


Enhancing Water Access and Quality: A Data-Driven Approach to SDG 6

This presentation outlines a data-driven approach to improving water access and quality, focusing on SDG 6: Clean Water and Sanitation.

 by Samuel Thiongo



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Understanding SDG 6: Clean Water and Sanitation

1 Global Goal

SDG 6 aims to ensure access to safe water and sanitation for all by 2030.

2 Health and Productivity

Clean water is crucial for health, economic productivity, and environmental sustainability.

3 Rural Communities

Challenges remain in many areas, especially in rural communities, where water quality and access are insufficient.

The Problem: Inadequate Water Access and Quality in Rural Communities

Health Issues

Many rural communities lack reliable access to clean and safe drinking water, leading to health issues.

Economic Hardship

Inadequate water access can lead to economic hardship and limit opportunities for development.

Project Budgets

Inadequate water purification and infrastructure budgets exacerbate the problem.



Date

SQL Schema and Data Retrieval

SQL Schema

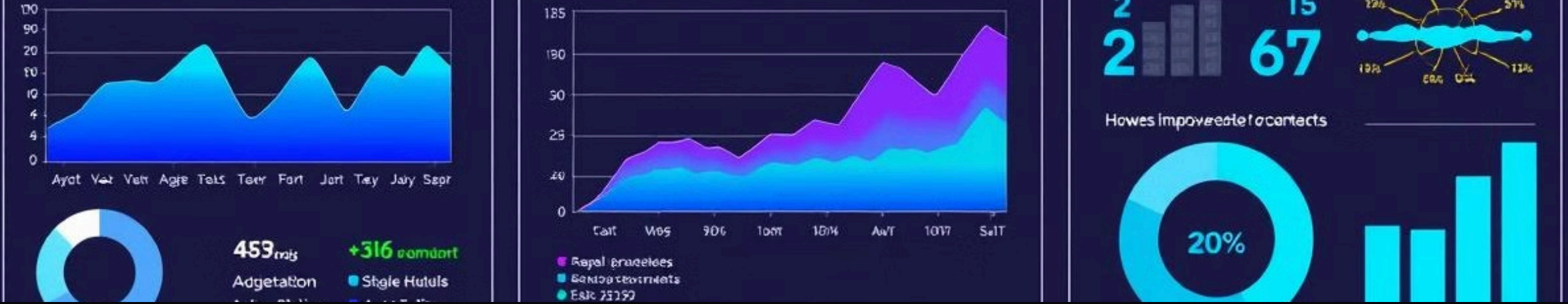
The database schema includes tables like Communities, WaterSources, Projects, and WaterQuality.

Sample Queries

Retrieve average water quality by community: `SELECT CommunityName, AVG(WaterQualityRating) FROM WaterQuality GROUP BY CommunityName.`

Data Retrieval

The schema is optimized for efficient data retrieval and analysis.



Key Insights from Data Analysis

Water Quality Trends

Certain communities consistently report lower water quality, indicating a need for targeted intervention.

Access Improvement

Data shows that communities with diversified water sources have better access and quality.

1

2

3

Budget Allocation

Disparities in purification project budgets suggest inefficiencies in resource distribution.

Interactive Dashboard Overview

1

Interactive Elements

The Excel dashboard includes interactive elements like slicers to filter data by community or project.

2

Key Findings

Key findings are visualized, such as the distribution of water quality ratings and budget allocations.

3

Dynamic Exploration

The dashboard allows stakeholders to dynamically explore data and generate reports.

