

SmartCover Systems April 12, 2017

About SmartCover Systems



- San Diego technology company
- Serving water industry with smart infrastructure and IoT
- 13th year of operations
- >3,000 installations, >140 million operating hours (16,000 years)
- 15 patents, US and international
- Solutions for:
 - SSO monitoring and prevention
 - Optimized cleaning: operational savings
 - Real-time CSO monitoring and reporting
 - Stormwater monitoring
 - I&I detection
 - Capital project prioritization





Our Mission



SmartCover Systems provides end-to-end real-time monitoring systems to our customers who benefit:

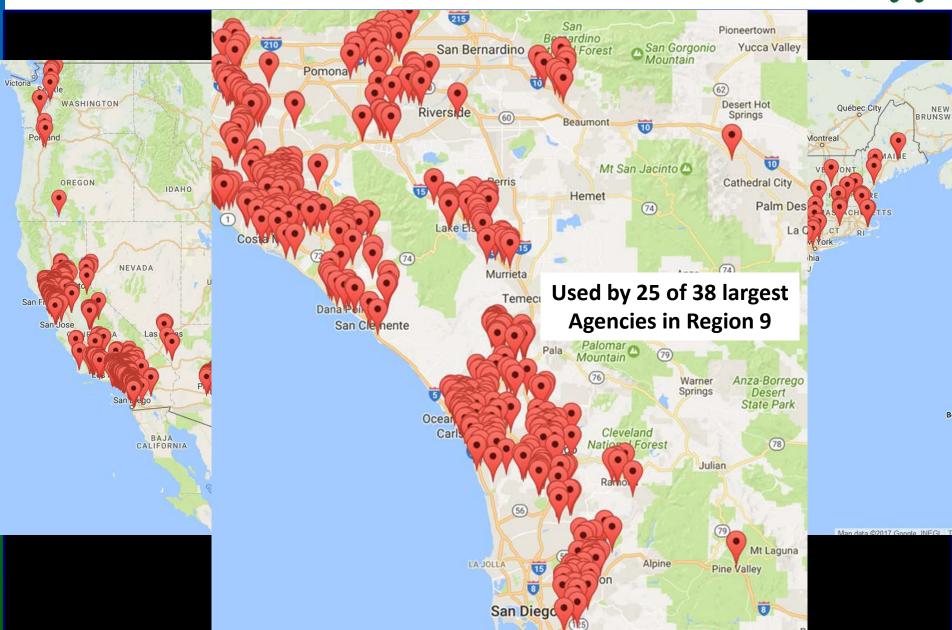
- Internally, through lower costs, improved performance and lower risk; and
- Externally, by safeguarding our water, public health and the environment.





Woseretarel Wee - Region 9

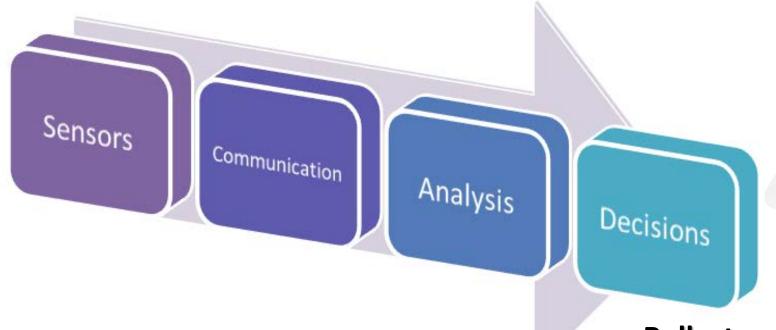




The Internet of Things



SmartCover® Integrated Solution Delivery Model

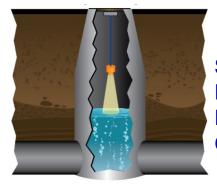


Technology enables
TRANSFORMATIONAL CHANGE

Roll a truck? Clean a pipe? Repair a pipe? Fix I&I?

How it Works





SmartCover : Remote Site
Direct to Satellite
Communication

Case Study: Hawthorne, CA



Eliminating Spills

- 2 Full-time field staff
- 90 miles of pipeline
- · 2,000 manholes
- 0 Lift stations
- ~ \$400K per year in fines PLUS clean up and litigation



Historical average spills/year - 10
Since installation of 50 unit monitoring system (11/06):

1 SPILL (at unmonitored location)

99% reduction of overflows

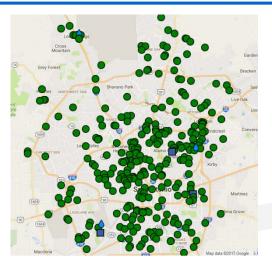
Estimated program savings: > \$2.5MM

Case Study: SAWS (TX)

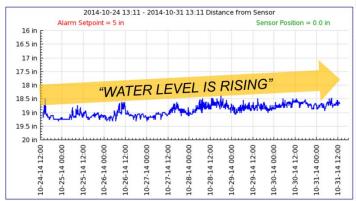


Saving Operational Expenses

- Pilot Question: Can technology reduce cleaning frequency & expense with no increased risk?
- SAWS' Pilot Set-up (8/15 through 7/16)
 - 10 monthly cleaning sites selected
 - Sites cleaned prior to start
 - SmartTrend™ trend analysis performed daily
 - Cleaning based on level trends only



PS 639 MH 11



94% reduction of cleaning (NO SPILLS)

Estimated program savings: \$3.1MM

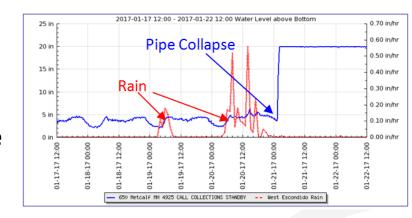
Case Study: Escondido



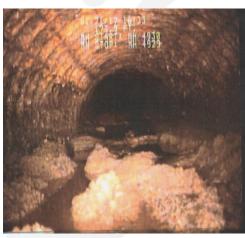
The Spill that Didn't Happen

- "Atmospheric river" storm, January 2017
- Inflow from storm prompts large line collapse





- SmartCover® positioned 5 MH upstream
- Detected anomalous level & alarmed
- City staff responded
- Performed near-term fix
- Pipe currently being replaced



NO SPILL

Estimated savings: "Millions"

Water World.

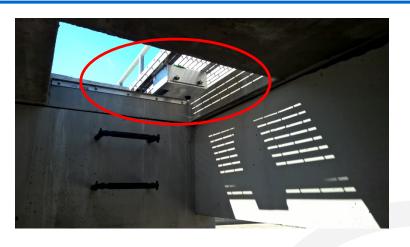
EDITORIAL SPOTLIGHT WEFTEC 2016

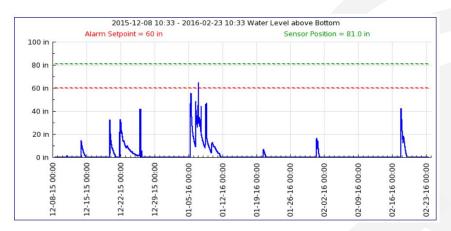
Urban Stormwater











Los Angeles CA storm water monitoring

Data used to verify nets and gates are properly operating

Solutions through Technology



Real-Time Continuous Monitoring Technology

- Is here and it works
- Allows transformational change, e.g.
 - 99% reduction in spills
 - 94% reduction in cleaning
 - = Millions in sayings for decaying infrastructure
- Operational savings
- Capital savings
- Lower risk
 - = A BETTER ENVIRONMENT

THANK YOU!