

SNAP™

Optimized SSO Risk Reduction

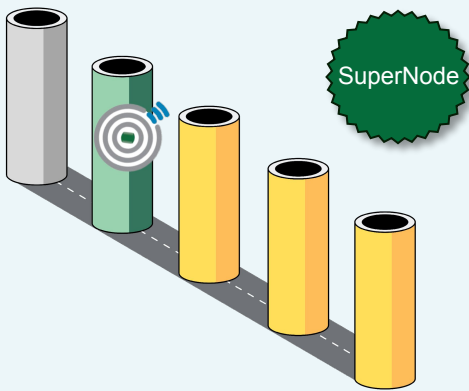
SNAP™ determines how many SmartCovers you need to reduce risk in your system.

SmartCover's Smart Nodal Analysis Protocol (SNAP)™ is a proprietary geospatial algorithm to **optimize sensor placement**. SNAP™ delivers **sanitary sewer overflow (SSO) reduction** without requiring 100% manhole coverage.

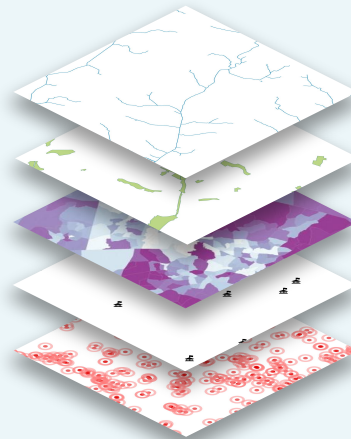
SNAP™ provides all the benefits of SNAP LITE™ to maximize coverage for your system **plus risk analysis to prioritize your highest risk locations**.

How it Works

1 Identify high-value locations (SuperNodes) through analysis of your system structure and connectivity.

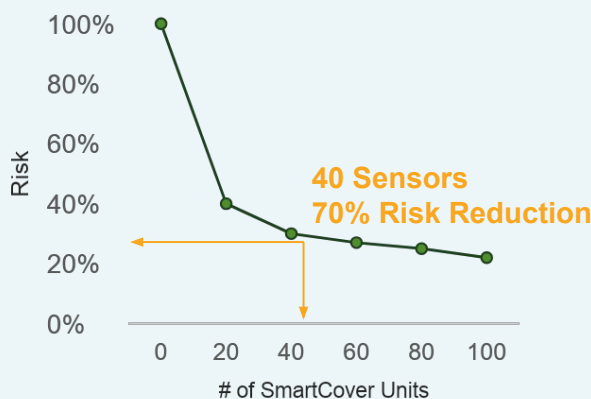


2 Locate high-risk areas by integrating probability and consequence factors.

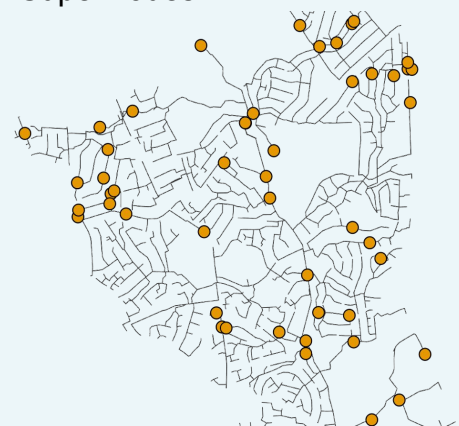


- SSO Incidents
- Cleaning Schedule
- Pipe Age
- Schools
- Green Spaces
- Waterbodies
- Hospitals
- Population Density

3 Plot the relationship between number of SmartCovers and risk to find optimal coverage.



4 Install sensors in highest value SuperNodes.



SNAP LITE™

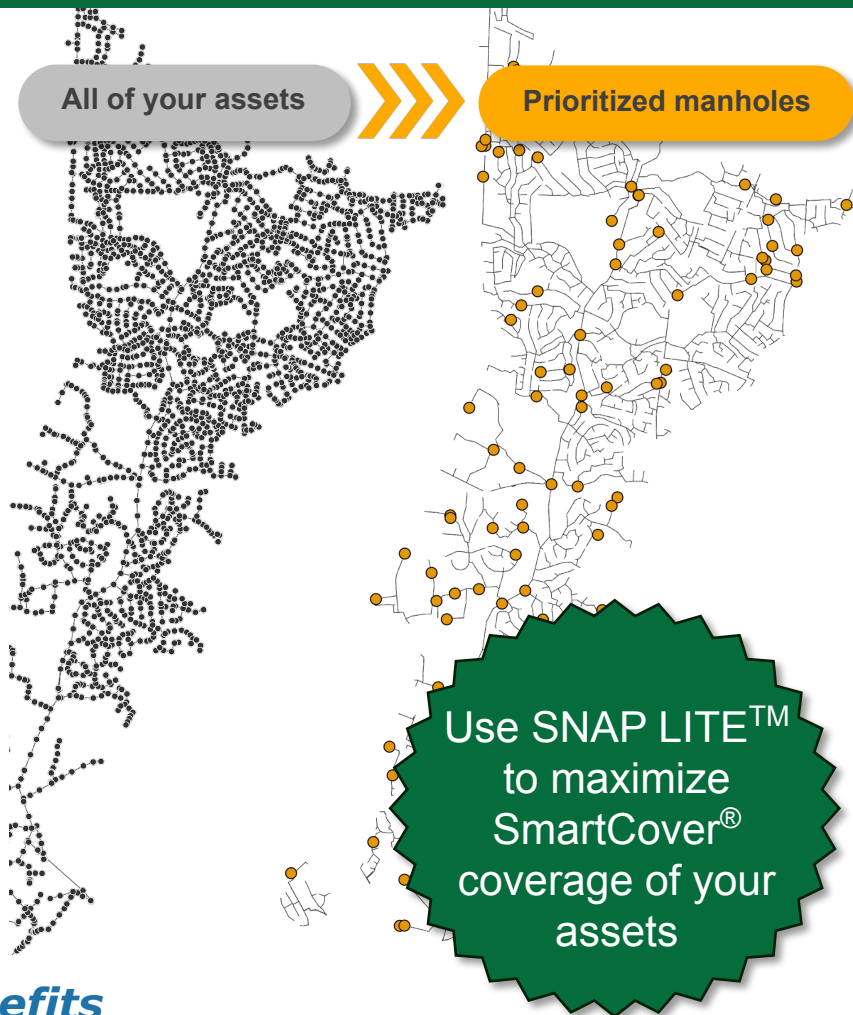
Optimized Sensor Placement For Your System

SmartCover's SNAP LITE™ is a proprietary geospatial algorithm to **optimize sensor placement** for maximum sanitary sewer overflow (SSO) reduction and cost savings.

How it Works

SNAP LITE™ uses your existing GIS assets such as pipes, manholes, and lift stations to **identify high-value locations (SuperNodes) for sensor placement.**

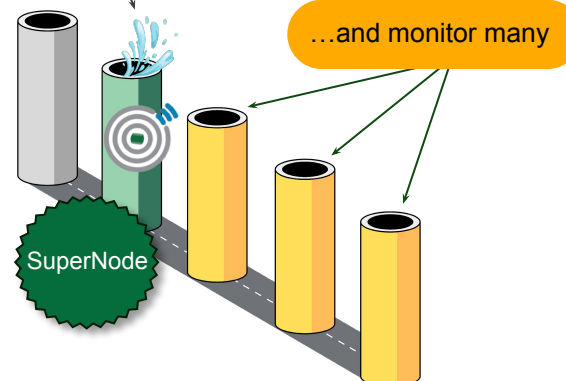
SNAP LITE™ uses the structure and connectivity of pipes, manholes, and lift stations to optimize system coverage at the lowest investment.



SNAP LITE™ Features and Benefits

- 🎯 All we need is GIS asset files, then we do the work of optimizing sensor placement.
- 🎯 Invest with the peace of mind that our industry-leading hardware is optimally located and will deliver insights to enhance decision making and reduce response time to SSOs.
- 🎯 Remove the guesswork and get a high return on your investment by monitoring optimal locations.

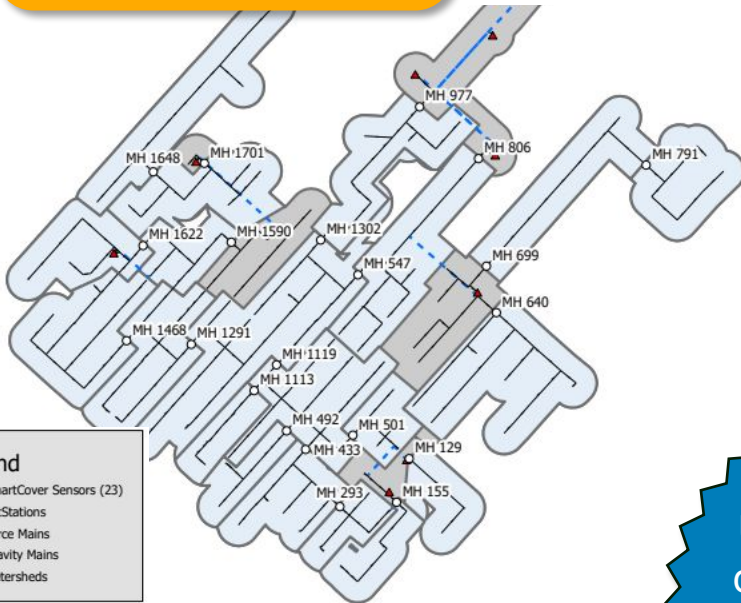
Install in one location



SNAP-I™

Pinpoint I&I In Your System

Optimize sensor locations



Utilize the SNAP-I™ algorithm to select optimal locations for monitoring inflow and infiltration (I&I) by delineating metersheds.

Once I&I response data has been collected, redeploy units into smaller **metersheds** in areas with high I&I to **minimize cost and pinpoint I&I**.

SNAP-I includes as many deployment plans as needed to discover where and when I&I occurs.

Use SNAP-I™ to determine sensor locations to detect I&I in your system

How it Works

- 1 Identify sensor locations that define metersheds where we can measure all upstream flow. Water level at these locations provides data on I&I for that metershed as a whole.
You choose the number of locations to monitor, and we can delineate that number of metersheds.
- 2 Collect data and rank metersheds by I&I level.
- 3 Move SmartCovers from areas of low I&I to new, smaller metersheds in higher I&I areas to pinpoint where I&I occurs.

Detect I&I

