

M. Kella DOUZOUNÉ

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Goal: Geospatial analyst | GIS & Data Specialist | Geospatial Postdoctoral

PROFESSIONAL SUMMARY

I am a Geospatial Tools Deployment Consultant, with over 16 years of experience specializing in geospatial information systems (GIS), thematic mapping, and geostatistics. I have profound knowledge in data-driven decision-making and digital transformation, focusing on implementing innovative solutions in challenging environments.

As a Geospatial Tools Deployment Consultant, I have the ability to analyze data through predictive analytics, descriptive analysis, and data visualization. This allows me to support operational efficiency and develop data-informed strategies. Being dedicated and innovative, I am capable of empowering health programs with robust geospatial solutions to tackle complex challenges in public health and sustainable development.

I have successfully led the implementation of the Geospatial Tracking System (GTS; KoboToolbox for the World Health Organization, African Development Bank Group and World Bank across overs 30 fragile and conflict-affected countries in Africa. This initiative significantly improved real-time monitoring of vaccination campaigns and contributed to institutional capacity-building, highlighting my ability to advance geospatial technologies in public health and sustainable development project.

KEY ACHIEVEMENTS

- Trained over 1,000 professionals in 30+ countries on GIS, mobile data collection, and digital monitoring systems.
- Deployed KoboToolbox systems for AfDB and the World Bank, and the Geospatial Tracking System (GTS) for WHO.
- Reduced reporting delays from 10 days to 2 days by implementing automated real-time dashboards.
- Supervised field data collection and mapped health facilities and sites across 30+ countries.

CORE SKILLS

- GIS & Spatial Analysis Tools
 - FME, ArcGIS Pro, QGIS, PostGIS
 - ArcGIS Dashboards, StoryMaps
- Data Analysis & Geostatistics
 - Kriging, Spatial Regression, Data Quality Control
- Programming & Automation
 - Python (including Pandas and GeoPandas), SQL

- Power BI Automation
- Mobile Data Collection
 - KoboToolbox, ODK, Survey123
- Training & Capacity Building
 - Delivered training to 1,000+ professionals
- Project Management
 - PMP-certified
 - Digital Transformation, Decision Support Systems
- Systems Architecture & Development
 - Systems Architecture Design
 - Interoperability
 - Cybersecurity
 - Data Governance
 - Information System Design & Deployment
 - Digital Tool Development
- International Standards & Interoperability
 - DHIS2, HL7, FHIR, OpenHIE
- Data Analysis
 - Quantitative and qualitative analysis
- Software Proficiency
 - Microsoft Windows and Microsoft Teams

CERTIFICATIONS

- Certified Associate in Python (PCAP-31-03) HvDR.D7YC.gO03 – Python Institute; October 2025
- Geographic Information Systems Professional (GISP) 162339 – GISCI, July 2025
- Project Management Professional (PMP) 4130455 – PMI, June 2025
- UN Data Analytics Professional – UNSSC, December 2024
- IELTS General Training – British Council, July 2024
- TEF – CCI Paris Ile de France, November 2023

PROFESSIONAL EXPERIENCE

World Health Organization (07/01/2023 – 31/12/2025)

Position: AFRO Geospatial Tracking System (GTS)

Responsibilities:

- Led the deployment of GTS in fragile and Polio-affected countries across Africa, enhancing real-time monitoring of vaccination campaigns.
- Improved decision-making processes by supporting system design, implementation, and field operations.
- Produced daily operational bulletins and interactive dashboards, enabling rapid response and timely decisions.
- Strengthened institutional capacity in data-driven decision-making and spatial analysis for health programs.
- Delivered technical training and on-site support for the GTS mobile tracking system.

Achievements:

- Enhanced vaccination coverage in polio-affected regions.
- Increased efficiency of vaccination campaigns by reducing monitoring delay.
- Improved data accuracy for health program management and decision-making.
- Enhanced the skills of over 1,000 health professionals in mobile data collection and geospatial tracking.
- Strengthened the institutional framework for data-driven decision-making in health initiatives.

African Development Bank Group (09/01/2021 - 01/01/2024)

Position: Senior Geospatial & Data Analyst Specialist | ICT

Responsibilities:

- Led and designed deployment of the RASME/KoboToolbox remote supervision system, integrating GPS, multimedia, and satellite/drone imagery across AfDB platforms.
- Developed standards, guidelines, and training programs, training 1000 staff and partners across 29 countries.
- Built automated Power BI dashboards for real-time monitoring, safeguard tracking, and portfolio mapping.
- Provided technical and operational support to ensure sustainable adoption of RASME in country projects.
- Coordinated system deployment in 29 countries, including training, documentation, and communication materials.

Achievements:

- Achieved large-scale deployment and adoption of RASME across 29 countries.
- Enhanced monitoring and integration of geospatial systems in AfDB projects.
- Increased efficiency and accuracy in project tracking and reporting.
- Strengthened institutional capacity for data-driven decision-making.
- Enabled real-time visibility and tracking of safeguard measures and project actions.

eHealth Africa (05/01/2022 - 12/01/2022)

Position: GIS Stakeholder Engagement Consultant

Responsibilities:

- Coordinated health facility database development for Chad, improving data quality by 40%.
- Designed and delivered GIS, data collection, and GIS capacity-building sessions for over 500 staff.
- Facilitated engagement with stakeholders to align data use and objectives.
- Provided technical support and guidance in the deployment of geospatial tools.
- Collaborated with local partners to enhance data-driven health initiatives.

Achievements:

- Significantly improved data quality in health facility databases.
- Strengthened stakeholder capacity in GIS and data collection.
- Improved coordination and alignment of data objectives among stakeholders.
- Enhanced technical support to local health initiatives.
- Successfully engaged over 500 individuals in capacity-building activities.

The World Bank (10/01/2020 - 04/01/2022)

Position: GIS, M&E and Mobile Data Collection Specialist | FCV

Responsibilities:

- Designed and implemented Geospatial Data Management Systems (GEMS) to support national development programs.
- Supported the digital transformation of government institutions through GIS-based planning, monitoring, and reporting.
- Delivered training programs in GIS, geostatistics, and mobile data collection, reaching over 1,000 professionals.
- Developed and applied harmonized tools and methodologies for data collection, monitoring, and reporting (e.g., KoboToolbox).
- Conducted field missions, evaluations, and data quality assessments to ensure effective project monitoring.

Achievements:

- Enhanced national capacity in data-driven program planning and monitoring.
- Achieved wide-scale training impact on GIS and mobile data tools.
- Improved efficiency and accuracy in data collection and analysis.
- Supported the digital transformation of institutional processes.
- Successfully implemented GEMS to aid national development efforts.

UNICEF, UNHCR, IOM, McKing, OIF, eHealth Africa and World Vision International | Chad and Morocco 2009 – 2021

Position: GIS Field Data Collection Supervisor, Information Management, GIS officer, Project Management

EDUCATION

- PhD (in progress) – Geospatial Information Science & Technology, African Regional Institute for Geospatial Information Science and Technology (AFRIGIST), Ile-Ife, Nigeria (2022–Present)
- Master – Geo Information in Disaster Situations, University of Copenhagen, Denmark (2024 - 2025)
- Master 2 – Computer Science Applied to GIS, University of Douala & ENSG Paris (2012–2017)
- Master 1 – Advanced Computer Science, Institut Supérieur des Sciences Appliquées, Chad (2011–2012)
- Bachelor – Computer Science, Institut Supérieur des Sciences Appliquées, Chad (2007–2011)
- Diploma in IT – Pan-African Institute of Human Development, Nigeria (2004–2007)

SELECTED PUBLICATIONS

- Mapping Livestock Systems, Bovine and Caprine Diseases – Global Health Journal, Feb. 2025
- Application of Ordinary Kriging in Mapping Soil Organic Carbon – South African Journal of Geomatics, July 2024

REFERENCES

Available upon request.