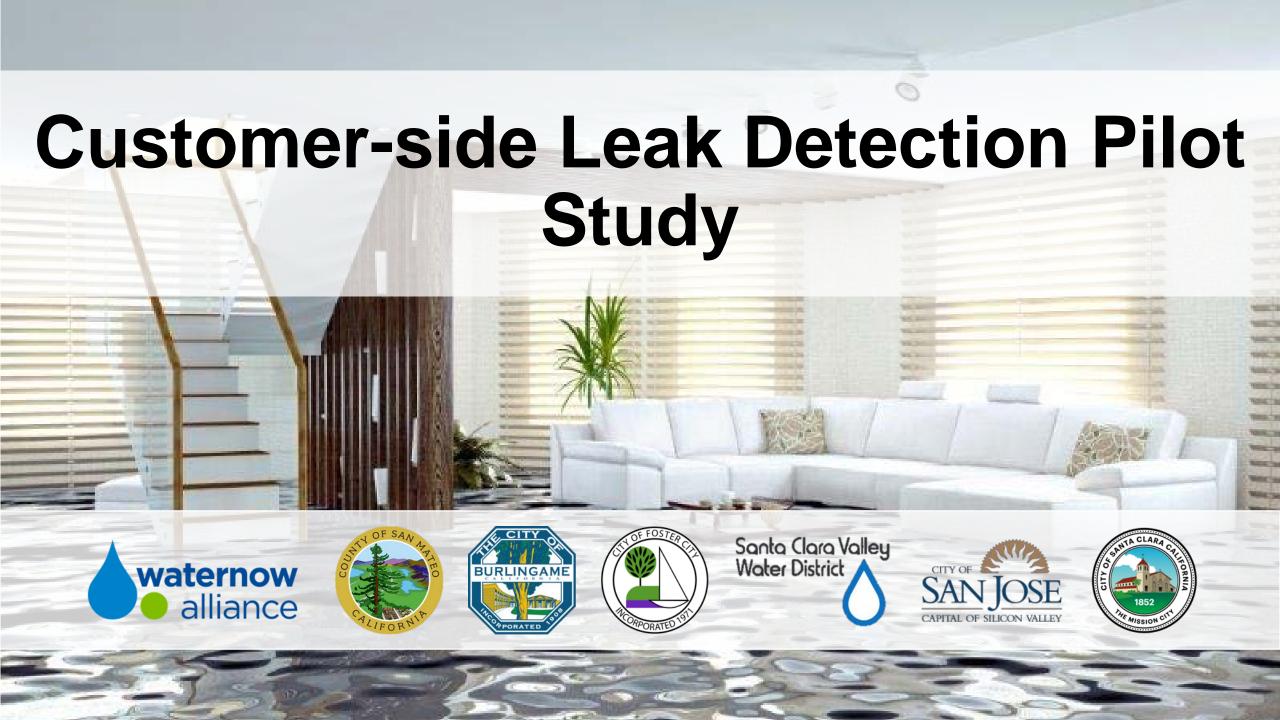
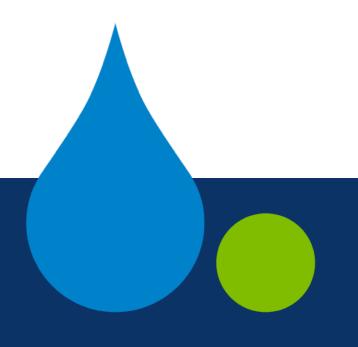
This presentation premiered at WaterSmart Innovations

watersmartinnovations.com





ABOUT WATERNOW



WaterNow Alliance is a forum for local water leaders who want to champion sustainable, affordable and climate resilient water strategies

What's the challenge?

Leak Detection

- On average, 12% of household water use is lost to leaks
- Often, the first sign of a problem is an abnormally high water bill

Access to the Info

- Water bills often come once a month or bi-monthly
- Bills provided in units not typically understood by customers (e.g. ccfs)

Customer-side Leak Detection Devices

Moisture Sensors

 Strategically placed around the home to sense moisture and send alerts



Meter Flow Sensors

- Attached to the water meter
- Monitors the register on the meter
- Transmits signal to customer



In-line Flow Monitors

- Installed on the water supply line to monitor flow and send leak alerts
- Remote shutoff capabilities



In-line Flow Monitors





- 1. Real time water use
- 2. Disaggregating water use
- 3. Units we all understand

Study Goals

Characterize the typical water savings – **both**from leak detection and conservation – that a
customer experiences following installation of
one of these devices.

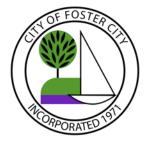
Pilot Study



Funders







Partner Cities





80 devices in single-family homes

80 control group households

1-year study

Random
Control Trial
Method



Apply now for your chance to receive a

WaterNow Alliance, together with its partners, is seeking participants for a study of next generation leak detection devices. Single-family homeowners living in Foster City, Burlingame, San Jose Municipal Water System, and Santa Clara are eligible to apply today!



Smart Apps Make a Smart Home

Access real-time water use, receive leak alerts, and shut off the water to your home all from your phone.



Save Water and Money

Use real-time water data and set conservation targets to identify water and money saving opportunities to lower your bill.



Apply Today

Apply for your chance to participate in a leak detection pilot study and receive a free leak detection device with installation. If you are selected, the device is yours to keep!

Visit: bit.ly/LeakDetectionPilotStudy













Recruitment



Participate in a leak detection pilot study! Single-family homeowners living in Foster City, Burlingame, San Jose Municipal Water System, and Santa Clara are eligible to apply today.



Smart Apps Make a Smart Home

Access real-time water use, receive leak alerts, and shut off the water to your home all from your phone using next generation technology.

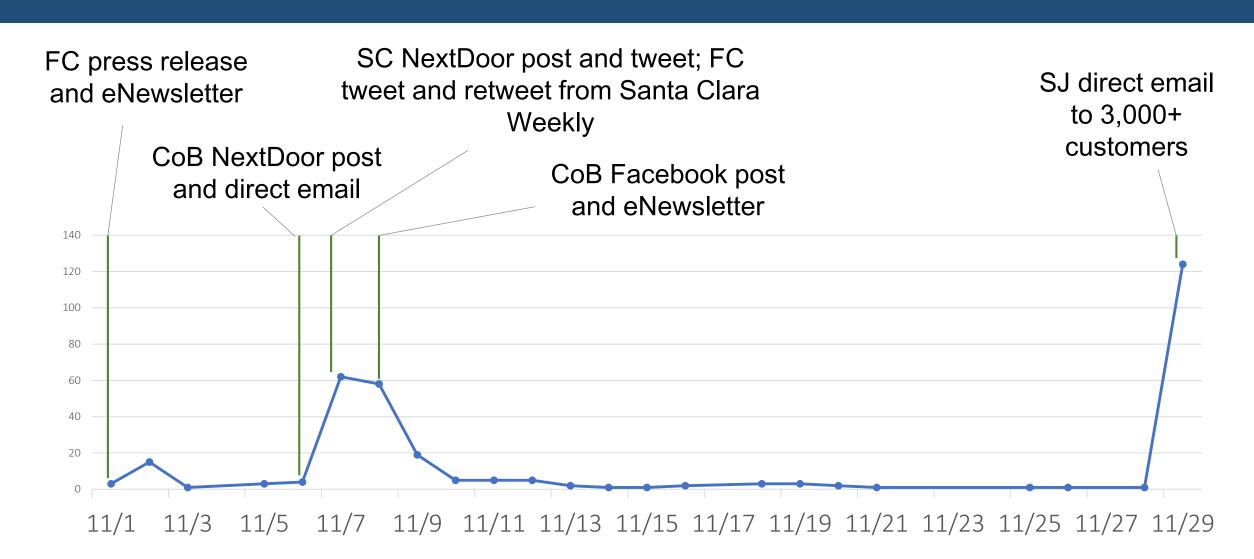


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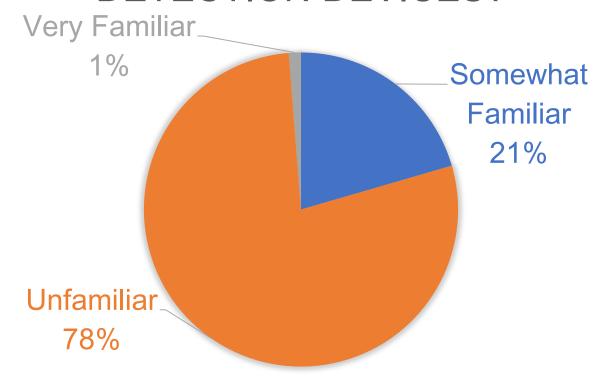
bit.ly/LeakDetectionPilotStudy

Recruitment



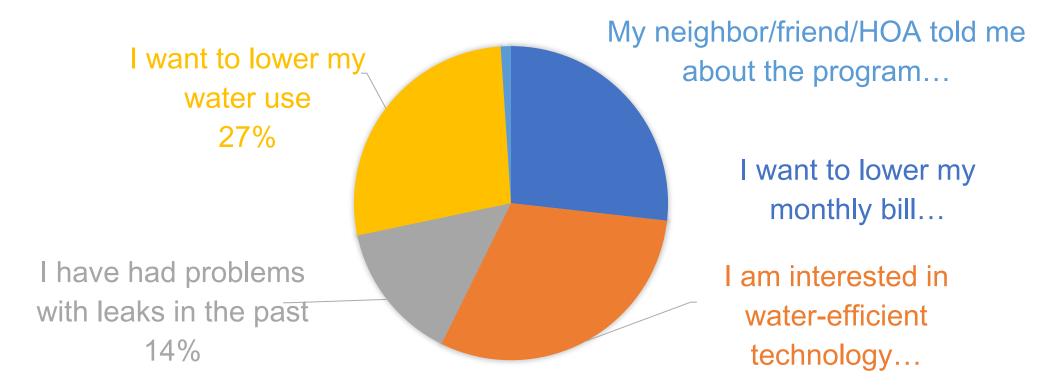
Recruitment

HOW FAMILIAR ARE YOU WITH LEAK DETECTION DEVICES?

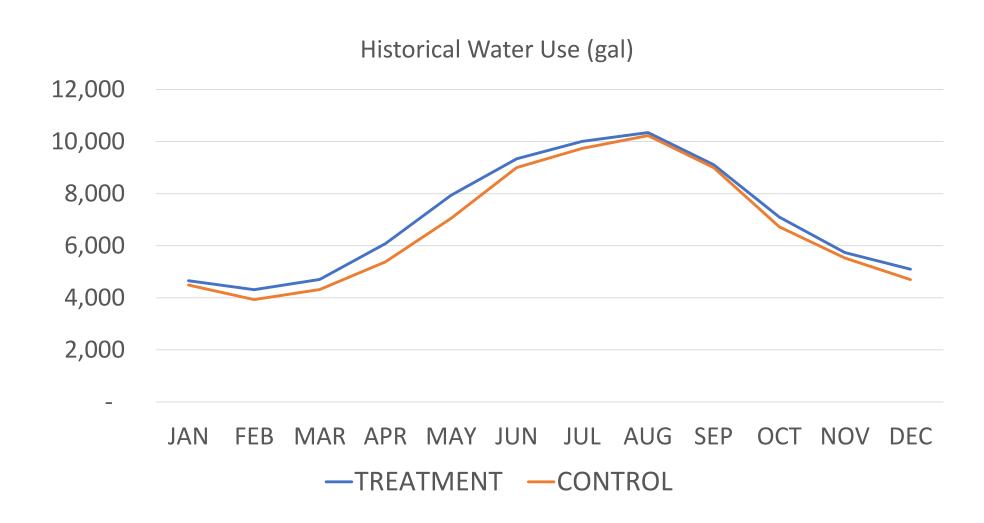


Recruitment

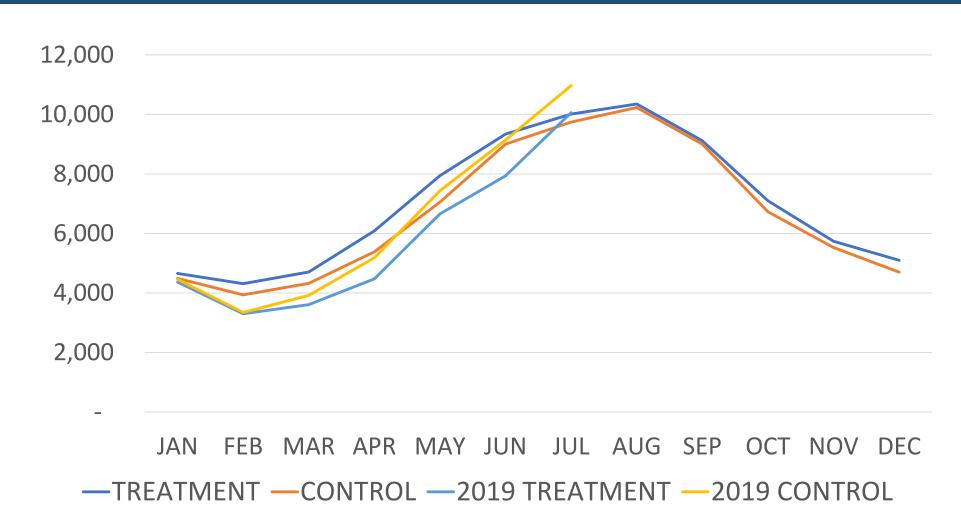
WHY ARE YOU INTERESTED IN APPLYING FOR THE PILOT STUDY?



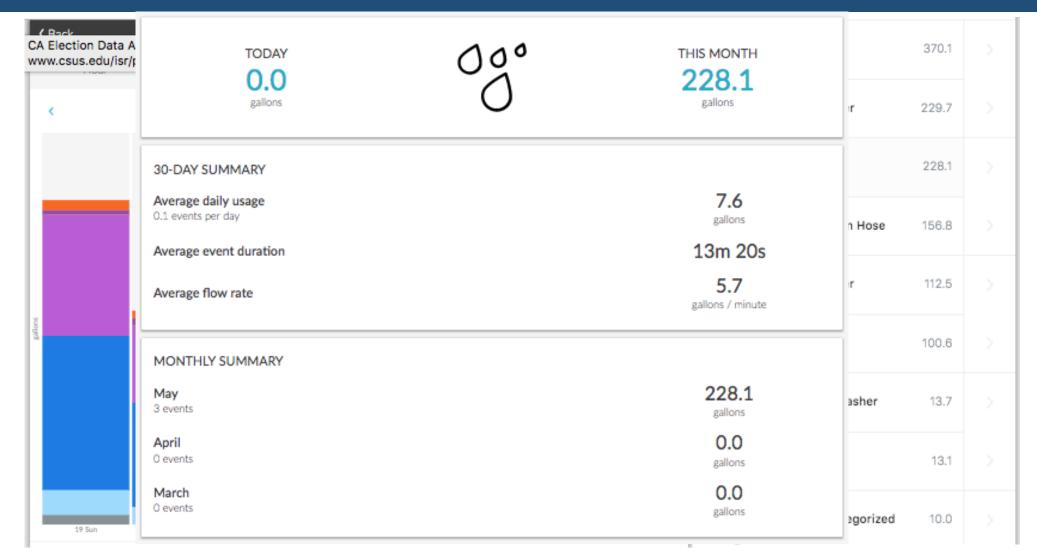
Pilot Study



Preliminary Results



Preliminary Results



Insights/Lessons Learned

- Free vs. nominal fee "skin in the game"
- Installer network recognizing value add to their business accelerates installs
- Streamline installation process
 - Verify installation compatibility
- Clear channel of communication of what is permissible for the cities

What about AMI?

- Real time water use vs 15 min to 1 hour delay
- AMI is cost prohibitive for many utilities
- Low sign up rate for AMI online portals (~3%-9%)
- Bridge to AMI
 - Early adopters/folks that want to conserve

