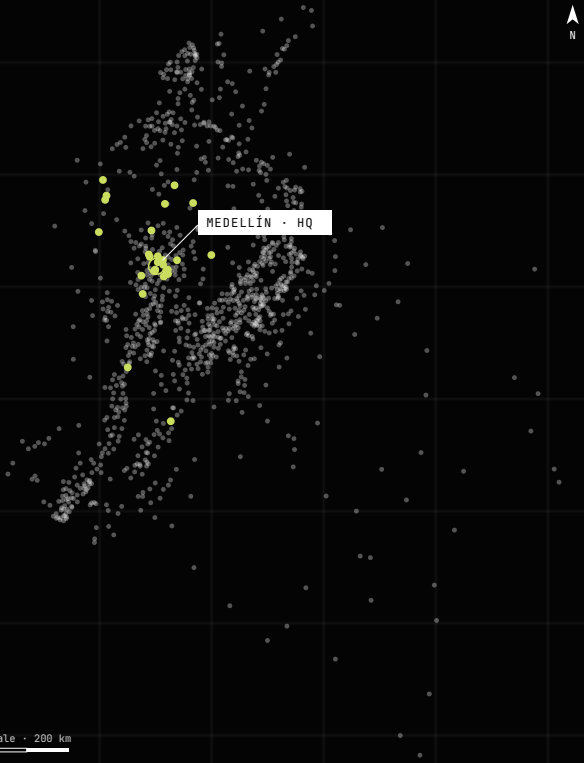


GEOGRAPHY, DATA & DECISIONS.

Cadastre, GIS, geospatial AI, satellite monitoring, surveying and software for government, energy, infrastructure and agriculture.



- MUNICIPALITIES WITH CADASTRAL PROJECTS
- COLOMBIAN MUNICIPAL SEATS

Source: DANE – DIVIPOLA, Datos Abiertos Colombia (Licence CC BY-SA 4.0, cut-off 2024-12-30) · GeoSAT OpenGIS visualisation

COLOMBIAN MUNICIPALITIES WITH GEOSAT CADASTRAL PROJECTS

— 01 · WHO WE ARE

THIRTY YEARS TURNING GEOGRAPHY INTO DECISIONS.

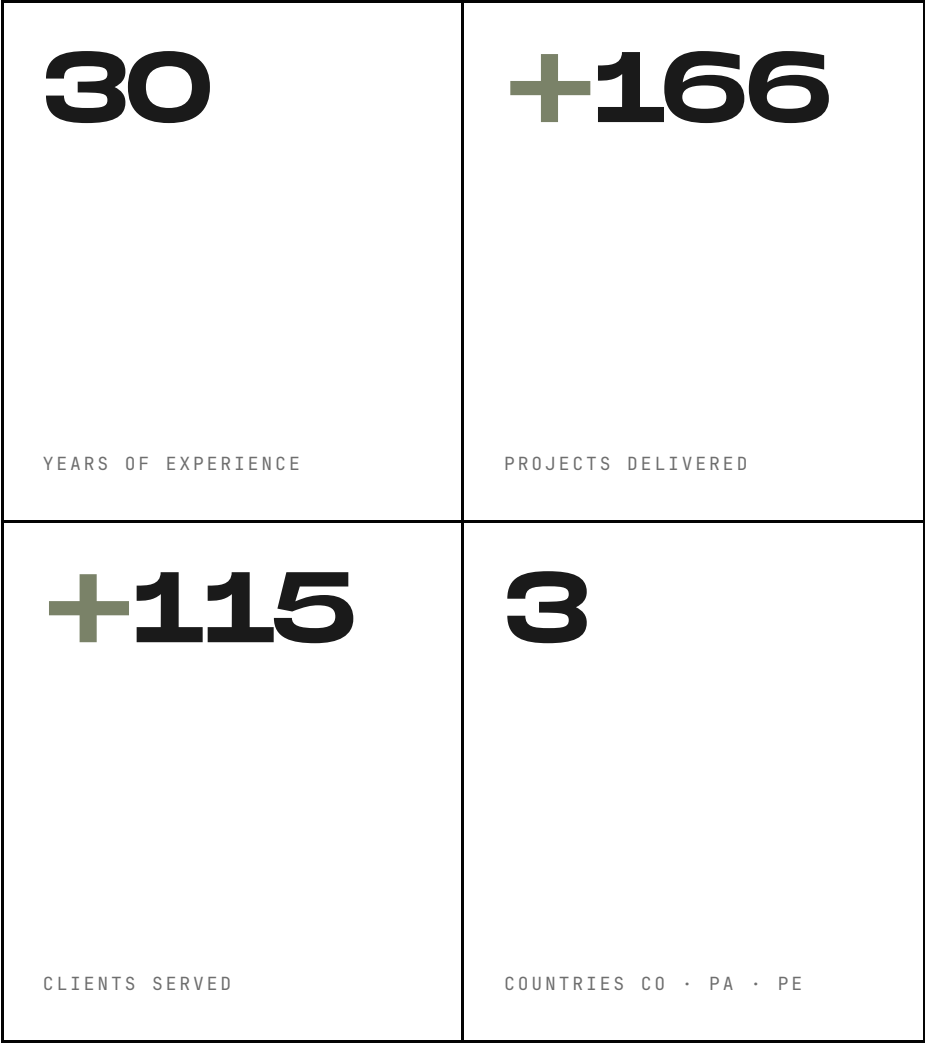
GEOSAT is a Colombian geospatial consultancy founded in Medellín in 1996. We capture, model and operate territorial information for public institutions and companies that cannot afford to decide blind.

We work across ArcGIS and the open-source ecosystem, build our own software and combine fieldwork with remote sensing and artificial intelligence. Clients who know us come back.

CLIENTS IN THE REGISTRY

ISAGEN · Medellín · ISA · U. de Antioquia · INGEOMINAS · Área Metropolitana · CORNARE · Gobernación de Antioquia · Surtigas · Acueducto de Bogotá · CORANTIOQUIA · EPM · FAO · Gases del Caribe · Hidroituango · IGAC · Metroplús · Presidencia · Ruta N · UPME

MILESTONES



02 · TECHNOLOGY IN EVERY PROJECT

WE WORK AT THE FRONTIER. ON EVERY PROJECT.

Every project is a chance to do better and faster than the last one. We bring artificial intelligence, digital capture and automation in from day one, and what we learn becomes tooling we use on the next project.

01 AI ACROSS THE WORKFLOW

Image classification, change detection, automated quality control and assistants that speed up analysis and development. Always with expert review.

02 100% DIGITAL FIELDWORK

Field crews on iPads and tablets: offline forms, georeferenced photos and direct sync to the database. No paper forms, no transcription.

03 PRECISION CAPTURE

Fixed-wing and multirotor drones, GNSS RTK and LiDAR for orthomosaics, terrain models and point clouds with declared accuracy.

04 AUTOMATED VALIDATION

Topology, LADM-COL and XTF rules run on every delivery, so errors are caught before they reach the client.

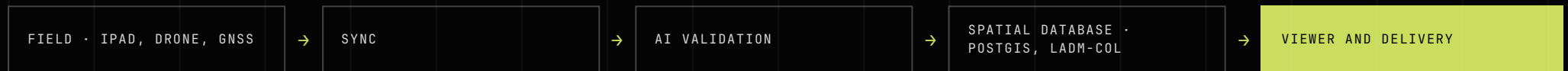
05 OUR OWN SOFTWARE

Terraes, Geovisor, OpenGIS and Octograma were born from real problems in our projects and are reused in the next ones.

06 CLOUD AND OPEN STANDARDS

PostGIS, OGC services and cloud deployments: interoperable data the client can operate without vendor lock-in.

FROM FIELD TO DECISION



HIGHER QUALITY IN LESS TIME ON EVERY DELIVERY: THAT IS THE BAR WE HOLD EVERY PROJECT TO.

SIX SERVICES, ONE TEAM.

We start with the operating problem, the data and the evidence.
Technology comes next: proprietary, open or hybrid.

SERVICES			MODERNISATION			OWN PLATFORMS		
04	MULTIPURPOSE CADASTRE	P. 05	10.1	ARCGIS TO OPEN-SOURCE MIGRATION	P. 11	12.1	GEOVISOR	P. 14
	LADM-COL operations, field capture, quality control and XTF delivery.			Inventory, TCO, pilot and acceptance testing to decide what to retain, migrate or rebuild.			MEDELLÍN GEOVISOR · LIVE	
05	GIS CONSULTING	P. 06				12.2	OPENGIS	P. 15
	Architecture, implementation and operations with ArcGIS, QGIS, PostGIS and GeoServer.		10.2	MAPGIS MODERNISATION	P. 11		GEOSAT OPENGIS · OPEN DEMO	
				Version-specific assessment to retain, update, decouple or migrate each component.		12.3	SIAP	P. 16
06	GEOSPATIAL AI	P. 07					SIAP · ISAGEN · 2026 REDESIGN	
	Classification, change detection and territorial models with human validation.		10.3	GEOSAT OPENGIS DEMO	P. 11	12.4	TERRAES	P. 17
				Search municipalities, inspect cadastral layers, measure, export and model preliminary scenarios without signing up.			TERRAES · CITIZEN VALUATION · CADASTRE	
07	SATELLITE MONITORING	P. 08				12.5	OCTOGRAMA	P. 18
	Crops, deforestation and territorial change using Sentinel, Landsat and time series.						OCTOGRAMA · TENDER INTELLIGENCE	
08	SURVEYING AND DRONES	P. 09				12.6	GEOBRISTOL	P. 19
	GNSS RTK, photogrammetry, LiDAR, orthomosaics and terrain models.						GEOBRISTOL · PRECISION AGRICULTURE	
09	GEOSPATIAL SOFTWARE	P. 10				12.7	CTZEN	P. 20
	Applications and platforms where data and processes outlive the viewer.						CTZEN · CITIZEN PARTICIPATION	

04

— MULTIPURPOSE CADASTRE · LADM-COL

MULTIPURPOSE CADASTRE

CADASTRAL OPERATIONS THAT SURVIVE VALIDATION AND DAILY USE.

GeoSAT supports cadastral managers and municipalities from field capture through LADM-COL modelling, quality assurance, XTF exchange and operational handover. The goal is not a one-off database: it is an auditable cadastral operation that the institution can maintain.

WHAT WE DO

01 CADASTRAL UPDATING

Physical, legal and economic information captured and reconciled under the applicable Colombian model.

03 FIELD OPERATIONS

Coordinated crews, GNSS, imagery and traceable evidence for urban and rural properties.

02 LADM-COL IMPLEMENTATION

Data modelling, validation rules, XTF exchange and delivery support for cadastral authorities.

04 OPERATIONAL SOFTWARE

Terraes workflows for updating, conservation, quality control and institutional reporting.

DELIVERABLES

- RIC package in XTF, validated against IGAC rules
- LADM-COL database in PostGIS
- Per-parcel file with supporting documents
- Technical report and quality indicators
- Training and manuals for the cadastral manager

TRACK RECORD

- Cadastral updating and formation projects across 29 municipalities.
- Contracts with IGAC, the Aburrá Valley Metropolitan Area and municipal administrations.
- Cadastral formation for Serranía de Chiribiquete National Park, a UNESCO World Heritage site.



Source: Instituto Geográfico Agustín Codazzi (IGAC), normalización GeoSAT OpenGIS (Licence CC BY-SA 4.0, cut-off 2026-01-31) · GeoSAT OpenGIS visualisation

Public cadastral sample for Almeida (Boyacá): urban perimeter, blocks, parcels and buildings in the normalised GeoSAT OpenGIS model.

TECHNOLOGY

LADM-COL

INTERLIS / XTF

QGIS

POSTGRESQL

POSTGIS

GNSS RTK

TERRAES



— GIS CONSULTING · ARCGIS · QGIS · POSTGIS
GIS CONSULTING

GIS ARCHITECTURE WITHOUT IDEOLOGY OR UNNECESSARY LOCK-IN.

We design, implement and operate geographic information systems across the ArcGIS and open-source ecosystems. We recommend what to retain, replace or connect after reviewing real workflows, data, automation, service levels and total cost.

WHAT WE DO

01 SPATIAL DATA ARCHITECTURE

Enterprise models and governance for PostGIS, ArcGIS geodatabases and interoperable services.

03 PLATFORM ADMINISTRATION

Upgrades, monitoring, data publishing, access controls and accountable operational support.

02 GIS IMPLEMENTATION

Desktop, server, web and field workflows designed around the organisation's actual operating model.

04 MIGRATION AND COEXISTENCE

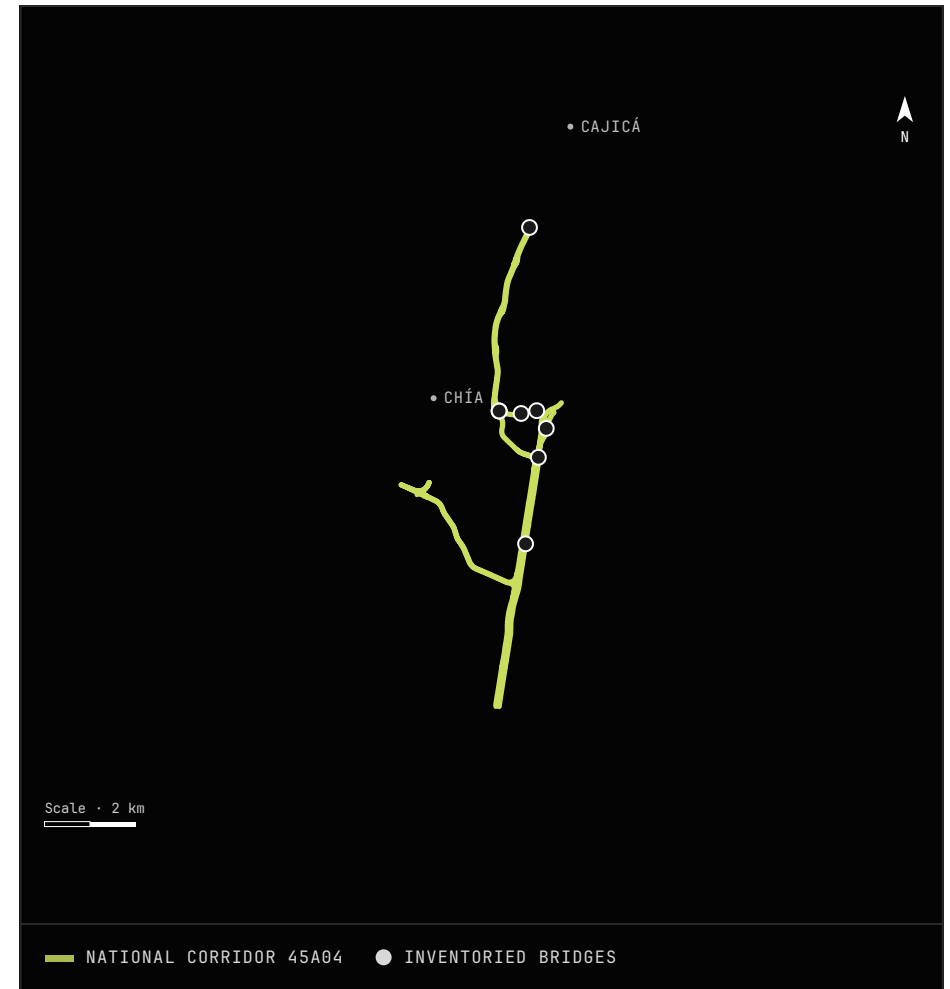
Inventory, pilots and acceptance tests for complete, gradual or hybrid transitions.

DELIVERABLES

- Data model and dictionary
- Enterprise geodatabase in PostGIS or ArcGIS
- Published OGC services (WMS · WFS)
- Web viewers and dashboards
- Governance and support plan

TRACK RECORD

- 15 projects for ISAGEN, including its Integrated Property Management System (SIAP).
- 11 projects for ISA and information systems for UPME and INGEOMINAS.
- Standardisation and consolidation of the City of Medellín geodatabase.



Source: Instituto Nacional de Vías (INVÍAS) · Datos Abiertos Colombia (Licence CC BY-SA 4.0, cut-off 2026-07-01) · Instituto Nacional de Vías (INVÍAS) · Datos Abiertos Colombia (Licence CC BY-SA 4.0, cut-off 2026-07-01) · GeoSAT OpenGIS visualisation

National corridor 45A04 Bogotá–Cajicá and inventoried bridges, integrated from INVÍAS open data.

TECHNOLOGY

ARCGIS PRO

ARCGIS ENTERPRISE

QGIS

POSTGRESQL

POSTGIS

GEOSERVER

OGC APIS

06

— GEOSPATIAL AI · MACHINE LEARNING
GEOSPATIAL AI

AI THAT PRODUCES REVIEWABLE TERRITORIAL EVIDENCE.

GeoSAT combines remote sensing, spatial data and machine learning to prioritise human review, detect change and automate repetitive analysis. Models are evaluated against labelled evidence and remain part of an auditable operational workflow.

WHAT WE DO

01 LAND—COVER CLASSIFICATION

Repeatable classification pipelines using satellite imagery and reviewed training data.

03 CADASTRAL QUALITY CHECKS

Automated detection of inconsistencies, outliers and records requiring field or desktop review.

02 CHANGE DETECTION

Deforestation, urban expansion and land-use alerts prioritised for expert validation.

04 DECISION—SUPPORT MODELS

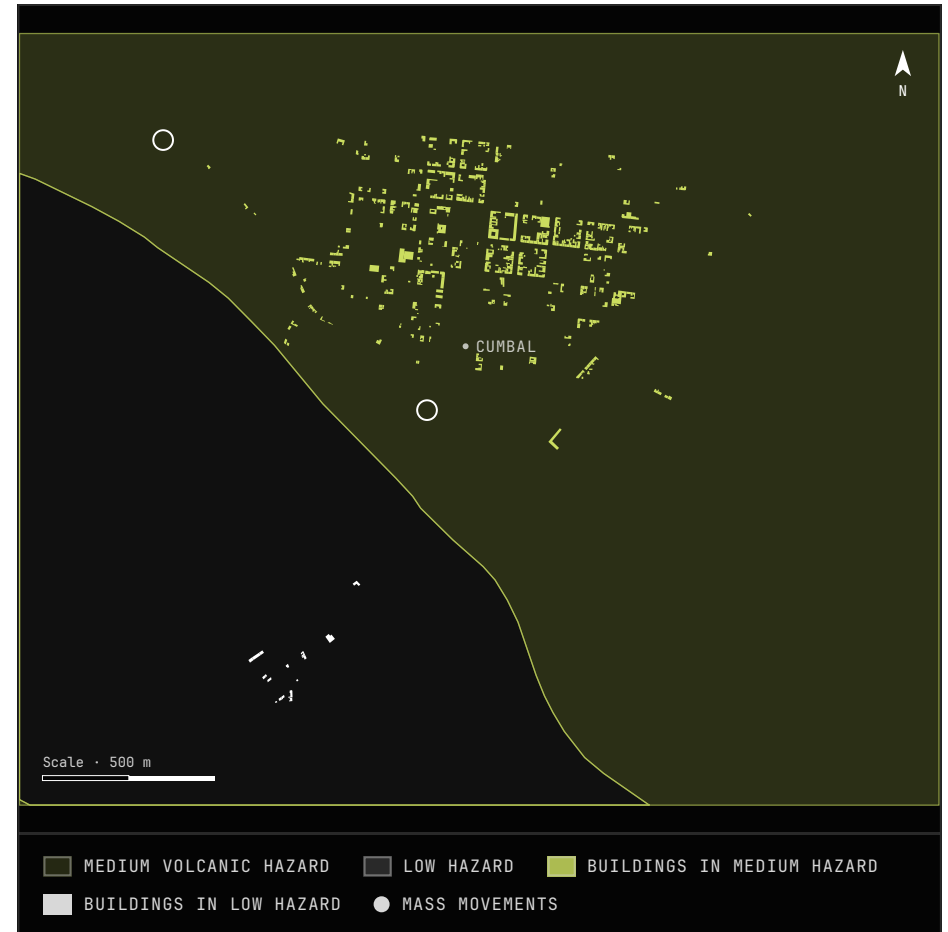
Spatial indicators and forecasts delivered with assumptions, confidence and monitoring criteria.

DELIVERABLES

- Trained model and validation metrics
- Prioritised alert layers
- Automated quality-control rules
- Monitoring dashboard
- Documented assumptions and limits

TRACK RECORD

- Land-cover classification above 90% accuracy on Sentinel-2.
- Automated cadastral validation in Terraes workflows.
- Every result goes through expert validation before it becomes a decision.



Source: Servicio Geológico Colombiano (SGC) (Licence CC BY 4.0, cut-off 2018-07-24) · Instituto Geográfico Agustín Codazzi (IGAC) (Licence CC BY-SA 4.0, cut-off 2026-01-31) · Servicio Geológico Colombiano (SGC) · Grupo de Movimientos en Masa (Licence CC BY 4.0, cut-off 2020-03-10) · GeoSAT OpenGIS visualisation

Cadastral buildings intersected with published volcanic hazard zones in Cumbal (Nariño). A cartographic intersection, not a per-building risk diagnosis.

TECHNOLOGY

PYTHON

PYTORCH

SCIKIT-LEARN

QGIS

POSTGIS

SENTINEL-2

LANDSAT

GOOGLE EARTH ENGINE

07

— SATELLITE MONITORING · REMOTE SENSING

SATELLITE MONITORING

TURN RECURRING IMAGERY INTO OPERATIONAL DECISIONS.

We build monitoring programmes that connect satellite observations with field evidence and accountable decisions. Each indicator has a defined source, frequency, threshold and validation workflow.

WHAT WE DO

01 CROP MONITORING

Vegetation indices and time series for crop condition, water stress and intervention planning.

03 TERRITORIAL MONITORING

Urban growth, infrastructure and environmental indicators compared across consistent periods.

02 FOREST CHANGE

Prioritised alerts for deforestation and land-cover change with traceable imagery dates.

04 OPERATIONAL DASHBOARDS

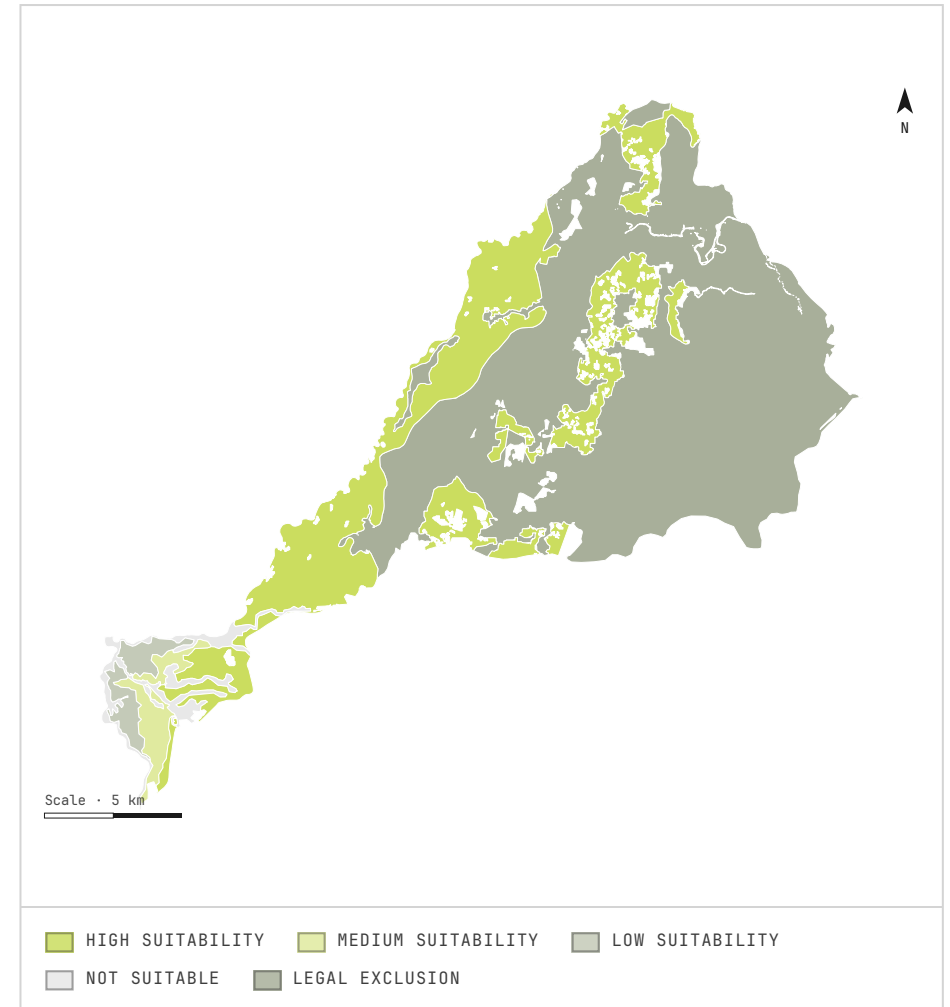
Maps, indicators and work queues connected to the teams responsible for verification and response.

DELIVERABLES

- NDVI · MSAVI · GNDVI time series
- Change alerts with image dates
- Zoning and suitability maps
- Dashboards and verification queues
- Field validation protocol

TRACK RECORD

- Family-farming cadastral census for FAO covering about 2,800 properties in Medellín.
- Partnership with EOS Data Analytics (EOSDA) for crop monitoring.
- Geobristol combines vegetation indices, weather and water-stress alerts.



Source: Unidad de Planificación Rural Agropecuaria (UPRA) · Datos Abiertos Colombia (Licence CC BY-SA 4.0, cut-off 2022-08-11) · GeoSAT OpenGIS visualisation

Coffee suitability zoning in Calarcá (Quindío), built from UPRA open data.

TECHNOLOGY

SENTINEL-1

SENTINEL-2

LANDSAT

EOSDA

GOOGLE EARTH ENGINE

QGIS

POSTGIS

08

— SURVEYING · DRONES · GNSS

SURVEYING AND DRONES

FIELD DATA WITH A DECLARED ACCURACY AND PURPOSE.

GeoSAT plans capture around the decision the data must support. Control, accuracy, coverage, processing and acceptance criteria are defined before mobilisation—not inferred after the flight.

WHAT WE DO

01 AERIAL PHOTOGRAMMETRY

Orthomosaics, terrain and surface models with documented control and processing parameters.

03 LIDAR ACQUISITION

Point clouds and terrain products for corridors, vegetation and complex topography.

02 GNSS SURVEYING

RTK control and field capture for cadastral, engineering and environmental requirements.

04 CADASTRAL IMAGERY

Cartographic inputs prepared for property identification and quality-control workflows.

DELIVERABLES

- Georeferenced orthomosaics
- DTM, DSM and contour lines
- Classified point cloud
- Control and accuracy report
- Delivery in DXF, SHP, GeoPackage or PostGIS

TRACK RECORD

- Aerial photogrammetric survey of the 85 km Altamira–Florencia road.
- Orthophotos as the base for municipal cadastral updates.
- Integrated delivery from field control to GIS-ready products.

PRODUCTS AND ACCURACY

Orthomosaic **3–5 CM/PIXEL**

Digital terrain model (DTM) **±10 CM VERTICAL**

Digital surface model (DSM) **±10 CM VERTICAL**

Contour lines **INTERVAL FROM 0.5 M**

Point cloud **MILLIONS OF POINTS/HA**

85 km

AERIAL PHOTOGRAMMETRIC SURVEY OF
THE 85 KM ALTAMIRA–FLORENCIA ROAD.

Declared accuracy per product. Every delivery includes control points and a processing report.

TECHNOLOGY

GNSS RTK

LIDAR

UAV PHOTOGRAMMETRY

GROUND CONTROL

QGIS

POSTGIS

DIGITAL TERRAIN MODELS



— GEOSPATIAL SOFTWARE

GEOSPATIAL SOFTWARE

**SOFTWARE WHERE THE
DATA AND PROCESS
OUTLIVE THE VIEWER.**

We build geospatial applications around durable data models, documented interfaces and replaceable components. The objective is operational continuity: a new front end should not require rebuilding the database or the business rules.

WHAT WE DO

01 WEB GIS AND GEOPORTALS

Responsive viewers, search, editing and reporting
connected through documented services.

03 LEGACY MODERNISATION

Architecture audits and gradual replacement of tightly coupled viewers, databases and integrations.

02 INSTITUTIONAL PLATFORMS

Role-based workflows, audit trails and integrations for public-sector and infrastructure operations.

04 DATA PRODUCTS AND APIS

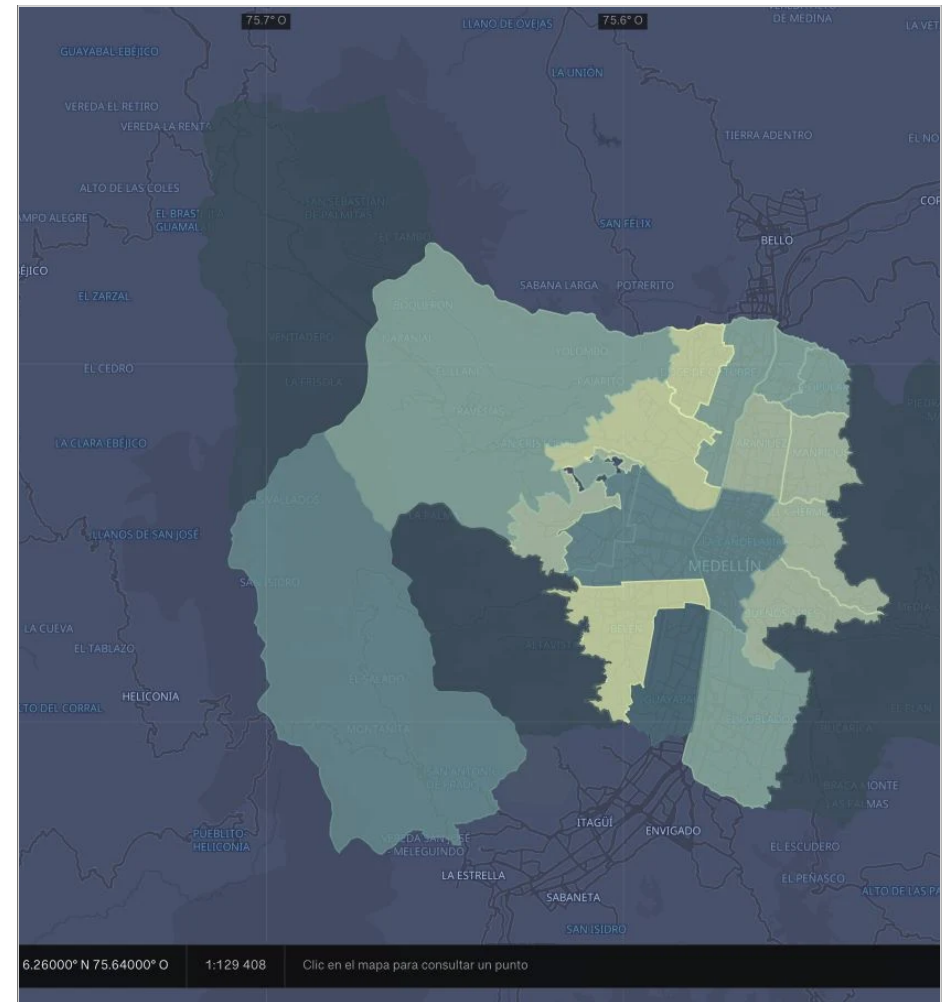
Spatial databases and APIs that can serve multiple applications without duplicating core rules.

DELIVERABLES

- Deployed web or mobile application
- PostGIS database and documented API
- Roles, audit trails and integrations
- Acceptance tests per workflow
- Evolutionary support with SLA

TRACK RECORD

- SGVIAL: Medellín road-network management, evolving since 2006.
- HuecosMED: Best Mobile App in Colombia, 2014.
- Own platforms in use: Terraes, Geovisor, Geobristol and Octograma.



Source: Geovisor de Medellín · datos abiertos del Distrito de Medellín

Medellín geovisor: 2026 population projection by district and rural township, one of the thematic maps in the public viewer built by GEOSAT.

TECHNOLOGY

TYPESCRIPT

REACT

PYTHON

POSTGRESQL

POSTGIS

GEOSERVER

DOCKE

OGC APIS

10 · MODERNISATION

MIGRATE WITHOUT LOSING DATA OR WORKFLOWS.

ArcGIS, MapGIS, Oracle Spatial, Java or MapInfo to QGIS, PostGIS and modern software, with equivalence proven workflow by workflow before operations change.

01

INVENTORY

Data, licences, workflows, integrations and accountable owners.

02

PILOT

One representative workflow, real data and acceptance criteria.

03

OPERATIONS

Security, support, monitoring, recovery and total cost.

ARCGIS TO OPEN-SOURCE MIGRATION

CALCULATOR AND 6 CASES

Inventory, TCO, pilot and acceptance testing to decide what to retain, migrate or rebuild.

MAPGIS MODERNISATION

LAYER-BY-LAYER ARCHITECTURE AND TCO

Version-specific assessment to retain, update, decouple or migrate each component.

GEOSAT OPENGIS DEMO

OPEN, FUNCTIONAL DEMO

Search municipalities, inspect cadastral layers, measure, export and model preliminary scenarios without signing up.

BILLIONS OF PESOS

a year in licensing that an open-source migration can free up, calculated with a layer-by-layer TCO before any decision.

ESRI AND OPEN SOURCE. WE MASTER BOTH.

We implement and run ArcGIS when it is the best option, as in the 15 projects on the ISAGEN GIS. And when licence costs hold an organisation back, we move it to open source without losing functionality.

MIGRATION EQUIVALENCES

ArcGIS Pro · ArcMap	→	QGIS
Enterprise / File Geodatabase	→	PostgreSQL + PostGIS
ArcGIS Server · Enterprise	→	GeoServer · OGC API
ArcGIS Online · Portal	→	GeoSAT OpenGIS · MapLibre
ModelBuilder · ArcPy	→	QGIS Processing · PyQGIS · Python

GEOSAT OPENGIS · OPEN DEMO

Six viewers on official IGAC, SGC, UPRA and INVÍAS data: municipality search, layers, measurement and GeoJSON export without signing up.

geosat.com.co/en/servicios/alternativa-mapgis-demo

— 11 · SOLUTIONS BY SECTOR

FIFTEEN SOLUTIONS, EACH WITH ITS OWN BUYER, EVIDENCE AND FRAMEWORK.

Each solution separates who decides, what evidence they need and which regulatory framework applies.

TERRITORY AND PLANNING

GIS FOR TERRITORIAL PLANNING AND POT

Layer, determinant, metadata, schema and monitoring readiness for POT processes.

TERRITORIAL INTELLIGENCE WITH DANE DATA

Official statistics and geography integrated for prioritisation, coverage and planning.

GIS FOR RISK MANAGEMENT

Integration of hazards, exposure, vulnerability, scenarios and territorial monitoring.

INSAR SUBSIDENCE MONITORING

Ground-deformation time series to prioritise inspection and complement field evidence.

INFRASTRUCTURE AND NETWORKS

UTILITY NETWORK CADASTRE

Inventory, topology, quality and data governance for water, sewer, gas and associated utility assets.

GIS FOR ROAD MANAGEMENT

Road inventory, condition, interventions and traceability on a maintainable geospatial model.

GEOPORTALS AND WEB GIS VIEWERS

Architecture, publishing, accessibility, operations and evolution of web geospatial platforms.

GEOSPATIAL DATA INTEROPERABILITY

Inventory, metadata, quality, catalogues and OGC services aligned with Colombia's ICDE framework.

ENERGY, MINING AND ENVIRONMENT

GIS FOR ENERGY PLANNING

Geospatial models, traceability and prevalidation for generation and transmission projects.

ANLA GEOGRAPHIC STORAGE MODEL

Preparation, review and traceability of MAG deliverables without promising official acceptance.

GIS FOR MINING

Titles, restrictions, operations, environmental evidence and spatial traceability for mining decisions.

GIS FOR POMCA AND WATERSHEDS

Watershed information, zoning, land-use conflict and monitoring structures.

AGRICULTURE, CLIMATE AND FIELD

EUDR TRACEABILITY AND GEOLOCATION

Plot geometry, evidence and traceability preparation for regulated supply chains.

MRV FOR CARBON AND NATURE

Baselines, plots, monitoring, evidence and geospatial traceability for nature projects.

OFFLINE FIELD CAPTURE WITH QFIELD

Forms, synchronisation, quality controls and field-team operations without continuous connectivity.

OUR SOFTWARE, USED EVERY DAY.

TERRAES.

terraes.com**MULTIPURPOSE CADASTRE · NATIVE LADM-COL**

Auditable cadastral operation: per-parcel records, traceable field work, and RIC/XTF deliverables validatable by IGAC. Used in cadastral update projects across 9 municipalities — defensible under technical and fiscal review.

- NATIVE LADM-COL · EPSG:9377
- RIC/XTF VALIDATABLE BY IGAC · SINIC
- USED IN 9 ANTIOQUIA MUNICIPALITIES
- CITIZEN VIRTUAL OFFICE

Geobristol

AGRO
+ PRECISIÓNagro.geobristol.com**PRECISION AGRICULTURE · AI · EOSDA**

Satellite analytics for crops with predictive yield models. ~2,800 active farmers in Medellín within the FAO food security project.

- AI MODELS FOR PREDICTION
- NDVI · MSAVI · GNDVI MONITORING
- ~2,800 ACTIVE FARMERS
- FAO PROJECT · FOOD SECURITY

OCTOGRAMA

octograma.com**PUBLIC TENDER INTELLIGENCE · SECOP II**

Decision support for public tenders: win probability, eligibility in 30 seconds, and a competitor map. Trained on real SECOP history — not a generic LLM.

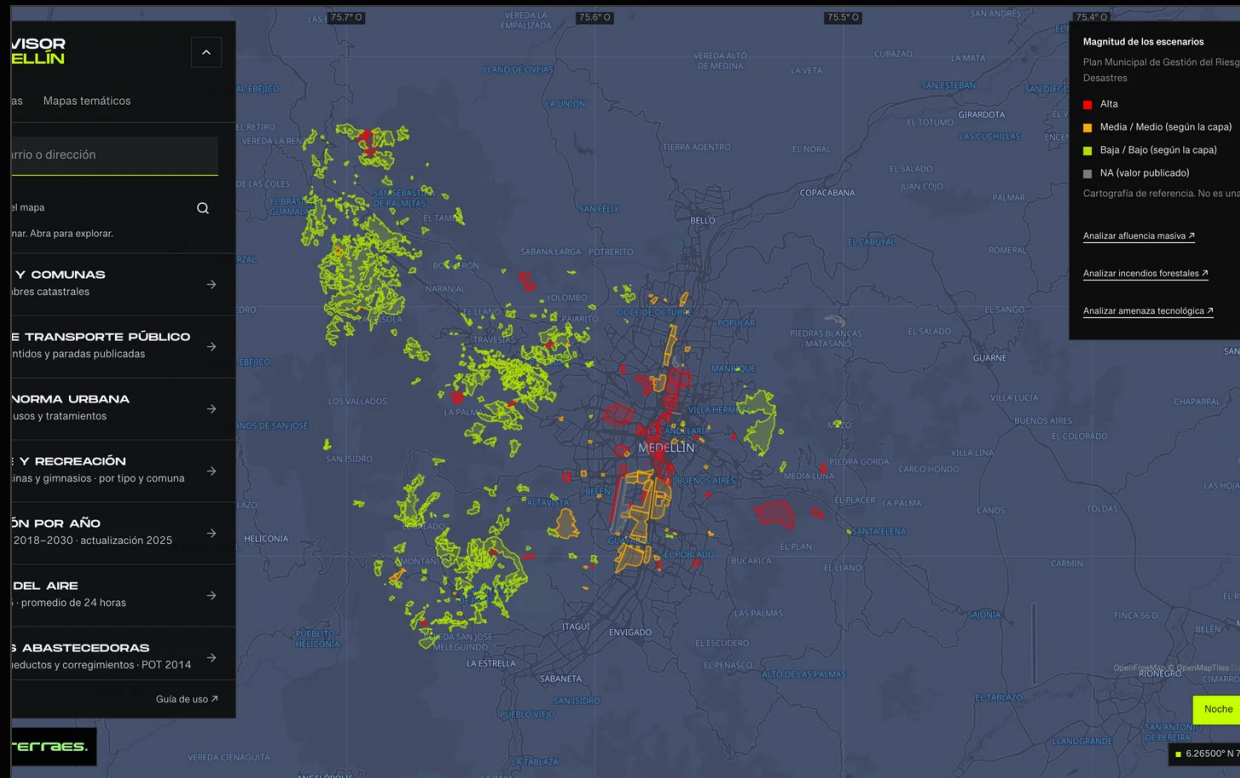
- CALIBRATED WIN PROBABILITY (ECE 8.7%)
- DECREE 1082 ELIGIBILITY IN 30S
- 205,800+ PROFILED COMPETITORS
- SECOP II AMENDMENTS WITH 8-MIN LAG

SGVIAL

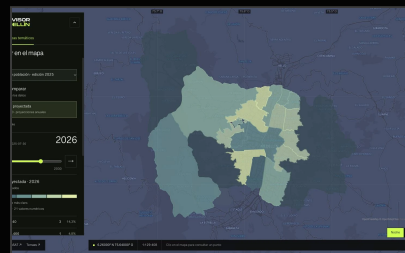
ROAD MANAGEMENT · CITY OF MEDELLÍN

Medellín's road-network management system: inventory, condition, intervention planning and works tracking. HuecosMED, its citizen app, was named Best Mobile App in Colombia in 2014.

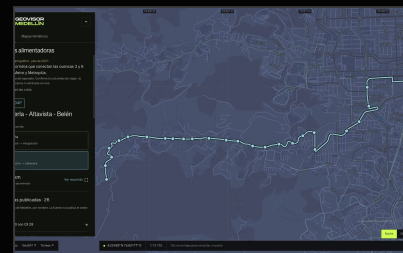
- EVOLVING SINCE 2006
- MIGRATED FROM ARCGIS TO OUR OWN STACK
- PUBLIC ROAD-CONDITION LOOKUP



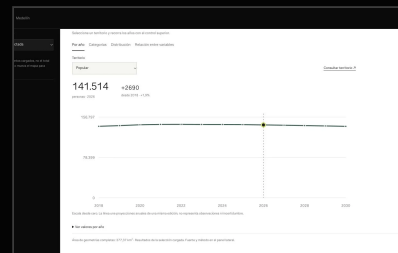
RISK SCENARIOS



THEMATIC MAP



ROUTES



ANALYSIS

— MEDELLÍN GEOVISOR · LIVE

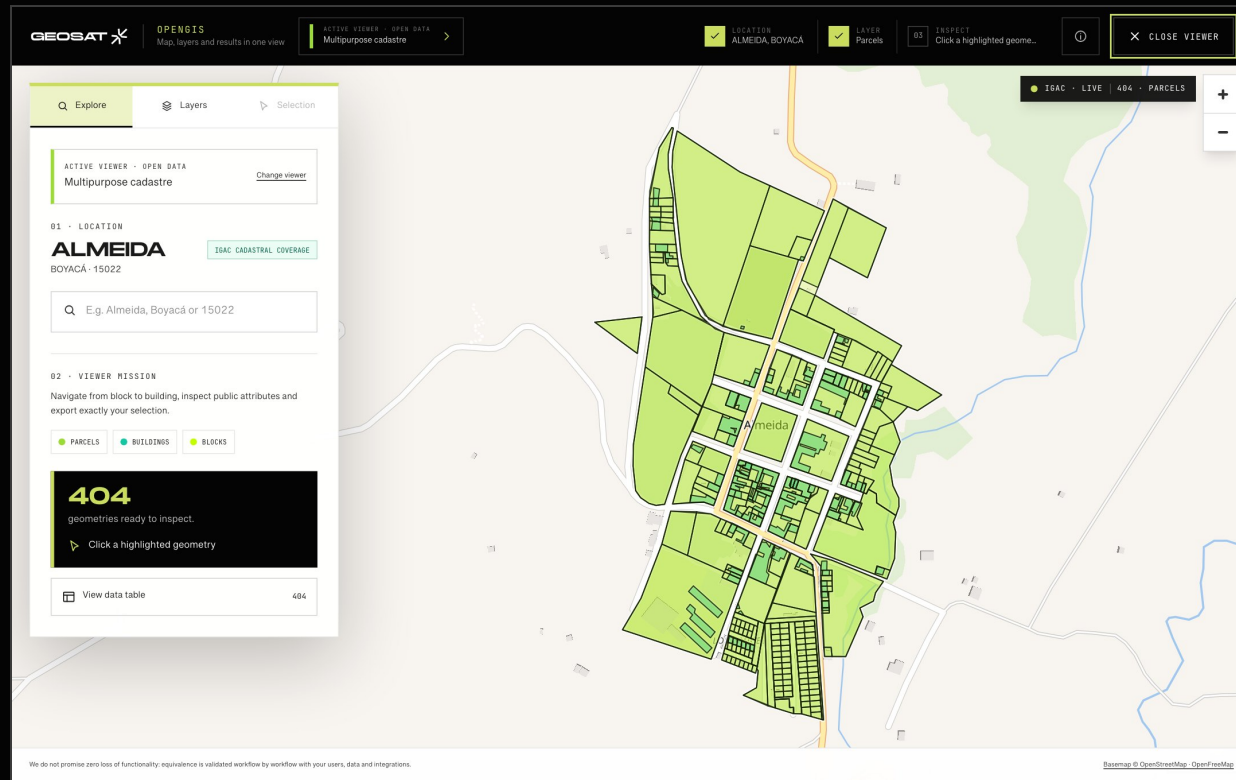
GEOVISOR

A PUBLIC GEOVIEWER FOR DECIDING ABOUT THE CITY.

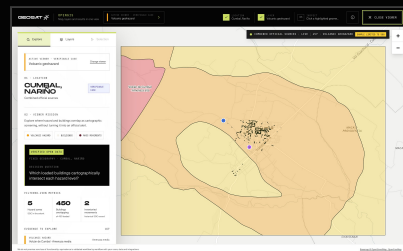
Explore 121 public Medellín layers: neighbourhoods, planning rules, risk conditions, facilities, transport and cadastre, with dates and limitations visible on every layer.

- PMGRD risk scenarios and rainfall histories
- Thematic maps and statistics by district and neighbourhood
- Published public-transport routes and stops
- Combined queries, export and shareable links

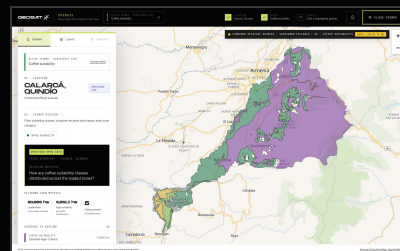
geosat.com.co/en/mapas/medellin



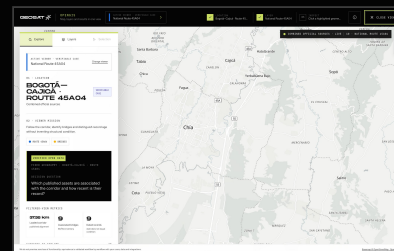
CADASTRE · ALMEIDA (BOYACÁ)



VOLCANIC HAZARD · CUMBAL



COFFEE SUITABILITY · CALARCÁ



ROAD CORRIDOR 45A04

— GEOSAT OPENGIS · OPEN DEMO

OPENGIS

THE OPEN ALTERNATIVE TO ARCGIS AND MAPGIS, UP AND RUNNING.

Six viewers on official IGAC, SGC, UPRA and INVÍAS data, built only with open-source components: municipality search, cadastral layers, measurement, filters and GeoJSON export without signing up. Proof that the migration works before anyone signs it.

- IGAC public cadastral base by municipality
- Volcanic risk, coffee suitability and road corridor cases
- PostGIS · GeoServer · MapLibre · QGIS
- TCO calculator to decide what to migrate

geosat.com.co/en/servicios/alternativa-mapgis-demo



SIAP · ADMINISTRACIÓN
PREDIAL

Estás en: Arriendos → Contratos

Tamaño del texto A A+

Contratos de arrendamiento

Gestiona los contratos y sus condiciones.

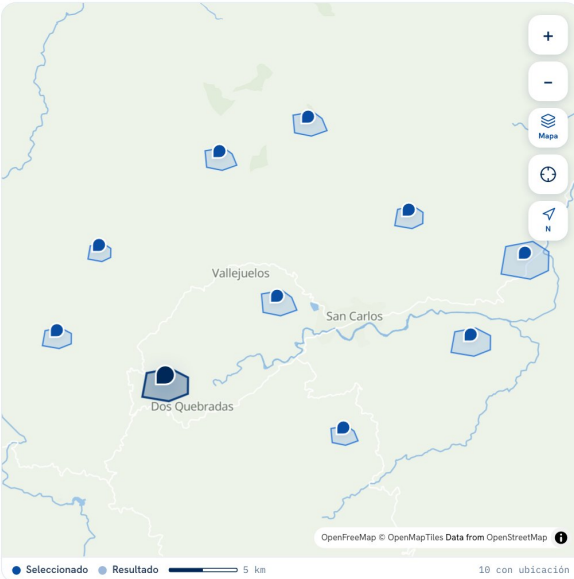
Solo datos Solo mapa Datos y mapa Cálculo IPC Consolidado por central Exportar a Excel **Agregar contrato**

Busca por contrato, activo fijo o escritura...

Filtros (0)

10 contratos

Predio La Aurora	CA-SC-2022-014
Finca El Porvenir	CA-SC-2023-021
Hacienda Los Guadales	CA-SC-2021-007
Predio Villa Clara	CA-SC-2024-002
Lote El Diamante	CA-SC-2020-031
Finca La Esperanza	CA-SC-2023-044
Predio Alto Bonito	CA-JA-2022-011
Hacienda San Isidro	CA-SC-2019-018
Predio La Palmera	CA-SC-2024-009
Finca El Recreo	CA-JA-2023-005



OpenFreeMap © OpenMapTiles Data from OpenStreetMap

● Seleccionado ● Resultado 5 km 10 con ubicación

PANEL

Inicio

JURÍDICO

Predios

Servidumbres

SIAP vs SAP

Carga masiva

ARRIENDOS

Contratos

Predios para arriendo

Seguimiento de pagos

FISCAL

Compensación

VISTOS HACE POCO

CA-SC-2021-007 Hacienda Los Gu...

SC-0142 Predio La Aurora

MG Mariana Gómez
Puede editar en esta pantalla

Cerrar sesión

LEASES ON THE MAP



SIAP · ADMINISTRACIÓN
PREDIAL

Estás en: Predios

Tamaño del texto A A+

Predios

Gestiona los predios y sus condiciones.

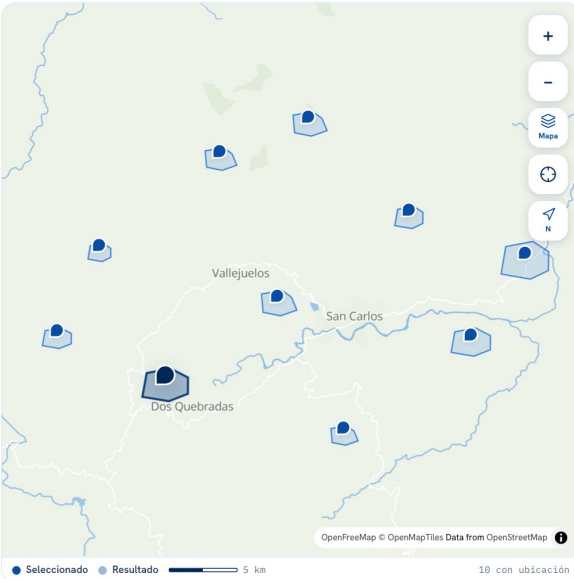
Solo datos Solo mapa Datos y mapa Cálculo IPC Consolidado por central Exportar a Excel **Agregar predio**

Busca por predio, activo fijo o escritura...

Filtros (0)

10 predios

Predio La Aurora	CA-SC-2022-014
Finca El Porvenir	CA-SC-2023-021
Hacienda Los Guadales	CA-SC-2021-007
Predio Villa Clara	CA-SC-2024-002
Lote El Diamante	CA-SC-2020-031
Finca La Esperanza	CA-SC-2023-044
Predio Alto Bonito	CA-JA-2022-011
Hacienda San Isidro	CA-SC-2019-018
Predio La Palmera	CA-SC-2024-009
Finca El Recreo	CA-JA-2023-005



OpenFreeMap © OpenMapTiles Data from OpenStreetMap

● Seleccionado ● Resultado 5 km 10 con ubicación

PANEL

Inicio

JURÍDICO

Predios

Servidumbres

SIAP vs SAP

Carga masiva

ARRIENDOS

Contratos

Predios para arriendo

Seguimiento de pagos

FISCAL

Compensación

VISTOS HACE POCO

CA-SC-2021-007 Hacienda Los Gu...

SC-0142 Predio La Aurora

MG Mariana Gómez
Puede editar en esta pantalla

Cerrar sesión

PROPERTIES

PROPERTY RECORD

HOME

— SIAP · ISAGEN · 2026 REDESIGN

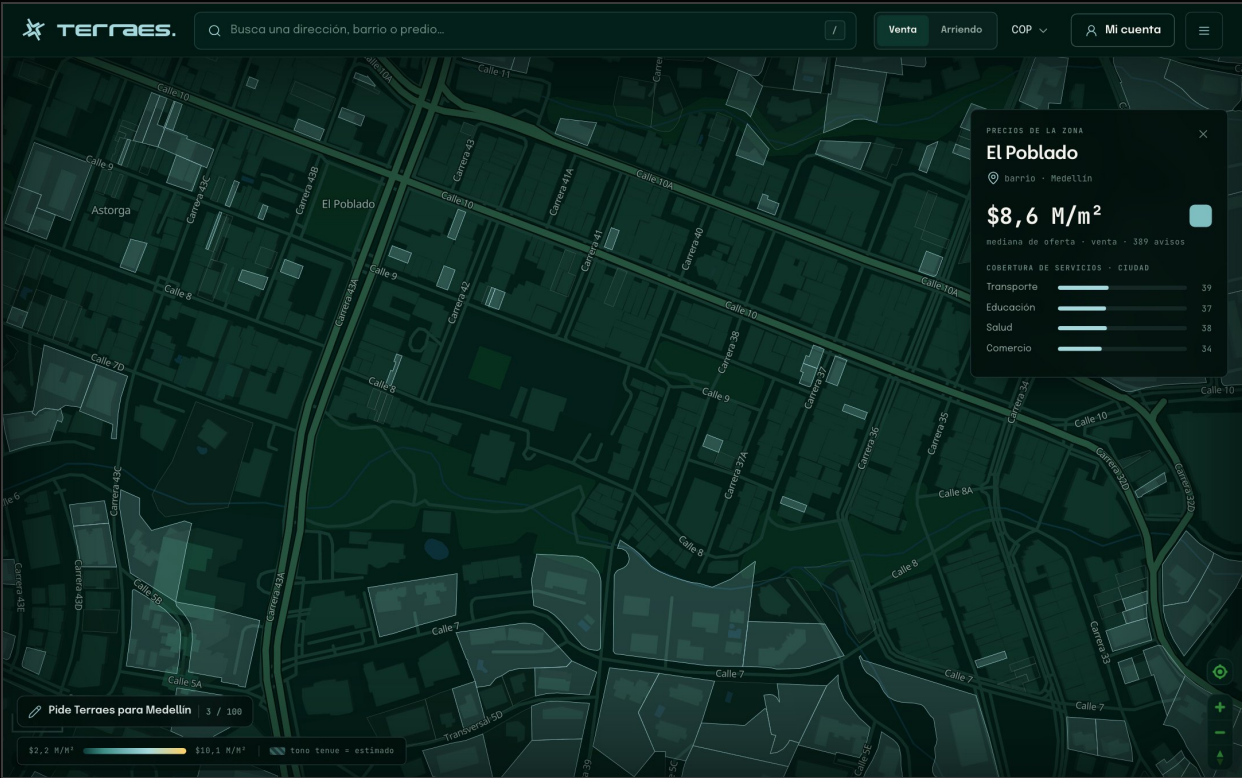
SIAP

PROPERTY MANAGEMENT FOR A POWER GENERATOR, REDESIGNED.

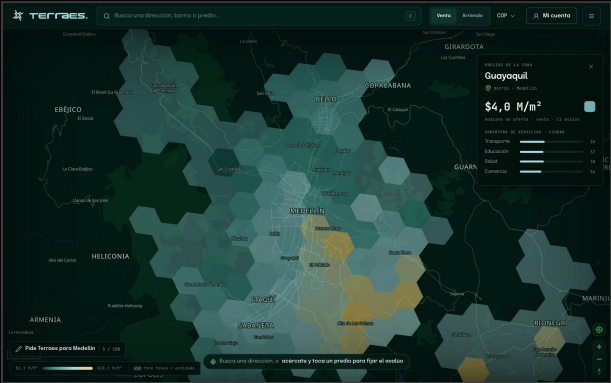
The new interface of the Integrated Property Management System that GEOSAT builds and maintains for ISAGEN: search first, the full property record in one view and a list connected to the map.

- Legal, lease, easement, environmental and tax modules
- Lease contracts and payments on the map
- ISAGEN design system with dedicated components
- Vue 3 and MapLibre on the existing backend

REDESIGN MOCKUPS WITH ILLUSTRATIVE DATA; SOME FEATURES SHOWN ARE IN DEVELOPMENT.



PARCELS · EL POBLADO



VALUES BY AREA · ABURRÁ VALLEY

TERRAES · CITIZEN VALUATION · CADASTRE

TERRAES

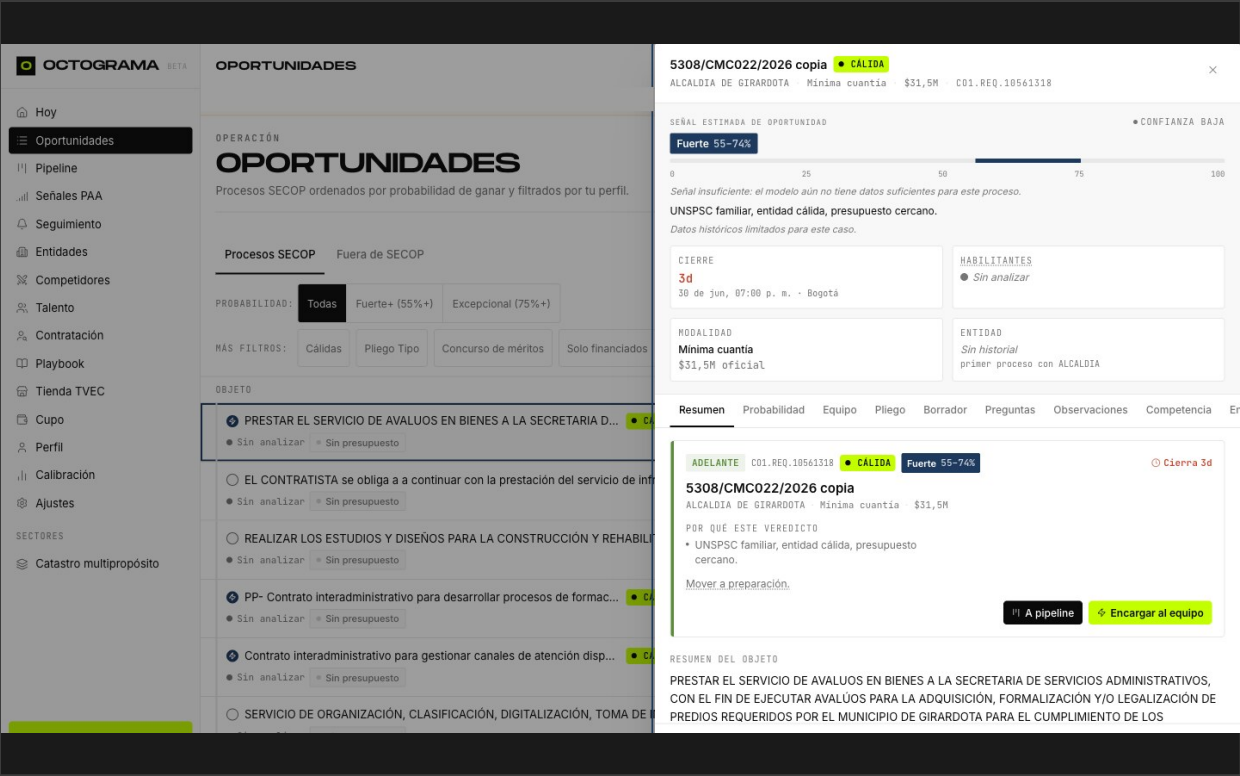
LAND VALUE AND CADASTRAL OPERATIONS ON ONE PLATFORM.

Terraes combines a public map of values by neighbourhood and by parcel with the LADM-COL cadastral operations platform: migration, offline fieldwork, quality control, valuation, citizen service and RIC/XTF delivery on the same parcel record.

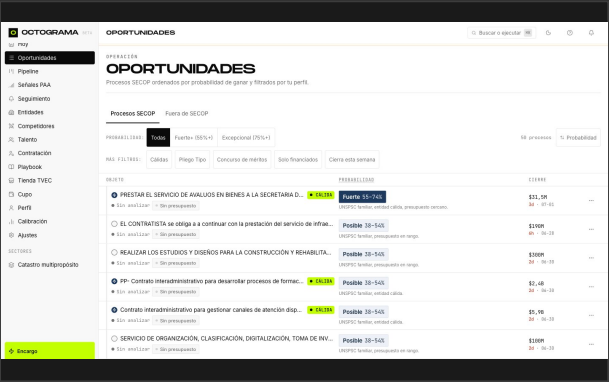
- Median asking price by neighbourhood with range and evidence
- Service coverage by area
- Native LADM-COL · validatable RIC/XTF
- Used in cadastral updates across 9 municipalities

terraes.com

MAP VALUES ARE ESTIMATES, NOT OFFICIAL APPRAISALS.



TENDER DETAIL



OPPORTUNITIES

OCTOGRAMA · TENDER INTELLIGENCE

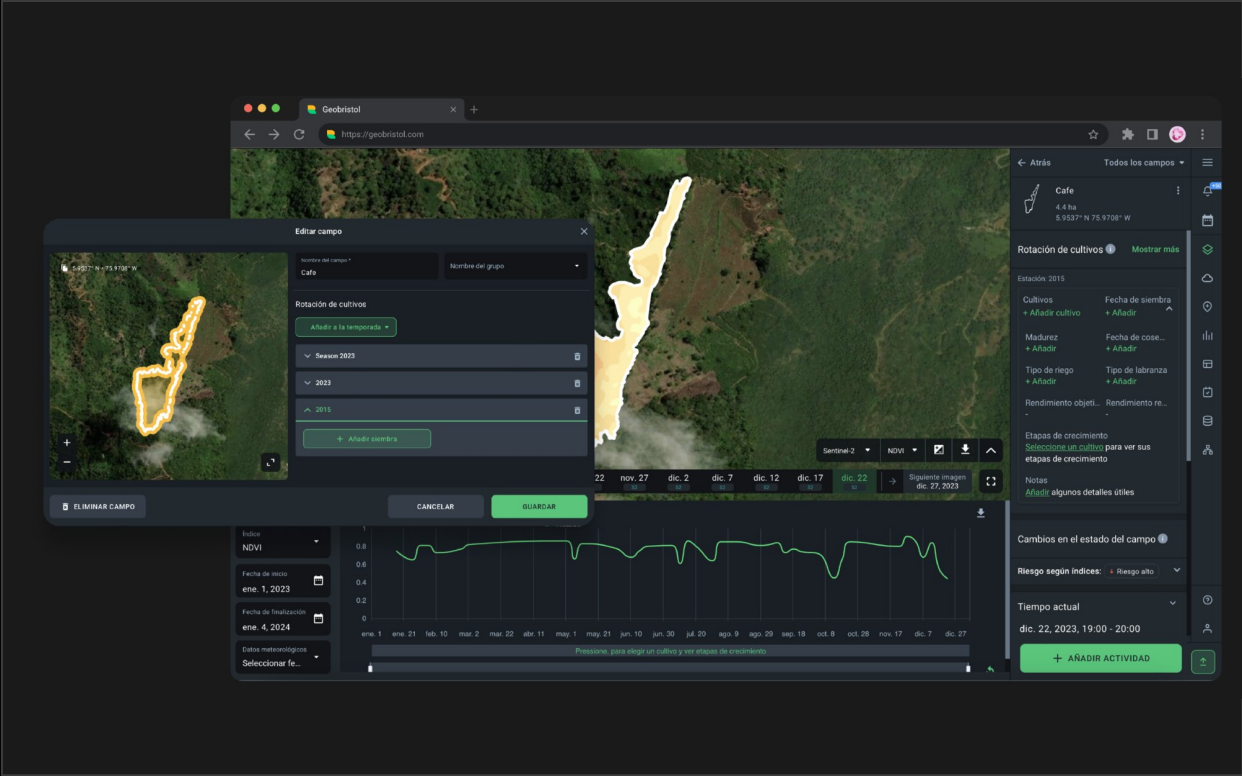
OCTOGRAMA

EVERY SECOP TENDER, WITH ITS ODDS OF WINNING.

Decision support for public tenders: calibrated win probability, eligibility checks in seconds and a competitor map, with models trained on SECOP's real history.

- Calibrated win probability (ECE 8.7%)
- Decree 1082 eligibility in 30 s
- 205,800+ competitors profiled
- SECOP II addenda with 8-minute latency

octograma.com



— GEOBRISTOL · PRECISION AGRICULTURE

GEOBRISTOL

SATELLITE CROP MONITORING, FIELD BY FIELD.

An agricultural satellite-analytics platform built on EOSDA: vegetation indices, crop rotation, growth stages and alerts per field. Developed for the FAO food-security project with about 2,800 farmers in Medellín.

- NDVI · MSAVI · GNDVI series on Sentinel-2
- Field record: crop, sowing, irrigation and yield
- Index-based risk and water-stress alerts
- FAO project · food security

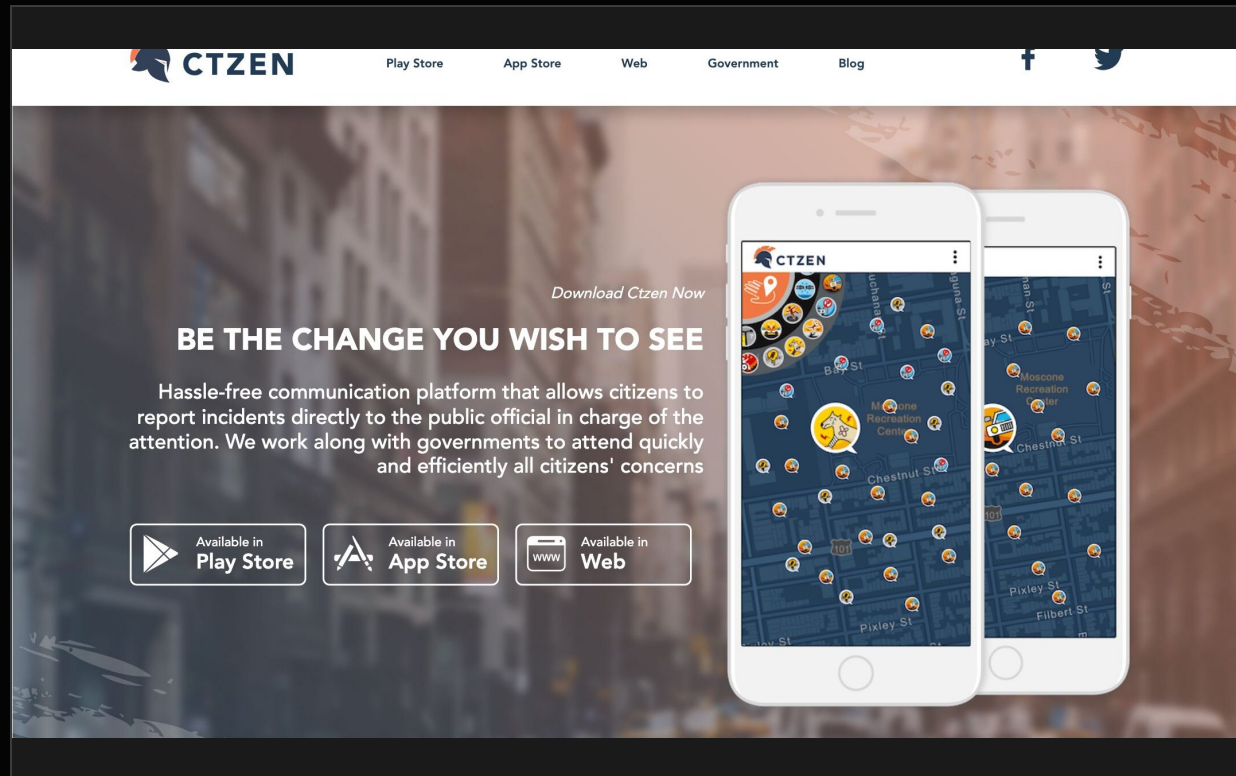
FIELD MONITORING



agro.geobristol.com

PLATFORM DEVELOPED BY GEOSAT · IMAGES FROM
[AGRO.GEOBRISTOL.COM](https://agro.geobristol.com).

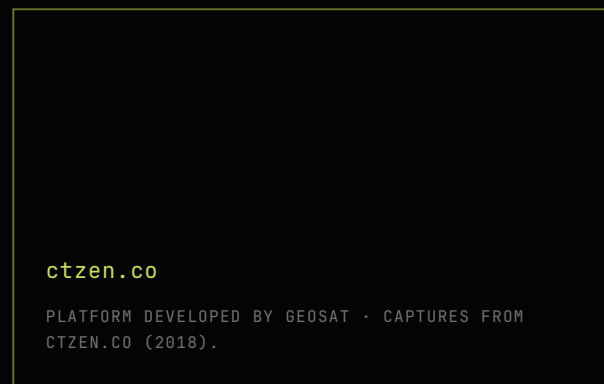
NDVI SERIES PER PLOT



APP AND WEB



INTERACTIVE MAP



CTZEN · CITIZEN PARTICIPATION

CTZEN

CITIZEN REPORTS THAT REACH THE OFFICIAL IN CHARGE.

A communication platform between citizens and governments: the citizen takes a photo, marks the location and incident type, and the report goes straight to the agency that must handle it. Android and iOS apps, a web version and an interactive map.

- Three-step report: photo, location and incident type
- Interactive report map for citizens and government
- Notifications and early alerts
- Deployed at Universidad Nacional, Medellín campus (2018)

— 13 · FLAGSHIP PROJECTS

PROJECTS THAT DEFINE US.

ARD INC. · IGAC REGISTRY 2024 · 1 CONTRACT SERRANÍA DE CHIRIBIQUETE NATIONAL PARK Cadastral formation for the Amazonian national park listed by UNESCO as a mixed World Heritage site, in Caquetá and Guaviare. 4.2 M HECTARES	ISAGEN REGISTRY 2010-2025 · 4 CONTRACTS SIAP · PROPERTY MANAGEMENT Spatial and legal information system for the properties of ISAGEN's hydroelectric plants, integrated with the corporate ERP. Lease module added in 2025. 15 PROJECTS WITH ISAGEN	CITY OF MEDELLÍN REGISTRY 2017-2025 · 4 CONTRACTS SGVIAL · ROAD NETWORK Road inventory, pavement condition, intervention planning and public lookup. Migrated from ArcGIS to a GeoSAT-built architecture. 2006 EVOLVING SINCE
CITY OF MEDELLÍN REGISTRY 2003-2004 · 2 CONTRACTS URBAN CADASTRAL MAPPING Digitisation of urban cadastral mapping linked to the municipal data model. 130,000 CADASTRAL RECORDS	FAO (UN) REGISTRY 2022-2023 · 1 CONTRACT FAMILY-FARMING CENSUS Cadastral census of family farming in Medellín plus a crop-monitoring tool for every characterised plot. ≈2,800 PROPERTIES	SURTIGAS · GASES DEL CARIBE REGISTRY 2021-2023 · 3 CONTRACTS NATIONAL PARCEL NUMBER MATCHING Matching of natural-gas customer databases to the National Parcel Number (NPN) in line with current regulation. +1 M CUSTOMERS

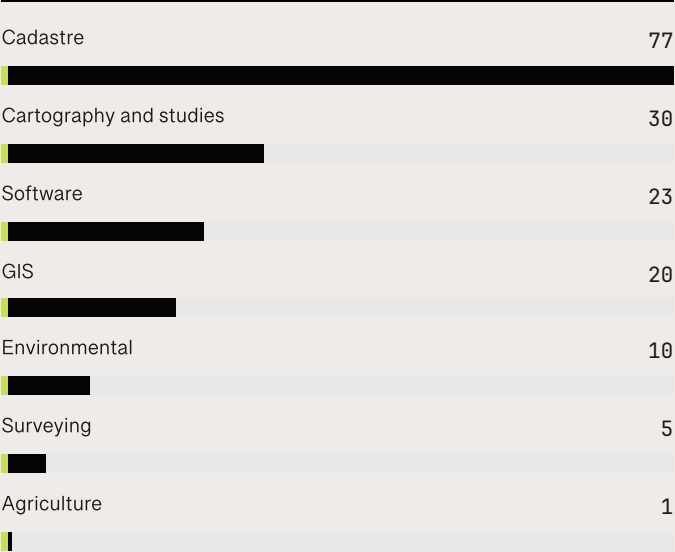
14 · TRACK RECORD IN NUMBERS

PROJECTS BY CATEGORY, WITH NAMES ATTACHED.

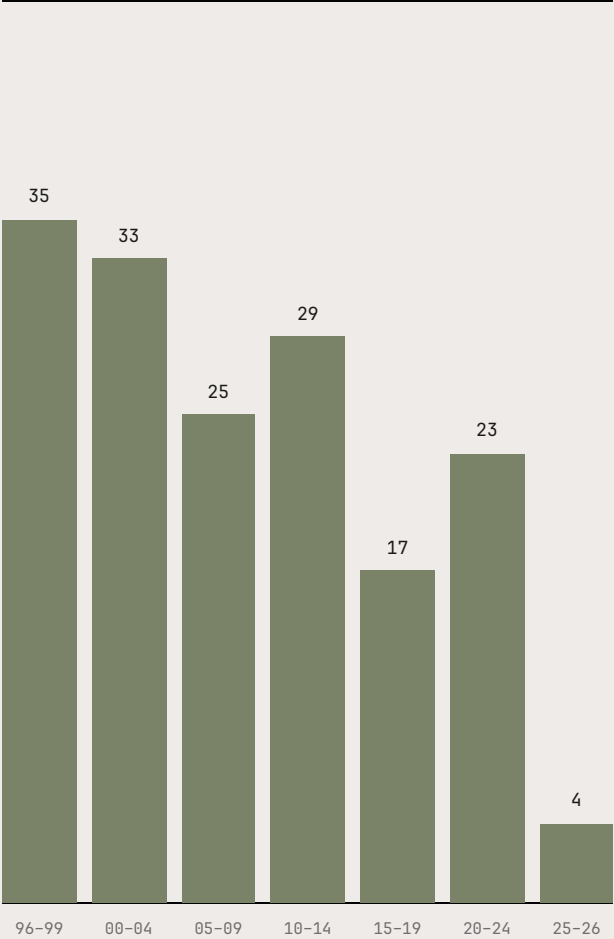
166

PROJECTS · 1996-2026

PROJECTS BY CATEGORY



PROJECTS STARTED PER FIVE-YEAR PERIOD



CLIENTS IN THE REGISTRY

ISAGEN	15	Medellín	15
ISA	11	U. de Antioquia	8
INGEOMINAS	3	Área Metropolitana	2
CORNARE	2	Gobernación de Antioquia	2
Surtigas	2	Acueducto de Bogotá	1
CORANTIOQUIA	1	EPM	1
FAO	1	Gases del Caribe	1
Hidroituango	1	IGAC	1
Metroplús	1	Presidencia	1
Ruta N	1	UPME	1

SOURCE: GEOSAT INTERNAL PROJECT REGISTRY

METHODOLOGY AND STANDARDS.

01

CONSULTING

Technical diagnosis with the client team. We define area of interest, scale, deliverables and timeline. Typically 1-2 weeks.

BRIEF · ROADMAP · KPIS

02

CAPTURE

Drones, GNSS RTK, satellite scenes and field work. For an average municipality: 4-8 weeks of direct and indirect capture.

DRONES · GNSS · SATELLITE

03

SOLUTION

AI-powered processing, modeling and development. LADM-COL standards validation. Typical processing: 4-12 weeks depending on volume.

QGIS · POSTGIS · PYTHON · AI

04

OPERATIONS

Deployment, client team training and continuous support with SLA. Accompaniment throughout the entire operation.

SUPPORT · SLA · UPGRADES

STANDARDS AND TECHNOLOGY

AI

GEOSPATIAL AI
Machine learning models for land cover classification, predictive territorial analysis, change detection and agricultural yield prediction.

QGIS

QGIS
Desktop and server GIS.

PG

POSTGIS
Geospatial database on PostgreSQL.

PY

PYTHON
Automation, AI models, satellite image processing and geospatial scripting with GeoPandas, Rasterio and Scikit-learn.

ISO

ISO 19152 · LADM
Land Administration Domain Model.

XTF

LADM-COL · XTF
Terraes exports natively in XTF format.

EOS

EOSDA
Partnership with EOS Data Analytics for satellite crop monitoring.

GS

GEOSERVER
Geospatial data publishing via WMS, WFS and WCS.

ARC

ARCGIS
Implementation and consulting on the Esri platform.

UAV

DRONES & LIDAR
Photogrammetry, digital terrain models, orthoimages and data capture with sub-meter GNSS RTK precision.

SAT

SENTINEL & LANDSAT
Satellite scene processing for crop monitoring, land cover change detection and territorial analysis.

TELL US ABOUT YOUR PROJECT.

We reply within 48 business hours with an initial assessment and the next step.

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