



Soluciones GeoEspaciales

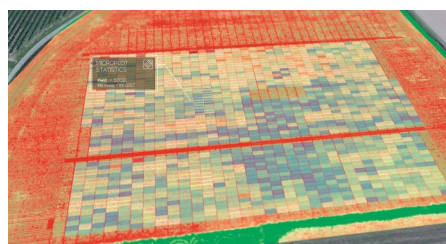
Introduction

Soluciones GeoEspaciales is a geotechnology company dedicated to obtaining and processing geo-based data to provide valuable information to end users.

We integrate the information gathered by various sensors mounted on satellite platforms and Unmanned Aerial Vehicles (UAVs, "drones"), and we process them with Artificial Intelligence (AI), Data Fusion and spatial data analysis tools.

We provide services of Non-Invasive Aerial Inspections, Aerial and Terrestrial Photogrammetry, Mapping and 3D Modeling and we show the data from a Geographical Perspective so that they are easily and quickly interpretable by users, directing the results to the information that is desired.

We provide interdisciplinary professional assistance throughout the workflow, from planning to the final product.



Soluciones GeoEspaciales

Office CABA

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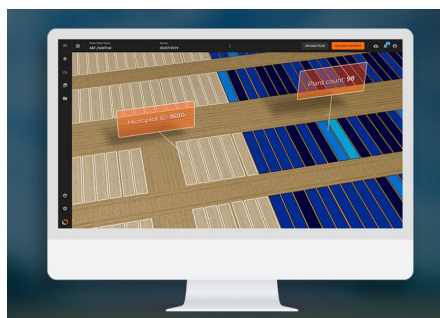
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Non-invasive

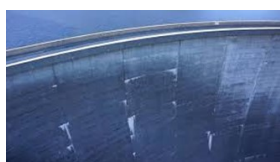
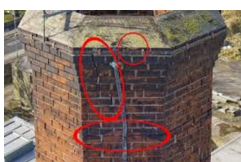
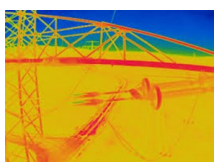
Air Inspections

We carry out inspections without the need for interruptions in the operation of the systems, reducing exposure to the risk of operators, avoiding work at height or in adverse conditions.

This also allows us to schedule preventive and corrective maintenance, with better information at the time of planning and reduce evaluation times, saving costs.

Algunos Tipos de Inspecciones

- Damage Inspection
- Structural Inspections
- Inspection of Power Lines (without service interruption)
- Chimney Inspection
- Antenna Inspection
- Inspection of Dams, Walls and Bridges
- Thermography
- Inspection of "Wind Turbines and Photovoltaic Parks"
- Inspections of oil, gas, water pipelines, etc.



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Overhead power lines Inspections

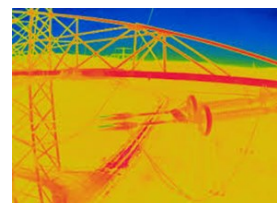
The services that **Soluciones GeoEspaciales** performs in the area of Power Lines includes the following issues:

- Survey of Traces planned for new lines, evaluating the altimetry of the land and foreseen points of installation of structures.
- In-situ inspection of assembly Works, for a better supervision of the work in the field, especially in dedicated structures.
- Visual inspections of structures to schedule corrective and preventive maintenance without interrupting the service.
- Specific inspections of structures
- General inspections of traces of lines to detect interferences with other facilities or infrastructure, or sub-standard situations
- Thermographic Inspections of Structures and Overhead Power Line Equipment



Advantage:

- Works in Height for Inspections are minimized, with the consequent savings in specialized Labor and Risks inherent in the task.
- Access to facilities that are difficult to access (eg. mountainous areas or away from traffic lanes with vehicular access)
- Photographic or filmographic record of the area under study, with high resolution photographs, geolocated and HD or 4k footage.
- Non-Invasive Inspections. The facility continues its operation.



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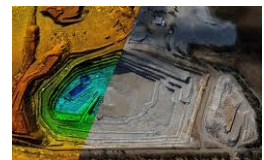
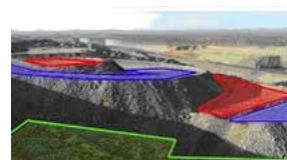
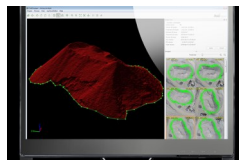
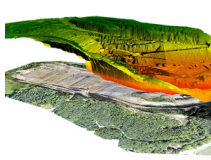
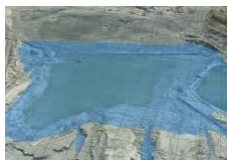
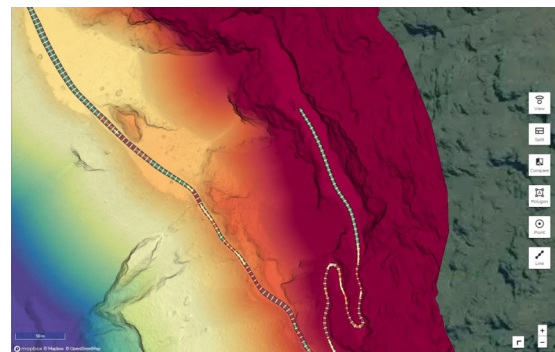
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Mining Surveys

- We perform calculations of volumes and surfaces of Mining Deposits (Stock Pile, TSFs, Waste Dumps).
- We support the Geological Surveys and Characterizations
- We support Baseline Studies and Environmental Monitoring (Hydrology, Archeology, Vegetable Cover, etc)
- We perform Control and Advance of Construction Works
- Starting in 2020, we are representatives of the Delair AI Platform that allows the integration of visual information



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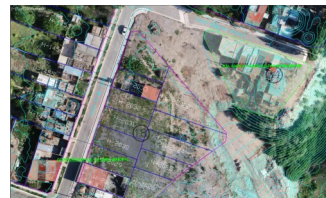
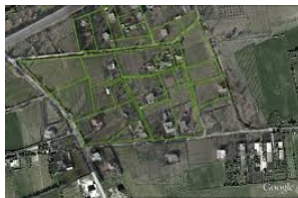
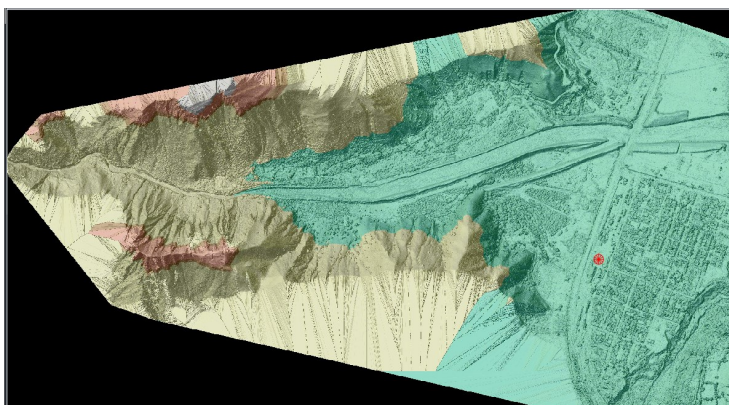
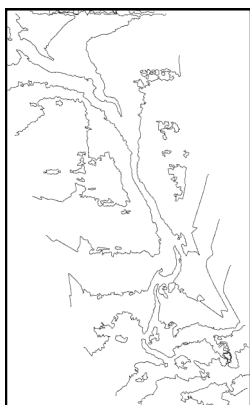
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Soluciones GeoEspaciales

Topography and Cadastre

- We perform rapid and accurate terrain surveys (georeferencing, measurement of surfaces and distances, contour lines and altimetry)
- Urban planification
- Monitoring of land use
- Monitoring of Constructions carried out
- Planning of circulation routes



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Photogrammetry and 3D terrain and surface models

The aerial or terrestrial images, or a combination of both, can be processed with specialized software, to develop photogrammetric models that allow the measurement in the field or the export to graphic systems like AutoCAD, ArcGIS, QGIS or 3D PDF.

The processing of this information also allows the construction of three-dimensional models that are tools of significant value for spatial analysis.



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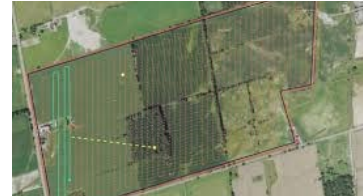
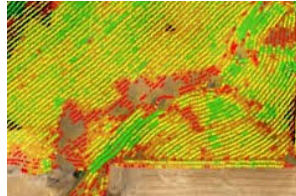
Agricultural Surveys

Combining the use of satellite images and mapping carried out with VANTs equipped with multispectral and hyperspectral cameras, it is possible to evaluate and monitor large agricultural areas.

The images are processed and displayed on a platform with a cartographic viewer that allows the interpretation of the surveyed data.

Some uses

- Level Curves (DSM)
- Precision farming
- Analytics of Mappings and Vegetation Indices (NDVI, MCARI2, NDRE, VARI, PRI, CCCI, CIR, MSAVI2)
- Use of water and drainage routes
- Degree of soil cover
- Health assessment of crops
- Physiological analysis of the crop
- Plant count



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Soluciones GeoEspaciales

Emergency Assistance

Faced with Emergency or Natural Disasters, it is possible to access a set of images that allow us to make appropriate decisions to face immediate remediation actions.

This type of tools are used in Earthquakes, Landslides, Fire, Floods, etc. providing invaluable help for the immediate attention of the solutions to face.

Soluciones GeoEspaciales is a member of the UAViators Network (Humanitarian UAV Network), which provides humanitarian assistance in emergencies globally.



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Membership



CAPMIN

The Argentine Chamber of Mining Suppliers is a group of companies from the main industrial centers of all the Argentine Provinces, which produce goods and services of high added value, widely used in the Productive Chain of the National Mining Industry.



ISPRS

ISPRS (International Society for Photogrammetry and Remote Sensing - Sociedad Internacional de Fotogrametría y Teledetección), renews membership



CIPA

The International Committee for Photogrammetry in Architecture, formed by the International Council of Monuments and Sites (ICOMOS) and the International Society for Photogrammetry and Remote Sensing have incorporated the team member, Martín Gutiérrez Viñuales, as a Regular member of the Committee, being the first member of Argentina in this Scientific Committee.



IDERA

(Spatial Data Infrastructure of the Argentine Republic) incorporates **GeoEspaciales** within the geospatial information community that groups members from the public, private, academic non-governmental, and civil society sectors.

It is responsible for defining guidelines and strategies in the development of spatial information in the Argentine Republic.

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Soluciones GeoEspaciales

Certifications and Qualifications

The Unmanned Aerial Vehicles (UAS), the Pilots and Crews, as well as the Procedures Manuals that we use in **Soluciones GeoEspaciales**, are registered and certified by the Argentinian National Civil Aviation Administration (ANAC).



ANAC
Administración Nacional
de Aviación Civil

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