


Development of a Land Audit Dashboard using Power BI integrated with ODK and QGIS data sources tender at Dai Global

[Dashboard](#) Job Detail



DAI Global LLC
Website :

4 Days Ago

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Development of a Land Audit Dashboard using [Power BI](#) integrated with ODK and QGIS data sources tender at *Dai Global*

Budget Line/ Expert Category

- 1 Senior NKE

Relevant project activity

- Output 3.3: District Audit Methodology Carried out by Capacitated District Authorities

Audit Question

- N/A

Location

- Lusaka, Zambia
Accounting jobs

Duration

- 54 days

Expected start date

- 12/05/2025

Expected end date

- 12/09/2025

The EU support to the National Land Audit (NLA) project aims to improve land administration and management in Zambia. The project focuses on:

- Improving the National Spatial Data Infrastructure (NSDI), updating it with information that is publicly available and accessible, and producing land cover, and land use maps at the National level
- Making available and accessible key results of the National Land Audit
- Testing and validating Innovative National Land Audit methodologies
- Providing guidance for shaping a full National Land Audit implementation and forming a post audit action plan

Accounting jobs

1. Background of the Assignment

A key output is the development of a dynamic and interactive Land Audit Dashboard that will visualize key indicators linked to the nine (9) audit questions, using data collected from:

- Field surveys (ODK)
- Geospatial datasets (QGIS)
- Administrative land information systems

This dashboard will support decision-making for:

- Policymakers
- Stakeholders
- The public

1. General Objective of the Assignment

GENERAL OBJECTIVES

- Develop an interactive, spatially enabled and user-friendly Land Audit Dashboard using [Microsoft Power BI](#), integrating datasets from ODK and QGIS, to visualize and analyze indicators related to the 9 National Land Audit questions.

SPECIFIC OBJECTIVES

- Conduct user requirement analysis to identify key needs and expectations for the Land Audit Dashboard among NLA, MLNR, and other stakeholders.
- Design the structure and indicators of the National Land Audit Dashboard mapped to the nine audit questions.
- Ensure the dashboard design meets user needs, including data visualization, filtering, and spatial display capacities.
- Develop an automated and scalable data workflow from ODK to Power BI.
- Develop an interactive dashboard design reflecting user requirements.
- Produce visualizations (tables, charts, maps) that dynamically display the land audit results.
- Align and process datasets from ODK, and spatial data layers from QGIS, for integration into Power BI.
- Integrate data from ODK forms, QGIS spatial layers, and administrative datasets.
- Map audit indicators to the 9 core audit questions, enabling drilldowns and thematic analysis.
- Deploy the dashboard on the National Land Audit (NLA) server environment, ensuring secure and controlled access.
- Conduct full testing, documentation, and validation of the dashboard.
- Provide user and administrator training on dashboard usage and updates. Conduct training for NLA and district staff on dashboard usage, maintenance, and data interpretation.
- Provide a comprehensive user manual and technical documentation.

EXPECTED RESULTS

- Fully functional and interactive Land Audit Dashboard in Power BI aligned with the nine audit questions.
- User needs and requirements clearly documented and reflected in the dashboard design.
- Integrated and automated data pipeline combining ODK and QGIS datasets.
- Dashboard deployed and operational on NLA's secure server.
- Comprehensive testing of dashboard functionalities and performance.
- Trained NLA and district staff on dashboard use and maintenance.
- Detailed user manual and technical guide for dashboard operation.
- Recommendations for future enhancements and broader roll-out.

III. Scope of Work

Target Groups

- Ministry of Lands and Natural Resources (MLNR)
 - Zambia Statistics Agency
 - Smart Zambia Institute
 - Ministry of Agriculture
 - Civil society and customary land rights organizations (limited access layer)
- Accounting jobs

SPECIFIC ACTIVITIES

Sub-Activity	Location	Number of workdays
Briefing with the EUD and with the MLNR	Lusaka	1
User needs assessment and requirements collection workshops	Lusaka	4
Review of ODK datasets, QGIS spatial layers, and audit questions	Lusaka	2

Sub-Activity	Location	Number of workdays
Data integration from ODK (surveys), QGIS (spatial), and administrative datasets	Lusaka	2
Design of dashboard structure and indicator framework	Lusaka	3
Dashboard design proposal	Lusaka	1
Dashboard development in Power BI and integration with ODK and QGIS	Lusaka	12
Linking spatial layers in QGIS with tabular data for interactive mapping	Lusaka	4
Internal testing and validation of dashboard functionality	Lusaka	3
Deployment on NLA server, configuring access roles	Lusaka	2
Testing of dashboard functionalities with selected stakeholders	Lusaka	2
Incorporation of feedback and final adjustments	Lusaka	2
Documentation development (admin and user guides)	Lusaka	4
Final testing of deployed dashboard	Lusaka	2
User training (admin and end-user)	Lusaka	5
Final presentation and live demonstration to stakeholders	Lusaka	1
Debriefing with the EUD and with the MLNR	Lusaka	1
NKE Reporting	Lusaka	3
Support during user acceptance testing (UAT) and adjustments	Remote	5

Total number of days: 54

1. Deliverables and Reporting Requirements

FORMAL DELIVERABLES

The working language of the assignment will be English.

An electronic copy of each of the below-mentioned deliverables should be submitted first to the Team Leader and KE3 within the respective timeframe. The Team Leader will submit them to the Contracting Authority and MLNR.

Objective	Specific Deliverables	Deadline
1	User needs assessment report and dashboard design proposal	Day 10
2	Integrated dataset (ODK, QGIS, admin data) ready for Power BI model	Day 20
3	Beta version of the Land Audit Dashboard with mapped audit indicators	Day 30
4	Tested and validated dashboard	Day 40
5	Final deployed dashboard on NLA server	Day 45
6	Training sessions conducted	Day 47
7	User and administrator manuals/documentation	Day 48
8	Final presentation to stakeholders	Day 50

ADMINISTRATIVE OUTPUTS

- Monthly Time Sheets including task description signed and submitted to Team Leader.
- Monthly report describing activities, outputs, and indicators achieved.

1. Supervision and Backstopping

- The **Team Leader supervises** overall.
- **KE3** supervises technical aspects.
- **Project Officer in Lusaka supports** with logistics, meetings, and admin.
- The expert must contact the Team Leader prior to start.
- The **Project Manager and Director (Contractor HQ)** review all formal deliverables.

1. Candidate Selection Criteria

Qualifications

- Bachelor's degree in IT, Data Science, GIS, Statistics, or related field

General Professional Experience

- 5+ years in Power BI dashboard development, data modeling
- Knowledge of ODK and integration techniques Survey Data
- Experience in QGIS and geospatial data handling
- Familiarity with land administration/audit indicators desirable

Specific Skills

- Proven ability to link spatial and statistical data, design interactive dashboards
- Fluent in English (written and spoken)
- Experience in delivering user/admin training

VII. Logistics and Timetable

- Expert based in Lusaka; may travel to provinces/districts as needed
- Assignment dates: **Start – 12/05/2025 | End – 12/09/2025**

Application Instructions:

Interested candidates are invited to submit their applications (cover letter and CV) to:

- Daisy L. Mwila: Daisy_Mwila@dai.com
- Cc: Gabriela_Georgieva@dai.com

Deadline: 2nd May 2025
Only shortlisted candidates will be contacted.

Job Info

Job Category: Tenders in Zambia

Job Type: Full-time

Deadline of this Job: 2nd May 2025

Duty Station: Lusaka | Lusaka | Zambia

Posted: 23-04-2025

No of Jobs: 1

Start Publishing: 23-04-2025

Stop Publishing (Put date of 2030):
23-04-2077
