Recover: Water

Leak Detection and Analysis

Solution Overview

ASTERRA Recover uses satellite imagery and the power of AI to cover large areas and monitor the regions that contain probable leaks. How do we do this?

Specifically, L-band synthetic aperture radar (SAR) sensors are used for their day/night, cloudy/clear capabilities along with the ability to penetrate beneath the surface of the ground. Using a patented algorithm and machine learning, Recover filters out the signature of drinking water for the customer. This service provides locations directly to the utility's preferred field crew to search and pinpoint the exact leak location.

This technology (winner of the 2021 AWWA Innovation Award) has been adapted from the search for water on other planets, underscoring its innovative and outstanding capability here on Earth. Recover offers a fresh approach and non-invasive method to the problem of urban water leakage. When compared with other methodologies, continuous monitoring with satellite leak detection saves you time, water, money, and energy.

Key Benefits

1

Reduce your
non-revenue water

2

Maximize leaks found
while increasing field
crew efficiency 400%

3

Most cost-effective
tool to support
regulatory compliance

4

Lowest cost solution
on the market

Image to Repair: 3 Easy Steps

1 **Monitoring and analysis**
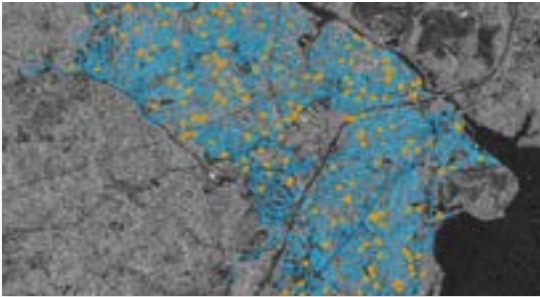
2 **Delivery via subscription on the EO Discover platform**

3 **Pinpoint leak to mark for excavation**

About ASTERRA

ASTERRA (formerly Utilis) provides underground soil moisture data on pipes, roads, rails, dams, and mines to water utilities, government agencies, and infrastructure managers. Using SAR (synthetic aperture radar) data from satellites and a series of proprietary algorithms, ASTERRA turns the data into actionable intelligence that supports large-scale decisions and Earth's resource resilience. Since 2017, in 64 countries, ASTERRA technology has saved over 368 billion gallons of water, 920,000 MWH of energy, and 235,252 metric tons of carbon. ASTERRA is headquartered in Israel with offices in the U.S., the U.K., and Japan.

Recover by the Numbers.

64
countries have found success using this solution

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235K
metric ton reduction in CO_2 emissions

_____

920K
MWH of energy saved

_____

100K
leaks verified worldwide

_____

368B
gallons (1.67B m³) of water saved

_____

3.5
leaks found per crew day vs 1.3 average with traditional acoustic methods

⁎ASTERRA