ASTERRA

The Intelligence to Act

# Recover: Wastewater

Leak Survey

## Solution Overview

The ASTERRA method uses satellite imagery 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 beneath the surface of the ground. Using a patented algorithm, ASTERRA can filter out the signature of wastewater and provide ongoing monitoring to the customer.

Through a subscription, they are then provided to direct the utility's preferred field crew to search within the zones in order to pinpoint the exact leak locations.

This technology has been adapted from the search for water on other planets, underscoring its innovative and outstanding capability here on Earth. ASTERRA offers a fresh approach and a non-invasive method to the problem of urban water leakage.

## Key Benefits

1. **Prevent pollution of sensitive habitats and neighborhoods**
2. **Most cost-effective tool to support regulatory compliance**
3. **Identify trouble spots for pipe replacement strategy**


## 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 315,288 million gallons of water, 788,219 MWH of energy, and 201,784 metric tons of carbon. ASTERRA is headquartered in Israel with offices in the U.S., the U.K., and Japan.