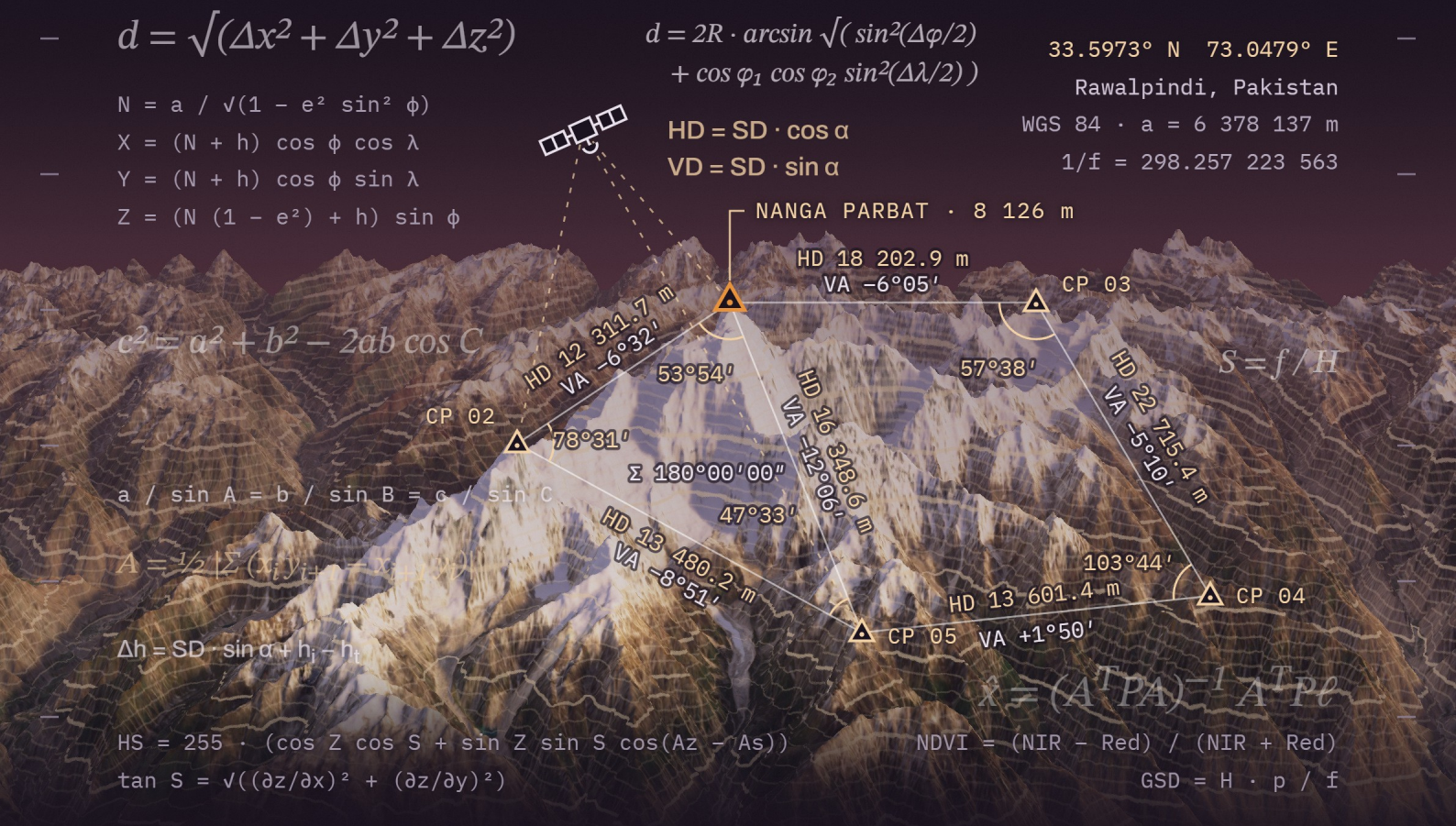
COMPANY PROFILE 2026



Pioneering geospatial intelligence.

Global GIS, Remote Sensing & Geospatial Solutions Provider

GEOINFORMATIC SERVICES

GIS · REMOTE SENSING · LAND SURVEYING · DRONE MAPPING
WEBGIS · AI AUTOMATION · CADASTRAL MAPPING · TRAINING

www.geoinformaticservices.com

+92 313-5561075

ABOUT GEOINFORMATIC SERVICES

We transform complex geographic data into effortless spatial clarity for modern enterprises and governments countrywide.

At GEOINFORMATIC Services, we specialize in providing high-quality Geographic Information System (GIS) solutions tailored to meet the evolving needs of modern industries. We combine technical precision with on-ground experience to deliver reliable, cost-effective, and innovative geospatial solutions.

We are a team of experienced GIS professionals, analysts, and engineers. Our multidisciplinary team combines surveyor fieldwork with advanced satellite imagery analysis, LiDAR cloud processing, and enterprise PostGIS data engineering, across Pakistan and international markets.

OUR CLIENTS

Verified by Survey of Pakistan standards and trusted on national digital land record modernizations.

- Survey of Pakistan
- LIMS COE
- Population Center Pakistan
- Asian Consulting Engineers
- AI Geo Navigators

+ and many more

Government authorities, development agencies and private-sector organisations across Pakistan.

5+	10+	15+	100k+
Years of experience	Projects delivered	Enterprise & government partners	sq. km mapped & surveyed

WHAT WE DO

Everything you need for geospatial, surveying & AI intelligence.

From satellite Earth observation to enterprise GIS architectures, precision geodetic surveying, and custom AI agents: our full suite of 11 specialized services.

01	**GIS Services & Spatial Systems** Geodatabases · Cadastral & LIS · Spatial analysis · Web & mobile GIS	p. 04
02	**Remote Sensing & Earth Observation** Satellite imagery · Image processing · Photogrammetry · Climate monitoring	p. 05
03	**Land Surveying & Geodetic Services** Control networks · Cadastral & boundary · Topographic · Hydrographic	p. 06
04	**Drone Survey & 3D Mapping (UAV)** Aerial acquisition · Mapping products · Specialized applications	p. 07
05	**WebGIS & Full Stack Development** Frontend development · Backend & cloud	p. 08
06	**AI Integration & Geospatial Automation** Pattern recognition · Geospatial automation · Predictive modeling	p. 09
07	**AI Bots & Business Automation** Conversational AI · Automation & integration	p. 09
08	**Urban Planning & Smart Infrastructure** Urban & regional planning · Infrastructure & utilities · Transportation	p. 10
09	**Environment & Precision Agriculture** Agriculture & food security · Forestry & wildlife · Water resources	p. 11
10	**Maps Production, Digitization & Land Records** Documents & records · Land records · GIS & spatial data · Processing	p. 12
11	**Advisory, Research & Training Workshops** Capacity building · Consultancy & research	p. 13

Product spotlight: our model WebGIS for housing societies, with screens and salient features. pp. 14–17

SERVICE 01

GIS Services & Spatial Systems

End-to-end Geographic Information Systems implementing spatial geodatabases, web portals, enterprise architecture, and multi-layered spatial analysis.



Database & System Development

- Enterprise GIS design
- Spatial databases (PostGIS, ArcGIS)
- Geodatabase modeling
- Data integration
- Metadata creation

Mapping & Spatial Analysis

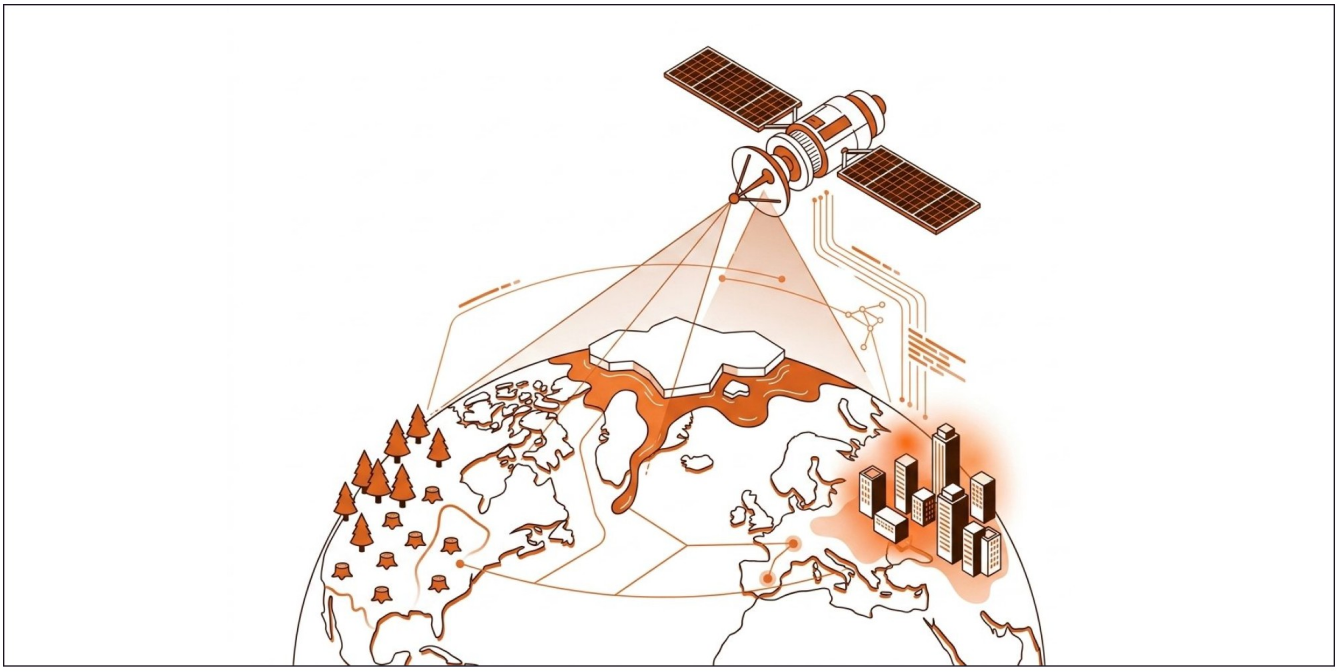
- Thematic & analytical mapping
- Suitability analysis
- Network analysis
- Change detection
- 2D/3D visualization

Cadastral & LIS

- Digital land settlement systems
- Parcel fabric & topology
- Land record digitization
- Valuation & taxation support

Web & Mobile GIS

- Web-based portals & dashboards
- Mobile data collection apps
- Real-time visualization
- API development



SERVICE 02

Remote Sensing & Earth Observation

High-resolution satellite analytics, SAR interferometry, multispectral classification, and environmental monitoring for global insights.

Satellite Imagery

- High-res optical/SAR procurement
- Multispectral/Hyperspectral analysis
- Image orthorectification

Image Processing

- LULC mapping
- Change detection
- Crop classification
- EIA support
- Urban sprawl analysis

Photogrammetry

- UAV/drone surveys
- Orthophoto & DSM/DTM
- 3D point clouds
- Volumetric analysis

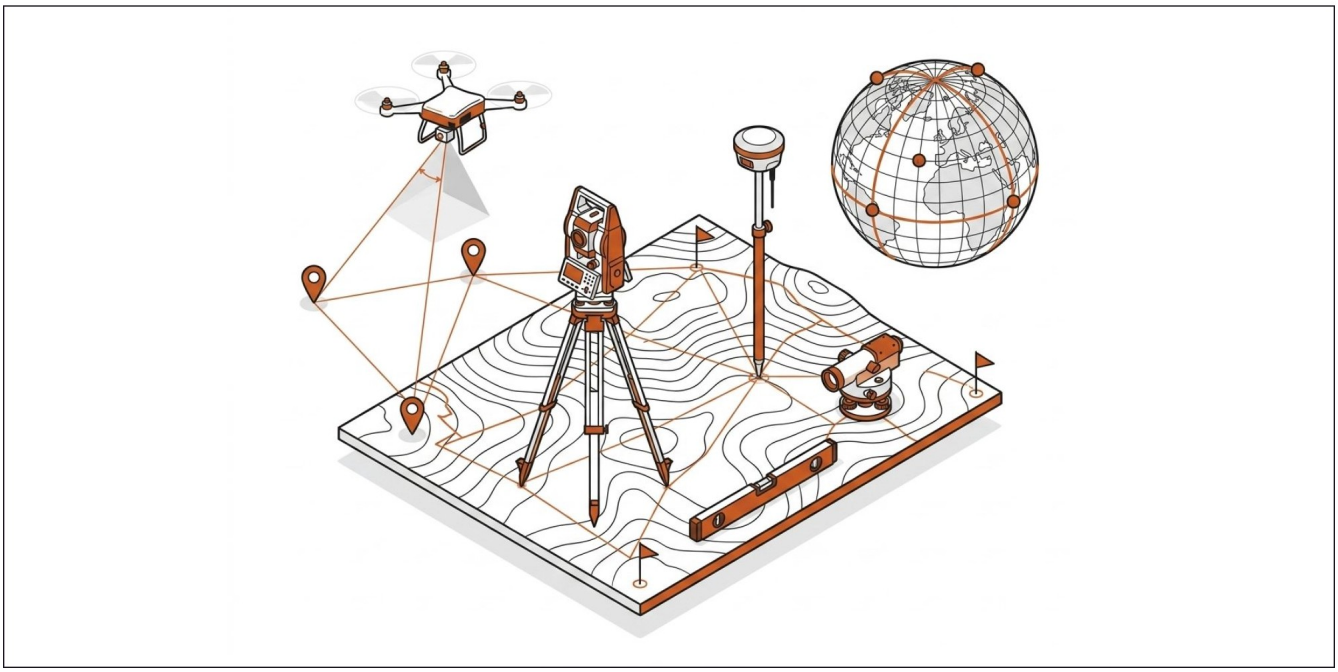
Climate Monitoring

- Vegetation indices (NDVI)
- Disaster risk assessment
- Soil moisture studies
- Climate change mapping

SERVICE 03

Land Surveying & Geodetic Services

Millimeter-level geodetic control networks, high-precision cadastral boundaries, engineering route alignments, and hydrographic charting.



Control & Reference Surveys

- Horizontal/Vertical control networks
- GNSS static, rapid static, & RTK
- Geodetic benchmarks & pillars
- CORS integration
- Datum transformation

Cadastral & Boundary

- Rural & Urban land parcel mapping
- Demarcation of property/revenue estate
- Subdivision (Tatima) & amalgamation
- Tri-junction/Boundary pillars
- Legal dispute support

Topographic & Engineering

- Large-scale topographic surveys
- Contour generation & terrain profiling
- Route alignment (roads, canals, pipelines)
- Construction staking & as-built surveys
- Deformation monitoring

Hydrographic & Bathymetric

- River, canal, & lake surveys
- Cross-section & longitudinal profiling
- Floodplain & river morphology
- Sedimentation & dredging surveys



SERVICE 04

Drone Survey & 3D Mapping (UAV)

Ultra high-resolution UAV aerial photogrammetry, centimeter-accurate LiDAR point clouds, digital surface models, and corridor mapping.

Aerial Acquisition

- High-res aerial surveys
- Vertical & Oblique imagery
- Terrain-following flights

Mapping Products

- Orthomosaics
- DSM/DTM Generation
- Contour Generation
- 3D Models

Specialized Applications

- Cadastral Support
- Infrastructure Corridors
- Urban Base Mapping
- Crop Health Analysis

SERVICE 05

WebGIS & Full Stack Development

Bespoke geospatial web applications, interactive map dashboards, serverless cloud pipelines, and high-performance spatial APIs.



Frontend Development

- Responsive Web Apps
- Creative UI/UX Implementation
- Modern Frameworks (React/Next.js)
- Interactive Dashboards

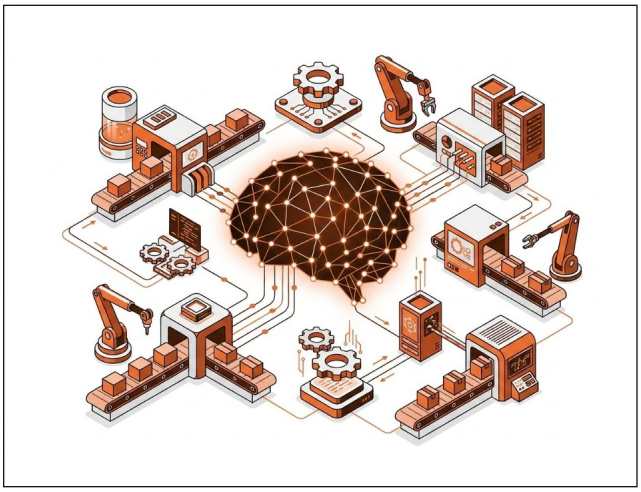
Backend & Cloud

- API Architecture
- Database Management
- Serverless Solutions
- Secure Authentication

See it in action: our model WebGIS for housing societies. pp. 14–17

SERVICES 06 – 07

AI & Automation



SERVICE 06

AI Integration & Geospatial Automation

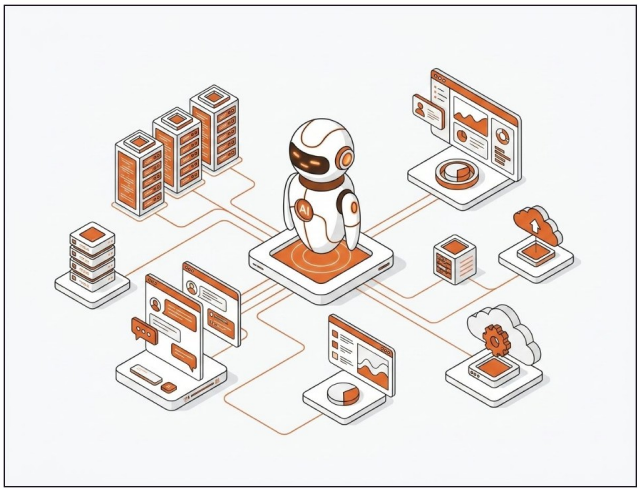
Automated feature extraction, building footprint segmentation, deep learning computer vision, and predictive spatial intelligence.

AI Integration

- Automated Pattern Recognition
- Geospatial Automation
- Predictive Modeling

ADVANCED TECHNOLOGY & INNOVATION

We leverage cutting-edge technology including AI, drone surveys, and satellite imagery to provide comprehensive mapping and analysis services.



SERVICE 07

AI Bots & Business Automation

Intelligent autonomous agents, workflow bots, customer query automation, and enterprise spatial knowledge assistants.

Conversational AI

- Customer Support Bots
- Internal Knowledge Assistants
- WhatsApp/Telegram Bots
- Voice Agents

Automation & Integration

- Workflow Automation
- API Integrations
- CRM Syncing
- 24/7 Virtual availability



SERVICE 08

Urban Planning & Smart Infrastructure

Strategic master planning support, digital twin modeling, utility corridor surveys, and smart city infrastructure analytics.

Urban & Regional Planning

- Master planning support
- Smart city solutions
- Utility mapping
- Informal settlement mapping

Infrastructure & Utilities

- Power/Water/Telecom mapping
- Corridor & ROW surveys
- Asset management systems

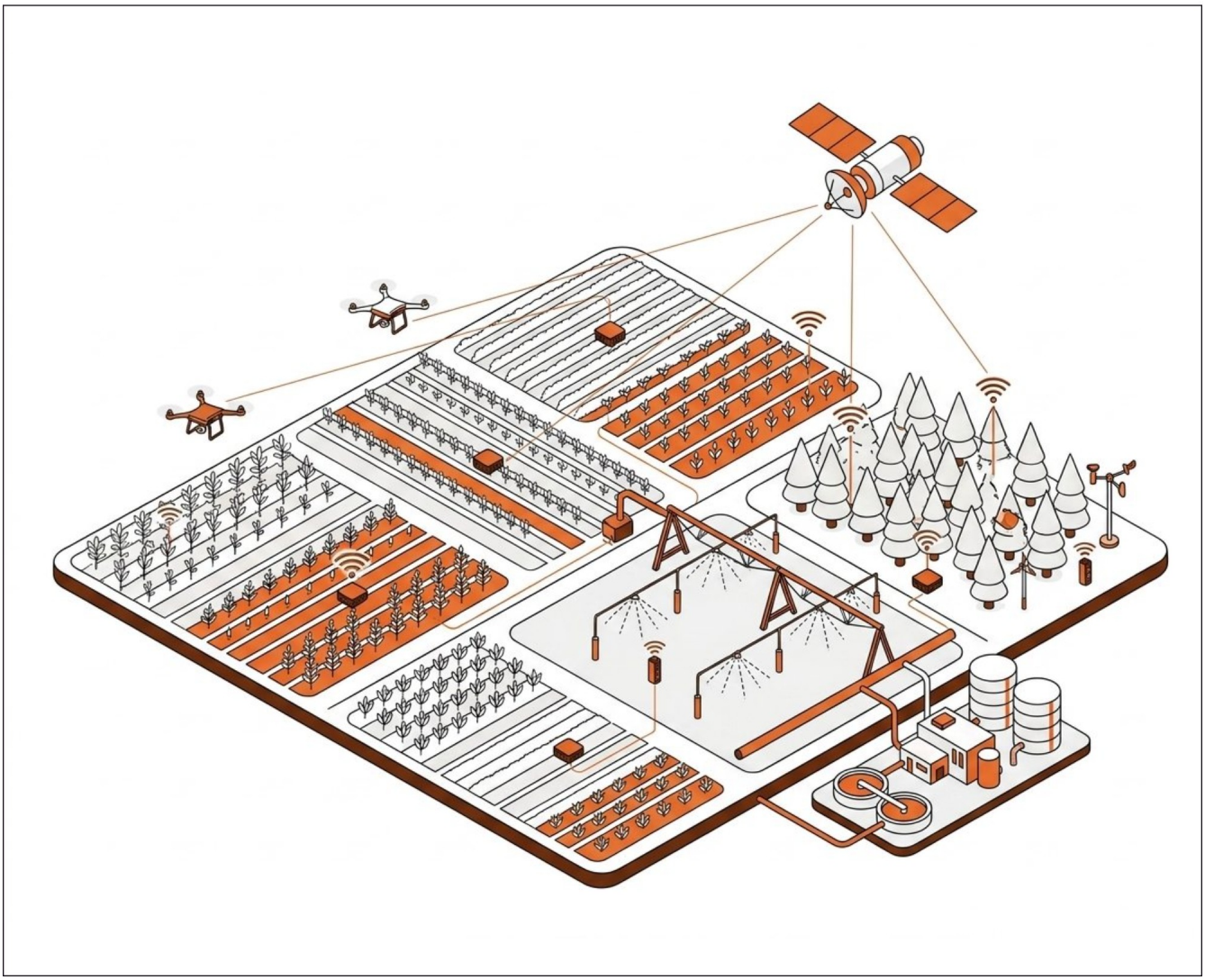
Transportation

- Traffic GIS analysis
- Route optimization
- Airport/Railway planning

SERVICE 09

Environment & Precision Agriculture

Satellite-driven precision farming, crop health & NDVI analytics, watershed modeling, and natural resource conservation.



Agriculture & Food Security

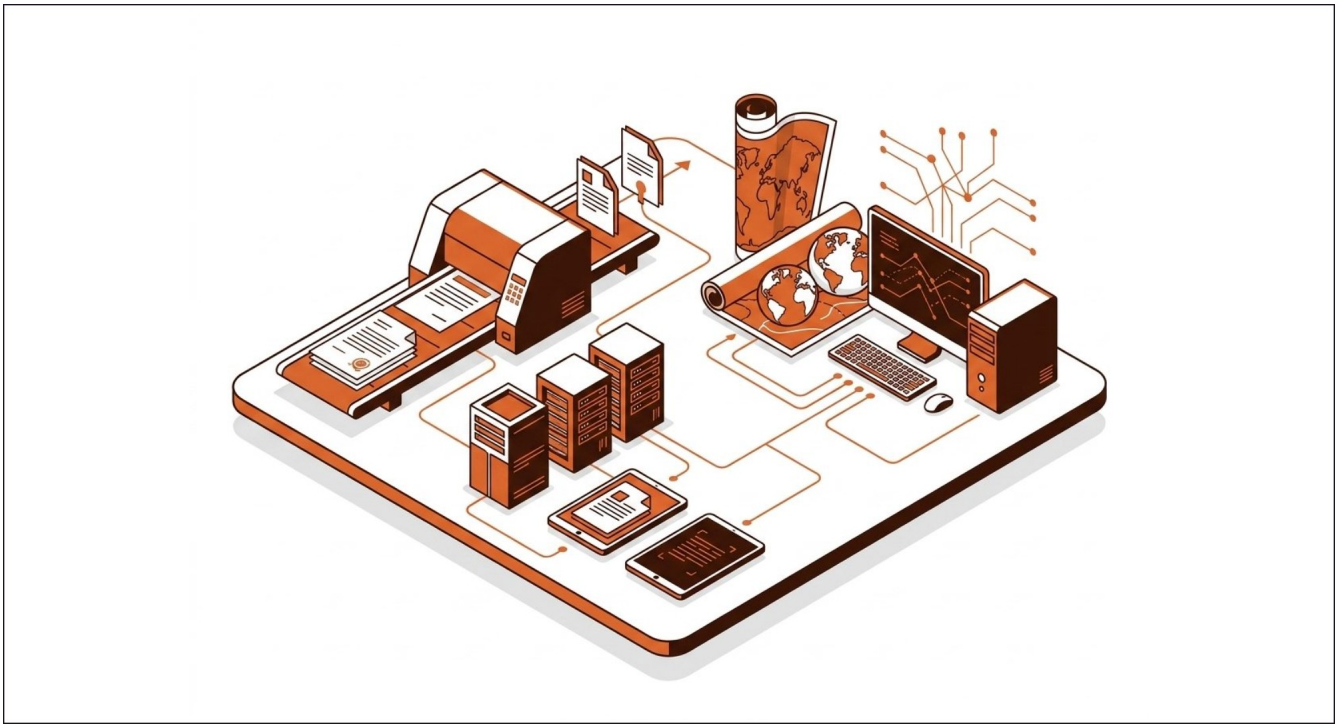
- Crop monitoring & acreage
- Precision agriculture
- Irrigation mapping
- Soil fertility analysis

Forestry & Wildlife

- Forest inventory & biomass
- Wildlife habitat mapping
- Deforestation monitoring

Water Resources

- Watershed analysis
- Groundwater mapping
- Flood modeling



SERVICE 10

Maps Production, Digitization & Land Records

High-throughput revenue record scanning, cadastral attribute population, legacy map vectorization, and data quality validation.

Document & Records

- Registers, Forms, Invoices
- Legal Documents
- Survey Sheets
- Scanning & Indexing

Specialized Land Records

- Ownership/Title Records
- Jamabandi/Khasra Entry
- Girdawari Data
- Parcel Attributes

GIS & Spatial Data

- Attribute Population
- Coordinate Entry
- Map Indexing
- Metadata Entry

Processing & Cleaning

- Double-Key Entry
- Data Cleaning/Standardization
- Validation & Verification

SERVICE 11

Advisory, Research & Training Workshops

Institutional capacity building, specialized geospatial training workshops, technical feasibility studies, and research advisory.



Capacity Building

- GIS/RS Technical Training
- SOPs & Standards Development
- Institutional Strengthening
- Project Management

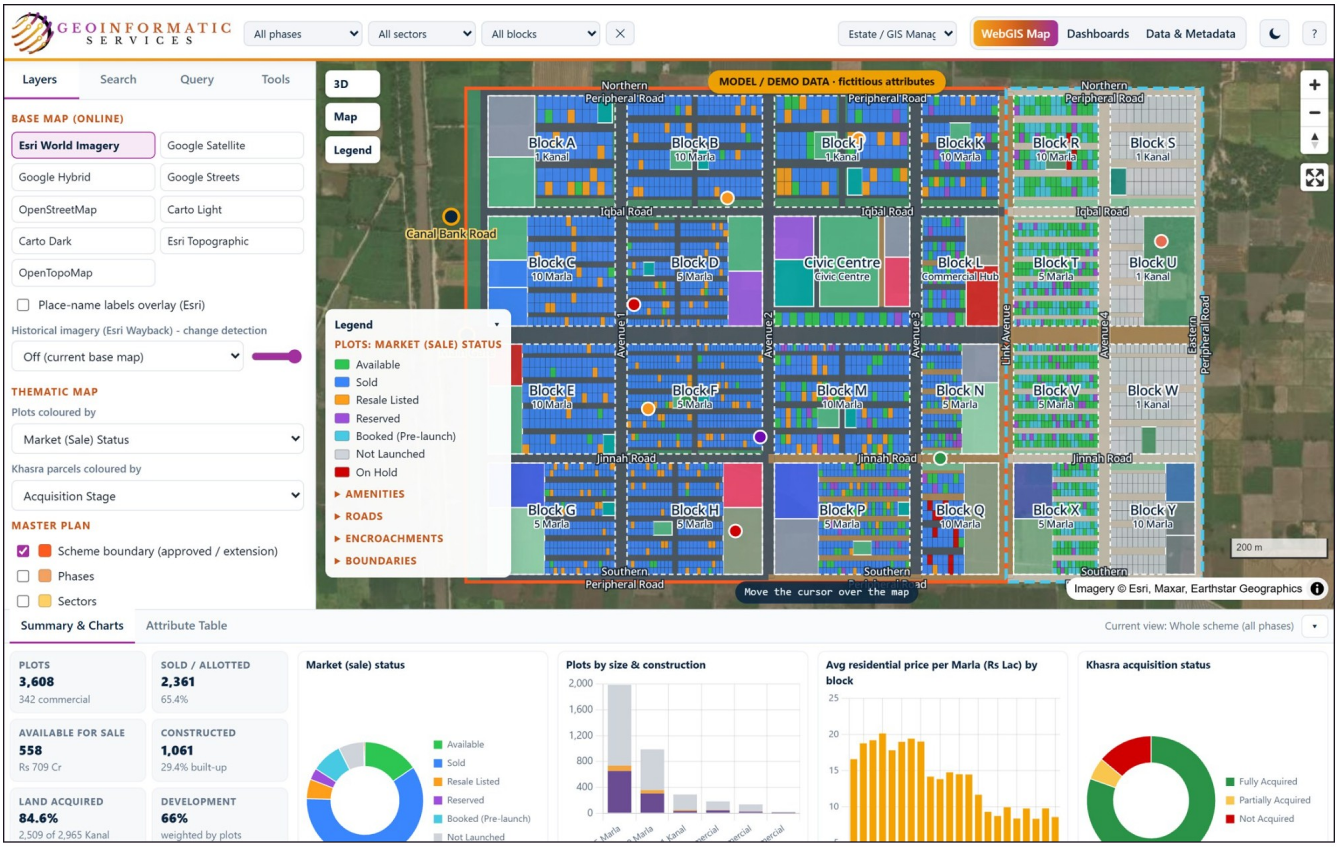
Consultancy & Research

- Feasibility Studies
- Policy Support
- Third-Party Verification
- Technical Proposals

PRODUCT SPOTLIGHT

WebGIS for housing societies

A complete, browser-based WebGIS that links the revenue record to the master plan and to development monitoring in one spatial database. Click any planned plot and trace it back to its Khasra, owner, acquisition and payment status.



Whole-scheme view. Plots coloured by market status over satellite imagery, with live KPIs and charts for the current Phase, Sector and Block filter.

Revenue & cadastral land

Mauza → Khasra → ownership → acquisition → payment → possession.

Master plan

Scheme → Phase → Sector → Block → Plot, with streets, amenities and utilities.

Development & management

Developed → under development → future extension, with progress and cost.

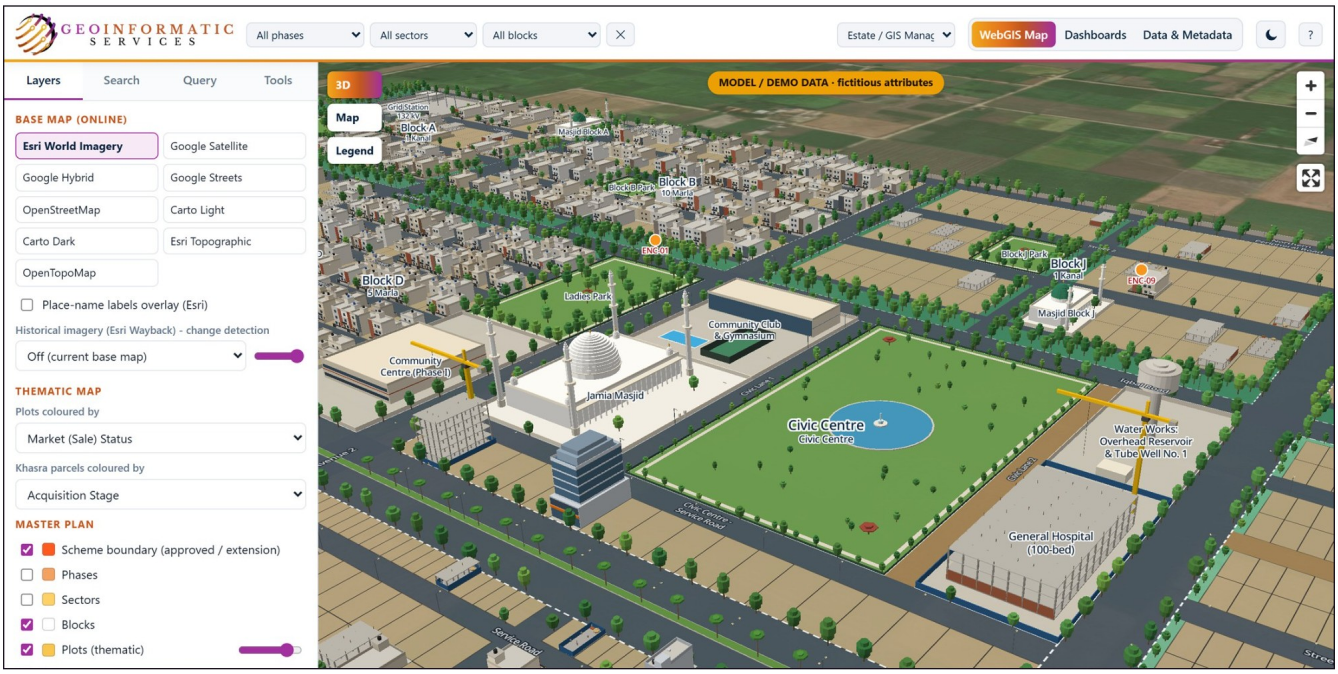
3,608	558	370.7	5,572
plots in 24 blocks	Khasras in 3 Mauzas	acres in 3 phases	Khasra-to-plot links

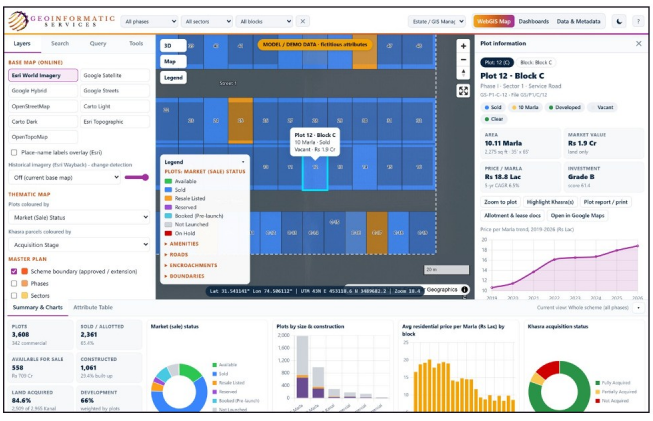
Screens show the GS Model Housing Society, a demonstration scheme laid out on real, georeferenced land. Every name, record, price and figure in it is fictitious.

INTERACTIVE MAP

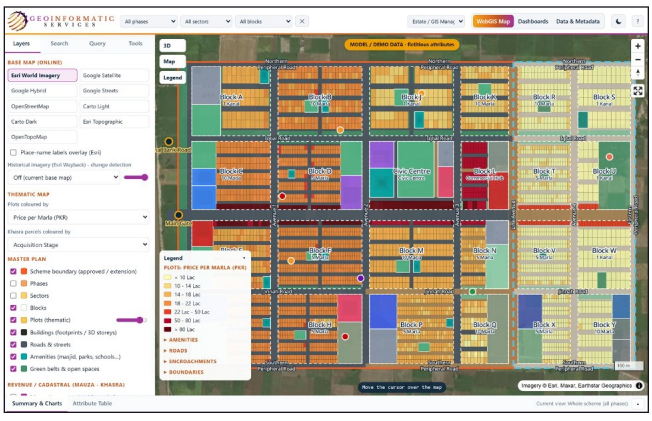
Every plot on the map, and in 3D

Nine base maps, 19 plot themes and 8 Khasra themes, with historical imagery for change detection. Switch to 3D and the whole scheme is built from its recorded storeys.





Plot record. Dimensions, price, allotment, lease, payments and Khasra lineage in one click.



Thematic map. Plots coloured by price per Marla, one of 19 plot themes.

Base maps & imagery

Esri World Imagery, Google Satellite, Hybrid and Streets, OpenStreetMap, Carto and topographic maps, plus Esri Wayback historical imagery.

Thematic mapping

Colour plots by sale status, price, development, possession, dues or title. Colour Khasras by acquisition stage, payment or litigation.

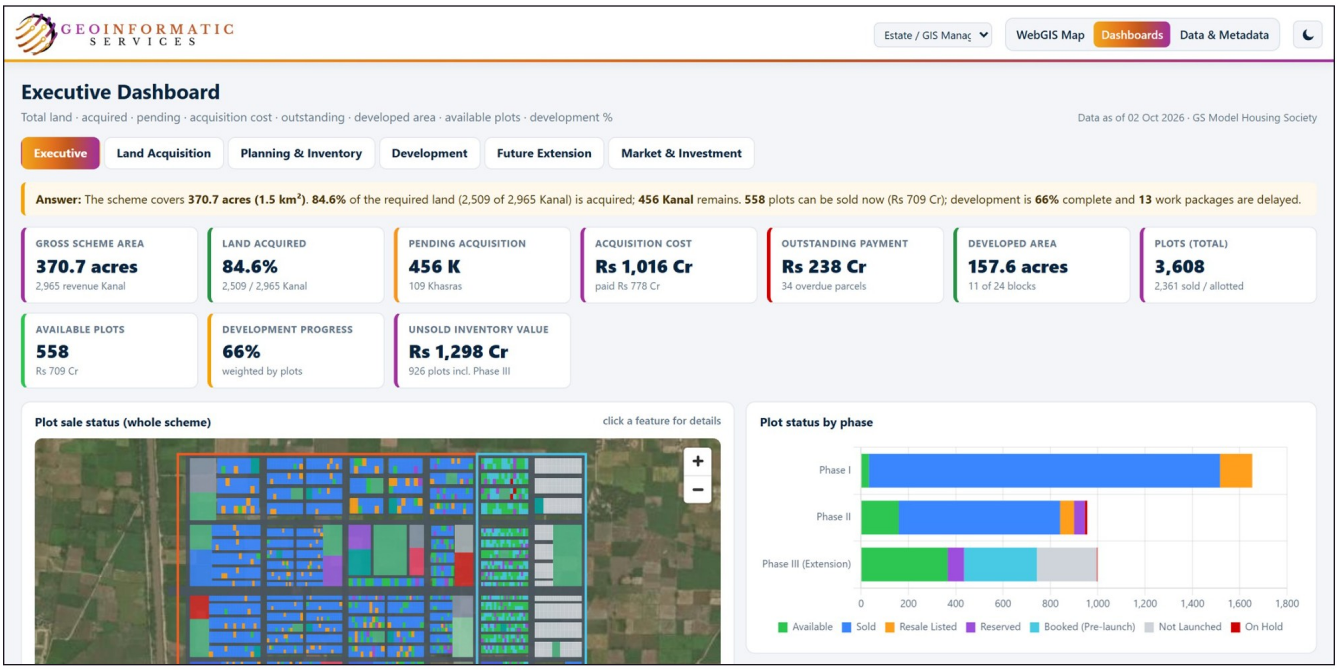
Realistic 3D

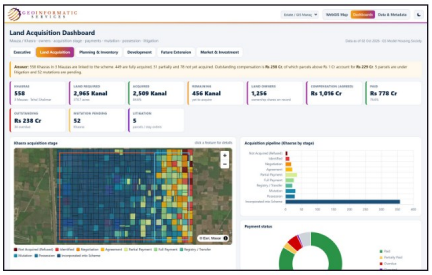
About 45,700 model parts: houses, plazas, towers, masjids, parks and tree-lined roads. Click a building to open its plot record.

MANAGEMENT DASHBOARDS

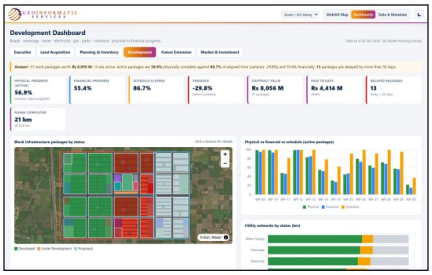
Six management dashboards

Every answer is shown as KPI, chart, table and map, drawn from the same spatial database as the WebGIS map and opening with a plain-language summary.

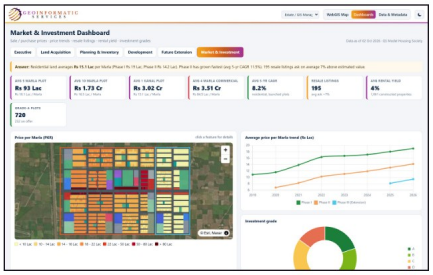




Land acquisition



Development



Market & investment

Executive

Land, acquisition cost, outstanding payments, developed area, available plots and development %.

Land Acquisition

Mauza and Khasra, owners, acquisition stage, payments, mutation, possession and litigation.

Planning & Inventory

Phases, sectors and blocks; residential and commercial plots; available, sold and reserved.

Development

Roads, sewerage, water, electricity, gas and parks; contracts; physical vs financial progress.

Future Extension

Required and acquired land, expected cost, constraints, potential plots and revenue.

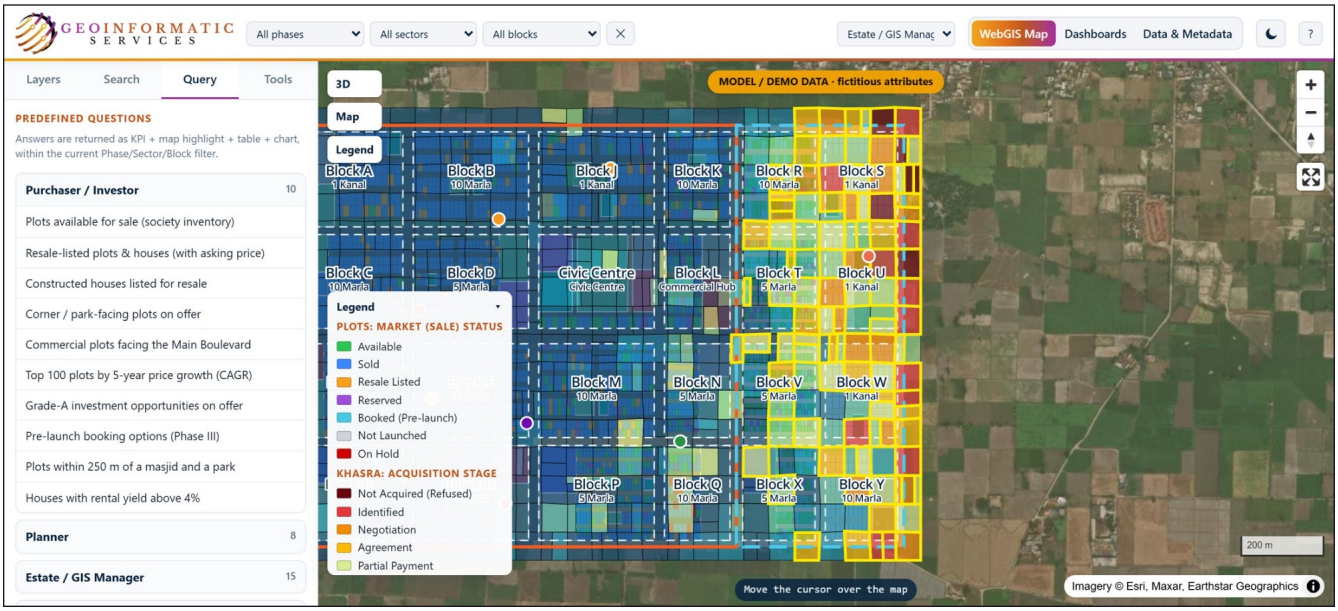
Market & Investment

Sale and purchase prices, price trends, resale listings, rental yield and investment grades.

LAND RECORDS & DECISION SUPPORT

Answers, not just maps

43 predefined questions cover what purchasers, planners, managers and decision makers ask. Each answer arrives as a KPI, a map highlight, a table and a chart.



Questions by role

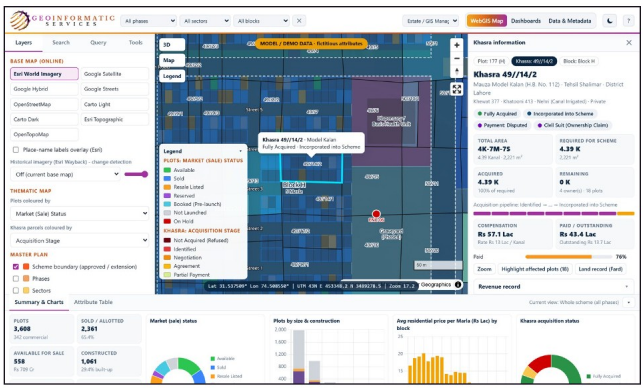
43 in total

Purchaser / Investor 10
Top 100 plots by 5-year price growth

Planner 8
Residential plots farther than 400 m from a park

Estate / GIS Manager 15
Plots intersecting disputed (litigated) Khasras

Decision Maker 10
Where are the major acquisition gaps?



Khasra record. Owners, acquisition pipeline, compensation paid and outstanding, and every affected plot.

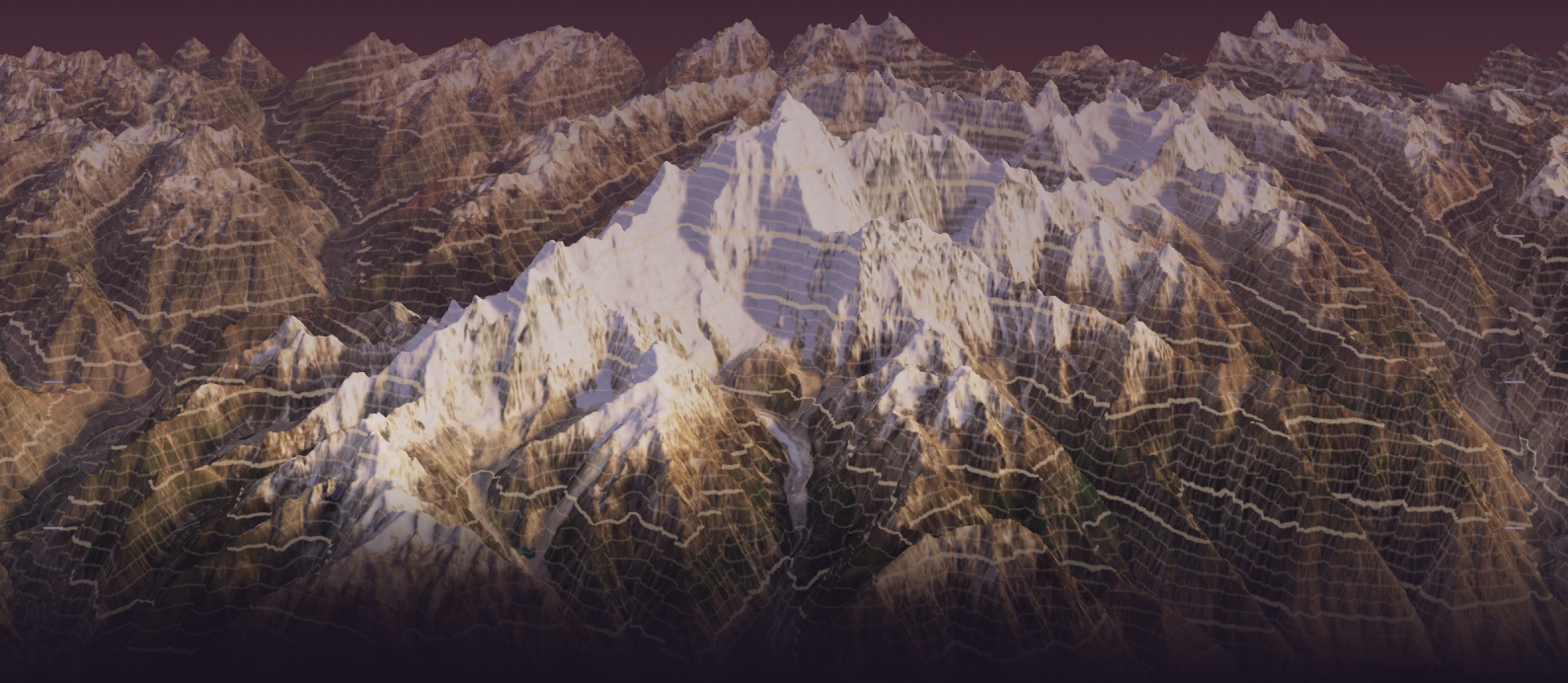
Tools in the map

Query builder · Search by plot, file number, allottee, Khasra or coordinates · Measuring in Marla, Kanal and acres · Proximity analysis · Investment finder · Land budget · Plot report and print · CSV and GeoJSON export · Role-based views · Light and dark mode

Production path. Load the layers into PostgreSQL/PostGIS or an Esri enterprise geodatabase, publish them through GeoServer or ArcGIS Server, and point the same front end at the live services.

CONTACT

33.5973° N 73.0479° E



GET IN TOUCH

Ready to bring spatial clarity to your next major project?

Our senior GIS consultants and photogrammetrists are ready to review your technical requirements and scope your implementation.

OFFICE

2nd Floor, National Business Center,
Murree Road, Rawalpindi, Pakistan

PHONE

+92 313-5561075

EMAIL

geoinformatic.services@gmail.com

WEB

www.geoinformaticservices.com

GEOINFORMATIC SERVICES

Global GIS, Remote Sensing &
Geospatial Solutions Provider

Cover artwork: Nanga Parbat massif, a 3D terrain model built from SRTM elevation data and Sentinel-2 cloudless imagery (s2maps.eu) by EOX IT Services GmbH, containing modified Copernicus Sentinel data 2016 & 2017.