



# BROCHURE 2023



# +23 YEARS

PROVIDING THE BEST  
SPECIALIZED SERVICES  
OF DIGITAL CARTOGRAPHY  
AND GEOMATICS





**LIDAR**

We carry out LIDAR flights, with a high density of ground points from 1 to 100 per m<sup>2</sup>, with an absolute precision of 5 cm vertically and 5 cm horizontally, with a minimum field control and for scales of less than 2000 without field control, with permanent link to the IGN network and satellite processing. In addition, we incorporate high-resolution color and infrared photography. spatial from 3cm and 4 integrated bands. On the other hand, it has a stabilized turning system for better alignment of photographs and data; and with pulse repetition frequency greater than 2,000kHz.

The LIDAR point cloud that is generated has multiple applications such as:



Modeling of mining and civil surface.



Inspection of overhead transmission lines.



Determination of mass volume.



Urban and rural cadastre.



GIS applications.





Our LEICA Airborne Laser scanner is capable of detecting an unlimited number of returns for each output laser pulse, obtaining a high density of LiDAR points, in a single flight mission. Besides, we incorporate a digital sensor to capture high resolution RGB and IR images.

For this specialized service we have:



Aircraft with autonomy greater than 6 hours for aerial photography.



State-of-the-art LIDAR sensors.



Multispectral digital metric cameras  
RGB and IR.

Likewise, our service allows you to optimize time, reduce field work and obtain high-quality images even in large areas.

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**PHOTOGRAMMETRY**

For this specialized service we have:



Multispectral RGB and IR Digital Metric Cameras.



IMU and GPS Navigation and Inertial Measurement Systems for Aerotriangulation and photogrammetric adjustment



RPAS systems (Drone), high resolution images are obtained in smaller areas.

The restitution of images and their orthorectification, allow to generate 3D vector information and realistic modeling of the surface, which can be integrated into various work environments of infrastructure, cadastre, CAD, GIS, simulations and virtual flights, for terrain reconnaissance.





**SUPERVISION  
TOPOGRAPHICAL  
OF PROJECTS**

For the Supervision of Construction Projects we have specialized Surveying Crews, which are made up of High Precision measurement equipment and a group of qualified Professional Surveyors with extensive experience in:

- ✔ Earth movements.
- ✔ Civil works and concrete.
- ✔ Mechanical assembly.
- ✔ tunnels.
- ✔ Laying of high voltage lines.
- ✔ Geometric road control.

### Equipment and Software:

We have world-renowned high-precision equipment: Leica, Trimble. Y Professional software with manufacturer licenses:

- ✔ Total station Leica, Trimble 1" and 2".
- ✔ Trimble R10 Dual Frequency Differential GPS.
- ✔ RIEGL VZ-400 scanner.
- ✔ GeoSlam Mobile Scanner.





## Main activities:



Topographic control of tunnels: axis, sections cross sections, feed displacement, measurement of convergences, Precision polygonal.



Topographic control of massive earthworks: Control of progress of platforms, Delimitation of types of material, Monitoring of DMEs, Monitoring of Quarries.



Civil and concrete works: Topographic control of foundations, foundations and anchor bolts.



Structural works: Verification of alignment, Verticality, Squares, High tension towers.



3D - 360 surveys with laser scanner, for modeling in BIM.



Construction of geodetic and polygonal networks of high precision for the geometric control of projects.



Mechanical works: mechanical assembly of ball mills, SAG mills, primary crusher, belts conveyors, pumps, thickeners, flotation cells, tanks.

## Constant Professional Technical Advice and Accompaniment in:

- ✓ Interpretation of deliverables.
- ✓ Valuation review.
- ✓ Conceptual and detailed engineering redesigns according to the Line network, RFIs and management of changes approved by the project.
- ✓ Elaboration and audit of polygonals and leveling of precision.
- ✓ Audit of the contractor's topographic equipment.
- ✓ Make three-dimensional modeling.
- ✓ Orthophoto generation.
- ✓ Edition and production of virtual flights.
- ✓ Others.

## Technical office:

Our technical topography office has qualified professionals (3 years of academic training technique) and accredited by Autodesk.

## Regards of:

- ✓ Review valuations generated by the builder.
- ✓ metered.
- ✓ Preparation of topographic plans for weekly and fortnightly progress.
- ✓ Make three-dimensional modeling.
- ✓ Orthophoto generation.
- ✓ Edition and production of virtual flights.





# TOPOGRAPHY AND GEODESY

This service carries out large-scale Topographic Surveys, where the topographic map of surfaces and/or structures with high planimetric, altimetric and volumetric precision, for the development of basic engineering, detailed engineering, geological studies and geophysical, geometric design of roads, tunnels, dams, DMEs.

Likewise, they carry out activities of monitoring dams, bathymetric surveying, measuring necklaces of drilling, shafts, chimneys, and establishment of geodetic networks by differential method.

Through our technology and specialized personnel we obtain products with high precision, quality of images, speed and security, to meet the requirements and satisfaction of our customers.





### Applications:

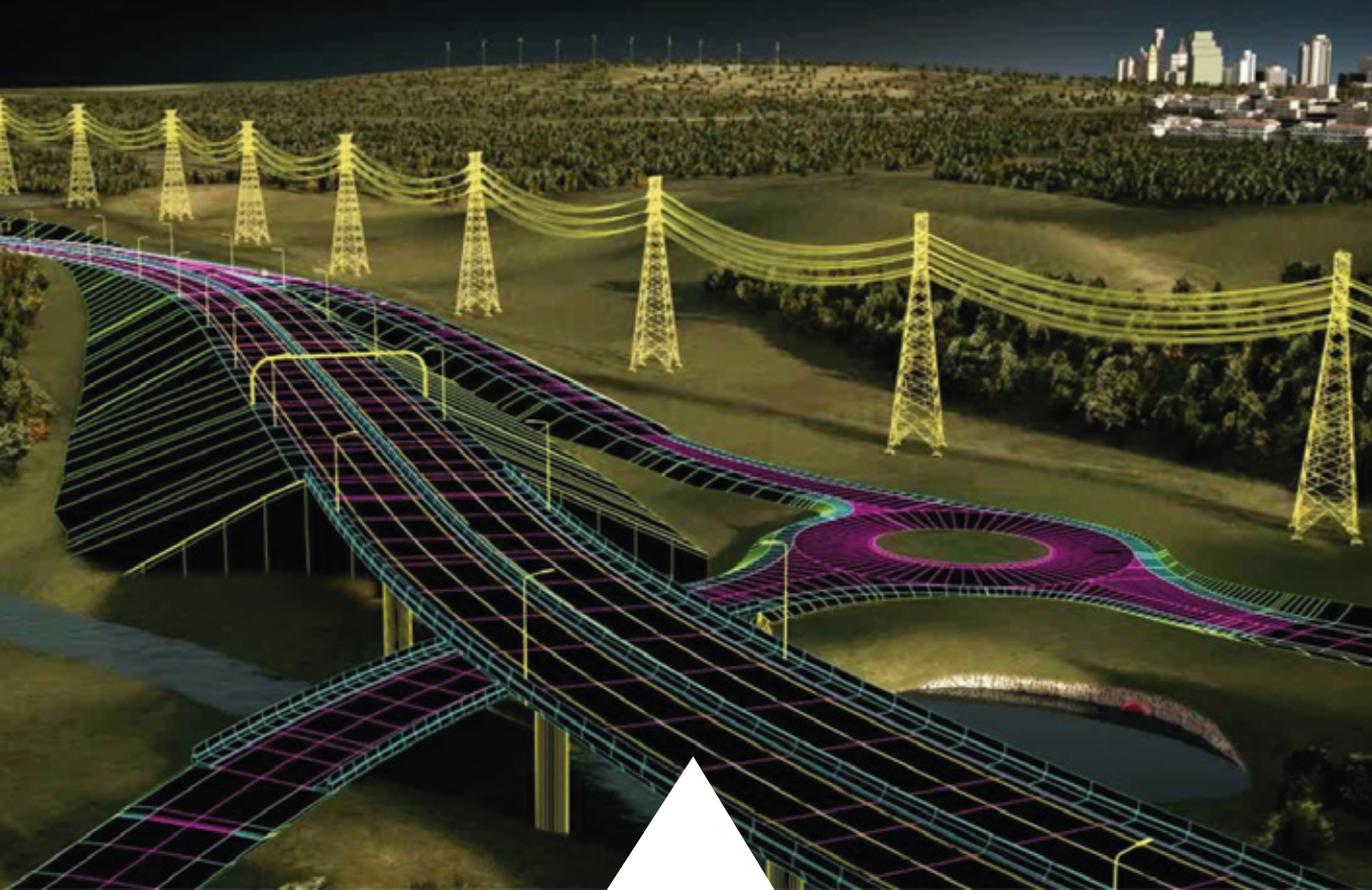
- ✓ Surveys of natural terrain.
- ✓ Development of basic engineering, conceptual engineering, and detailed engineering.
- ✓ Lifting of drill collars.
- ✓ Geodetic networks.
- ✓ Stakeouts.

We make the representation of the land in 3 dimensions, through measurements with high precision and speed equipment such as:

- ✓ 1" total stations.
- ✓ Long-range Terrestrial Laser Scanner.
- ✓ Differential GPS and RTK system.
- ✓ State-of-the-art software.
- ✓ RPAS (Drone) with certified personnel before the MTC.



**DESIGNS OF  
ENGINEERING**



Development of engineering at the feasibility, basic and detail: geometric design on roads, accesses, pools, dumps, platforms, pipelines, hydroelectric power plants; preparation of engineering plans in plan, profile, cross sections, meters, technical specifications, budget, schedules.

**We have infrastructure and operational capacity that support our designs.**



We analyze various scenarios and include the technical opinions of various specialties to achieve the interrelationship of the components and achieve the success of an integral design.

# QUALITY, SAFETY, OCCUPATIONAL HEALTH AND ENVIRONMENTAL POLICY

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We are a company dedicated to providing solutions digital cartography, aimed at meeting the requirements of our customers, reaching levels of precision that secure your trust.

With a view to being sustainable over time, we prioritize the safety and health of our collaborators and we carry out our operations in a non-invasive and responsible manner towards the environment, committing ourselves to:

- ✔ Provide safe and healthy working conditions, encouraging the participation and consultation of staff and their representatives, and generating a culture of prevention of labor risks, thus avoiding injuries and deterioration of the health of our collaborators.

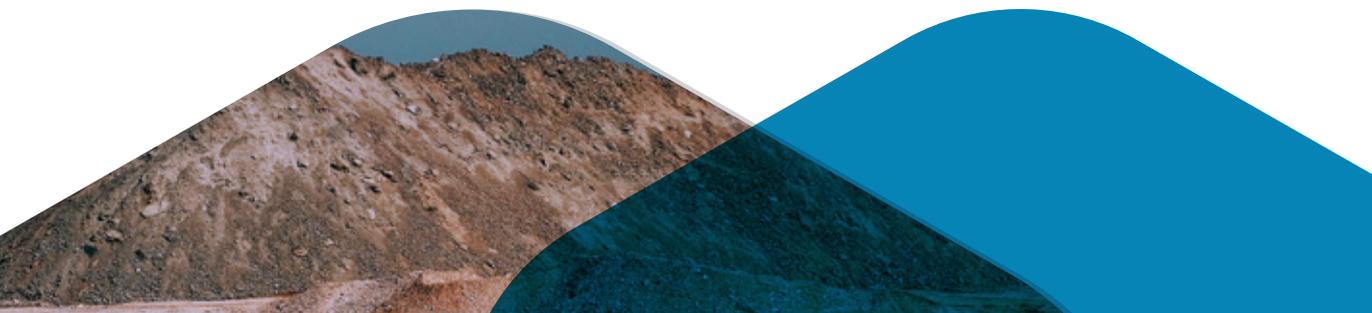


- ✔ Identify and eliminate as much as possible the dangers and reduce the risks to which our employees are exposed. collaborators.
- ✔ Work with highly trained professionals and state of the art technology to reduce the exposure and risk of personnel, as well as the environmental impacts that could be generated.
- ✔ Comply with legal requirements, technical standards and applicable standards of Quality, Safety, Health Occupational and Environmental Care.
- ✔ Protect the environment by identifying, evaluating and minimizing the environmental impacts produced by our operations, preventing contamination and impact on biodiversity and ecosystems in our labors.
- ✔ Continuously improve our management system, in order to optimize our environmental performance, strengthen the prevention of worker health and safety and the effectiveness of our processes.

### Certifications:



Scope of ISO 9001:2015 Certification  
"Geomatics, Topography, Photo-  
grammetry, LiDAR Services, Assign-  
ment of Topographic Crews for  
Project Supervision"



# OUR VALUES

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## TECHNOLOGY

Innovation to provide services that meet your needs for time, precision and cost.



## QUALITY AND PRECISION

Develop each project with the highest quality standards and in accordance with national and international technical standards.



## TRUST

Experience and personal treatment to manage projects considering the scale and sensitivity of the operation.

# THEY TRUST US...



# THEY TRUST US...



# CONTACT

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