

Water-Smart Success!

Irrigation Improvement & Landscape Rebate Potential

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Municipal Water District of Orange County

WHO WE ARE



Municipal Water District of Orange County

- Wholesale supplier and regional planner to 28 client cities and water agencies
- Governed by seven-member elected board of directors
- Member agency of Metropolitan Water District of Southern California
- Service area: 600 square miles
- Water demand: 668,000 AFY
 - Imported supply
 - Local supplies
- Population: 2.3 million

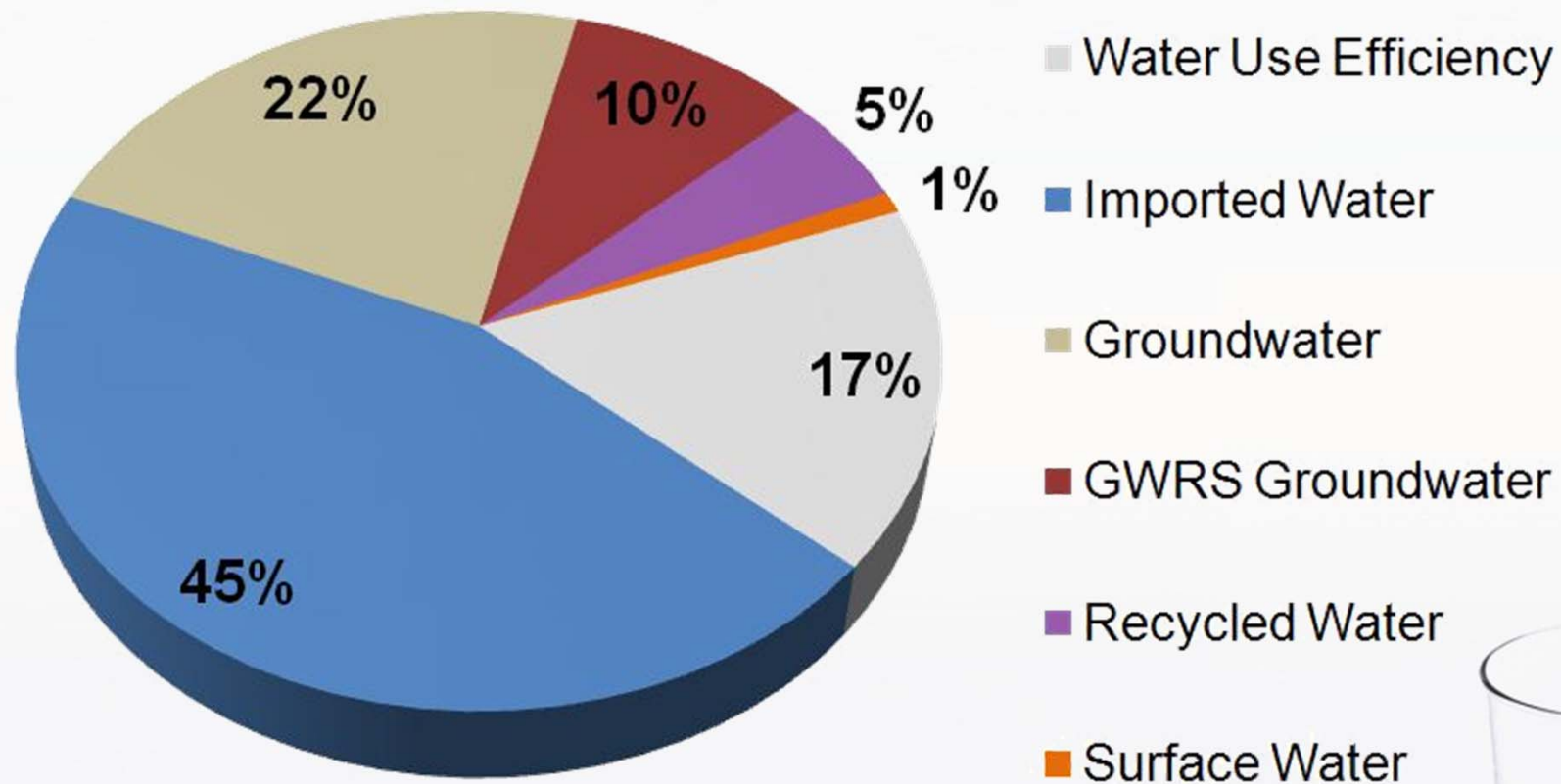


About MWDOC

- **What we do**
 - **Regional reliability planning and facilitation agency**
 - **Provides countywide water conservation programs**
 - **Implements countywide water education school program through partnership with Discovery Science Center**
 - **Facilitates countywide emergency preparedness through the Water Emergency Response Organization of Orange County (WEROC)**
 - **Coordinates with local and regional water providers including OCWD and retail water agencies**



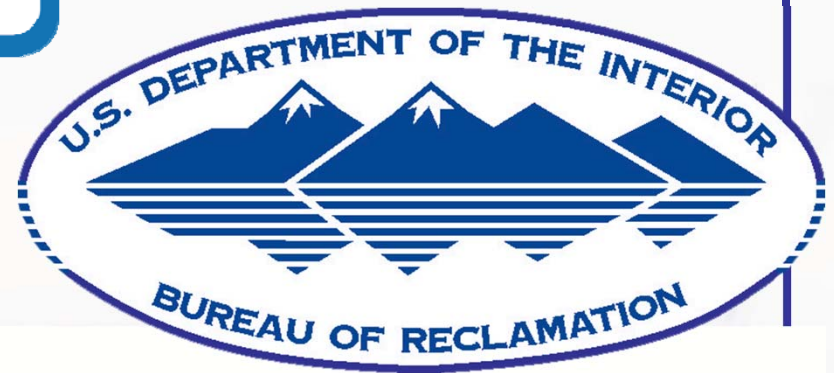
Where Orange County Gets its Water



Where Southern California Gets its Water



Program Funding Provided By:



**The Family of Orange
County Water Agencies**



MWD

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

The Problem



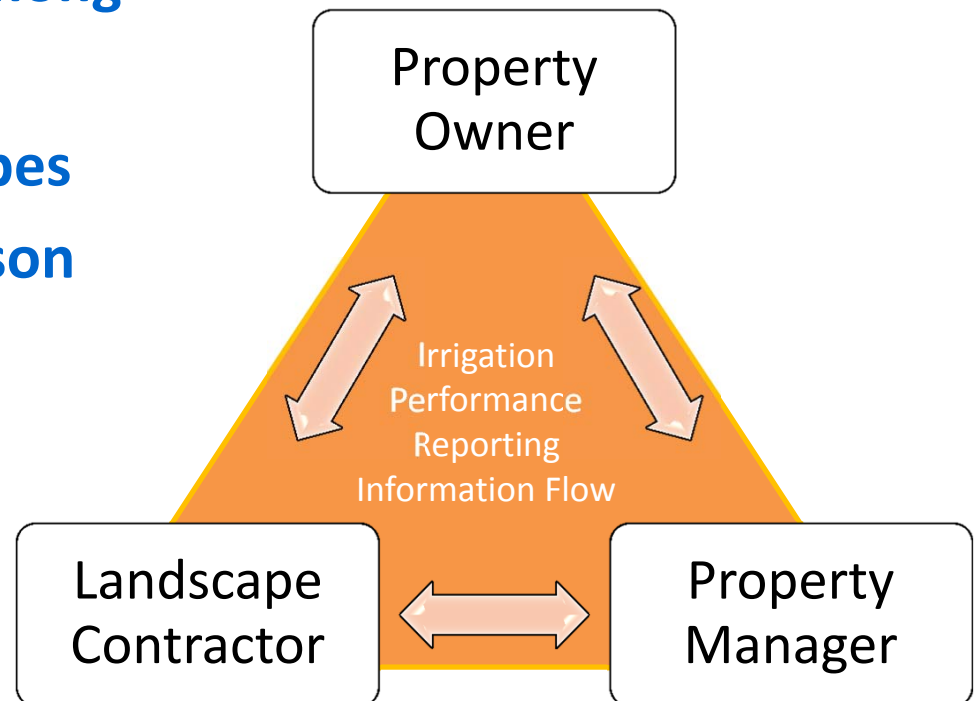
Water Smart Landscape Program Tools

1. Landscape Performance Certification Program
2. Performance-Based Irrigation Management Contract
3. Return on Investment Calculator
4. Rebates



Desired Outcomes & Accountability of Performance

- Reduced water bills
- Decreased runoff
- Reduction of hardscape maintenance requirements
- Increased accountability for landscape contractor
- Increased communication among key parties
- Healthy and vibrant landscapes
- “Apples-to-Apples” comparison for landscaping bids





Water Smart Landscape Program (WSLP)

Formerly: Landscape Performance
Certification Program

- A Free Program that establishes Landscape Irrigation Budgets for dedicated landscape meters
- Provides monthly irrigation performance reports to landscape contractors, property managers and property owners
- Serves all of Orange County
 - Julio Sanchez, ConserVision Consulting
 - (949) 215-2168
 - Contractor for MWDOC





Water Smart Landscape Program (WSLP)

- An scientific calculation of the annual, monthly or weekly water requirements for a specific irrigation meter
- A target for water use based on actual weather conditions and site characteristics including:
 - Evapotranspiration
 - Irrigated Area
 - Plant Material
 - Management Factor





Water Smart Landscape Program (WSLP)

- Site analysis of landscape, plant palette, irrigation system, and irrigation scheduling
- Determining whether the current landscape system can meet irrigation performance standards
- Complete site retrofits to meet performance standards
- Contract stakeholders negotiate performance boundaries
- Initiate Participation on a meter-by-meter basis
- Refine performance boundaries over time





Steps of the Performance-Based Irrigation Management Contract

Site analysis of landscape, plant palette, irrigation system, and irrigation scheduling



Determining whether the current landscape system can meet irrigation performance standards



Complete site retrofits to meet performance standards



Contract stakeholders negotiate performance boundaries



Initiate Participation on a meter-by-meter basis



Refine performance boundaries over time





Performance-Based Irrigation Management Contract

An outcome based approach to contracting that uses irrigation scheduling performance measures to define the minimum irrigation efficiency standards that must be met by the contractor.

Intended Users

- Commercial Property Owners
- Home Ownership Associations
- Landscape Maintenance Contractors
- Community Managers
- Municipalities



What do you mean by “Performance Based”?

- The PBIMC is intended to complement the maintenance contract by including a scientifically based landscape irrigation budget-monitoring component
- Adaptable/Customizable/Flexible
 - Within the template option boxes present alternative management strategies for site owners, managers, and landscape contractors to choose from.





Steps of the Performance-Based Irrigation Management Contract

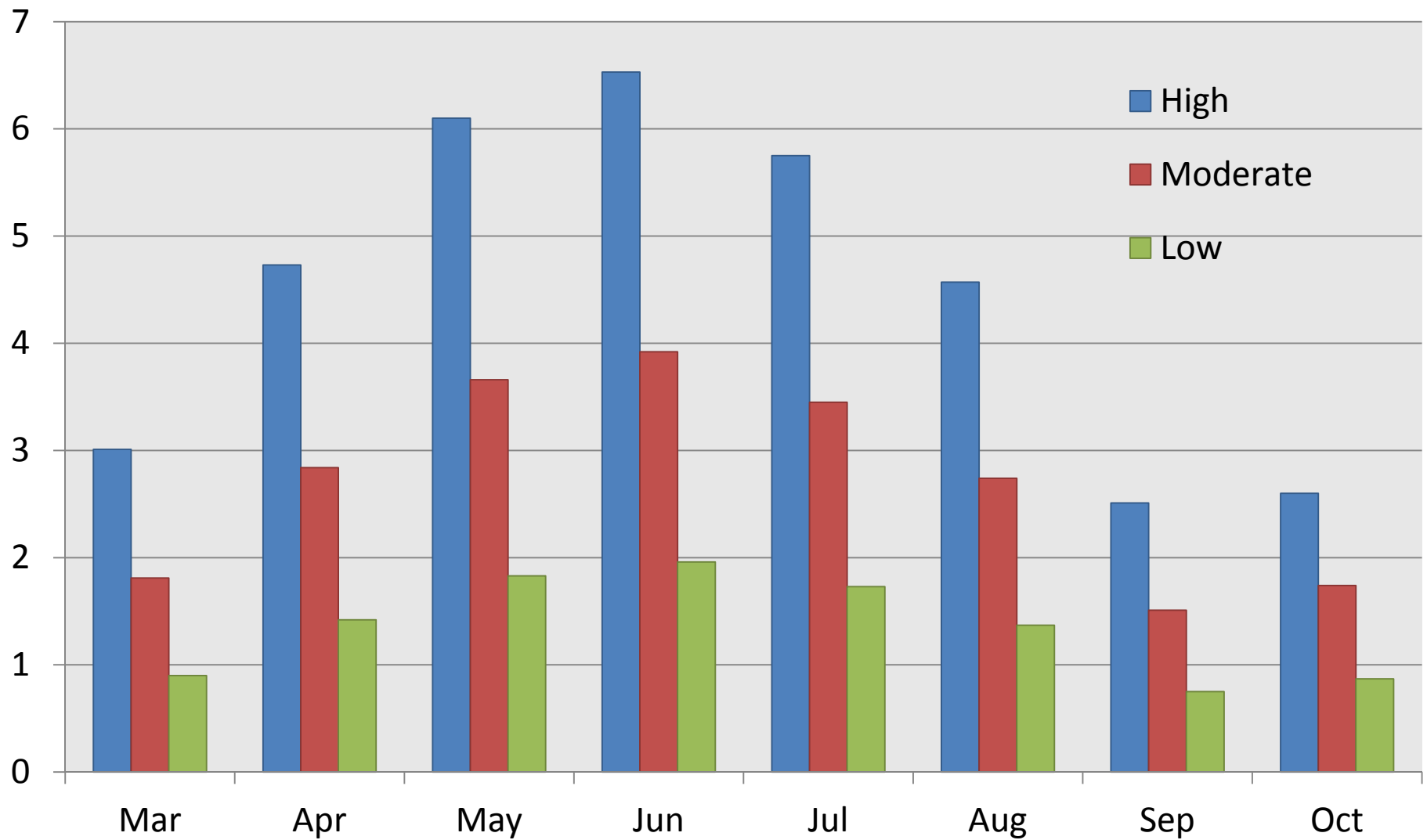


ROI Calculator

- Technical education
- Help prioritize sites for upgrades
- Identify potential expense reductions
 - O&M and Capital
- Facilitate communication among stakeholders
- Provide a financial analysis for landscaping and water management



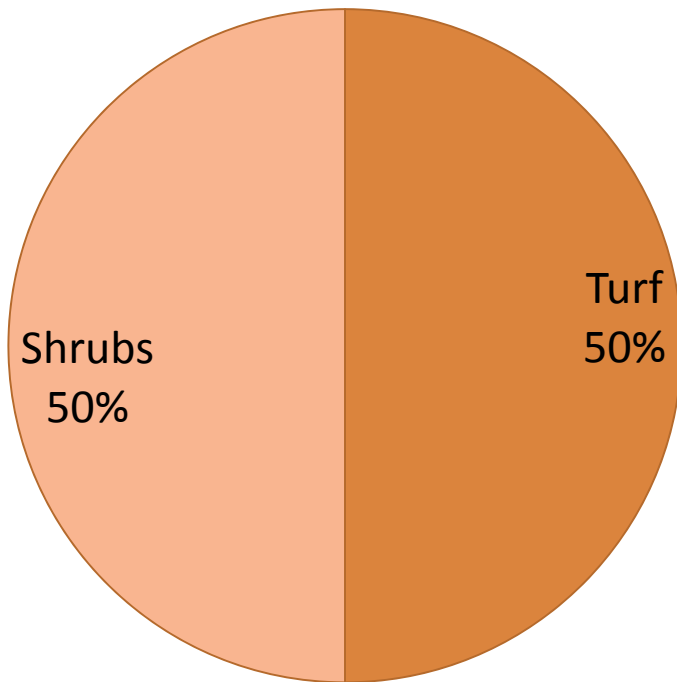
Fundamental Concept #1: What



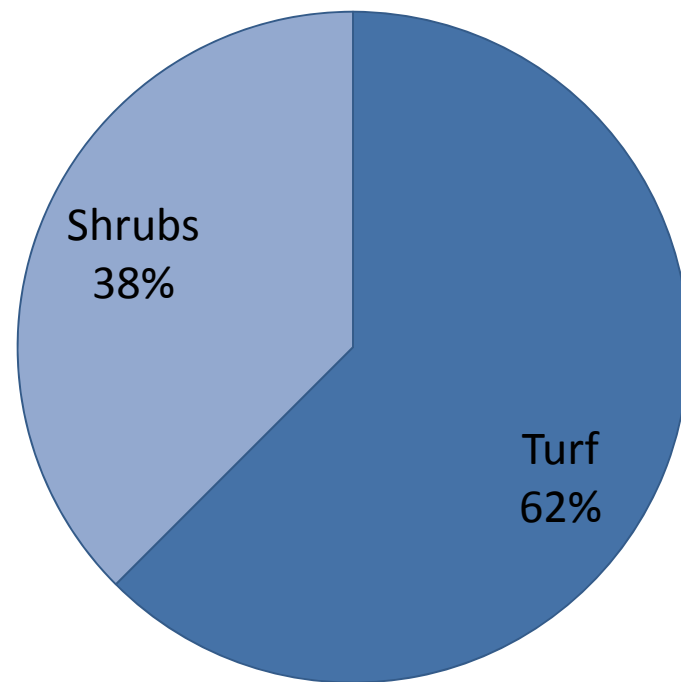
Fundamental Concepts #2: Where

- Identify how much H₂O consumption is attributed to the upgraded area

Square Feet of Landscape



Water Usage

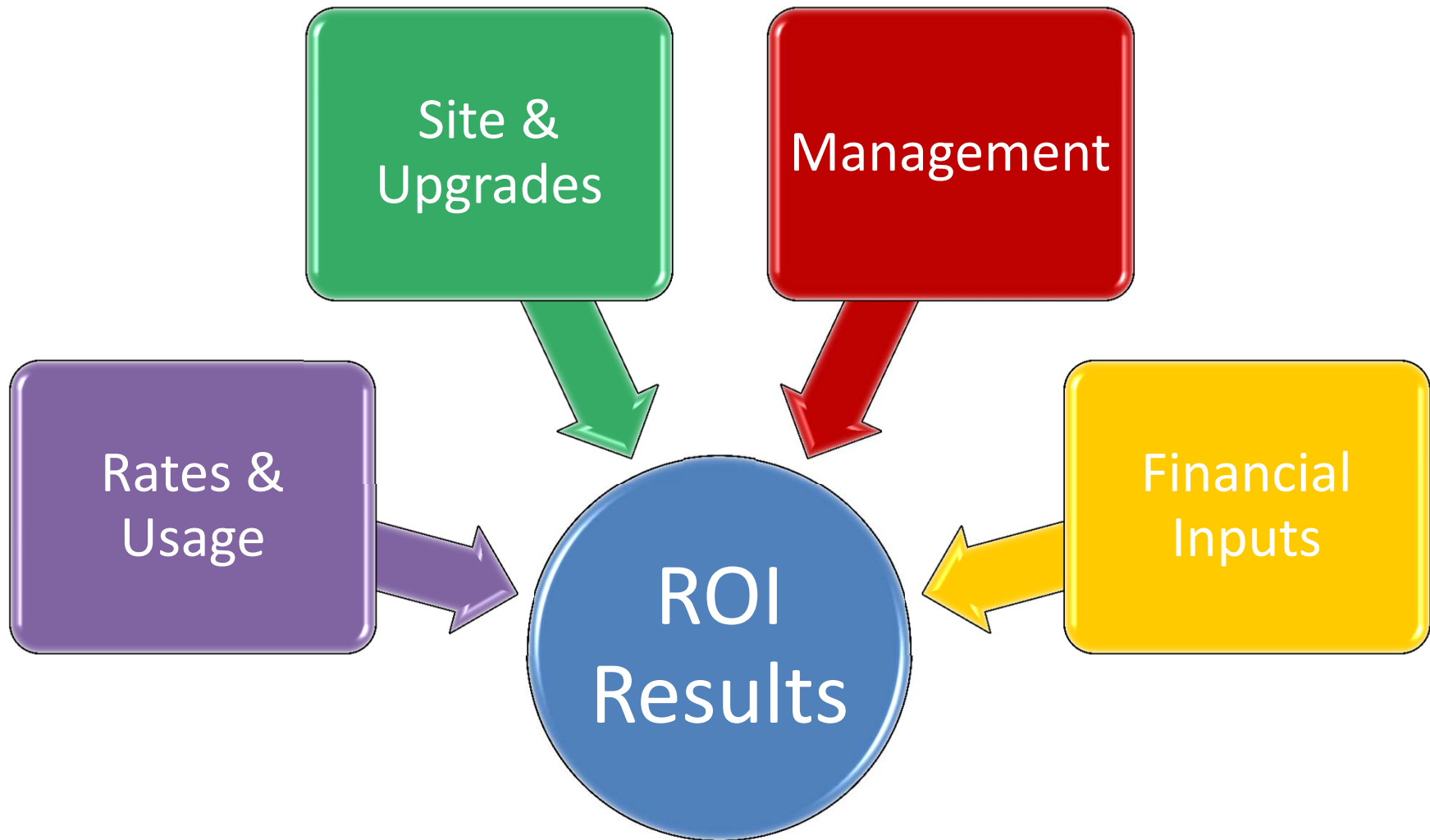


Fundamental Concept #3: How

1. Reduce Site Water Requirement
2. Increase Irrigation System Efficiencies
3. Improve Management Practices



Step through the calculator



Take Control of Your Sprinkler System!



WEATHER-BASED IRRIGATION CONTROLLER REBATE PROGRAM: Take control of your sprinkler system by installing a weather-based irrigation controller. These controllers use information about your plants, soil, and weather conditions to give your landscape the right amount of water.

Current Rebate Level: Single-Family Residences: Up to \$425 per residence; Multi-family Residents and Businesses: \$25 per station (up to timer capacity)

ROTATING NOZZLE REBATE PROGRAM: Reduce water runoff and overspray by replacing your sprinkler heads with water-efficient rotating nozzles. Rotating nozzles water more evenly and uniformly, and they can reduce your outdoor water consumption by up to 30%.

Current Rebate Level: \$4 per nozzle.

For more information:

Visit www.mwdoc.com/services/smart-irrigation

Single-family residents, call (888) 376-3314

Multi-family residents and businesses, call (877) 728-2282

RECLAMATION
Managing Water in the West



The Family of Orange
County Water Agencies





Receive money back when you upgrade to "smart" technology that fully automates landscape watering, based on the weather and water needs of your plants.

Smart Timer Rebate Program

- Provides rebate incentives to install automated self-adjusting weather based irrigation controllers (Smart Timers)
- **Commercial Smart Timer Rebate Levels:**
 - **\$25/station up to clock capacity**





Rotating Nozzle Rebate Program

- Distribution Uniformity Improvement Incentive
- Replacement nozzle for spray heads
- Save 6,600 gallons per nozzle over 5 years
- **Rebate per nozzle = minimum \$4**
 - depending on retail water agency
- 15 nozzle minimum per site for common areas (commercial)



Turf Removal Rebate Program



- Turf removal with replacement by California Friendly plants and permeable surfaces
- **Rebate amount**
 - **\$0.30 to \$1.00 per square foot**
- Water savings are estimated at 44 gallons per square foot per year
- For more information visit:
 - www.mwdoc.com/services/turf-removal



Need Help?

- **Technical Assistance**
 - Numerous technical worksheets, templates, and horticultural resources to facilitate implementation.
- **Technical Resources:**
 - Weather-based Irrigation Budgeting Program
 - Weekly Water Meter Logs
 - Valve Data Spreadsheets
 - California-Friendly Plant Lists



Questions?

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