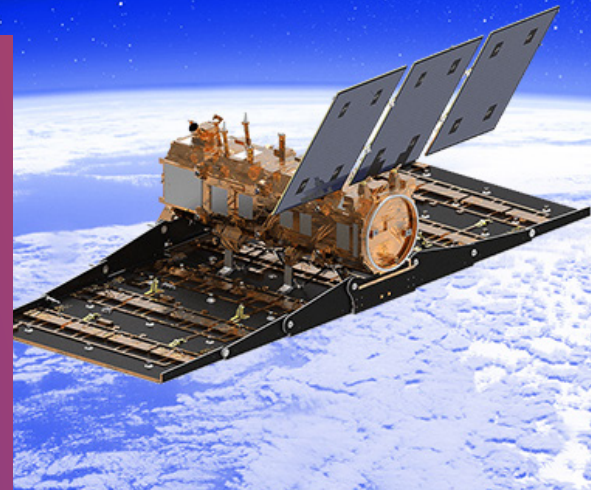# Satellite-Based Infrastructure Intelligence

Bringing Satellite Analytics to New Downstream Markets

ASTERRA first provided the water utility industry with PolSAR-derived leak locations, and we are now the market leaders. Our expertise brings the same level of infrastructure intelligence to industries that manage wastewater, dams and levees, and transportation, including roadways, rail lines, and mining.

Our Record of Service to Government Agencies

ASTERRA has helped governments at the city, county, state, and federal levels understand and embrace innovative technologies to monitor infrastructure. We have succeeded by consistently demonstrating the significant financial, resource management, and environmental benefits from these insights.

Mutually Beneficial Technology Partnerships

ASTERRA works with partners whose technology, mission, and values complement our own. It's an innovative, mutually advantageous program and is actively seeking partners to provide total customer solutions.

A Major Supporter of Satellite Data

ASTERRA is the single largest commercial purchaser of data from various L-band satellites. We engage synthetic aperture radar (SAR) satellite operators to provide actionable insights for the downstream market.

Expansive R&D Capabilities

Research & Development at ASTERRA has led to industry-changing breakthroughs in remote sensing analysis and insights. Our R&D teams include unique experience with polarimetric synthetic aperture radar (PolSAR), artificial intelligence (AI) and data science, remote sensing, and geomorphology. We hold multiple patents and share infrastructure intelligence with clients via licensing and reselling agreements.

About Us

ASTERRA was founded in Israel in 2016 as Utilis. In 2021, to reflect our expanded capabilities and applications, we rebranded as ASTERRA. We maintain offices in Israel, the United States, the United Kingdom, and Japan.
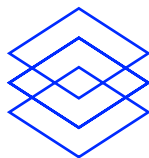
To Contact ASTERRA

Jasmin Inbar, jasmin.inbar@asterra.io

ASTERRA's Solutions for Infrastructure Intelligence

MasterPlan

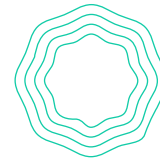**Pipe deficiency assessment for replacement planning models**

ASTERRA MasterPlan uses a patented algorithm developed over five years from thousands of verified leak points within hundreds of satellite passes. MasterPlan adds a valuable level of refinement to pipe replacement planning models or water system master plans by providing pipe deficiency as a data service to include in your asset management plan. We provide insights for water and wastewater systems.

Recover

Underground leak detection, city-wide and at a glance

ASTERRA Recover locates water or wastewater leaking from underground pipes so that repairs can be planned and expedited. With Recover, entire city-wide systems can be monitored over time. Recover not only identifies more leaks; it's revealed major leaks that had gone unseen for years. It also raises crew efficiency up to 400%! In 2021, Recover was honored with AWWA's inaugural Innovation Award.

EarthWorks

Soil moisture mapping for road and rail, dams and levees, minerals and mining

ASTERRA EarthWorks monitors soil moisture for many ground infrastructure applications. EarthWorks points out areas of concern and potential failure locations under hillsides, near roadways and railbeds, and around earthen dams and levees, including tailings dams, holding toxic material. Repairs can be made to prevent failures that threaten lives, infrastructure, businesses, and the environment.