

Company Profile



**Better Data for
Better Decisions**

About Us



PhotoSat provides geospatial data solutions for operations, compliance, development, and exploration. PhotoSat is a technology company that produces geospatial solutions from satellite imagery, using proprietary deep learning algorithms. Our work is grounded in the belief that better data leads to better decisions, and it is our mission to support safe and responsible projects around the world. Our elevation surveys provide engineers with accurate, high resolution terrain data to support operational decision making, infrastructure design, site planning, and ongoing project development. Our alteration mineral maps and regional topography equip geologists with actionable geospatial insights that guide regional and property-scale exploration strategies with greater confidence.

PhotoSat has delivered 3000+ elevation surveys and 300+ alteration maps for projects in more than 75 countries worldwide. Our multi-disciplinary team counts geophysicists, engineers, geologists, and other business professionals among its ranks. With this combined expertise and experience, we create reliable, time-saving solutions for major resource development, resource extraction, and infrastructure projects.

Our Expertise and Solutions

Remote Sensing:

Harnessing best-in-class satellite technology with processing tailored to meet your project goals without the need for site access.

Proprietary Processing:

In-house software and workflows transform satellite data into user-ready elevation surveys, alteration mineral maps and actionable insights.

Deep Learning Technology:

Purpose-built algorithms with expert oversight deliver accurate, scalable intelligence for smarter decision-making.

Engineering-Grade, High-Accuracy Topographic Surveys

PhotoSat produces bare-earth surfaces (DEM/DTM), with vertical accuracies of 10cm to 15cm RMSE, with no site visit required, delivered in any file format and any coordinate system.

Alteration Mapping

With PhotoSat's alteration mineral maps, geologists get valuable data supporting claim selection and target generation, without a site visit and at a regional or property scale.

Regional Topography

PhotoSat's regional topography provides reliable 3D elevations surfaces (DEM/DSM) for exploration geologists, with no site visit required, delivered in any file format and in any coordinate system.

Our Advantage

- Safe and efficient actionable information over large and remote project sites with global consistency.
- No permits or ground access required.

Our History

1993 – RGI Industries

Gerry Mitchell, M.Geophys., founds RGI industries, assembling a team of remote sensing specialists and geoscientists. The company offers a range of consulting services on geospatial solutions.

2003 – Satellite Imagery

PhotoSat produces alteration maps from Landsat and ASTER satellite data. The team develops a geophysical processing system to create topographic maps from stereo satellite imagery.

2008 – Engineering Grade

The team improves processing methods, achieving engineering-grade vertical accuracies of 30 cm. Major oil and gas companies work with PhotoSat topography for exploration and development.

2012 – Elevation Surveys

Suncor becomes PhotoSat's first major oil sands client. PhotoSat achieves accuracies of 20 cm in elevation surveys.

2016 – Data Insights

PhotoSat develops its first data insights, with water body detection, mine site toes and crests, and infrastructure digitization.

2018 – Deep Learning Technology

PhotoSat's software developers introduce deep learning technology to all data processing systems, including elevation surveying and alteration mapping.

2019 – Deep Learning

Alteration mineral maps are now produced using proprietary deep learning algorithms, giving accurate and reliable results for 13 key alteration minerals including alunite, kaolinite, and jarosite.

2020 – Historical Topography

PhotoSat produces the first topography of tailings facilities by processing stereo satellite imagery from satellite data dating back to the 1960s.

2026 – Launch of Regional Hyperspectral Exploration Targeting (R-HET)

R-HET leverages next-gen hyperspectral satellites and deep learning to map more alteration minerals with greater accuracy, empowering faster, smarter, and more confident exploration decisions.

Our Mission



Since 1993, it has been our mission to support safe and responsible projects around the world by applying our expertise in ways that offer smart solutions to real world challenges.

We leverage the best in satellite technology to deliver unique geospatial data solutions that helps engineers and geologists shorten project timelines, promote safety, and drive efficiency in each phase of a project.

Products & Services



PhotoSat delivers satellite-derived elevation surveys and alteration mineral maps that provide accurate, decision-ready geospatial data for exploration and mine operations.

Mining & Development

- **Mine Site Surveying:**
User-ready, high-accuracy topography for mine operations, tailings management and mine development.
- **Data Insights:**
Interpretation-ready extracted features and measurements for mine and tailings management.
- **Topography for Dam Breach Analysis:**
Simulation-ready topography for flow modeling.
- **Historical Topography:**
Analysis-ready topography and insights for forensic engineering and legacy asset management.

Exploration & Geology

- **Property Scale Alteration Mapping Interpretation:**
User-ready high-resolution alteration mineral maps for property-scale exploration programs.
- **Regional Hyperspectral Exploration Targeting (R-HET):**
User-ready, alteration maps leveraging hyperspectral data for regional-scale exploration programs.
- **Exploration Surveying & Regional Topography:**
User-ready, high- and medium-accuracy topography for resource development projects.



Our Leadership Team



Andrea Krupa
CEO/ President



Veronique Nell
P.Eng.
VP Products and Solutions

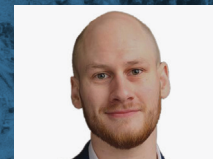


Adrien Ghariani
Head of Research & Development



Allan Ng
P.Geo.
Director of Production

Our Product Team



Kieran Kristoffersen
MSc, GIT
Geology Product Lead



Angela Ellithorpe
P. Eng.
Topography Product Lead

Clients & Projects

We support safe and responsible projects around the world. Since 1993, we have delivered over 3,000+ projects in more than 75 countries.



Our Partners

We leverage the best in satellite technology to deliver geospatial solutions to engineers and geologists around the world.



Who We Serve

We partner with mining operators, exploration companies, and consulting firms around the world, connecting with the professionals who drive mining forward. From operational leaders managing mines and tailings facilities to exploration teams planning projects and engineers delivering technical solutions, we focus on the people who make mining and exploration work.

Operating Mines:

Leaders managing mines, tailings, and legacy sites to optimize operations and ensure safety.

Exploration Companies:

Teams driving project generation, exploration planning, and target evaluation.

Consulting Firms:

Engineers and environmental specialists guiding high-impact projects.

How We Make an Impact

We provide mining and exploration teams with the right insights, tools, and data to make better decisions, solve complex challenges, and optimize operations. From the pit to tailings facilities, and from exploration to legacy projects, we deliver accurate data and practical solutions that improve performance, support informed risk management, and drive sustainable outcomes.



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