Satellite-Based Infrastructure Intelligence

SAOCOM © CONAE

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; mining and mineral operations; and transportation, including roadways and rail lines.

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 purchaser of data from the JAXA ALOS-2 satellite and both SAOCOM-1A and -1B 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 2013 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

USA: James Perry, james@asterra.io
Israel: Jasmin Inbar, jasmin.inbar@asterra.io
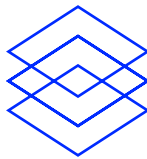
ASTERRA's Product Line for Infrastructure Intelligence

MasterPlan

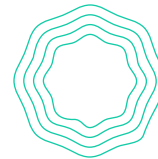**Pipe deficiency assessment for replacement planning models**

ASTERRA MasterPlan uses a patented algorithm developed over five years from thousands of verified leak points within hundreds of satellite passes. MasterPlan provides a valuable level of refinement to pipe replacement planning models or water system master plans by adding a deployable pipe deficiency data layer to 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 imaged and analyzed at once. Recover not only identifies more leaks per day; 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 maps soil moisture for a variety of 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.