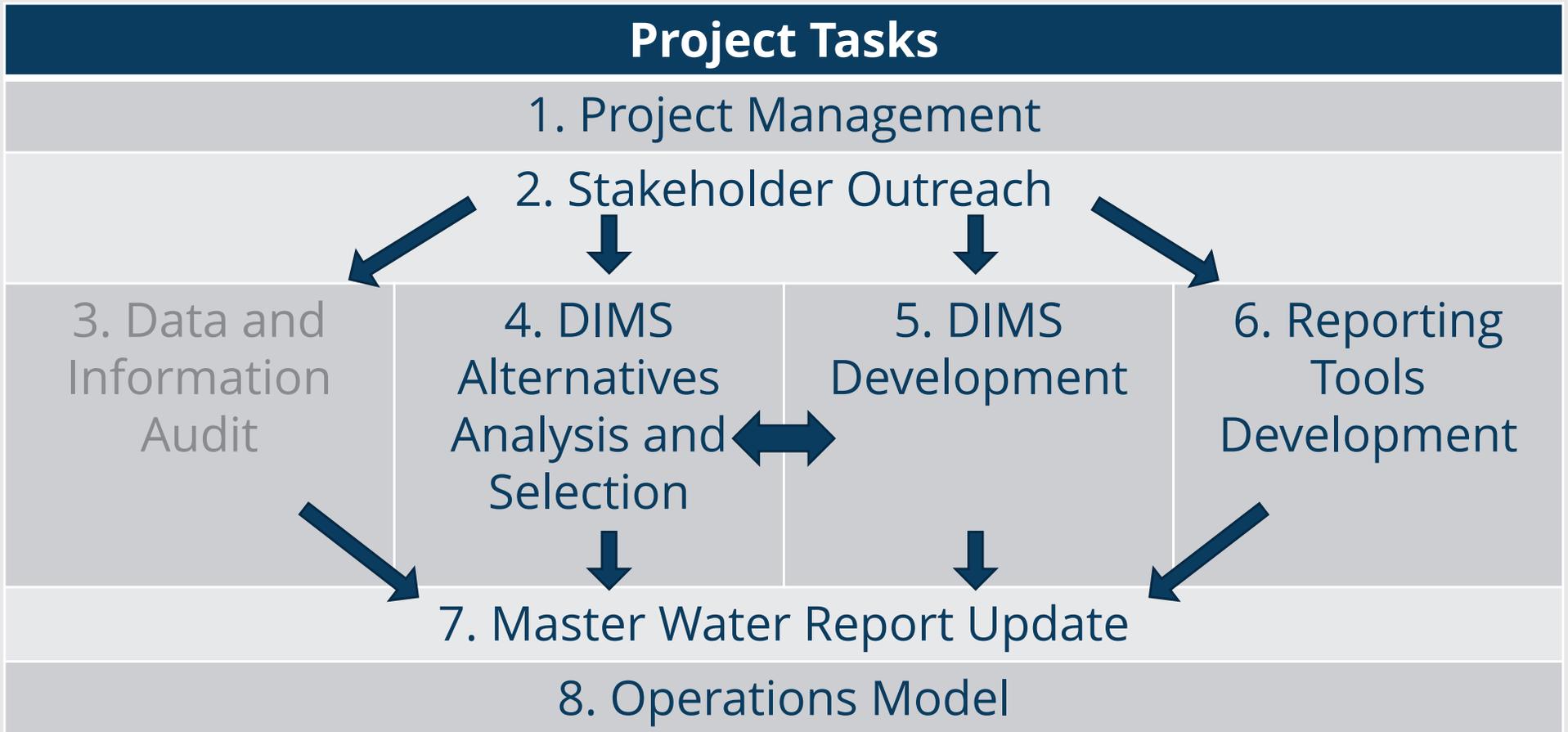
COUNTY OF SAN LUIS OBISPO

[www.slocounty.ca.gov](http://www.slocounty.ca.gov)

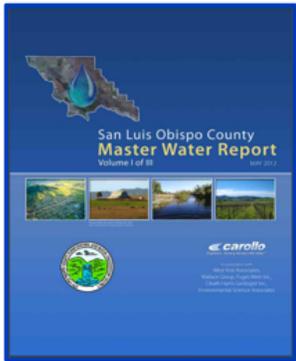
# Master Water Report – Project Components



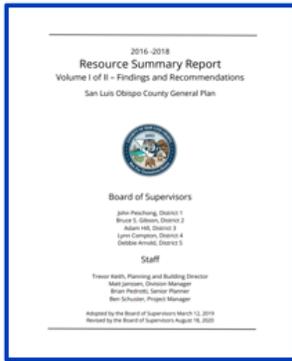
# Master Water Report – Project Components



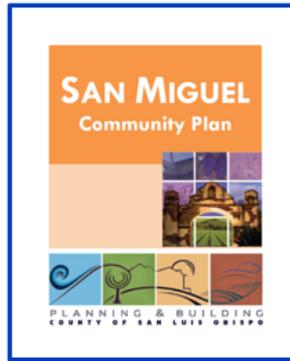
# Master Water Report – Data & Info. Audit



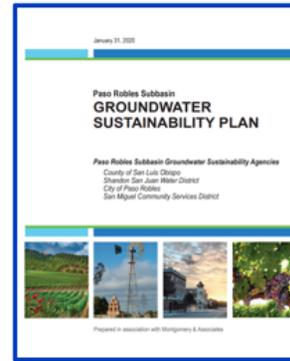
Master Water Report



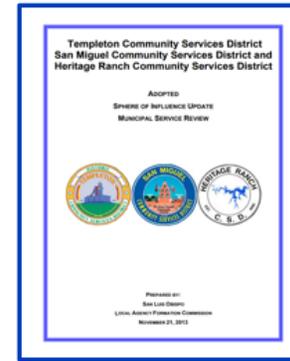
Resource Summary Reports



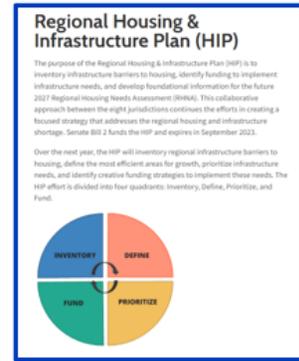
Community Plans



GW Basin Reports



Municipal Service Review



Regional Housing and Infrastructure



# Master Water Report – Data & Info. Audit

Data Type	Data	Data Source
GIS - Mapping	Current and Future Land Use	General Plans/Planning Department
	Address Points	SLO County
	Current Population	Census
	Community Boundaries	SLO LAFCO
	Watershed Boundaries	SLO County
	WPA Boundaries	SLO County
	Water Purveyor Boundaries	DWR UWMP Database / DDW / SLO County
	DAC Boundaries	DWR DAC GIS / SLO County
	Crop Acres	DWR Statewide Crop Mapping
Tabular	Historical Population	DWR UWMP Database / SWB Electronic Annual Report
	Projected Population	DWR UWMP Database / SLOCOG Regional Growth Forecast
	Environmental Water Demands	Stillwater 2014 Report
	UWMP Data Tables	DWR UWMP Database
Time Series	Rainfall	SLO County PWD/USGS/NWS
	Streamflow	SLO County PWD/USGS/NWS
	Reservoirs	SLO County PWD
	Groundwater	GAMA Groundwater Information System



# Master Water Report – Data & Info. Audit

## Geographic Scale

County

WPAs

Watersheds

Communities

## Time Increment

Existing

Projections:  
5-years to 2045

Buildout

## Key Results

Supply and Demand

Risk Scores

Demands by Type

Sources by Type

## Updates

Changes in demands – land use, development, conservation, etc

Projects

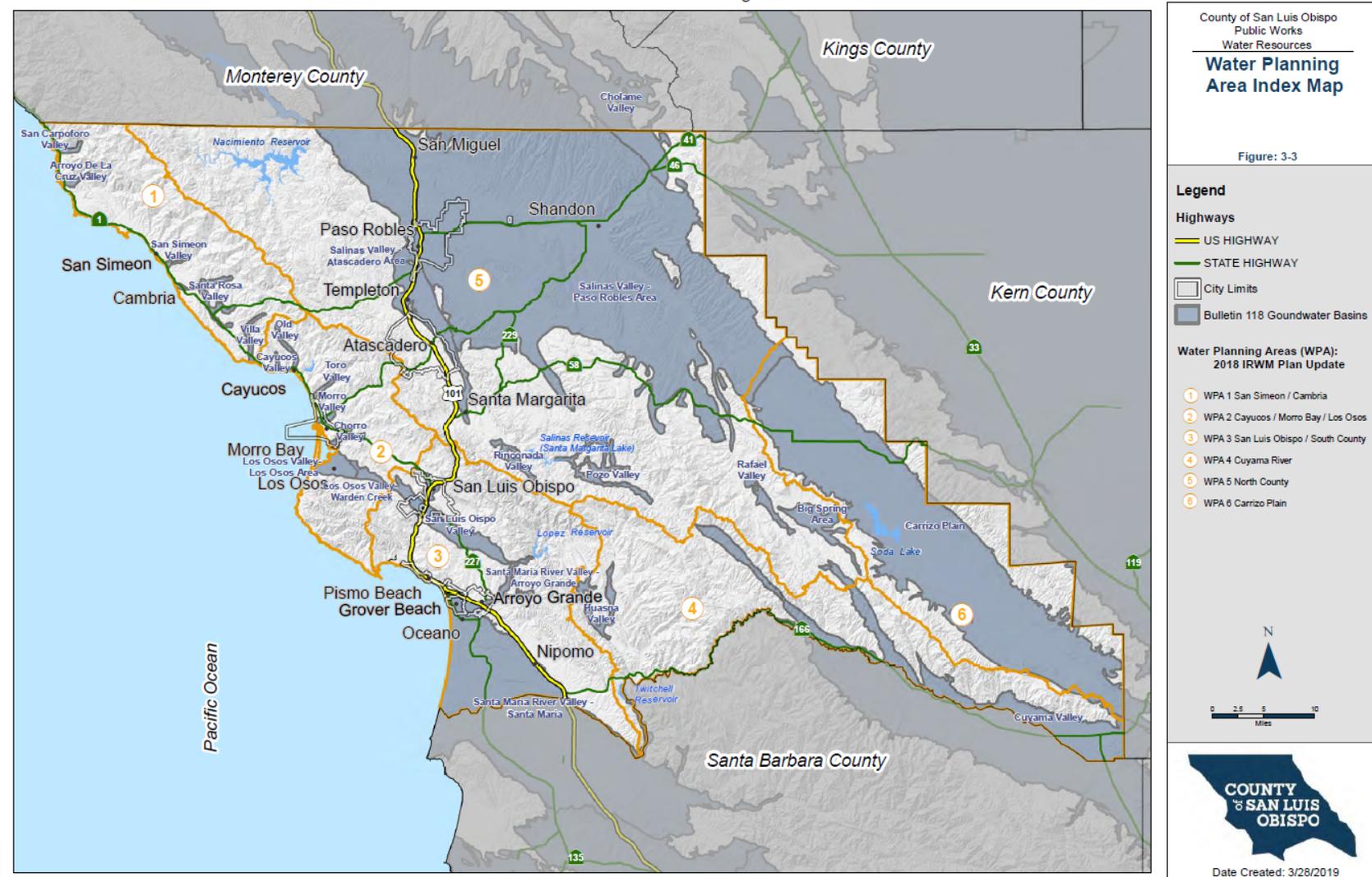
Future supply conditions

Assumptions for growth

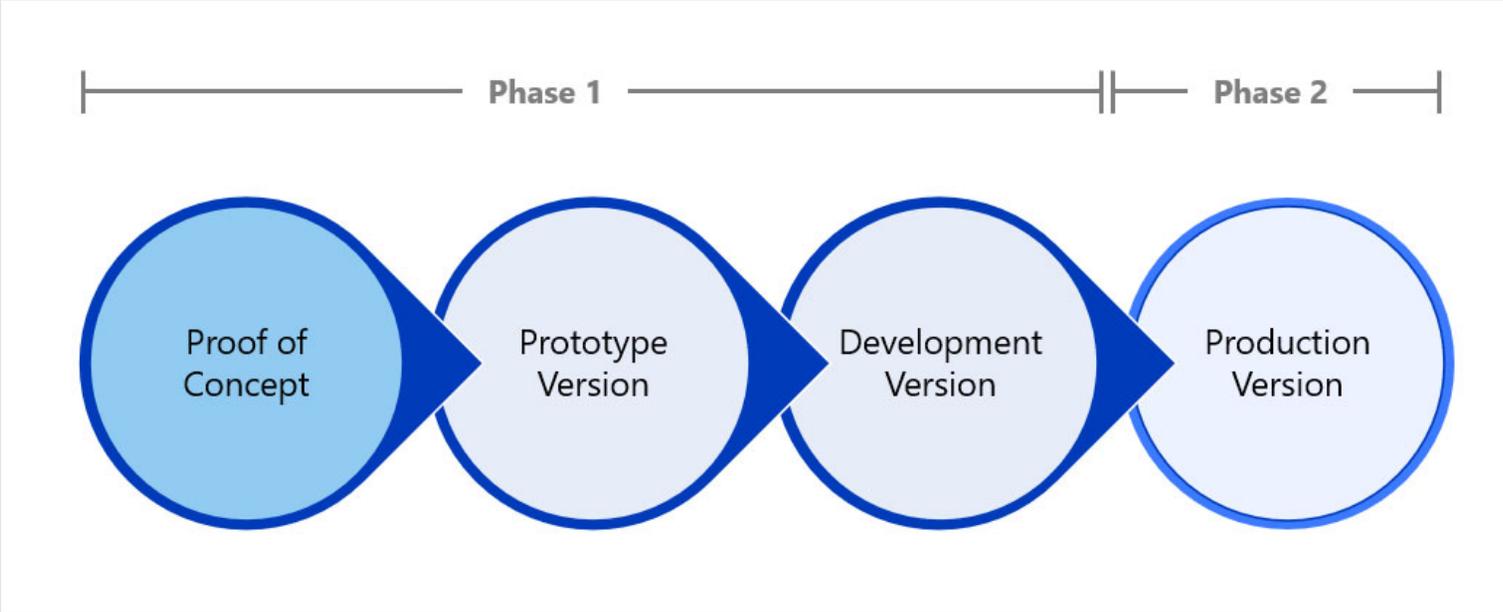
Restrictions on use



# Master Water Report – Data & Info. Audit



# Master Water Report – Development Steps



# Master Water Report – Proof of Concept

The screenshot displays the 'Data and Information Management System' interface. At the top left is the County of San Luis Obispo logo. The main header reads 'Data and Information Management System'. On the right, there is a 'Username' field with a user icon. Below the header, there are two tabs: 'MWR Update' and 'Data Library'. The 'Data Library' tab is active. The interface is organized into several sections:

- Mapping - GIS**
  - Map Portal
  - GIS Metadata
    - Current and Future Land Use
    - Address Points
    - Population
    - Community Boundaries
    - Watershed Boundaries
    - WPA Boundaries
    - Water Purveyor Boundaries
    - DAC Boundaries
- Time Series Data - Links**
  - RAINFALL
  - STREAMS
  - RESERVOIRS
  - GROUNDWATER
- Tabular Information**
  - Historical Population
  - Projected Population
  - Environmental Water Demands by Water Body
  - UWMP Data Tables

A dark blue sidebar on the left contains navigation icons: a hamburger menu, a home icon, a document icon, and a question mark icon.



# Master Water Report – Proof of Concept

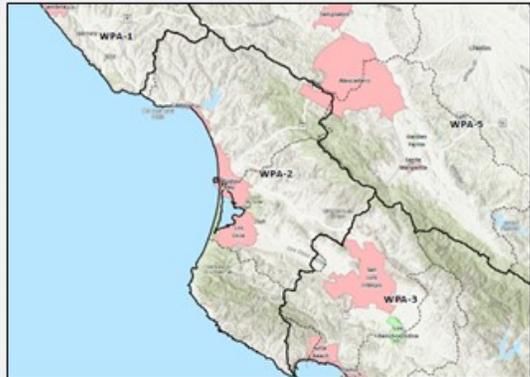
## Data and Information Management System

Username 

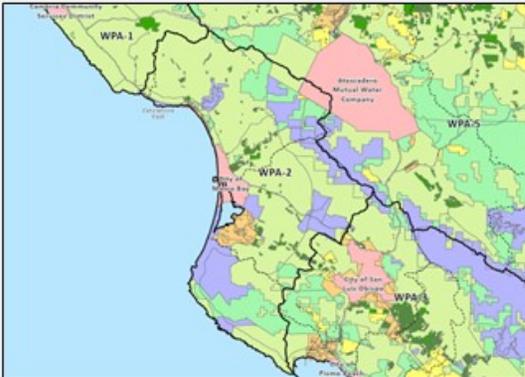
MWR Update

Data Library

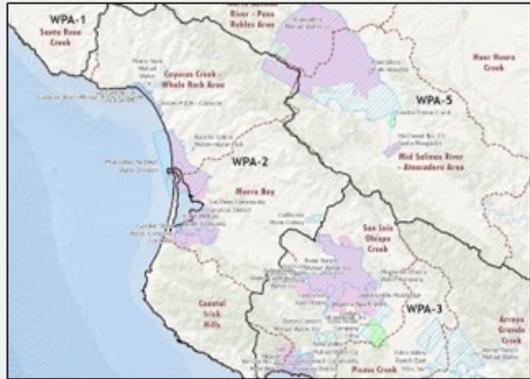
Map Portal



Geographies



Land Use



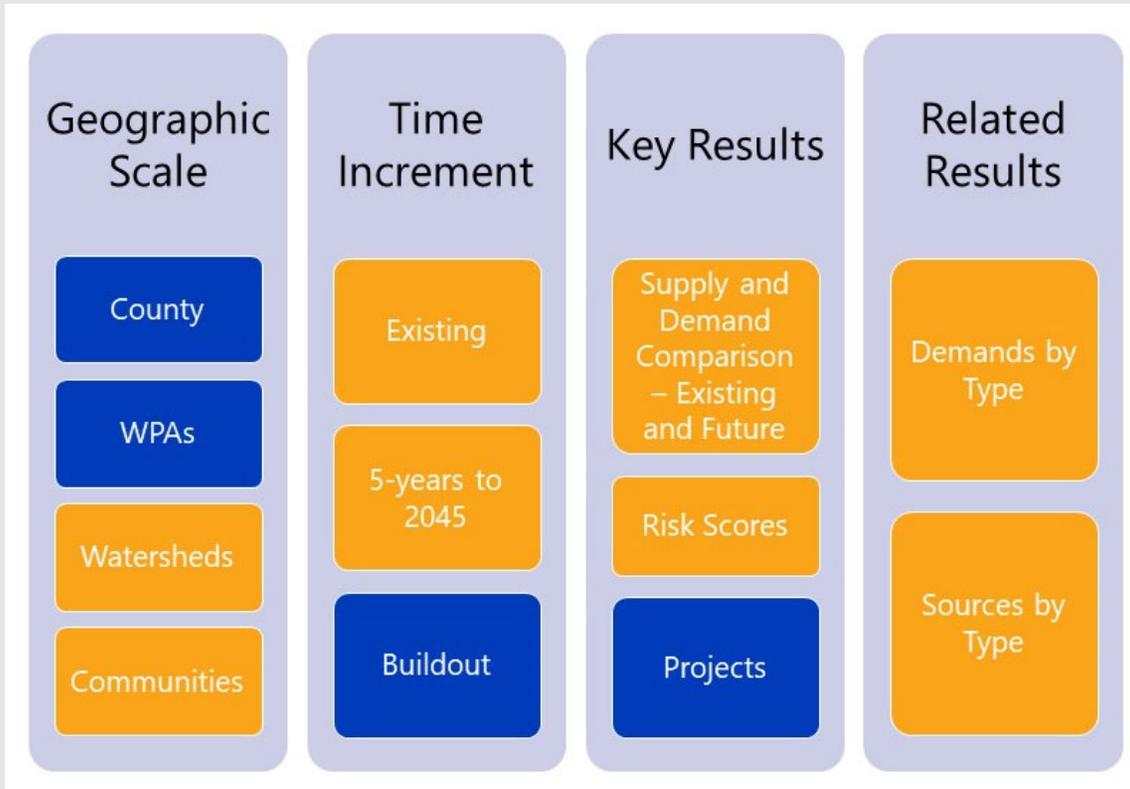
Water Providers



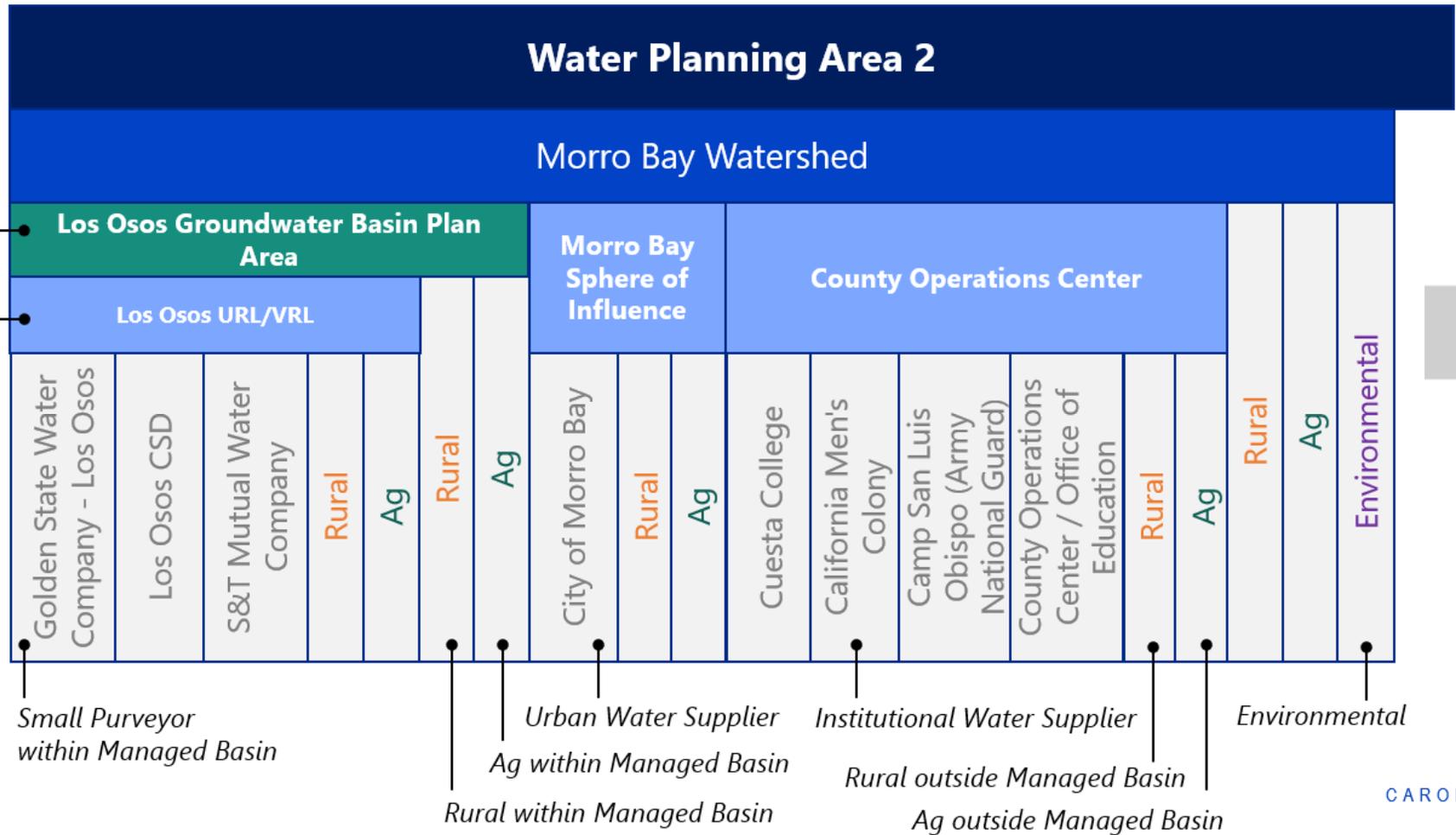
Water Supplies



# Master Water Report – Proof of Concept



# Master Water Report – Proof of Concept



# Master Water Report – Proof of Concept

## Watershed Level

View Data For

- County
- WPA 1
- WPA 2
- WPA 3
- WPA 4
- WPA 5
- WPA 6
- Watersheds
- Communities

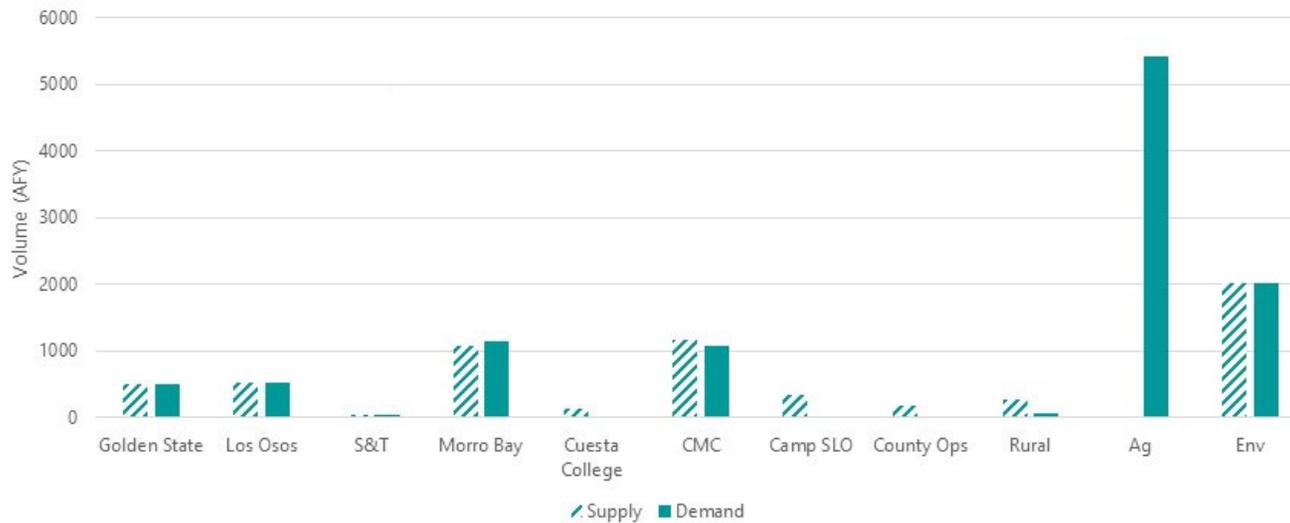
Year

- 2020
- 2025
- 2030
- 2035
- 2040
- 2045

Hydrologic Condition

- Average
- Single Dry
- Multiple Dry

Morro Bay Watershed (Current)



Additional Information

- Resiliency Risk Scores
- Seasonal ENV Demand

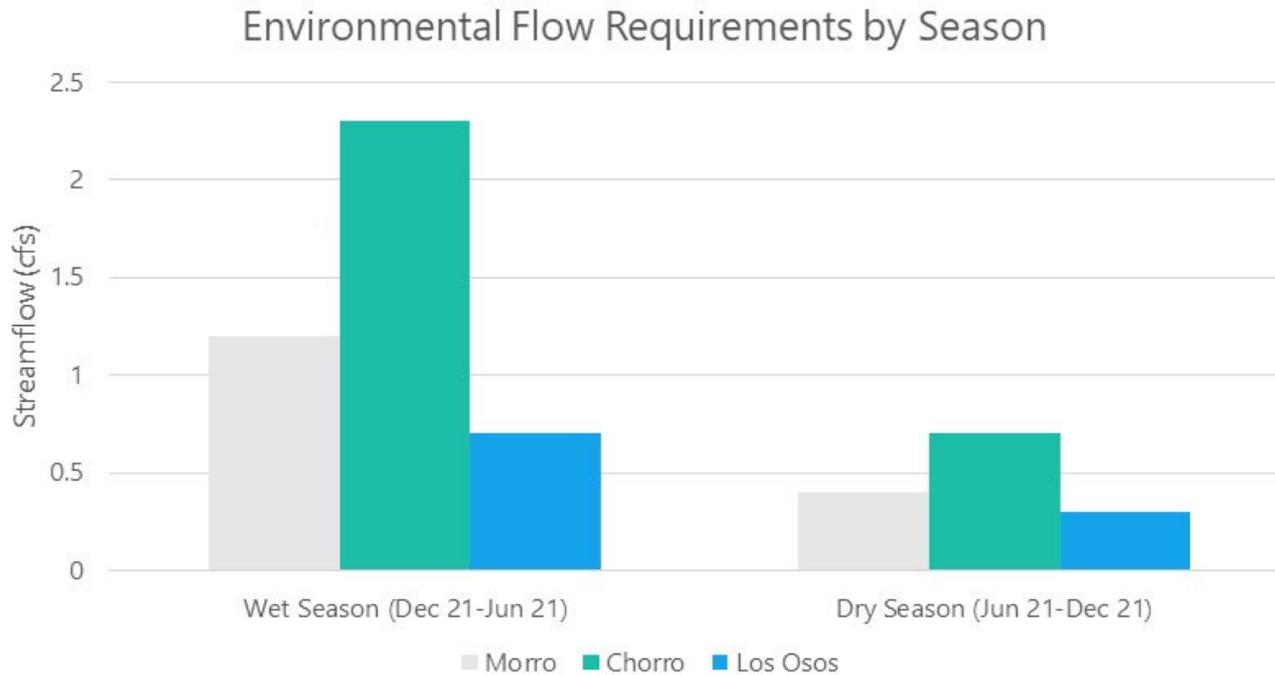


# Master Water Report – Proof of Concept

## Seasonal Environmental Demands

View Data For

- County
- WPA 1
- WPA 2
- WPA 3
- WPA 4
- WPA 5
- WPA 6
- Watersheds
- Communities



# Master Water Report – Next Steps

Items being discussed by Project Team:

- Climate Change Incorporation
- SB 552
- Projects
- Unmanaged Basin Supply and Demand
- DWR ET (annual) vs. CIMIS ET (averaged)
- Population forecast (SLOCOG?)
- Environmental Flow
- Other reports for MWR Phase



# Master Water Report – Next Steps

- Prototype Version – Fall 2023
- Development Version – Spring 2024
  - Grant Deliverable

