

Recover: Water

Leak Detection and Analysis

Product Overview

ASTERRA Recover uses satellite imagery and the power of AI to cover large areas and quickly narrow down 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 the first few meters of earth. Using a patented algorithm and machine learning, Recover filters out the signature of drinking water for the customer. The locations are then provided as a GIS data project directly to the utility's preferred field crew to search within the zones and pinpoint the exact leak location.

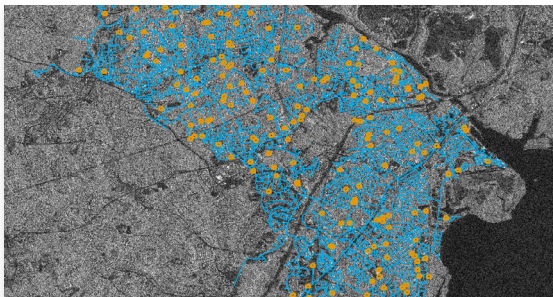
This technology has been adapted from the search for water on other planets, underscoring its innovative and outstanding capability here on Earth. Recover offers a fresh approach and non-invasive method to the problem of urban water leakage. When compared with other methodologies, continuous monitoring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

Key Benefits

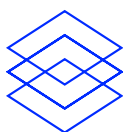
- 1 **Reduce your non-revenue water**
- 2 **Maximize leaks found per day while increasing field crew efficiency 400%**
- 3 **Most cost-effective tool to support regulatory compliance**
- 4 **Lowest cost per leak found on the market**

Image to Repair: 3 Easy Steps

1 Image acquisition and analysis



2 Delivery



3 Pinpoint leak to mark for excavation



About ASTERRA

ASTERRA (formerly Utilis) provides data-driven solutions for water utilities, government agencies, and the greater infrastructure industry. ASTERRA products use synthetic aperture radar (SAR) data from satellites and turns this data into large-scale decision support tools. The company's proprietary algorithms and highly educated scientists and engineers are the key to their mission, to become humanity's eyes, and guide it to act, react, and adapt to Earth's changes.

Recover by the Numbers

450

projects completed in
59 countries

100K

metric ton reduction in CO²
emissions, equal to 91 million
pounds of coal burned

420K

MWH of energy saved

46K

leaks verified worldwide

170B

gallons (770M m³) of water
saved, equal to the water used
by a city of 3 Million people

3.5

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