



Kenya Groundwater Mapping Programme

Unlocking the potential of groundwater

To combat water scarcity for resilience and sustainable livelihood



The shores of Lake Turkana, the largest perennial desert lake in Africa. Scientists believe that in just a few decades, it will be reduced to a remnant of puddles. (UNESCO/Massetera Shabete)

Water scarcity involving water stress, water shortage, and water crisis is becoming the defining international crisis of the twenty-first century. Water beneath the earth's surface comprises over 97 per cent of the world's readily accessible freshwater. In Kenya, the full potential of groundwater is unknown. A lack of scientific information about location and volumes indicate only an estimated 5 per cent of the overall national water endowment. Meanwhile, the intensifying use and demand for water resource in Kenya reveals its strategic importance. Limited understanding of groundwater resources and inadequate monitoring systems, rainfall variability, seasonality of streams and lack of large reservoirs for water storage, all prove to hinder development. An intervention in groundwater can bring tangible change.

About GRIDMAP

In 2012 the urgent need to combat water scarcity in the drought prone region in east Africa following the 2011 drought in Horn of Africa, pressed UNESCO with a consortium of international, regional, national and local actors to launch the Groundwater Resources Investigation for Drought Mitigation in Africa Programme (GRIDMAP).

Turkana Groundwater Findings

In 2013, the first large scale GRIDMAP survey of groundwater resources in Kenya was conducted by UNESCO with funding from Japan in central Turkana County. The assessment identified groundwater resources in a 36,000 km² zone that includes the towns of Lodwar and Lokichogio, the Kakuma Refugee Camp and hundreds of thousands of pastoralist Turkana communities. Preliminary findings identified easy-to-reach shallow aquifers and five large deep reserves. The aquifers of Lodwar and Lotikipi were also confirmed through exploratory drilling.

Of Kenya's 41 million inhabitants, 17 million lack access to safe water and 28 million do not have adequate sanitation.



Groundwater map of northeast Kenya with aquifer-level and elevation points. (GRIDMAP/UNESCO)

Benefits

The maps, tools and information derived from the findings are now enabling water service providers in Turkana to tap into local resources with ease. Lodwar aquifer has been already tapped for supply to Lodwar city.

Since the introduction of groundwater maps to central Turkana, borehole drilling successes have increased for partners on the ground. This enables a significant cost reduction of groundwater development.

Central and county government authorities can also incorporate the new information to make strategic development decisions. By improving the knowledge base of Kenya's groundwater wealth as well as the skills to harness it, the initiative brings improved access to water for emergency situations and for long term needs as response to climate change.



GRIDMAP image produced in the same area shows the precise location and potential of both shallow and deep groundwater. (UNESCO)



GRIDMAP borehole drilling site: Revitalising community members gather to see the water extraction process. (UNESCO)



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