

Understanding Site Conditions and Customer's Perspective When Implementing Smart Irrigation

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Presented By: Loc P. Truong, P.E.



Overview

- Evaluating Site/Field Conditions
- Critical Factors for Effective Implementation of Smart Irrigation
- Monitoring and Adjustments
- Customer's Perspective/Buy-in By the Customer



Evaluate Site Conditions

1. Geographic Location

- Florida
- California
- Texas

2. Soil Conditions

3. Landscape Type

- Typical Landscape (turf grass > 60% of landscape)
- Water Efficient Landscapes (i.e. Florida Water Star Landscape, turfgrass < 60% of landscape)
- Xeriscape



California



Florida Water Star Landscaping

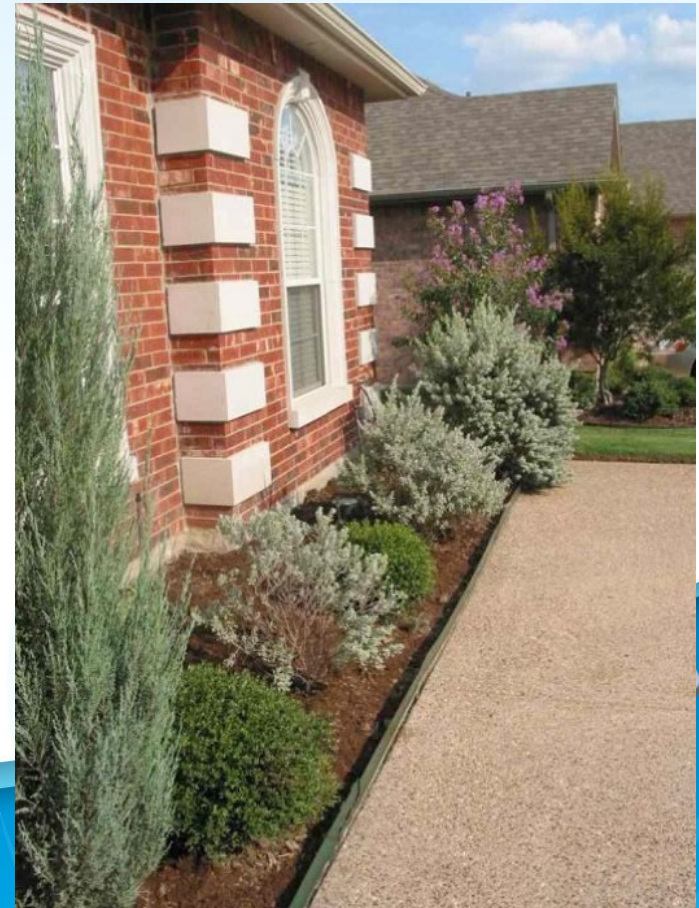


Xeriscaping with Plants Native to the Area



California Xeriscaping

Texas SmartScape Gardens



Colorado Xeriscaping







Critical Factors for Effective Implementation of Smart Irrigation

Considerations:

1. Zone Layout / Uniformity
2. % Coverage/Improper Coverage
 - Repair/relocation of spray heads or rotors may be required
 - Determine Application rates
3. Weather/Climate Conditions
 - Temperature variations
4. Gradient/Slopes in Certain Zones
5. Plant Type/Root Zone
6. Full Sun/Shade Cover



Monitoring and Adjustments

1. Monitor Landscape
 - Stressed conditions
 - Saturated conditions/Over-watering
2. If soil moisture sensor based system
 - Adjust moisture setpoints
3. If weather based system
 - Adjust parameters (crop coefficients)



Customer's Perspective on Smart Irrigation

1. Make it Simple/Ease of Use
2. Customer Friendly Installation Guidelines/Support
3. Provide means to easily adjust irrigation controls
 - User friendly interface, Web portal or similar
4. Provide guidance and instructions
 - Operations and maintenance
 - Setting of parameters (crop coefficients, moisture setpoints)
5. Accessible user support “hotline/helpline”
6. Provide means to retrieve data
 - To determine effectiveness of system



Questions?

- Contact: Loc Truong
Water Optimizer, LLC
4921 Memorial Hwy.
Tampa, FL 33634
P: 866-880-4030
F: 866-657-3665
ltruong@wateroptimizer.com

