

Recover: Water

Leak Detection and Analysis

Product Overview

ASTERRA Recover 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 the first few meters of earth. Using a patented algorithm, Recover can filter out the signature of drinking water and provide these zones to the customer. They are then displayed in user-friendly GIS reports, and direct the utility's preferred field crew to search within the zones in order to 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 leak detection methodologies, satellite-based leak detection identifies more leaks per day, saving you water, time, money, and energy.

Key Benefits

1

**Reduce your
non-revenue water**

2

**Maximize leaks
found per day while
increasing field crew
efficient 400%**

3

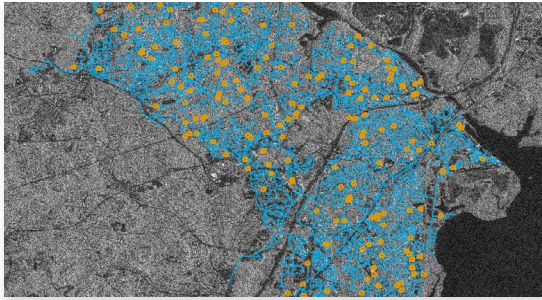
**Most cost-effective
tool to support
regulatory compliance**

4

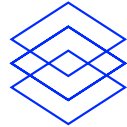
**Lowest cost per leak
found on the market**

Image to Repair: 3 Easy Steps

1 Image acquisition and analysis



2 Delivery



3 Pinpoint leak to mark for excavation



About ASTERRA

Utilis developed the ASTERRA products to use satellite-based synthetic aperture radar (SAR) to locate and analyze moisture accumulating underground. Our products include MasterPlan for pipe deficiency assessment; Recover for leak detection; and EarthWorks for ground infrastructure assessment. ASTERRA pierces clouds, forests, and even pavement to assess entire systems quickly and efficiently. Our first commercial use was in 2016. Since then, 36,000 leaks have been verified, saving 35 million m³ of drinkable water and 21,800 MWH of energy every year, savings that continually grow.

Recover by the Numbers

430

projects completed in 55 countries

14.5K

metric ton reduction in CO² emissions, equal to 12.5 million pounds of coal burned

21.8K

MWH of energy saved yearly

36K

leaks verified worldwide

9200M

gallons (35M m³) of water saved annually, equal to 33% of the water used by a city of 500,000

3.5

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