



# Demand Planning and Management In the Salinas Valley

A Strategic Framework for Long-Term Groundwater Sustainability

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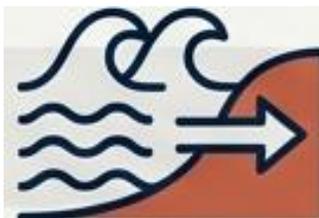
# Groundwater Management is an Immediate Economic Necessity, Not a Future Concept

The Salinas Valley economy is fundamentally dependent on groundwater for agriculture, communities, and regional stability.

Under the Sustainable Groundwater Management Act (SGMA), basins must achieve sustainability within 20 years (**now 15 years**).

## The Risks to the Subbasins

Seawater  
Intrusion



Declining  
Groundwater  
Levels



Water  
Quality  
Degradation

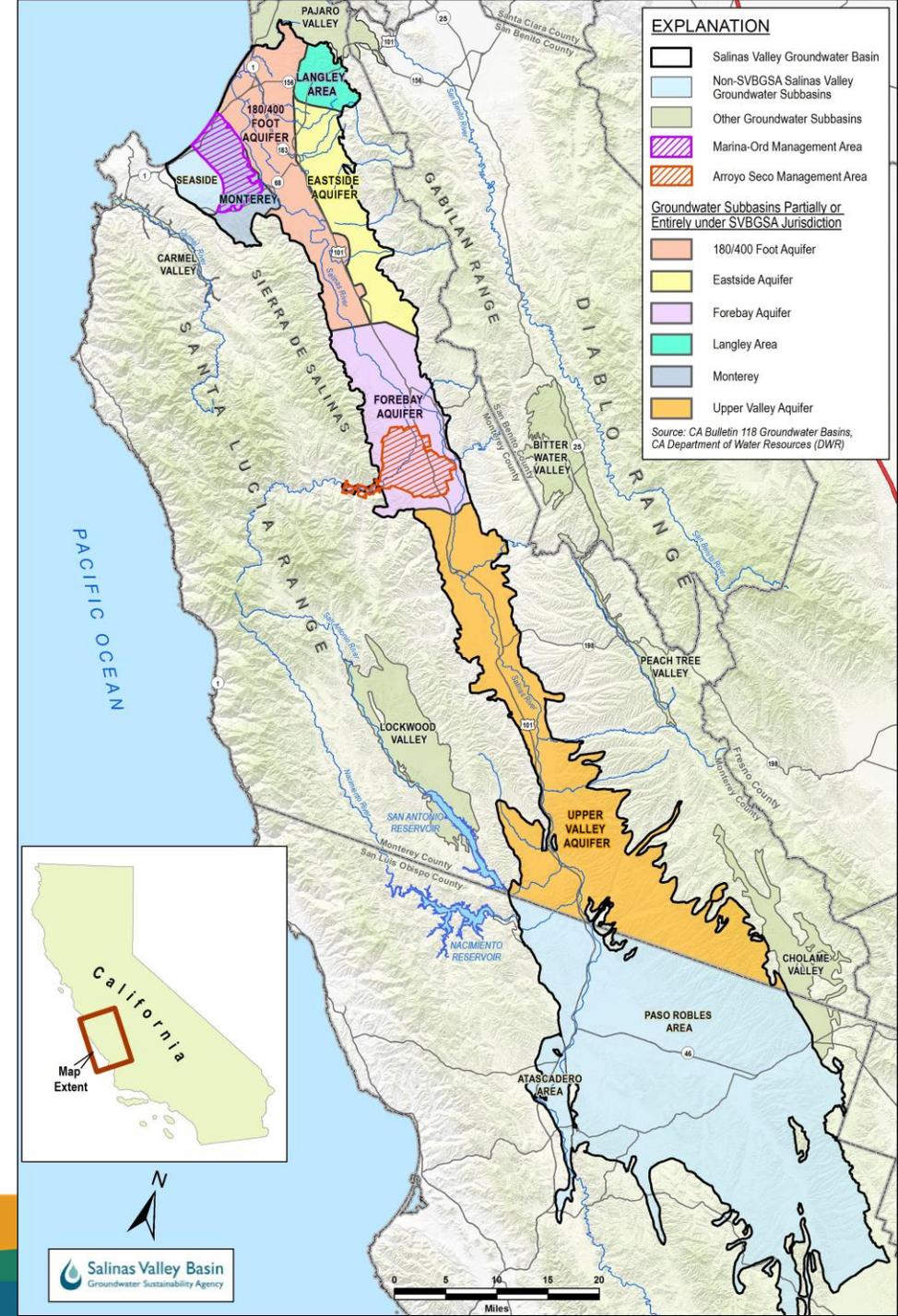


Loss of  
Groundwater  
Storage



# One Agency Managing the Diverse Needs of Six Subbasins

- 6 Basins (Subbasins) & Groundwater Sustainability Plans
  - 180/400
  - Monterey
  - Langlely
  - Eastside
  - Forebay
  - Upper Valley
- Partner GSAs
  - Marina Coast Water District GSA
  - Arroyo Seco GSA
  - County of Monterey GSA



# Projects Alone Cannot Guarantee Success

## The SGMA Requirement

Subbasins must understand conditions, set sustainability criteria, and avoid “undesirable results”.



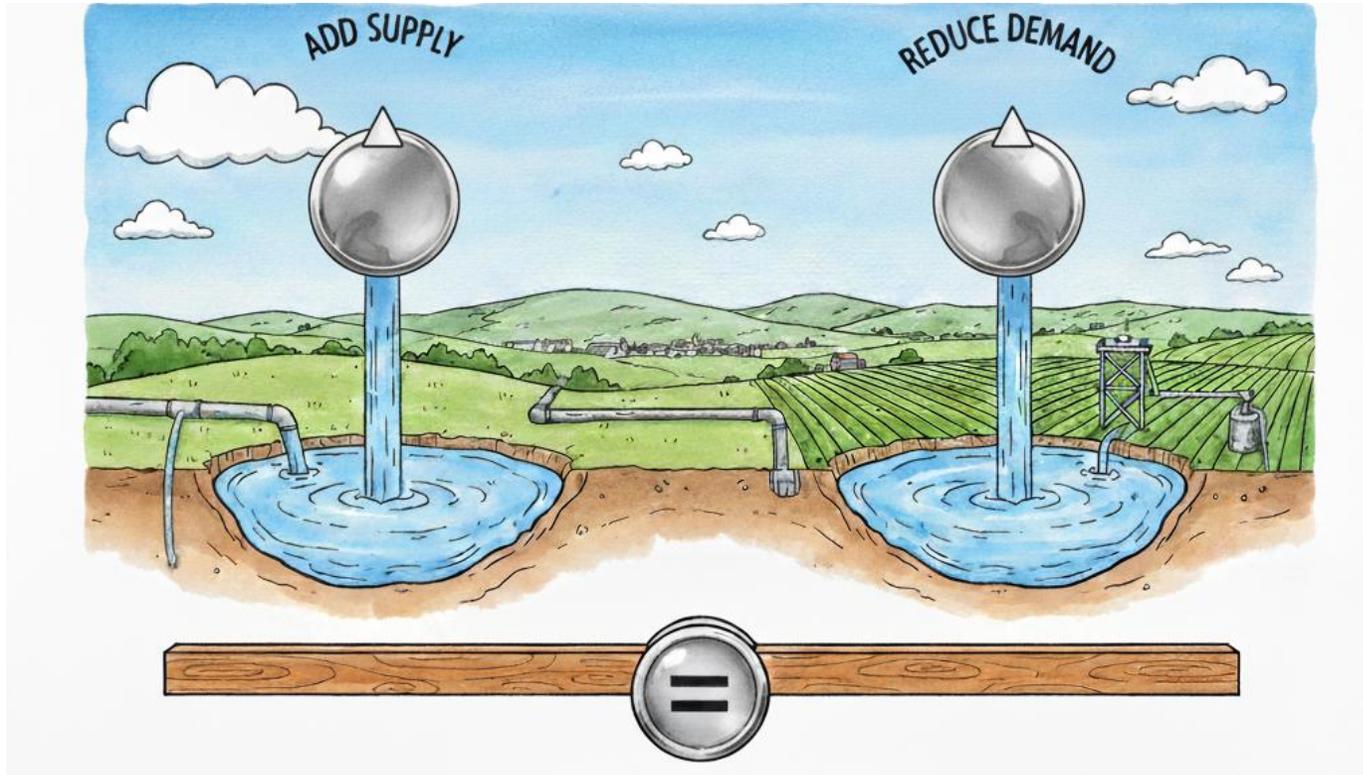
## The Practical Implication

Projects (recharge/supply) are the primary goal, but they are not a silver bullet. Management actions – changes in pumping behavior – are necessary to bridge the gap.



**Key Takeaway: We cannot build our way out of every deficit. We must have a mechanism to balance use if supply projects fall short.**

# Defining “Demand Management”: Managing the Net Balance



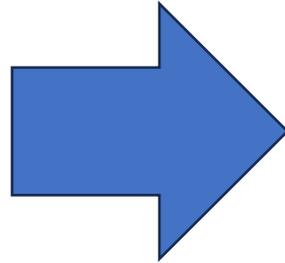
Demand management is the active management of the withdrawals. Its purpose is to maintain balance and prevent undesirable results (like declining groundwater levels).

Note:  
Demand Management works alongside recharge and supply projects, action as the lever for stability when new water supplies are insufficient or still being planned or constructed.

# The Current Framework is a Planning Tool

## **Demand Planning (Current Phase)**

- Studying conditions
- Evaluating options
- Analyzing economic and legal impacts

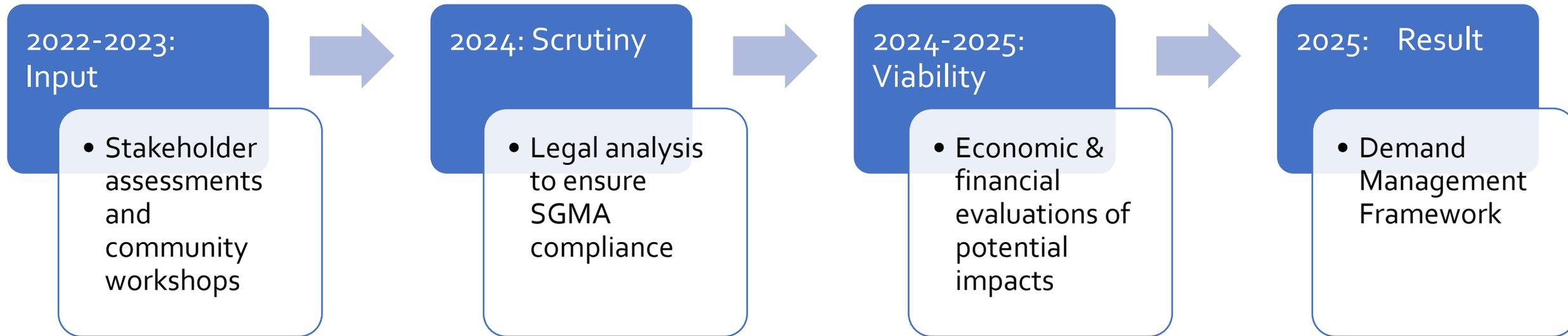


## **Demand Management (Implementation Phase)**

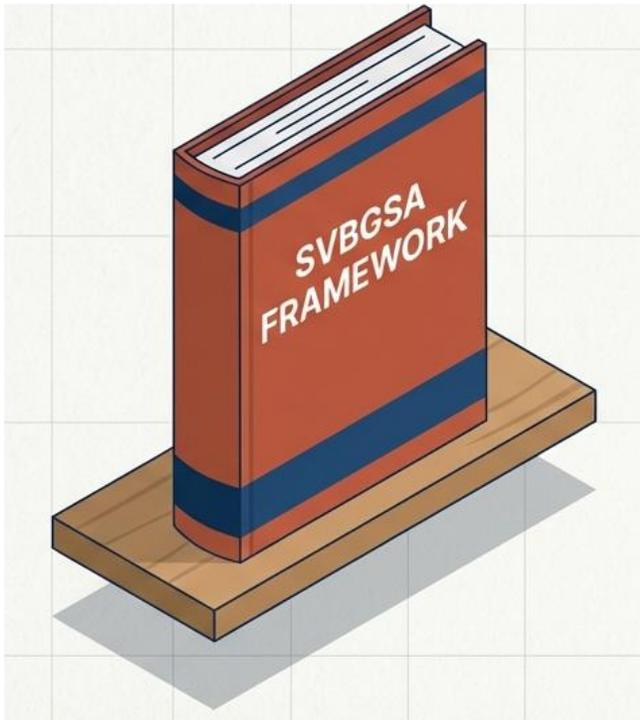
- Implementing specific actions
- Adjusting pumping behavior
- Tracking water use against limits

**Key Takeaway: The Framework itself is not a regulation. It is the roadmap that guides how and when regulations would be applied if necessary.**

# A Framework Built on Rigorous Analysis and Stakeholder Input (2022-2025)



# The Framework Acts as a Strategic Playbook, Not an Immediate Restriction

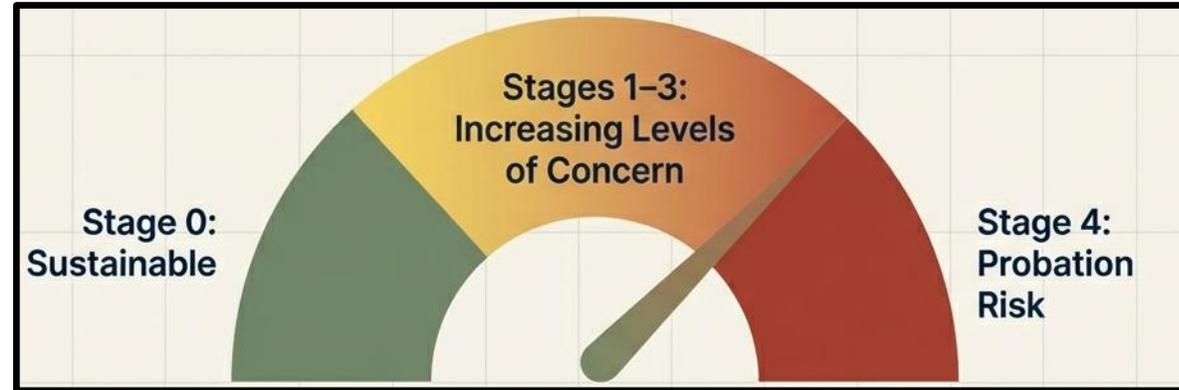


**What it does NOT do:**  
Immediately impose pumping restrictions.

**What it DOES do:** Provide a structured logic to evaluate the health of the subbasins, prioritize issues, and implement demand management only when conditions dictate.

Analogy: Think of it as an emergency playbook. It defines the rules of engagement so that if action is needed, the response is predictable, fair and effective.

# A Phased Approach: Understanding the 5 Stages of Groundwater Concern



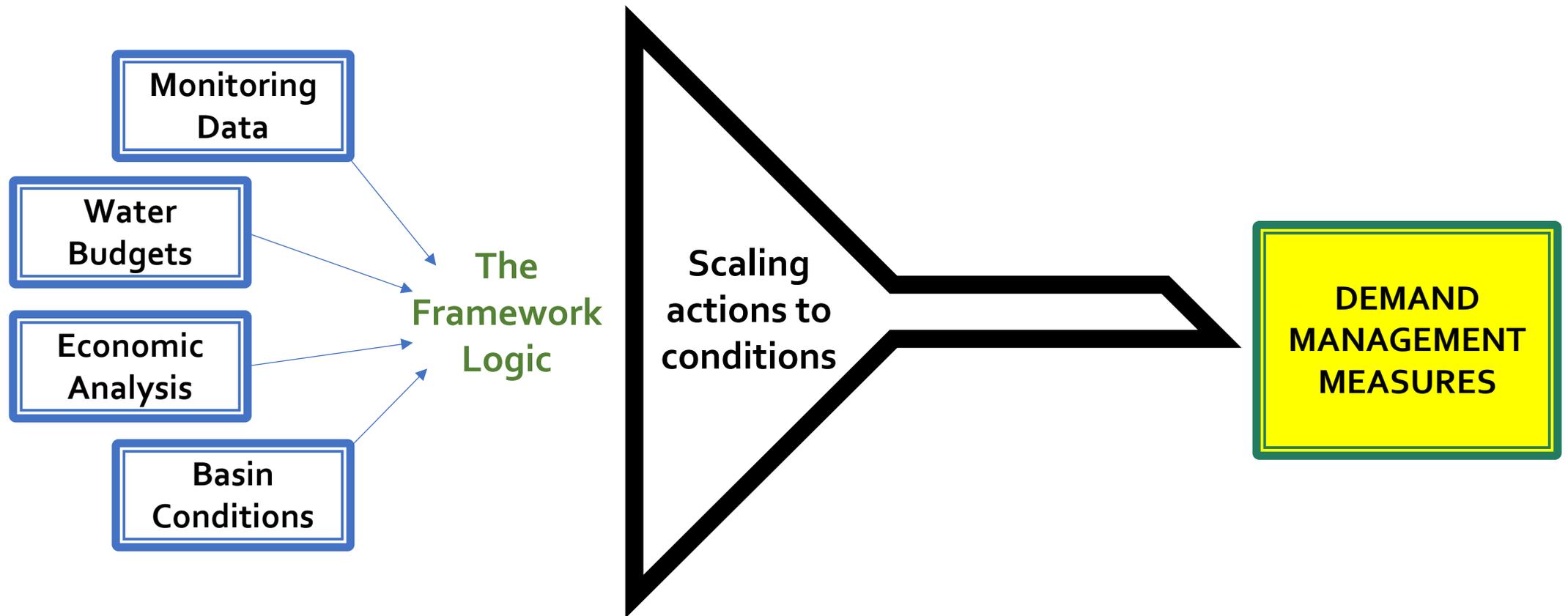
## The Triggers

Subbasins move between stages based on:

- Long-term Trends (Evaluated in 5-year cycles)
- Short-term Indicators (e.g. falling groundwater levels, chloride measurements)

**Key Takeaway: We measure specific triggers to determine the severity of the response. Warning signs appear before the red zone.**

# Data-Driven Decisions: How Demand Management Actions are Selected



**Not One-Size-Fits-All:** Actions are specific to the subbasin's reality

**Scalability:** Intensity of action matches the severity of the groundwater conditions

# The Agricultural Toolbox: A Menu of Demand Management Measures/Options

Incentives

**On-farm  
Efficiency**



Improvements in  
technology

**Rotational  
Fallowing**



Temporary reduction in  
acreage

**Land  
Repurposing**



Converting to lower  
water- uses

**Pumping Limits**



Caps on extraction  
(Allocations)

**Extraction Fees**



Costs associated with  
usage

**Excess-Use  
Penalties**



Deterrents for over-  
pumping

Disincentives

# A Shared Responsibility: Domestic and Community Measures

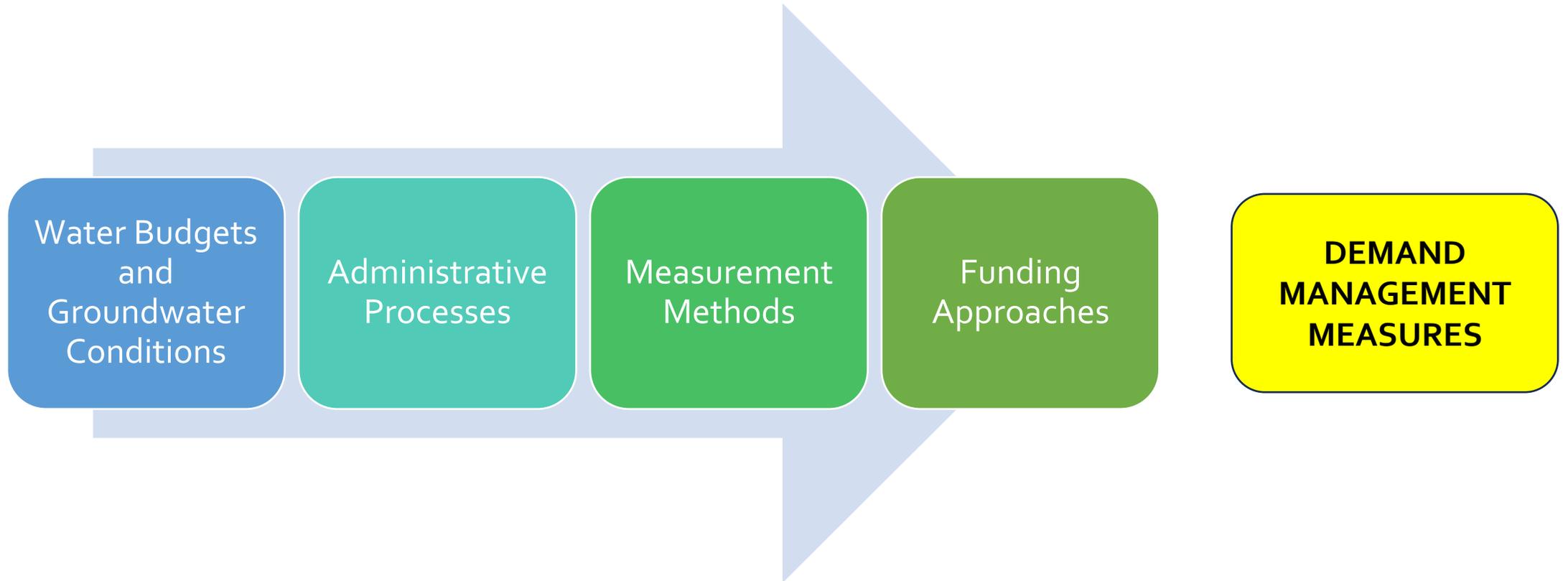


Agriculture is not bearing the burden alone. The Framework outlines specific measures for municipal and domestic users.

- ✓ Education and Outreach programs
- ✓ Rebates and Incentives for water-saving technologies
- ✓ Mandatory Efficiency standards
- ✓ Pricing Mechanisms (Tiered rates)

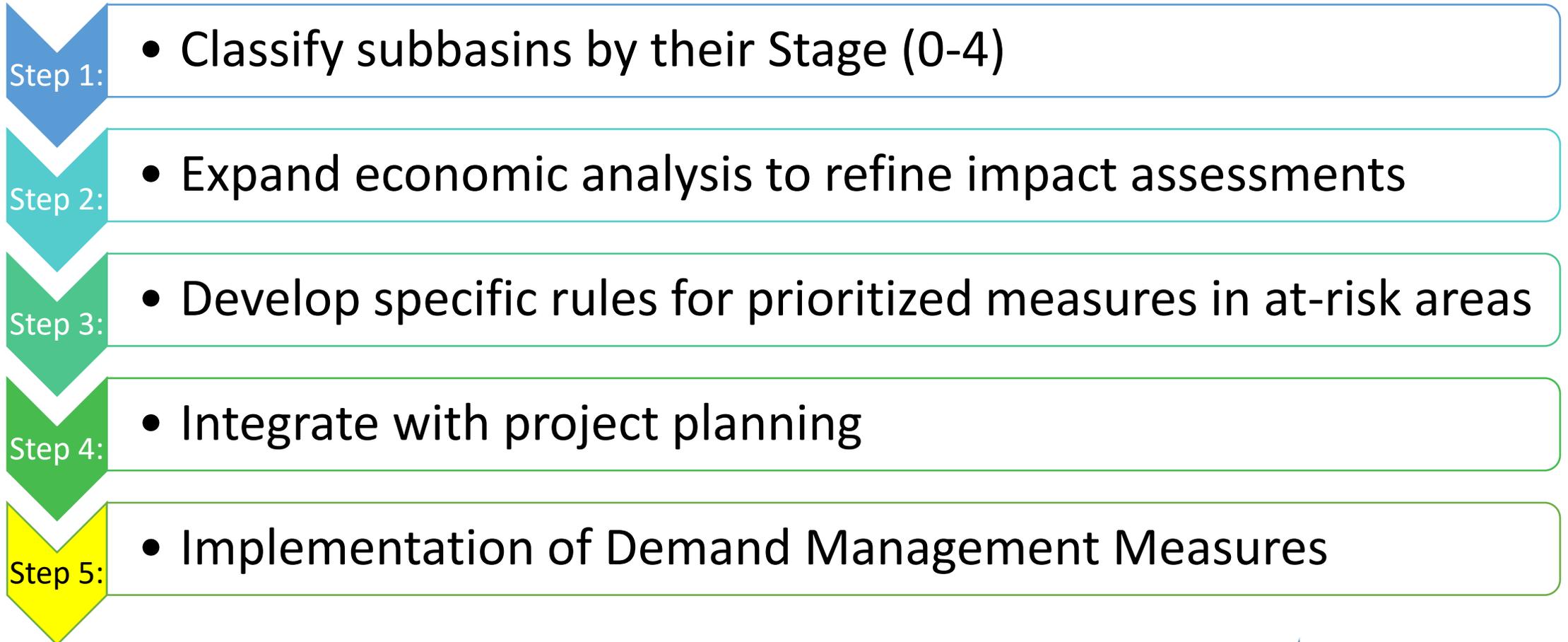
**Sustainability requires contribution from all groundwater users in the Salinas Valley**

# A Foundation of Management: Measurement Must Precede Regulation



**We cannot manage what we do not measure.**

# A Roadmap Ahead: Moving from Framework to Implementation





Questions?

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