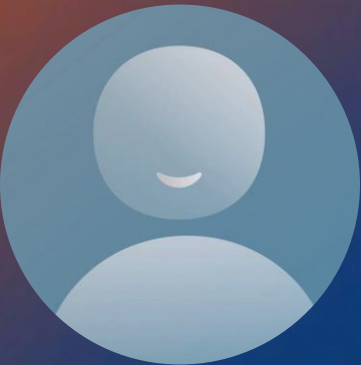




# Bringing Clean Water to Maai Mahiu, Kenya

A District 5790 Global Grant Opportunity (G-3675)



# The Structural Challenge in Maai Mahiu

## GEOGRAPHIC CONTEXT

A semi-arid region in Kenya's Great Rift Valley where rainfall is inconsistent and rivers run dry.

GEOTHERMAL ACTIVITY

MINERALIZED SOIL LAYERS

## GROUNDWATER REALITY

Heavily mineralized due to geothermal activity. High levels of fluoride and dissolved solids make it unusable without costly treatment.

## THE BOTTOM LINE

Drilling a standard well is not a viable option. Solving this requires infrastructure.

# The Daily Human Burden of Unsafe Water



## The Time Cost

2 to 4 hours spent walking every single day to collect water from seasonal or shallow sources.



## The Physical Toll

Fetching and carrying 35 to 40-pound jerry cans across harsh terrain.



## The Ripple Effect

Time lost means girls are exhausted or absent from school. Untreated water exposes the community to cholera, typhoid, and other waterborne pathogens.

# A Foundation Built on Community Assessment

## The Community's Voice



Leaders from three local villages (Muniu, Rururi, Kamuchira) formed the MURUKA Community-Based Organization (CBO) in 2021 and asked for help.

## Identifying the Source



The community identified a reliable, year-round highland spring capable of serving the valley.

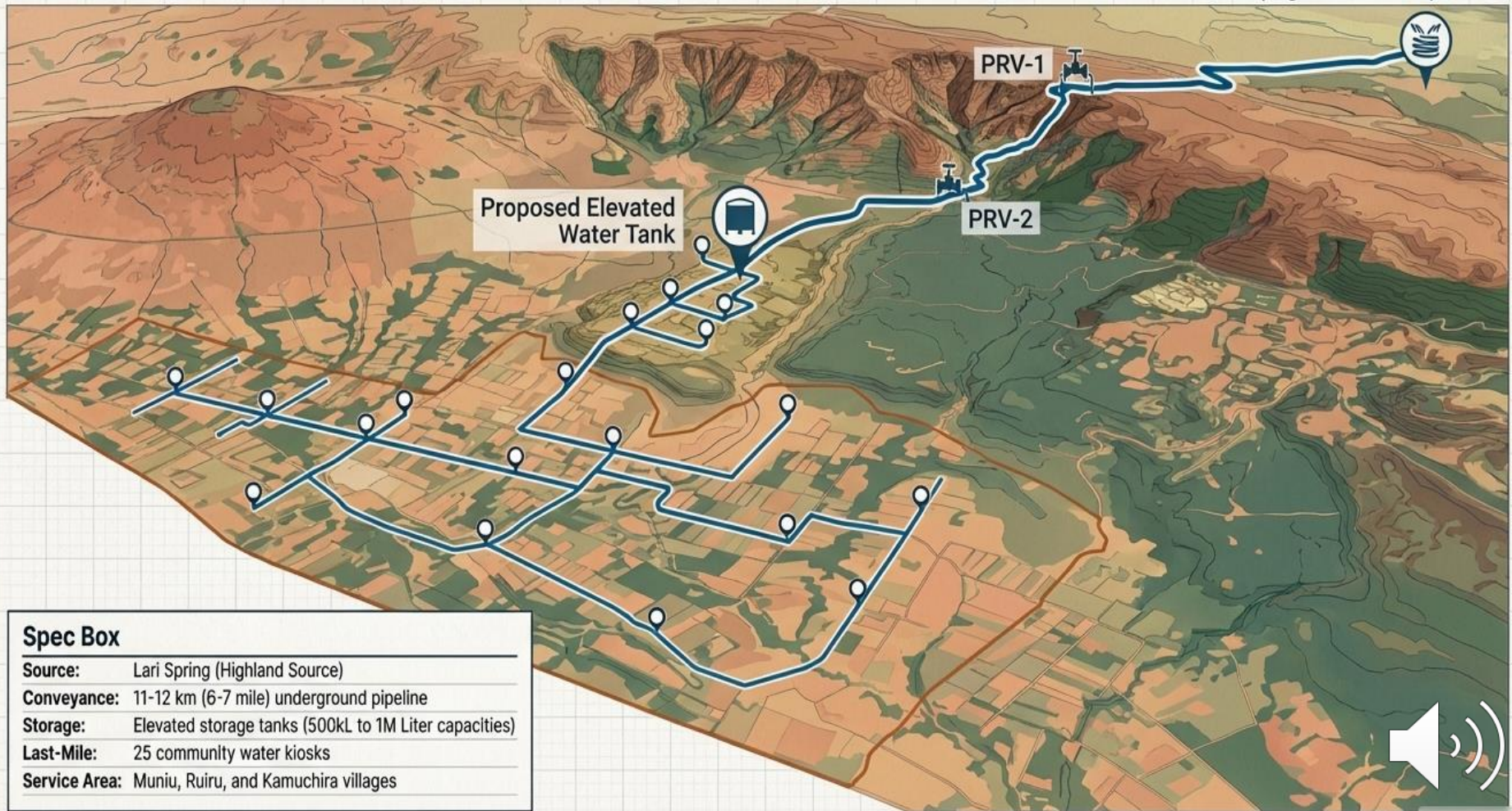
## Rotary Validation



In June 2026, the Rotary Club of Naivasha completes the formal Community Needs Assessment adhering to Rotary Guidelines to ensure local ownership and feasibility.

# The MURUKA Master Plan

Lari Spring  
(Highland Source)

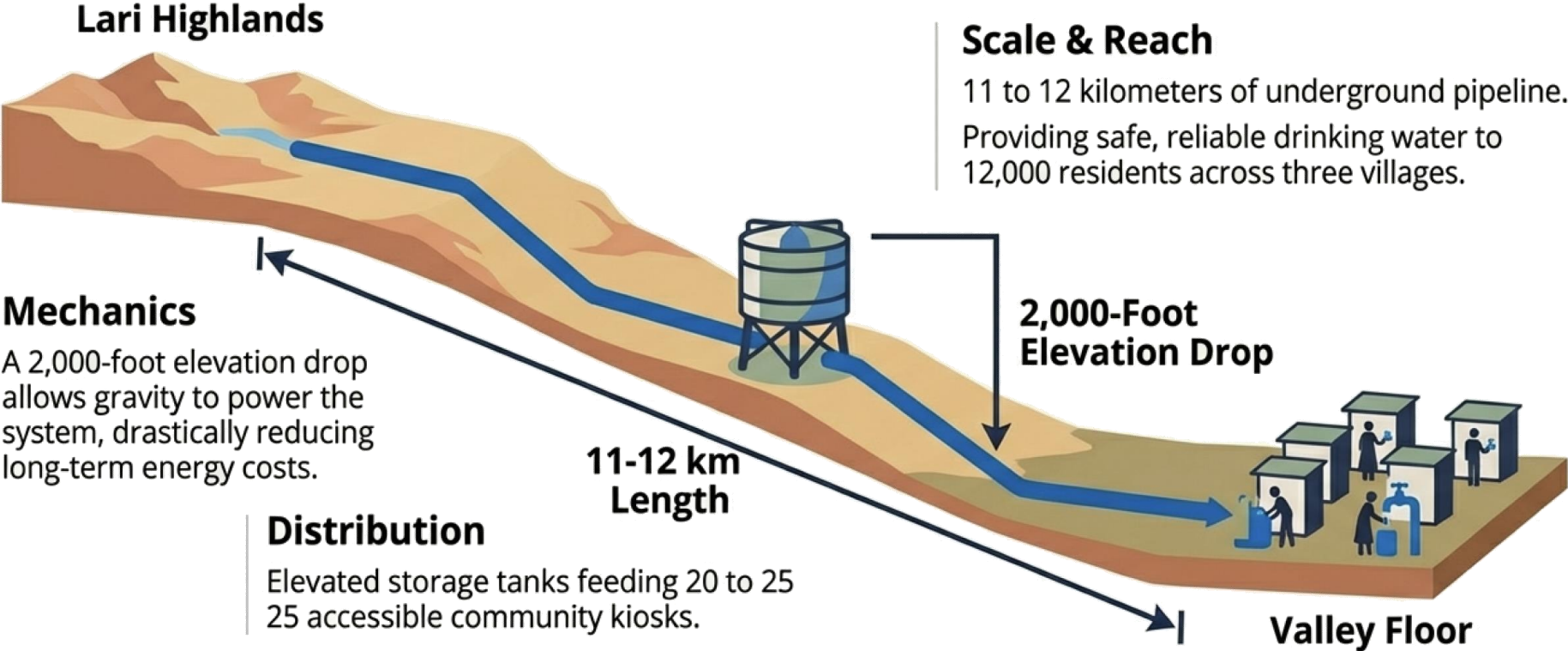


## Spec Box

<b>Source:</b>	Lari Spring (Highland Source)
<b>Conveyance:</b>	11-12 km (6-7 mile) underground pipeline
<b>Storage:</b>	Elevated storage tanks (500kL to 1M Liter capacities)
<b>Last-Mile:</b>	25 community water kiosks
<b>Service Area:</b>	Muniu, Ruiru, and Kamuchira villages

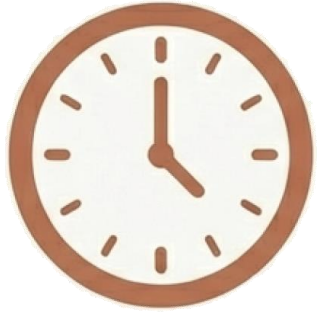


# The Solution: An 11-Kilometer Gravity-Fed Pipeline



**This is not a short-term fix. This is permanent infrastructure.**

# Measuring Our Impact Through Four Hard Targets



**< 20  
Minutes**

**Time**

Reducing the daily water collection walk from 2-4 hours to under 20 minutes.



**> 60%  
Reduction**

**Health**

Cutting the rate of preventable waterborne diseases and typhoid by over 60%.



**> 25%  
Increase**

**Education**

Improving school attendance for girls by at least 25%.

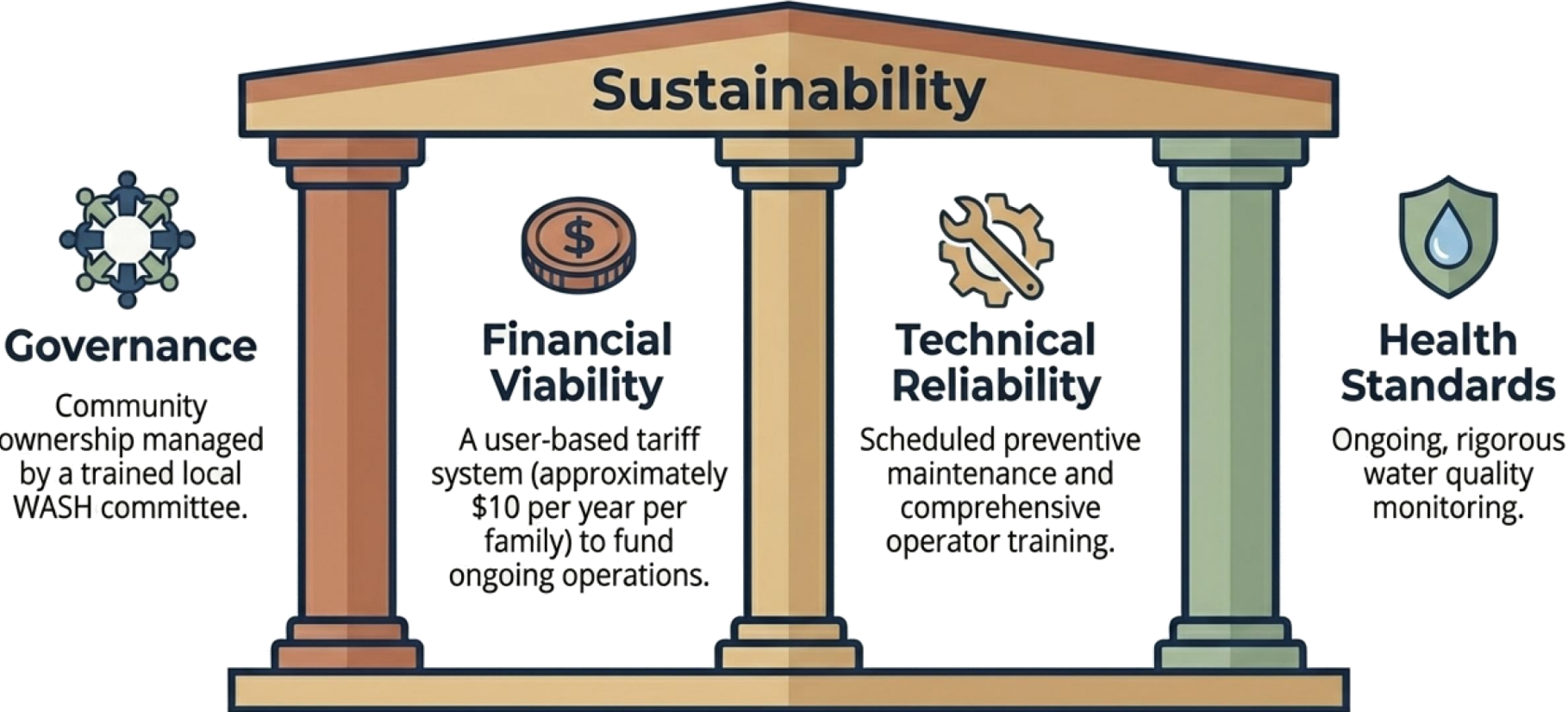


**> 90%  
Functionality**

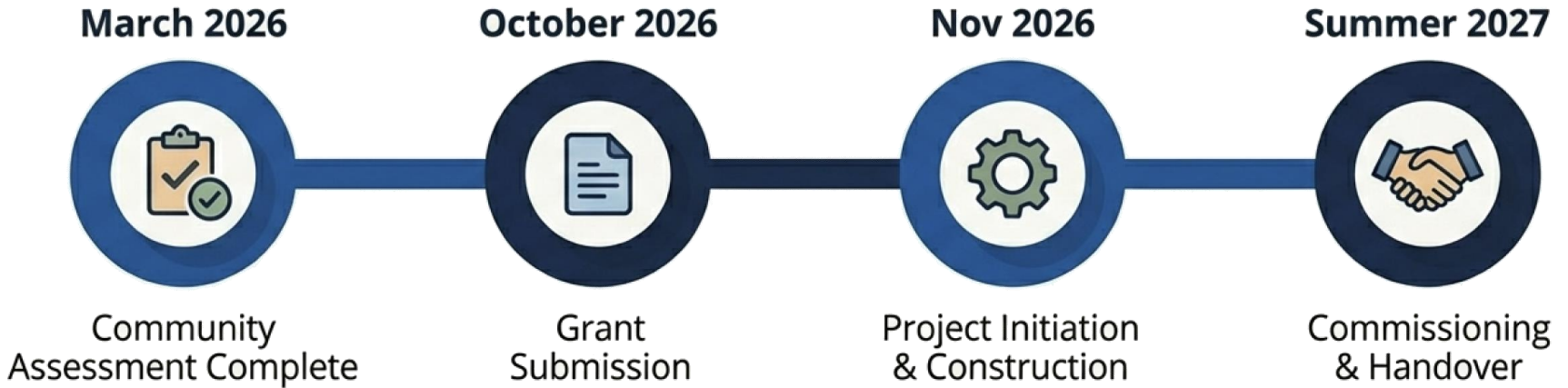
**Operations**

Ensuring the system remains fully functional at the two-year mark.

# Engineering Long-Term Sustainability



# Project Timeline and Rotary Leadership



## Rotary Partners



### Host Partners

**Rotary Clubs of Naivasha and Nakuru**

Experienced Global Grant clubs providing hydrologic engineering oversight.



### International Partner

**Cross Timbers Rotary Club**

(District 5790)



**Rotary**  
District 5790



# Related WASH Initiative – Nduraru School RO Water Project (Nairobi)

## Safe Drinking Water for 6,300+ Students



### LOCATION:

Nduraru Primary & Junior Secondary School – Kawangware, Nairobi



**BENEFICIARIES:** 6,300+ students and staff



### CHALLENGE:

School borehole water is highly alkaline and contaminated, creating health risks and reducing learning readiness.



### 1. THE PROBLEM

Borehole water is highly alkaline and contaminated, putting students' health at risk and affecting learning.



### 2. OUR SOLUTION

Install a Reverse Osmosis (RO) + UV Water Treatment System to provide safe, clean drinking water.

- RO filtration + UV purification
- Water testing & quality assurance
- Two 10,000L storage tanks
- Water kiosk for school & community access
- Distribution piping, sinks, electrical setup & staff training



### 3. EXPECTED IMPACT

- Safe water access for 6,300+ students & staff
- Reduced waterborne illness & absenteeism
- Improved learning environment and student concentration
- Community benefit through shared water kiosk access



### 4. SUSTAINABILITY

Student "Water Club" Champions, teacher/parent hygiene education, maintenance training, and 6-month post-installation support to ensure long-term success.



### PROJECT BUDGET:

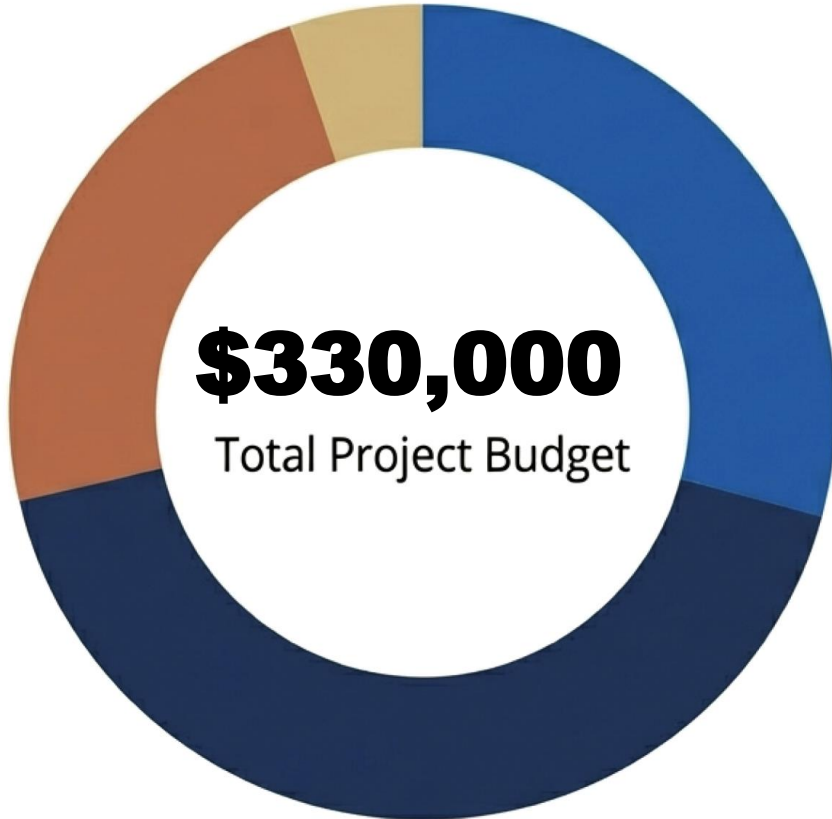
~\$28,800 USD



### OUR PARTNERSHIP

Delivering clean water. Strengthening health. Supporting education. Building a brighter future.

# Funding the Infrastructure Stack

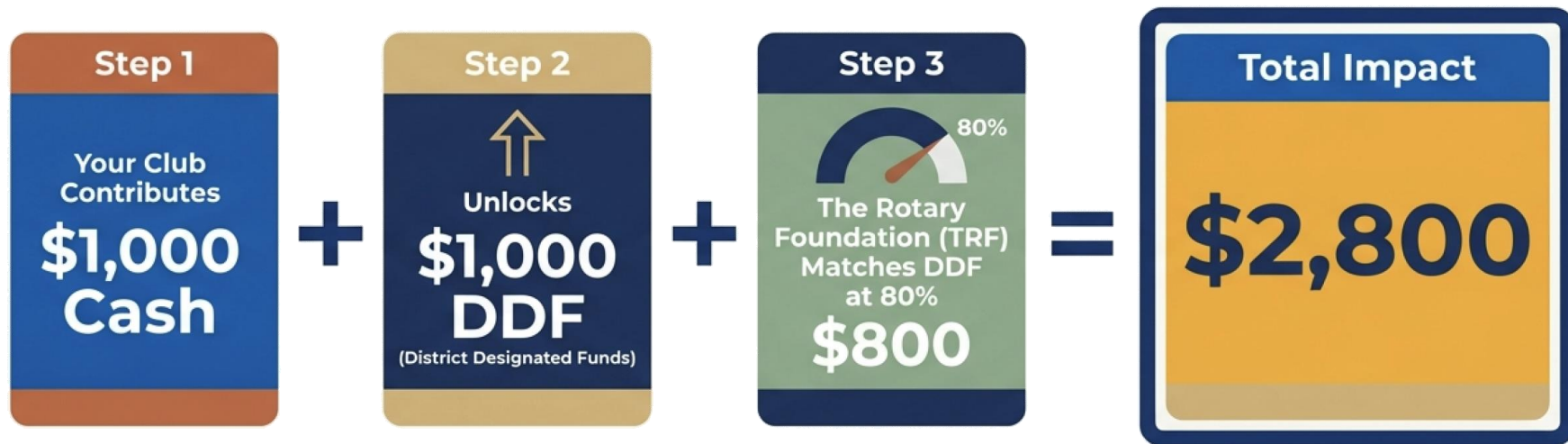


- District 5790 Clubs:** ~ \$95,000 Total (\$45K DDF / \$50K Cash)
- Other District Clubs:** ~ \$100,000
- TRF Match:** ~ \$90,000
- Non-Rotary Sponsors:** ~ \$45,000

## Current Momentum

Cross Timbers Rotary Club has already committed \$15,000 in cash and \$7,427 in DDF. Other funds from clubs, individuals and sponsors totals ~ \$84,000 as of 5/31/26

# The Financial Engine: Multiplying Your Generosity



Every \$100 you give is effectively matched by another \$180.

# How Much Impact Could Your Rotary Club Make?

- Your club gave **\$X,XXX** to the Rotary Foundation 3 years ago
- Of that amount, your club gave **XXX** toward an International Project cash

Total Impact when you give to the Rotary Foundation:

**CLEAN  
WATER FOR  
XXX  
PEOPLE!**

**\$X,XXX**



**\$X,XXX**

# Three Ways Your Club Can Partner With Us

# 1



## Pledge Your DDF

Dedicate your available District Designated Funds to Global Grant G-3675. (Requires a 1:1 1:1 cash match in D5790, minimum 20% club cash).

# 2



## Direct Cash Contributions

Club or individual member donations. (Members receive Paul Harris Fellowship points for their contributions).

# 3



## Corporate Sponsors

Connect the project team with local businesses looking to make tax-deductible contributions to a sustainable, high-impact global infrastructure project.

# CLEAN WATER. STRONGER COMMUNITIES.

*Brighter Futures.*



HELP BRING CLEAN  
WATER TO  
**18,300+**  
PEOPLE IN KENYA



**12,000+**  
community  
residents



**6,300+**  
students &  
staff



**BETTER HEALTH**  
Reduces waterborne  
illness and improves  
well-being.



**BETTER EDUCATION**  
Improves attendance,  
focus, and learning  
outcomes.



**STRONGER FUTURES**  
Supports food security,  
economic opportunity,  
and resilience



**SUSTAINABLE IMPACT**  
Community-driven  
solutions for long-term  
success.

Cross Timbers

**Rotary**



**CREATE LASTING IMPACT**

## YOUR GIFT. BIGGER IMPACT.



YOUR  
DONATION



ROTARY CLUB  
DDF



ROTARY  
FOUNDATION  
MATCH



MORE CLEAN  
WATER, MORE  
LIVES CHANGED.

JOIN US

**DONATE  
TODAY**



**SAFE WATER. STRONGER COMMUNITIES. BRIGHTER FUTURES.**

*Together, we make it possible.*



# Join Us on the Ground in Kenya

This is an interactive partnership. We invite you to join us on two planned service trips to Maai Mahiu to work on the project and related community initiatives.



## Trip 1: November 2026

Project Initiation and ground-breaking.



## Trip 2: Summer 2027

System commissioning and official handover to the MURUKA Community-Based Organization.

# Next Steps to Turn on the Tap

## Pledge Today

Visit [MatchingGrants.org](https://MatchingGrants.org) and search for Project G-3675, or scan the QR code to register your support.

## Invite Us

Let us bring this presentation to your next club board meeting to discuss DDF and cash participation.

## Contact Information

Will Carlton, Project Lead (G-3675)  
Cross Timbers Rotary Club  
Email: [will.carlton@crosstimbersrotary.com](mailto:will.carlton@crosstimbersrotary.com)



**Let's bring clean water to 18,000 people.**

Video: <https://tinyurl.com/mmwater2025>