



GISCleric
INTERNATIONAL

2026

GEOSPATIAL INTELLIGENCE · DATA SOLUTIONS

Company Profile

We turn satellite, drone, and field data into decisions for the organizations that shape land, water, and infrastructure.

MAPPING

REMOTE SENSING

GIS

DRONES & LIDAR

HYDROLOGY

RISK MODELING

200+ PROJECTS DELIVERED · WEST AFRICA & CANADA

www.giscleric.com

Geospatial data, made **decision-ready**.

GISCleric International is a geospatial technology and data-solutions firm with more than a decade of delivery across West Africa and Canada. We build valuable, actionable insight from satellite imagery, drone surveys, and field data, so our clients can make informed decisions and act with confidence.

We have delivered over 200 projects of every scale, from land-use and climate analysis to flood risk modeling, telecommunications planning, and environmental assessment. Our approach is customer-centric and research-grade: we pair rigorous method with clear, usable outputs, and we build long-term relationships on transparency and results.

200⁺

PROJECTS
DELIVERED

14⁺

YEARS OF
EXPERIENCE

300⁺

PROFESSIONALS
TRAINED

2

CONTINENTS
SERVED

— OUR MISSION

To empower organizations to make better decisions by unlocking the full potential of their geospatial data, through innovative, reliable solutions built on quality and rigor.

— OUR VISION

To be a global leader in geospatial technologies and data solutions that enable data-driven decision-making across public and private sectors.



FOUNDER & PRINCIPAL

Joseph Aro

GIS SOLUTIONS ARCHITECT · GEOSPATIAL INTELLIGENCE ANALYST · LICENSED RPAS PILOT

Joseph is a geospatial technologist and entrepreneur with over 14 years of experience across remote sensing, GIS, hydrology, and drone operations. He holds a BTech in Geography and an MSc in GIS and Environmental Management, and is a licensed drone pilot certified under Transport Canada (Basic and Advanced RPAS).

His work spans land-use and climate analysis, flood and disaster risk modeling, environmental impact assessment, and telecommunications planning. He has trained more than 300 professionals across Africa and Canada, and has served as a GIS consultant to the University of Ilorin.

He founded GIScleric International to bring research-grade geospatial intelligence to the organizations that manage land, water, and infrastructure.

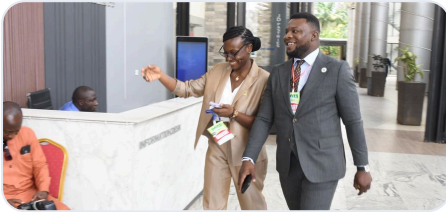
MSc, GIS & Environmental Mgmt

Transport Canada RPAS

Remote Sensing & LiDAR

Hydrology & Flood Modeling

RECOGNITION & PRESENCE



GIS Day Nigeria 2023 · Celebrating the GIS Professional. Speaking, exhibition, and industry recognition.

Core competencies & associated capabilities.

Four competencies span the full geospatial workflow, from field capture to decision products, each backed by a deep bench of associated capabilities.

01

Geospatial Intelligence & Analytics

Turning imagery and spatial data into patterns, predictions, and decision products.

ASSOCIATED CAPABILITIES

GIS analysis & modeling

Remote sensing & change detection

Land-use / land-cover classification

Spatial statistics & predictive modeling

Decision-support systems

Web mapping & geodatabases

02

Survey & Data Acquisition

High-resolution capture from air, ground, and water, at survey-grade accuracy.

ASSOCIATED CAPABILITIES

Drone & aerial survey (licensed RPAS)

LiDAR mapping

Hydrographic & bathymetric survey

GNSS & field data collection

Terrain & 3D modeling

Telecoms asset mapping

03

Marine, Hydrology & Water Resources

Understanding and managing water, from inland waterways to river basins.

ASSOCIATED CAPABILITIES

Bathymetric & hydrographic survey

Navigation channel & aids-to-navigation

Watershed & floodplain mapping

Hydraulic & hydrodynamic modeling

Dredging & waterways planning

Water-quality analysis

04

Risk, Environment & Advisory

Quantifying hazard and environmental change, and guiding the response.

ASSOCIATED CAPABILITIES

Flood, erosion & disaster-risk modeling

Vulnerability & resilience assessment

Environmental & climate-impact modeling

Habitat & biodiversity mapping

Project management

GIS training & capacity building

Where we work, and **why** teams choose us.

— INDUSTRIES SERVED

- 01 Government & public sector
- 02 Mining & mineral exploration
- 03 Water resources & environment
- 04 Telecommunications
- 05 Infrastructure & transport
- 06 Disaster management & insurance

— WHY GISCLERIC

Proven at scale

Over 200 projects delivered across sectors, sizes, and geographies.

Full-stack capability

From drone and field capture through to advanced analytics and decision products, under one roof.

Research-grade rigor

Methods validated against academic standards, in collaboration with leading universities.

Two-continent reach

Delivery experience across West Africa and Canada, with local knowledge and global standards.

On the water, and on the ground.

Current work extends our geospatial method into marine and waterways infrastructure across Lagos and West Africa.

LAGOS, NIGERIA • MARINE & HYDROGRAPHY • ONGOING

Lagos State Waterways Authority (LASWA)

CHALLENGE

Support safer, better-planned movement across Lagos' busy inland waterways.

APPROACH

Hydrographic and bathymetric survey, navigation-route and jetty siting, and waterways safety mapping.

OUTCOME

Geospatial decision support for waterway operations, terminals, and route planning.

LAGOS WATERWAYS • NAVIGATION & DREDGING • CONSORTIUM

OMI EKO ferry programme

CHALLENGE

Modernize Lagos' ferry network with safe, navigable channels and terminals.

APPROACH

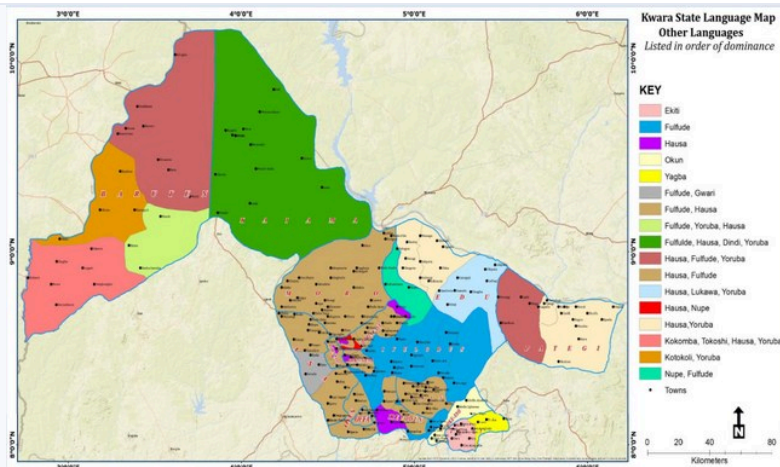
Navigation channel design, bathymetric survey, aids-to-navigation methodology, and dredging philosophy, within a multinational engineering consortium.

OUTCOME

Technical foundation for channel works and construction supervision on a flagship transport programme.

Case studies

A sample of projects where geospatial method turned complex ground truth into clear direction.



NORTH CENTRAL NIGERIA • REMOTE SENSING • 1987 – 2018

Deforestation & climate change assessment

CHALLENGE

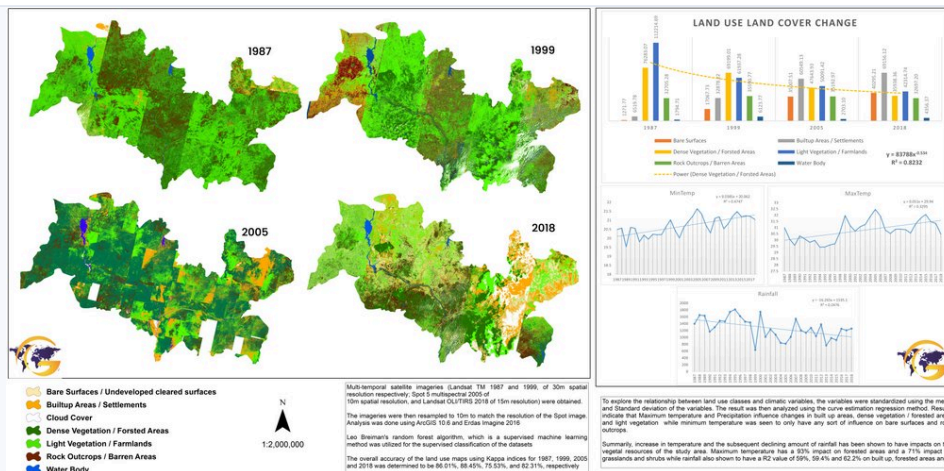
Understand three decades of land-cover loss and its link to local climate signals.

APPROACH

Multi-temporal Landsat and SPOT imagery classified with random forest, cross-checked against temperature and rainfall records.

OUTCOME

Change maps at up to 86% classification accuracy, quantifying vegetation loss and warming for evidence-based planning.



KWARA STATE, NIGERIA • GIS + FIELD SURVEY • POLICY MAPPING

Language mapping of North Central Nigeria

CHALLENGE

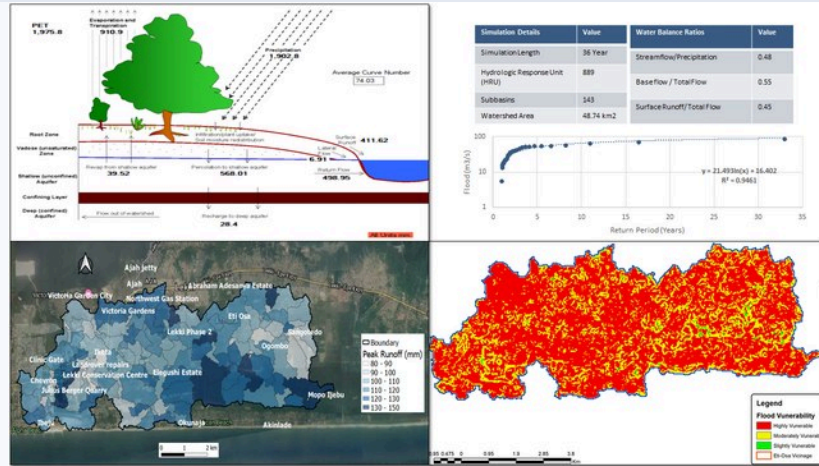
Map the spatial distribution of languages to support planning and policy.

APPROACH

Field data collection with Kwara State University and Harvard University language faculties, structured into a GIS.

OUTCOME

Detailed dominance maps enabling language-based planning and policy-making across the region.



ETI-OSA LGA, LAGOS • HYDROLOGY • FLOOD MODELING

Surface runoff & design flood modeling

CHALLENGE

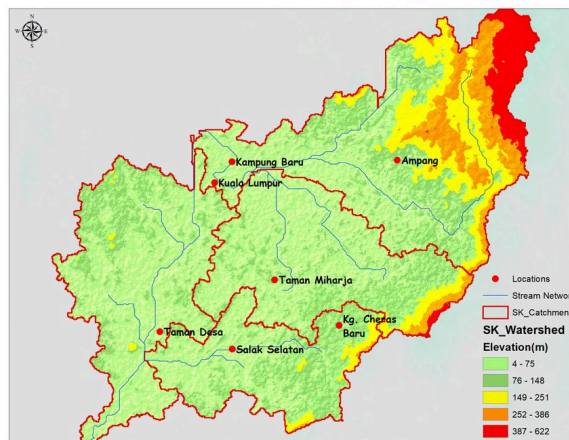
Assess flood exposure across a fast-urbanizing coastal local government area.

APPROACH

Hydrologic modeling across subbasins with water-balance analysis and return-period design flood estimation.

OUTCOME

Flood-vulnerability maps and design-flow figures to guide drainage design and urban planning.



KUALA LUMPUR, MALAYSIA • BASIN HYDROMORPHOMETRY

Hydromorphometric analysis, Sungai Kerayong Basin

CHALLENGE

Characterize an urban river basin's hydrology and pinpoint areas of concern.

APPROACH

Elevation, stream-network, and catchment analysis using hydrologic modeling and geospatial techniques.

OUTCOME

Clear morphometric insight into basin behavior, demonstrating delivery to international standards.

More selected projects

Depth across hydrology, environment, infrastructure, and telecommunications.

P · 01 Ogun-Osun River Basin Comprehensive hydrologic investigation with floodplain mapping and water-quality analysis of the basin's water resources.	P · 02 Road accident hotspots Geospatial hotspot analysis to identify high-risk corridors and target interventions that reduce accidents.
P · 03 Pavement condition assessment Remote-sensing and geospatial assessment to prioritize road maintenance and flag areas of concern.	P · 04 Sediment transport (SWAT) Soil and Water Assessment Tool modeling to map sediment transport patterns across an area of interest.
P · 05 Land-use change analysis Multi-year land-use change mapping in North Central Nigeria to reveal patterns and drivers over time.	P · 06 Climate change impacts Climate data and modeling to project sector-level impacts and inform adaptation planning.
P · 07 Flood vulnerability & risk Vulnerability assessment and risk modeling for flood-prone areas to guide targeted mitigation.	P · 08 Erosion modeling (soil loss) Soil-loss modeling across South-Eastern and Southern Nigeria to map erosion risk and interventions.
P · 09 GSM signal-strength analysis LiDAR vegetation-encroachment and drone asset mapping to optimize telecoms network coverage.	P · 10+ And more Terrain and 3D modeling, geodatabase design, custom web maps, and GIS training deployments.



GISCleric
INTERNATIONAL

— § 08 / ENGAGE US

Your geospatial partner, **end to end.**

From survey and acquisition through analysis, modeling, and advisory, we deliver the geospatial intelligence that de-risks decisions on land, water, and infrastructure.

01 Scope with us

Bring a decision, a dataset, or a blank map. We define the method and the deliverable.

02 Deploy our bench

Licensed pilots, hydrographers, and analysts, mobilized across West Africa and Canada.

03 Decide with confidence

Research-grade rigor, delivered on time, in formats your team can act on.

Request a capability briefing or a project proposal → info@gisccleric.com

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