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

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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

www.Water-Optimizer.com
Florida Water Star Landscaping

Stewardship starts at home.

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Xeriscaping with Plants Native to the Area

Texas SmartScape Gardens

California Xeriscaping

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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

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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

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Questions?

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