

# Third Party Mission Success Stories



EARTHNET



## Planetwide Dataset

UK (London)

SPOT 6 and 7

Commercial high resolution imagery combined with machine learning methods to develop a new worldwide open source dataset

New worldwide dataset captures the planet in fine detail

## Geothermal Surveying

México (Querétaro)  
Italy

GeoEye-1

High resolution optical data help geological mapping of the geothermal volcanic area of Cerro Domuyo, the highest mountain in Patagonia

High-resolution optical images improve geological mapping in remote geothermal areas

## Monitoring Rock Glaciers

Scotland, UK (St. Andrews)

Pléiades

Very high resolution Pléiades data reveal long-term creep of rock glaciers in the Poiqu River Basin of central Himalaya

Pléiades unlocks information about rock glaciers in central Himalaya

## Predicting Crop Yields

UK (Southampton)  
Malawi, Kenya and Ghana

PlanetScope

High resolution data help improve crop productivity in the drylands of sub-Saharan Africa

Predicting crop yield using Planet data

## Detecting Methane Plumes

Spain (Valencia)  
Netherlands

Landsat 8, WorldView-3

Earth observation data map industrial methane plumes from offshore platforms in the Gulf of Mexico

WorldView-3 helps to track offshore methane plumes from oil and gas

## Maritime Surveillance

Italy (Naples)

COSMO-SkyMed,  
SAOCOM, Sentinel-1

Multi-frequency synthetic aperture radar data from different missions help identify marine vessels

SAR synergy data for maritime surveillance

## Tracking Mountain Glaciers

Germany (Nuremberg)

TanDEM-X and SRTM

Volume and mass changes of mountain glaciers are derived from interferometric synthetic aperture radar (InSAR) data

Tracking mountainous glaciers using TanDEM-X

## Navigation Safety

Italy (Venice)  
Netherlands

COSMO-SkyMed, ICEYE,  
TerraSAR-X

Optical and synthetic aperture radar data aid navigation risk modelling and provide near real-time updates on shipping routes

Earth Observation data to improve navigation risk modelling and shipping routes

## Savannah Biodiversity Loss

Denmark (Aarhus)

WorldView-3

High resolution WorldView-3 imagery maps vegetation cover in the Greater Maasai Mara savannah, a global hotspot for biodiversity

Remote sensing scientists raise alarm for African savannah

## Uncovering Waste Landfills

Hungary (Budapest)  
Netherlands

GeoEye-1, WorldView

Very high resolution imagery is combined with advanced deep learning techniques to automate the detection of waste landfills

Meet a young researcher who combines remote sensing with deep learning techniques