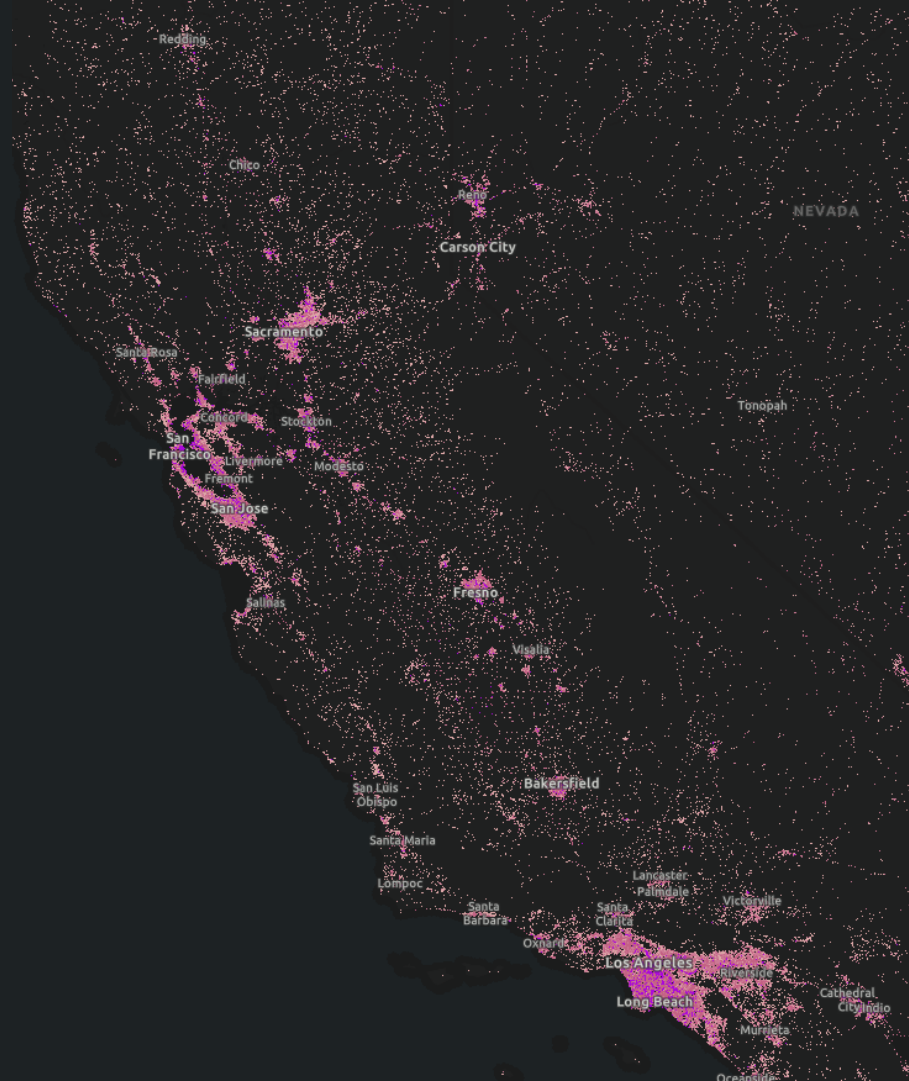


The Digital Transformation of Stormwater Programs

How To Be Ready for Changes Ahead

Stormwater impacts grow
as urban footprints
expand





Outdated Infrastructure

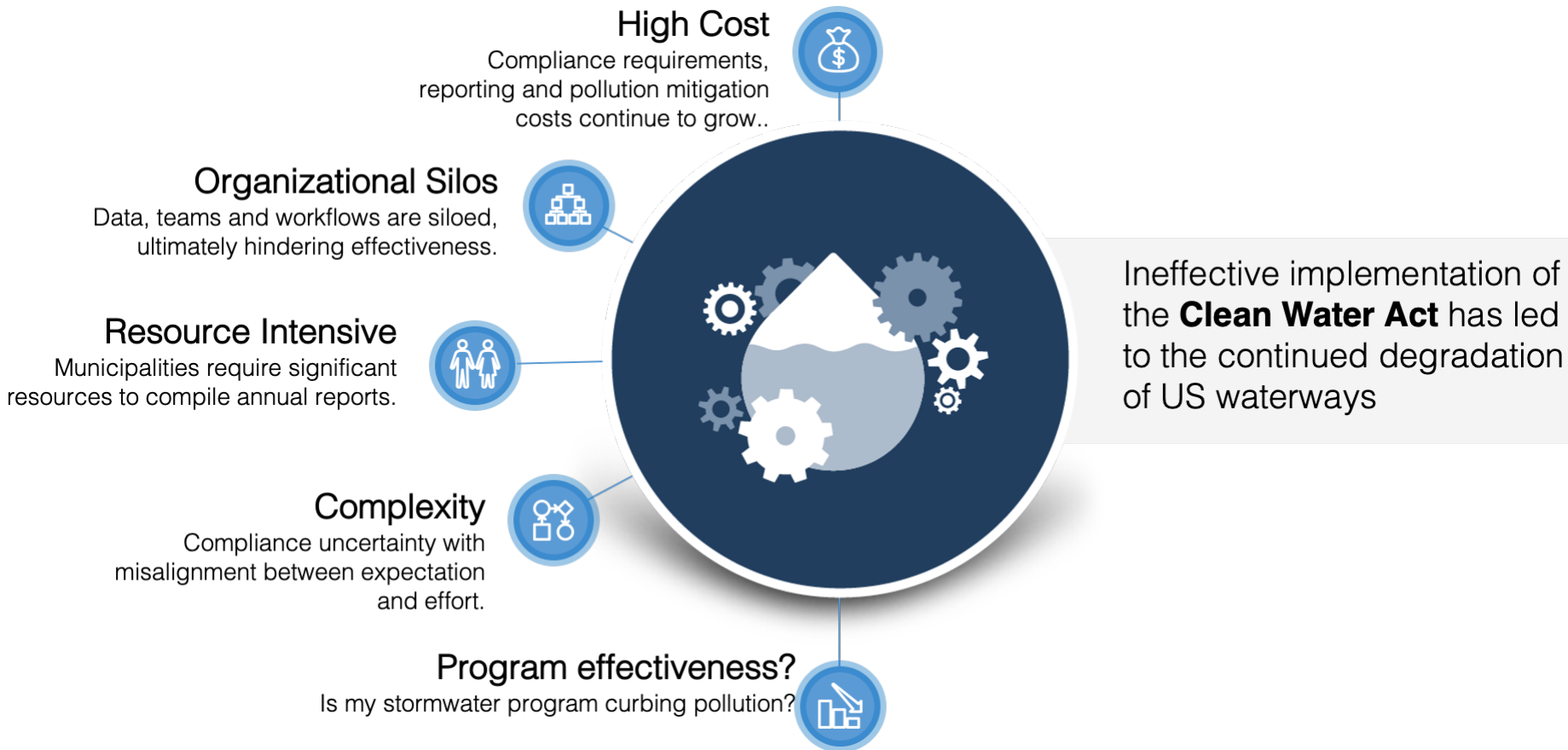


Illegal Dumping

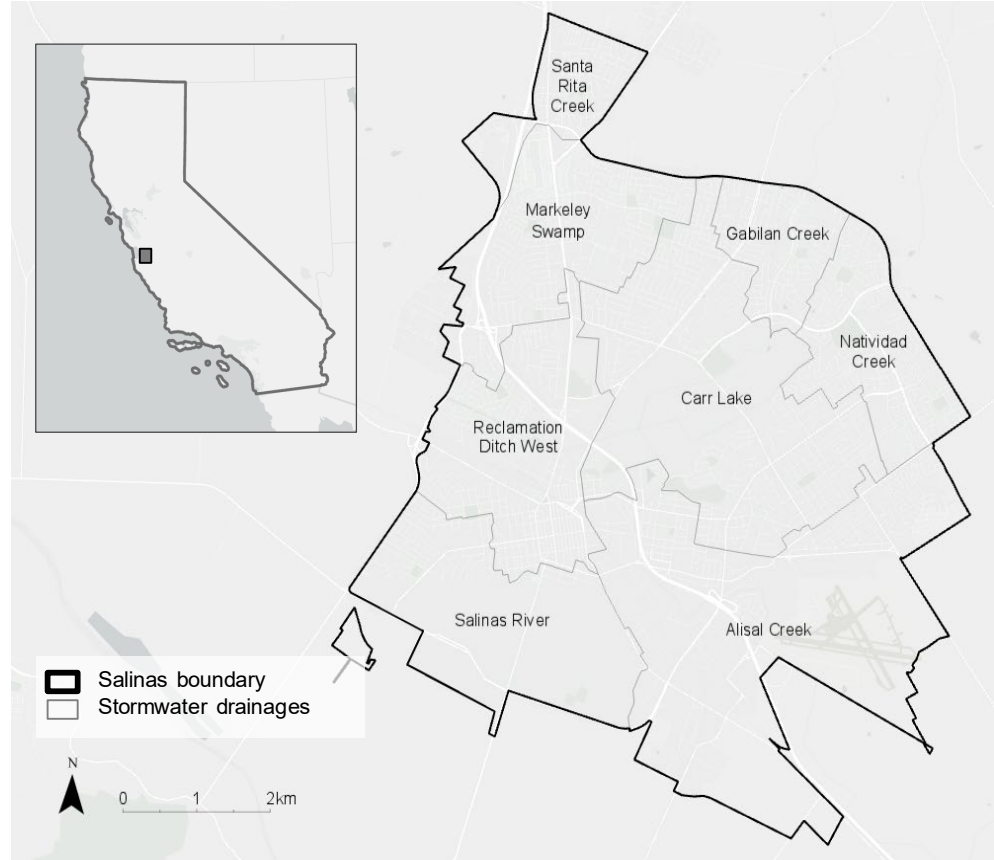


Increased Flooding

Stormwater Information Management is Broken



Case Study

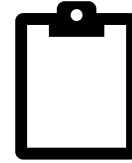


Case Study

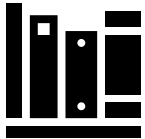
2014 EPA audit found program ineffective



Permit responsibilities scattered among multiple departments



Limited use of technology



Unimplemented plans – reports sat on the shelf

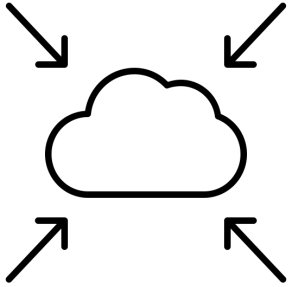


2,000+ pages and 1,000+ staff hours

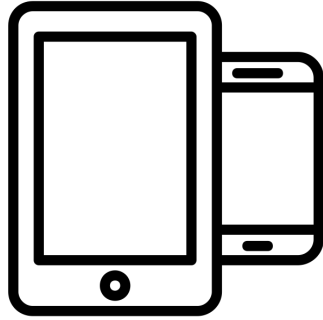
“Our annual report is where data goes to die”

–Salinas Stormwater Manager

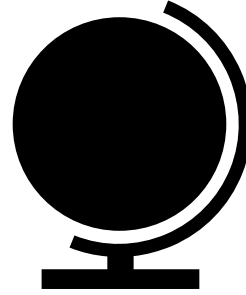
Case Study



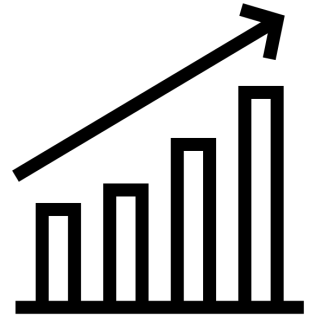
Centralize Program
Data



Mobile Inspection
Forms



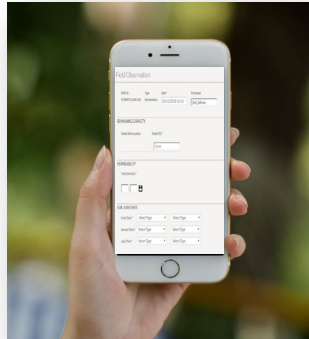
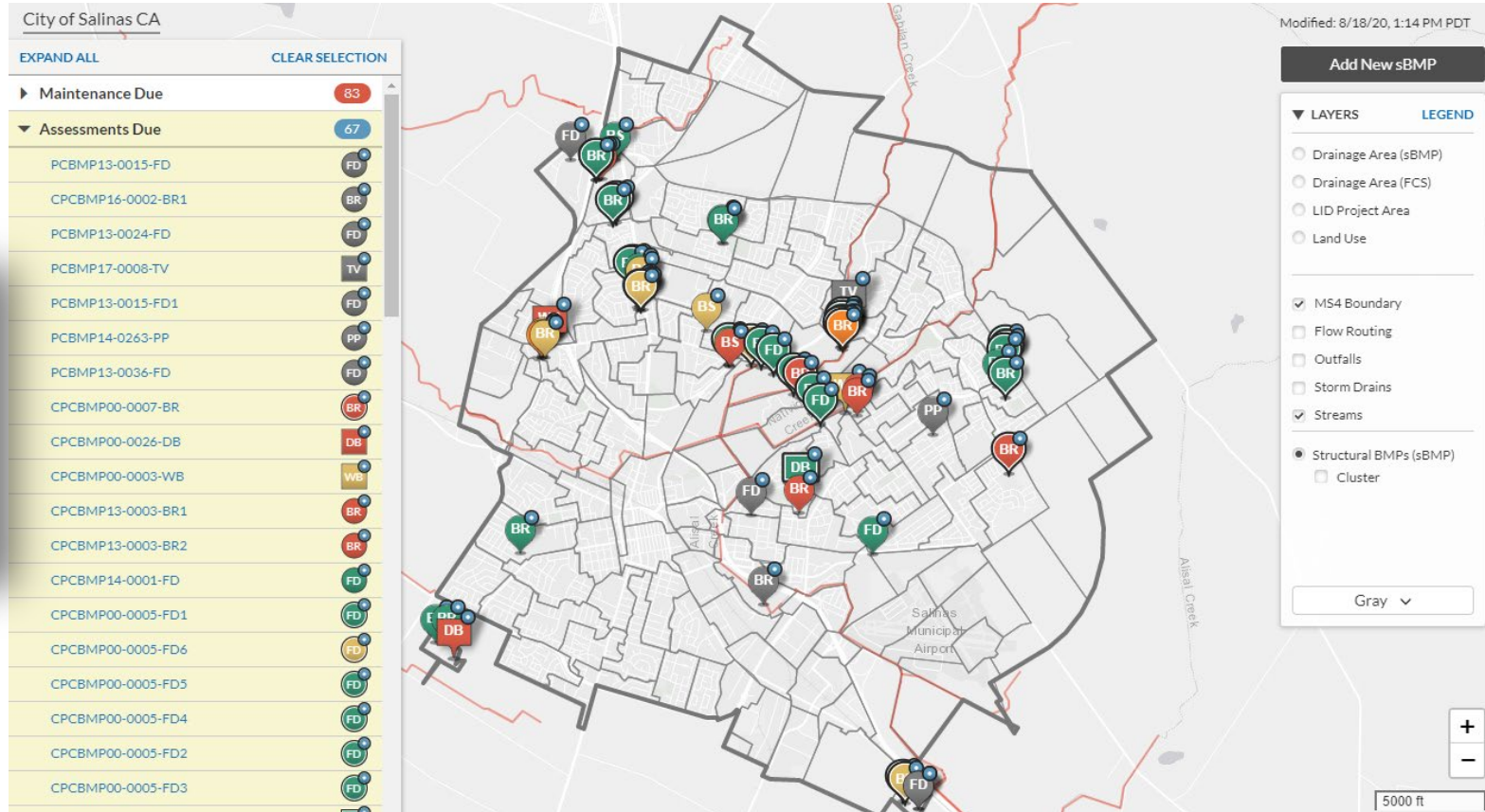
Geographic Context



Measure Program
Performance

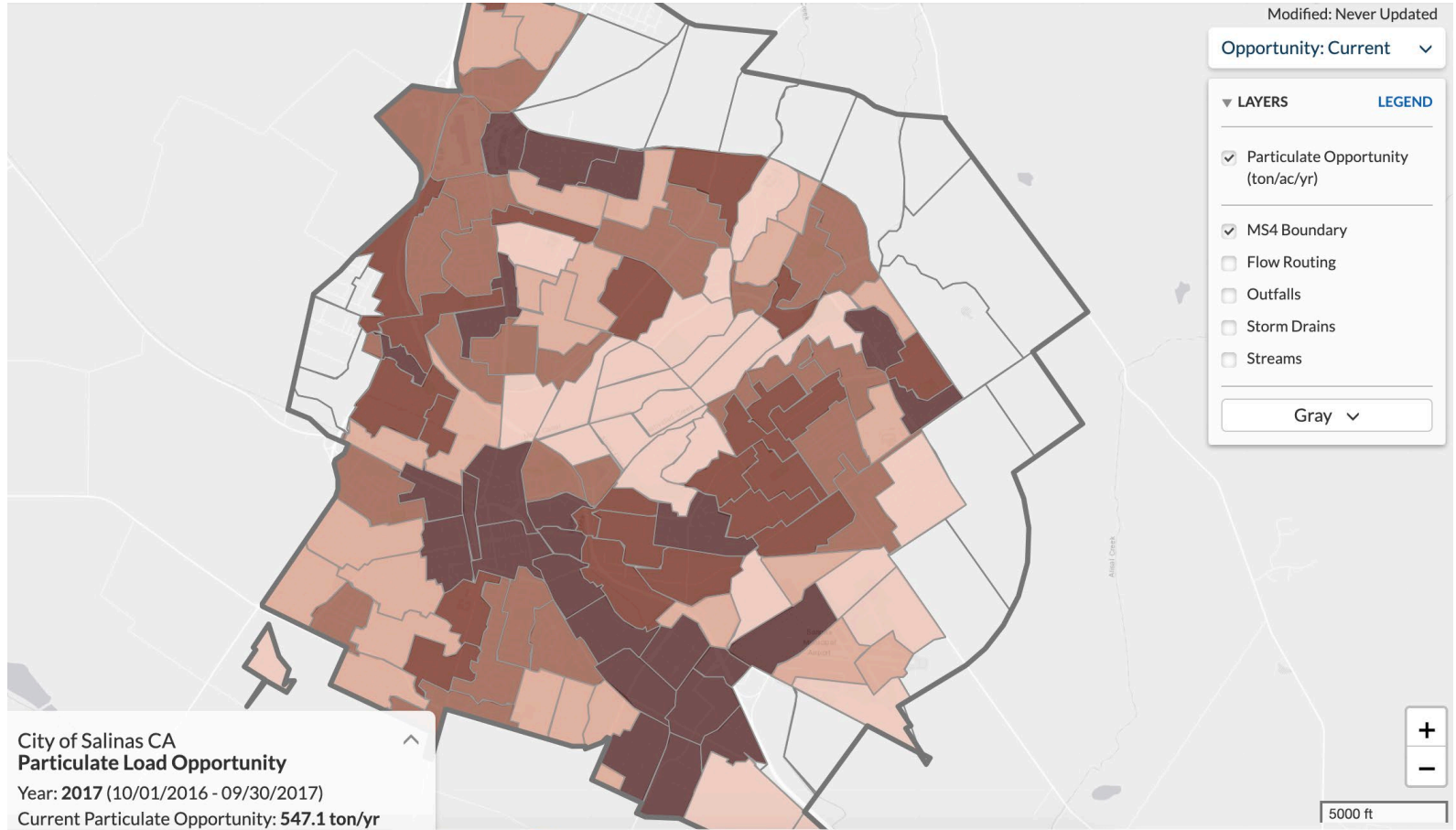
Case Study

Centralized



Case Study

Automated

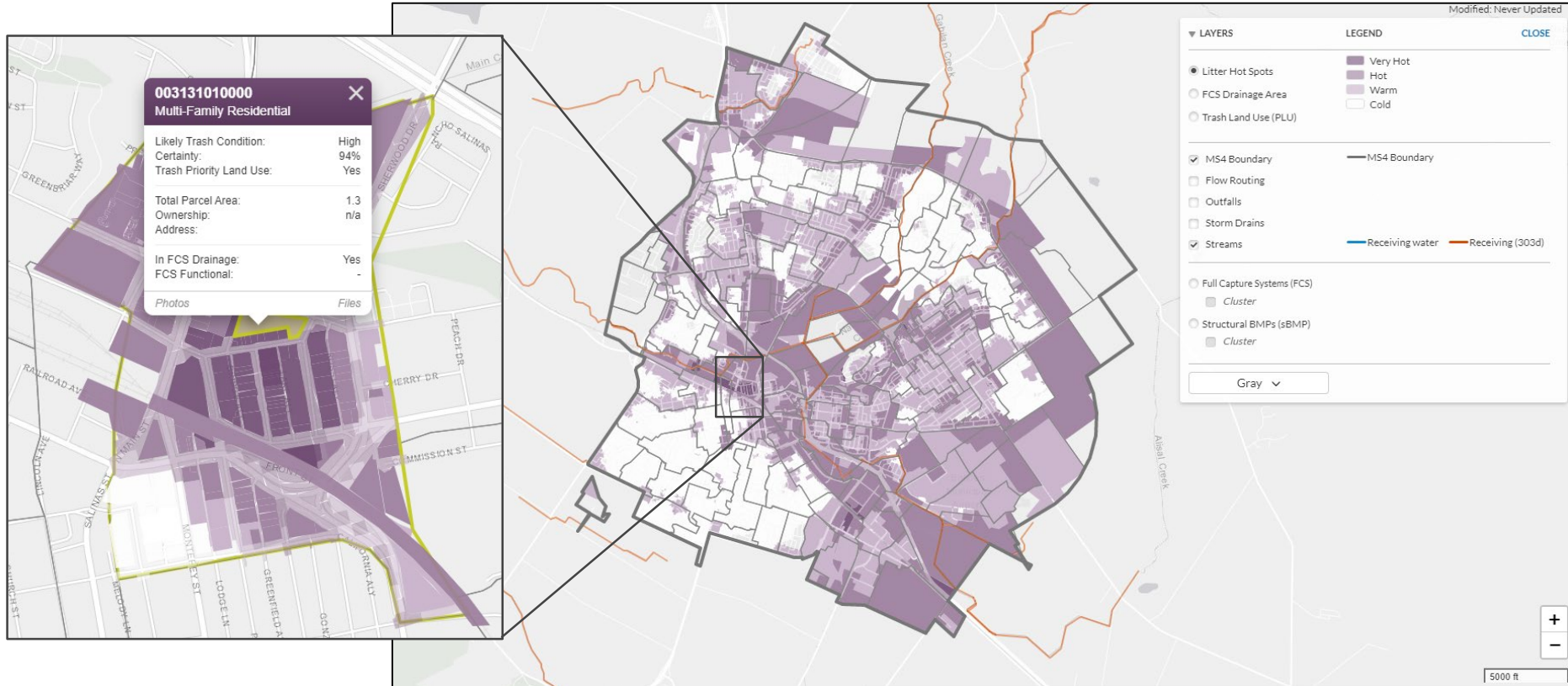


Case Study



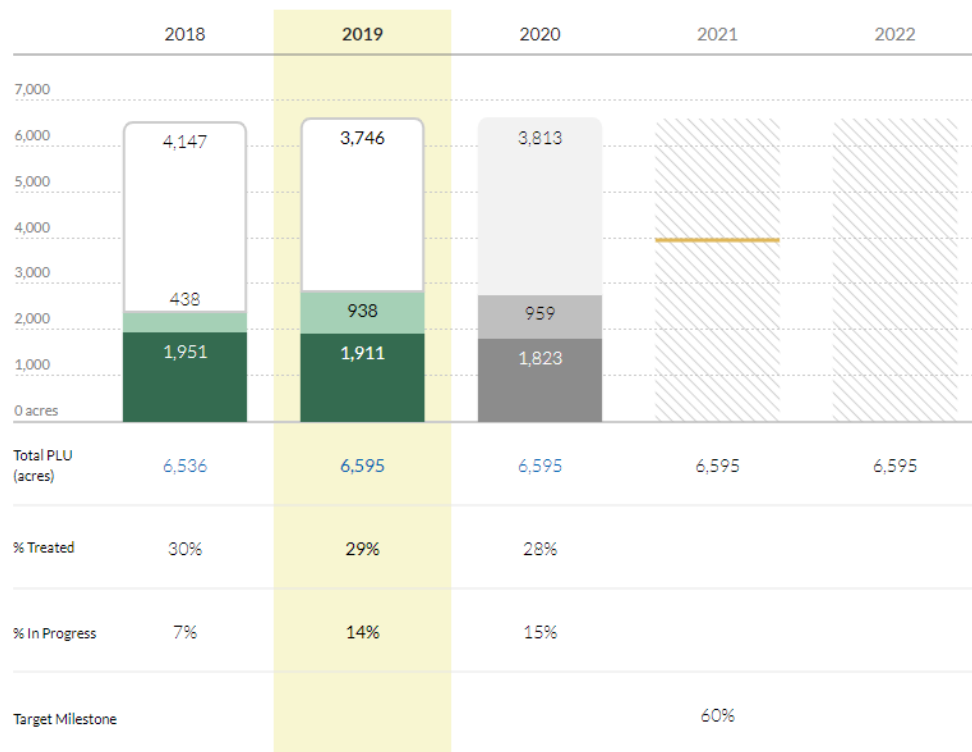
Case Study

Automated



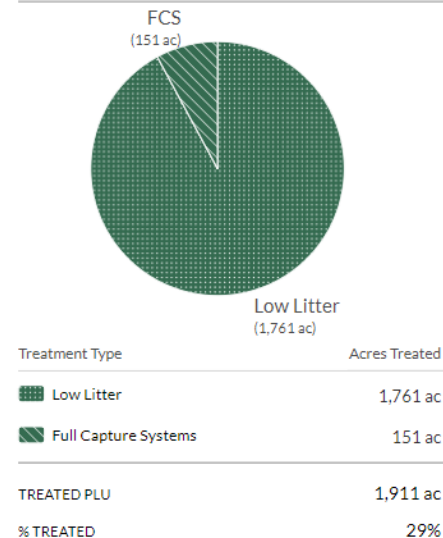
Track Program Progress

Aligned



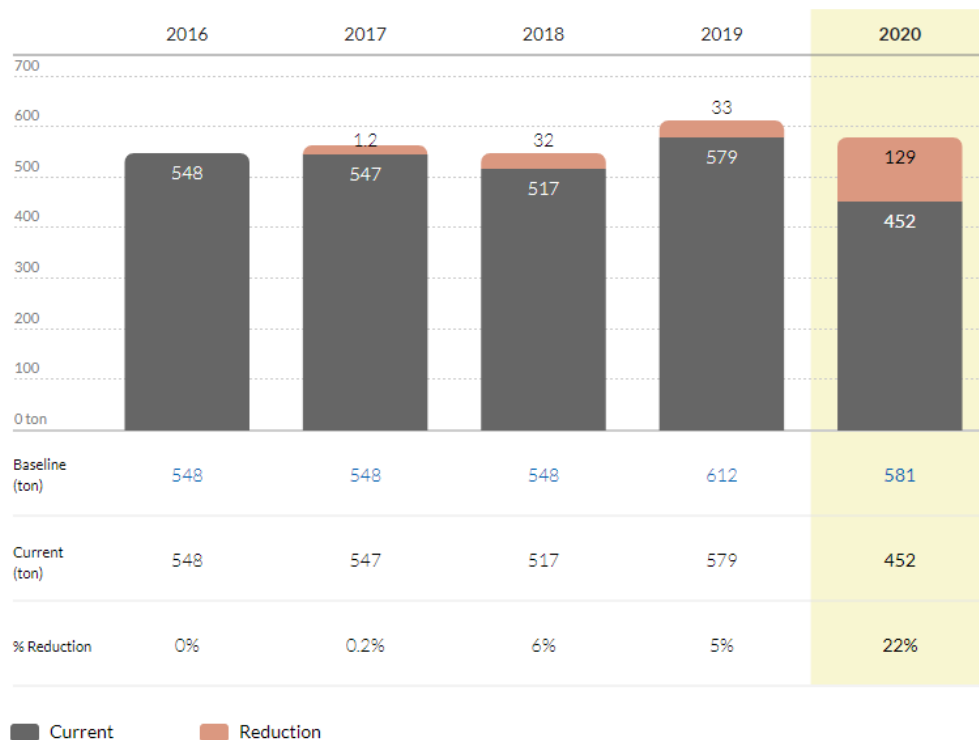
Treated PLU
 In Progress PLU
 Untreated PLU
 Target Milestone

2019 Acreage Reductions

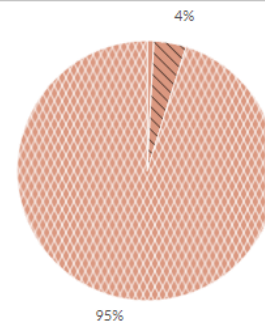


Track Program Progress

Aligned



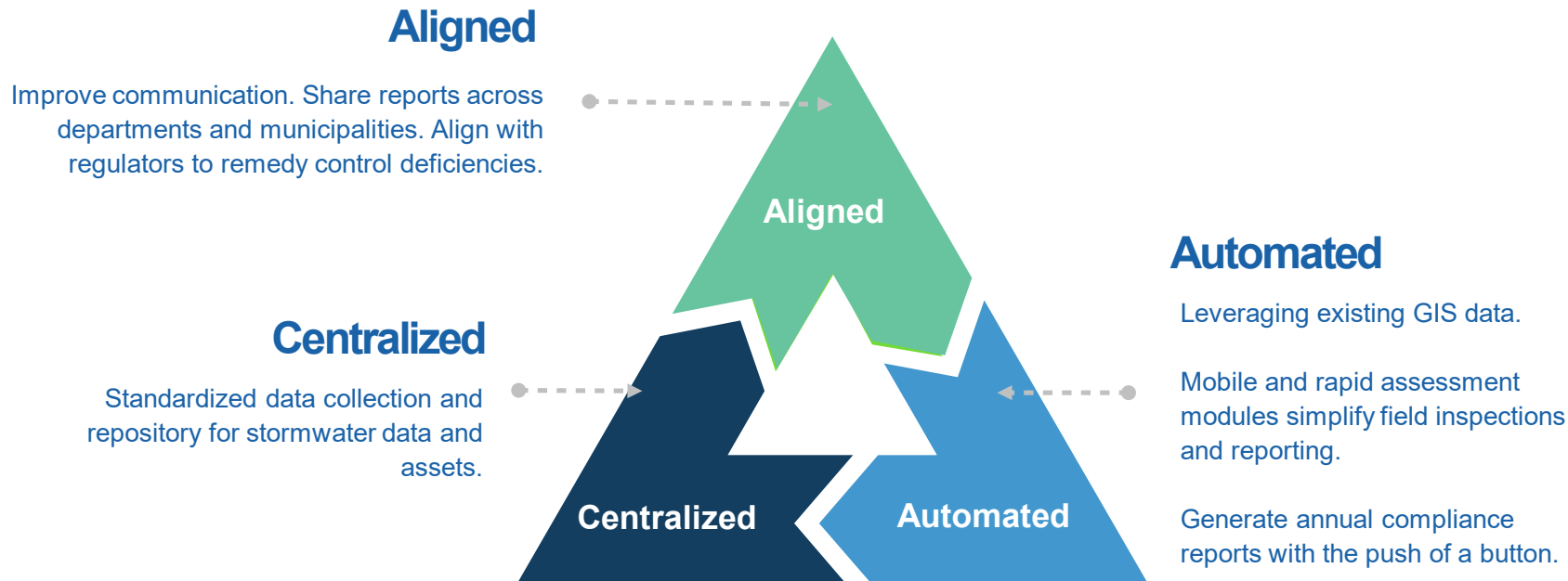
2020 Particulates Reduction



Particulate load reduction

129 ton/yr

Digital Transformation



Stormwater as a solution



1. **Examine solution trade-offs.**
2. **Be open-minded to change.**
3. **Operationalize institutional knowledge.**
4. **Going digital minimizes risk.**



Thank You!

