WATER ACCESS AND QUALITY ASSESSMENT

About

Overview

Detailed view

About the project

This project analyzes water quality and related health issues reported by communities across various regions, drawing from real-time survey data collected from local communities. The data includes water source conditions, maintenance practices, and health problems related to poor water quality, such as diarrhea, cholera, and intestinal worms.

Survey design   **Data collection**   **Dashboarding**
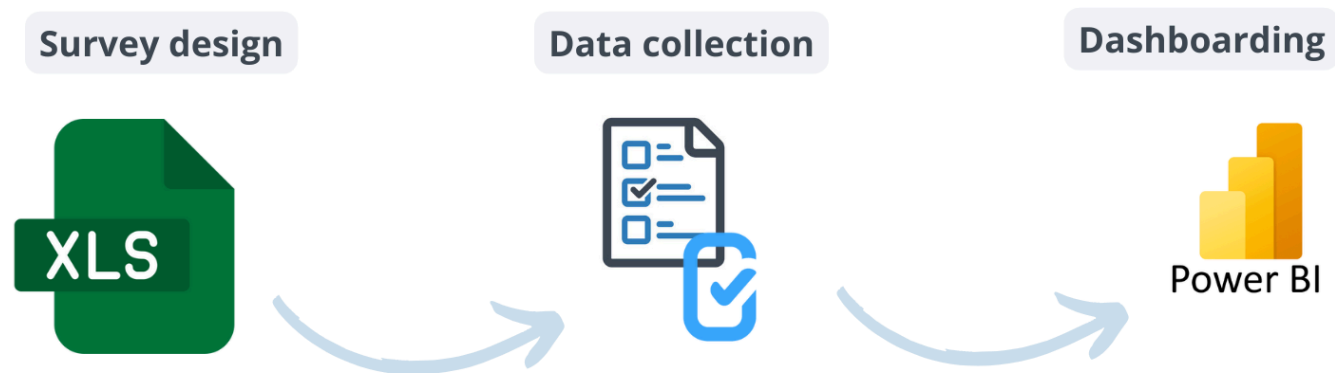
Key Features

1.Data Source
 • KoboToolBox form designed to resemble real-world data collection efforts in water management and public health.

2.Real-time reporting
 • Data captured in KoboToolBox is linked to Power BI that automatically updates reports about new submissions.
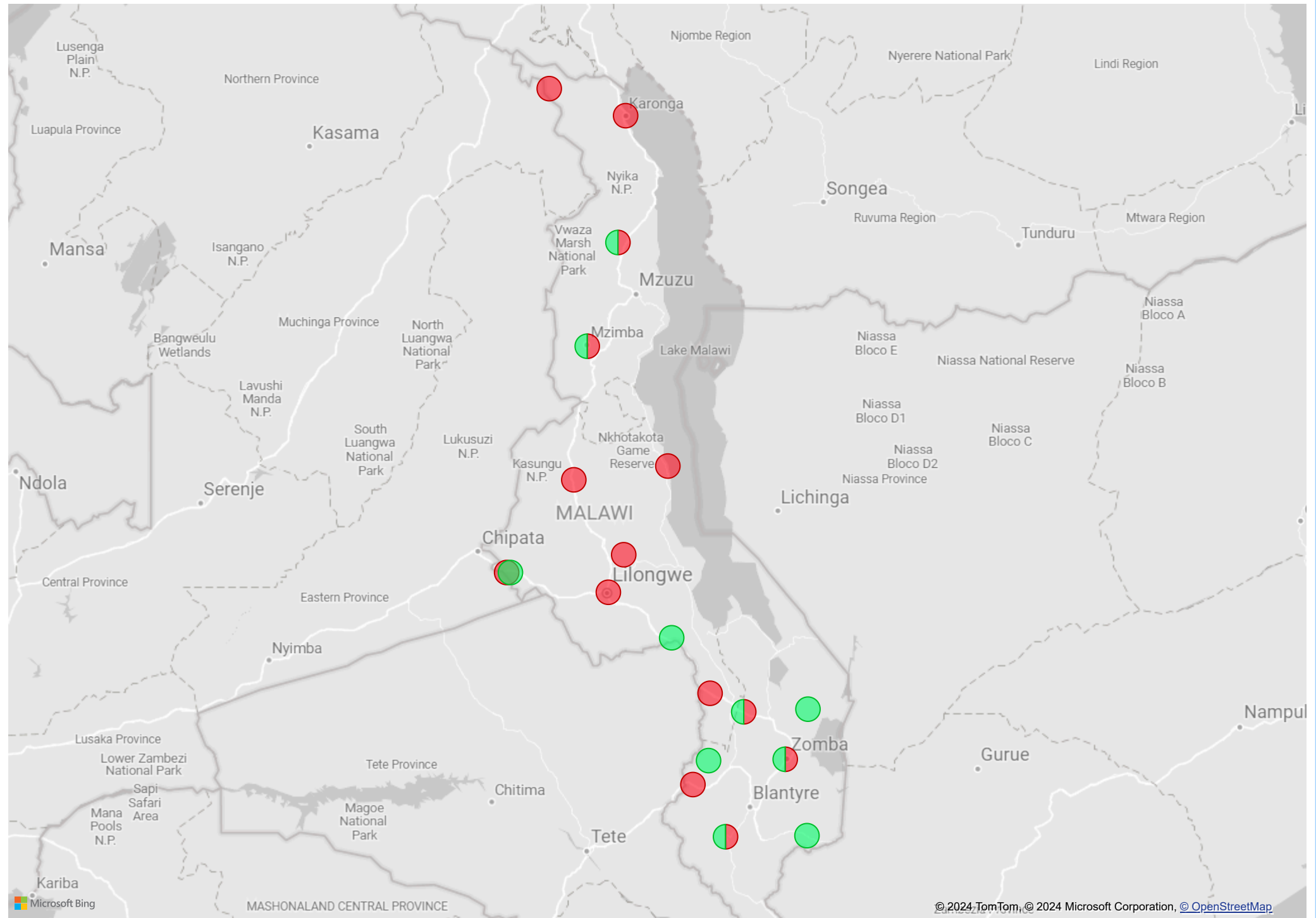
Value of the Data and Reports

1. **Identifying High-Risk Areas**
 • The reports highlight regions with non-functional or poor-quality water sources, and where health problems like diarrhea are most prevalent.

2. **Driving Action**
 • Health and government officials can use this knowledge to prioritize water infrastructure improvements in areas with the greatest need.

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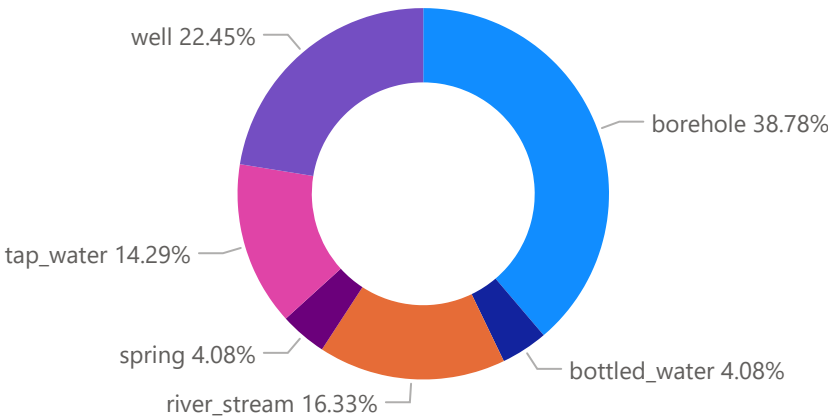## Overview

Detailed view

Region

All

Most common water sources	Most common distance to water source	Percentage of Tested Water Sources "Not-Okay"	Percentage of water sources "Not-Functioning"
borehole	less_than_500m	76.92	46.94

Geospatial Distribution of Water Source Conditions

Water_Source_Condition ● Not Okay ● Okay

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Region
All

Available Water Sources Count

- well 22.45%
- borehole 38.78%
- tap_water 14.29%
- spring 4.08%
- river_stream 16.33%
- bottled_water 4.08%

Water Source Infrastructure Condition Count

- non-functional: 16
- partially_functio...: 5
- fully functional: 4
- not_applicable: 1
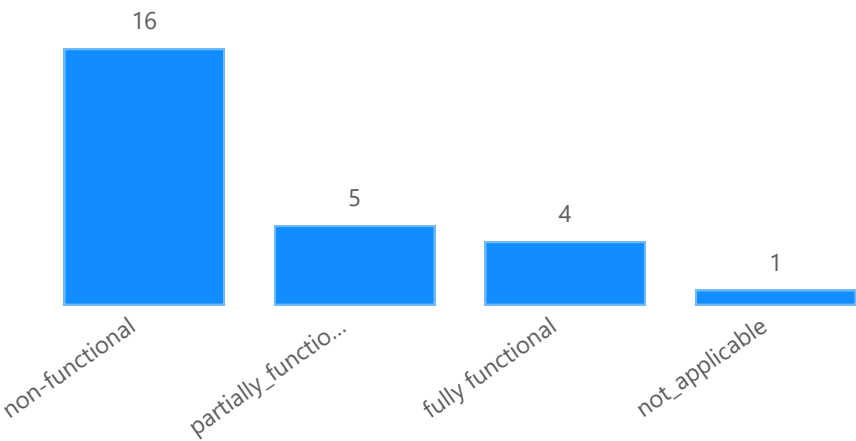
Water sources Tested Count

- yes: 26
- no: 23

Health Issues Count

- Skin Infections 17.78%
- Cholera 20%
- Typhoid Fever 11.11%
- Malaria 26.67%
- Diarrhea 24.44%
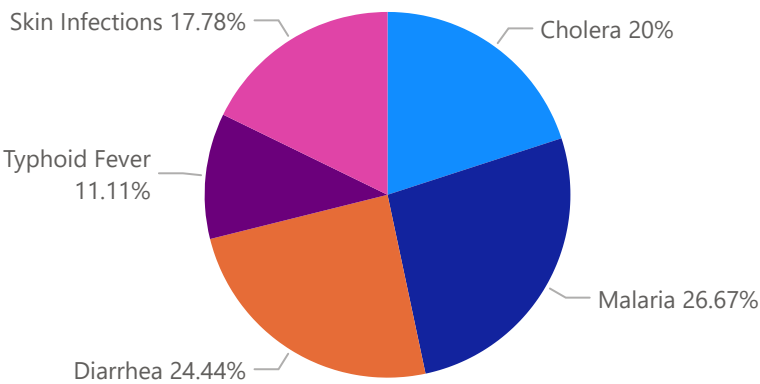
Improvement Suggestions

- New Water Source: 41
- Maintenance: 15
- Contamination Protection: 12
- Management Training: 9
- None: 8
- Infrastructu...: 7
- Other