LA StormCatcher: Piloting the Potential of Residential Capture

Southern California Water Committee Stormwater Workshop October 11, 2017

IS SITE USES CISTER

PUBLIC WORKS

## A project of









## Facilitated by





#### **Business as Usual...**





### **The Vision Emerging**





# WaterWaterFloodSupplyQualityControl

### **The Vision Emerging**





WaterWaterFloodSupplyQualityControl

#### **Residential Parcel Scale**





#### **Residential Parcel Scale**





### Street-Scale





### **Regional-Scale**





#### REEPEOPLE **All Scales Connected and Networked TETRA TECH** Continuous Monitoring & Control Enables: Maximum Cobenefits • Strategic, Tactical O&M •Streamlined Reporting **Treatment Facility** Distribution Network for Use Indoor Use Irrigation Irrigation TE TETRA TECH **Parcel-Scale Cistern and Bioretention Green Streets Monitoring and Control Opportunities Regional BMP** To Ocean **Monitoring Opportunities** Water Flow **Spreading Ground** Water Flow for Use



## From Theory to Practice

#### **Pilot Sites**





Heights

1 2 Miles

0

A L Vermont

Square

TREEPEOPLE

0

0

TE TETRA TECH

Granada

Hills

Northridge

Reseda

Pacific

Palisades

Candidate Site

Communities

**Crenshaw 2** 



#### RTC Network Dashboard for Programmatic Management



#### TreePeople Global View



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# From Pilot to Scale



## **Metrics for Evaluation**

















### **Model System Development**







#### How Much Impervious Area Could We Treat?





#### How Much Could Water Demand be Augmented?





#### How Could Water Quality Be Improved?







Average Regional Long-Term Storage for Full Implementation: up to 350 Million Person-Days of Emergency Water On-Hand or Enough to Sustain LA County for One Month