Turbidimeter

Can we really drink dirty water?

Chloe Bonneau
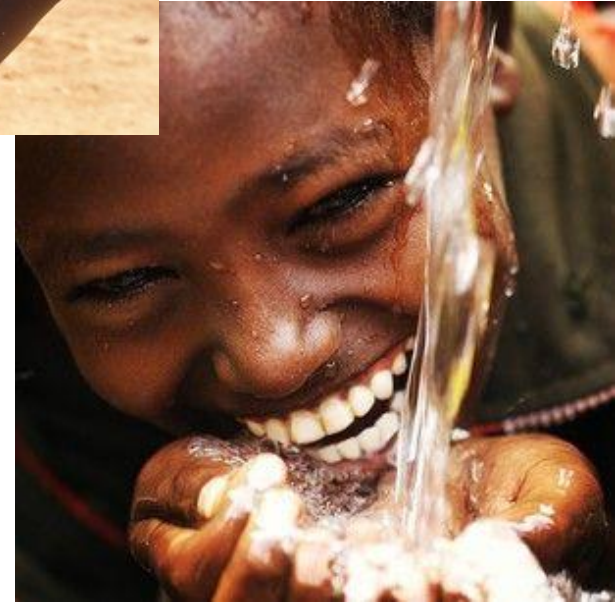Gilles & Virginie de Bordeaux

Problem

- Worldwide 1 in 3 people (about 35%) lack access to a clean water source

- Diseases spread through unsanitary water

- Estimated 801,000 children <5 years of age perish from diarrhea each year

Solution

Give access to sanitary
water source to under
developed countries
by using an
economic non-wasteful water filtration system

Water Filtration System

Method

- Put filtration bottle on top of recipient
- Pour dirty water to remove copper, chlorine, alkaline, carbohydrates
- Wait and filter again as needed
- Leave under sunlight for 2-3 hours for UV's to kill bacteria
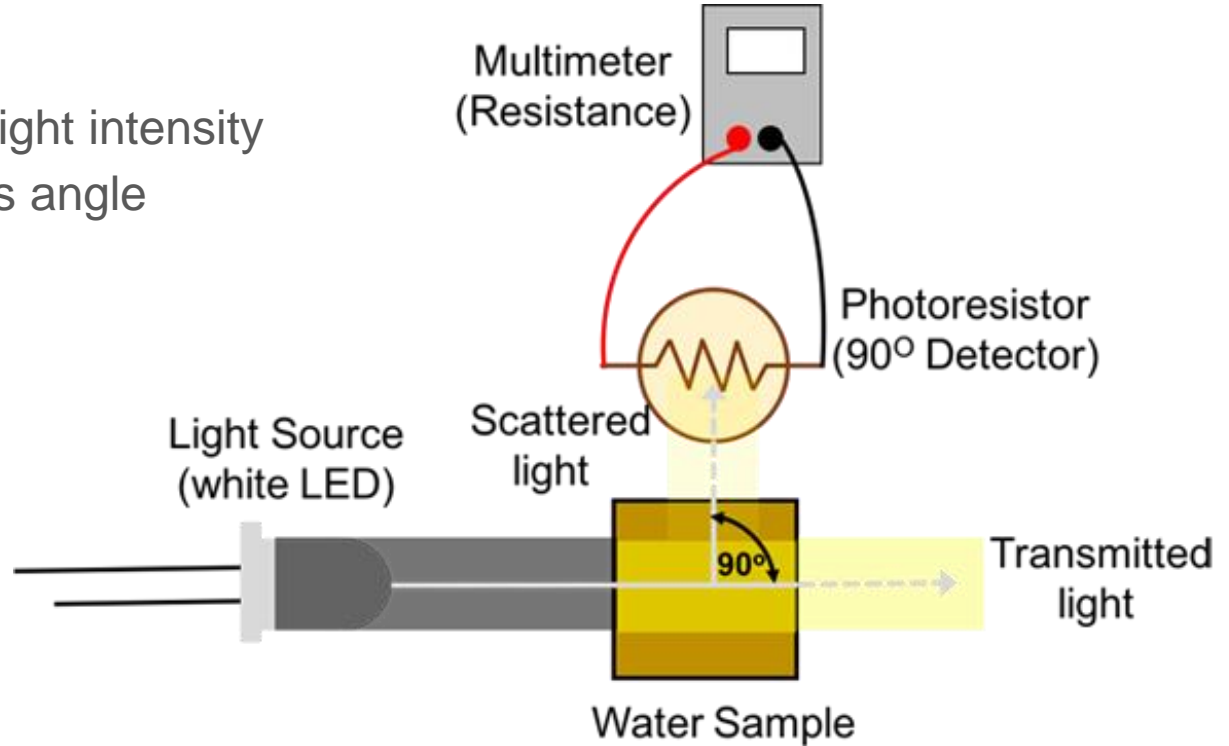
Cost

- Free (only use local materials)

Evolution of Filtration

Electronic Circuit

Verify sanity level using light intensity scattered at a 90 degrees angle passing through the fluid

Improvements & Marketability

- Offer bottle + filter kit easy to assemble and service

- Low cost turbidity and UV exposure electronic circuit

- Embed in ring for different bottles / glass sizes

- Funding / distribution through foundation
  (Bill and Melinda Gates Foundation, Red Cross, etc.)

Thank You!