



Kartoza Products & Solutions Overview

1 About Kartoza

Kartoza is a Free and Open Source GIS (FOSS GIS) company with registered offices in South Africa and Portugal. They specialise in delivering solutions across desktop, server, database, web, and mobile environments. Kartoza works extensively with open-source tools such as QGIS, MapServer, GeoServer, PostGIS, OpenLayers, GeoDjango, and GeoNetwork, while also supporting mixed or transition environments involving proprietary software.

Whether you need expert consulting, data processing, spatial analysis, or full-scale system development, Kartoza is your partner in open-source geospatial innovation.

2 Core Services

2.1 GIS Consulting

Kartoza provides strategic consulting services to help organisations design, implement, and optimise geospatial systems. Our team assists organisations in identifying the most suitable open-source solutions for their operational and business requirements.

2.1.1 Key Areas

- GIS strategy and planning
- Spatial data infrastructure (SDI) design



- Data management and governance
- Open-source GIS migration
- Geospatial workflow optimisation

2.2 Custom Software Development

Kartoza develops bespoke geospatial software solutions for desktop, web, and mobile environments. Our development services focus on creating applications that integrate spatial data, mapping, analytics, and business processes using open-source technologies.

2.2.1 Technologies & Software Used

- Python
- Django / GeoDjango
- OpenLayers
- PostGIS
- GeoServer
- QGIS
- GeoNode

2.2.2 Development Capabilities

- Web GIS applications
- Mobile GIS applications
- Spatial analytics platforms
- Decision-support systems
- Data collection tools
- API development and integration
- Custom QGIS plug-ins & AI Integration



2.3 GIS Support and Maintenance

Kartoza offers commercial support service level agreements for a wide range of open-source GIS technologies. We help organisations maintain stable, secure, and up-to-date GIS environments while providing access to expert assistance when required.

2.3.1 Support Services Include

- Technical troubleshooting
- System monitoring
- Software upgrades
- Security updates
- Incident response

2.4 GIS Hosting Services

Kartoza provides fully managed cloud hosting solutions designed specifically for geospatial applications. Our hosting services remove the complexity of infrastructure management, allowing organisations to focus on using their GIS systems rather than maintaining them.

2.4.1 Hosting Features

- Maintenance
- Automated Backups
- Ad hoc backups
- Operating system and access
- Expert GIS support



2.4.2 Current Product Offerings

- GeoServer
- GeoNode
- PostGIS
- GeoSight
- G3W-Suite

2.5 Training and Education Solutions

2.5.1 GIS Training Courses

Kartoza delivers practical GIS training programmes for government, NGOs, educational institutions, and private organisations. Courses can be delivered online, on-site, instructor-led, or self-paced.

2.5.2 Services Include

- Curriculum development
- GIS educational resources

3 Industries Served

Kartoza delivers solutions across a wide range of sectors, including:

- Government and municipalities
- Environmental management
- Conservation and biodiversity
- Utilities and infrastructure
- Agriculture



- NGOs
- Research institutions
- Private enterprise

