

Watch this video and check the main problems regarding water access in the community

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## Which of the three projects

1. is the most cost-effective
2. would be the most sustainable in the long run
3. seems the least practical to implement in rural areas
4. would be the most beneficial in the short term
5. could have the most significant impact
6. is the least necessary

**Device 1** The Q Drum carries 13 gallons (50 liters) of water easily.

- drum/use to bring clean water to houses
- drums/make/in South Africa
- rope/put through a hole
- drums/sell for \$70
- drum/pull/not carry



**Device 2** The KickStart Pump helps farmers provide more water for their crops.

- pump/sell to farmers in Africa
- pump/operate with your feet
- more crops/grow with the water
- money from crops/use for family's health and education
- pumps/make in Kenya/sell for \$70



**Device 3** The LifeStraw provides clean water for one person for a year.

- LifeStraw/use with any kind of dirty water
- one end/put in a person's mouth/the other end/put into water
- LifeStraw/use in emergency situations and for camping
- no electrical power/require to use the LifeStraw
- LifeStraw/make by a Swiss company/sell for \$20



### 1. Rainwater Harvesting Systems

- **Objective:** Install rainwater harvesting systems in rural communities to capture and store rainwater during the wet season.
- **Benefits:** Provides a reliable source of water during dry periods, reduces reliance on groundwater, and helps in maintaining water availability year-round.
- **Impact:** This project would directly address water scarcity by ensuring communities have a sustainable water supply, which would also support agriculture and improve sanitation.

### 2. Community-Based Water Management Programs

- **Objective:** Establish local water management committees to oversee the fair and efficient distribution of water resources.
- **Benefits:** Empowers communities to manage their own water resources, promotes equitable distribution, and encourages water conservation practices.
- **Impact:** By involving communities in water management, this project would reduce conflicts over water use, improve sanitation, and ensure that water is used efficiently.

### 3. Drought-Resistant Crop Development

- **Objective:** Promote the use of drought-resistant crops and provide training on sustainable agricultural practices.
- **Benefits:** Helps farmers adapt to changing climate conditions, ensures food security even during dry periods, and reduces the strain on water resources.
- **Impact:** This project would mitigate the economic impact of droughts on agriculture, reduce water consumption, and support rural livelihoods.

### 4. Water Purification and Sanitation Infrastructure

- **Objective:** Build or upgrade water purification and sanitation facilities in rural areas to provide access to clean drinking water.
- **Benefits:** Improves public health by reducing waterborne diseases, enhances sanitation, and ensures safe drinking water for communities.
- **Impact:** This project would address the immediate public health concerns related to water scarcity, improve overall quality of life, and support sustainable development in rural areas.