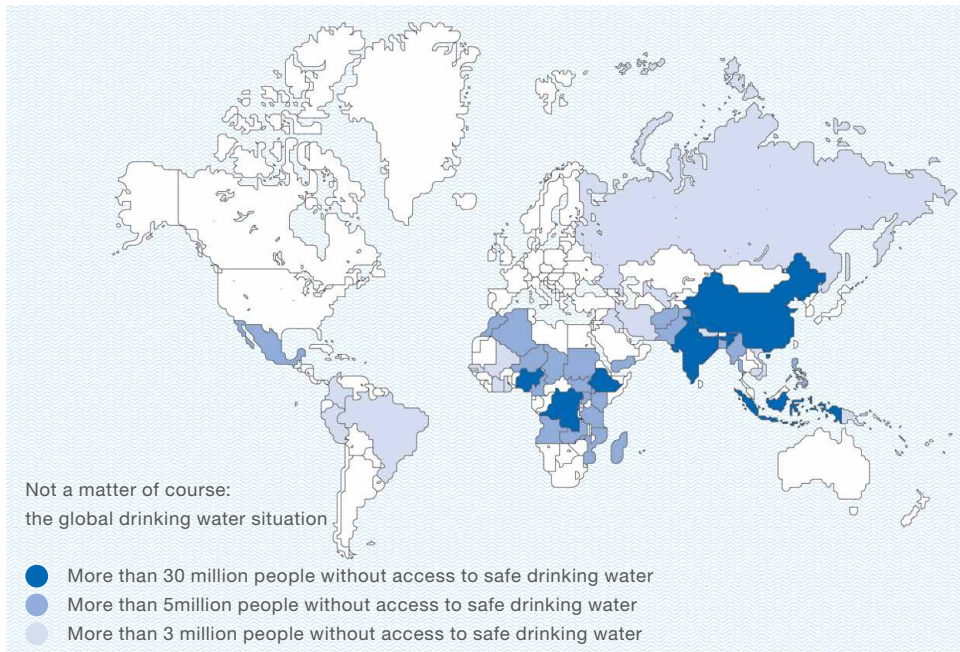


# WATER IS LIFE



## Safe drinking water is the basis for any future development

Water is a finite and irreplaceable resource that is fundamental to human survival and well-being. However, in many parts of the world the provision of safe drinking water is still not secured and millions of people lack access to safe, sufficient and affordable water. In 2012, the governments at the United Nations Conference on Sustainable Development admitted that safe water is at the core of sustainable development and is closely linked to a number of key global challenges. Access to safe drinking water and sanitation is therefore a pre-requisite for poverty eradication, education, gender equality, the reduction of child mortality, improved maternal health, the combat against major water-borne diseases and achieving environmental sustainability. For children, safe drinking water is a matter of life and death: everyday, 2,000 children under the age of five die because of waterborne diarrheal diseases. According to UNICEF, 99 percent of these deaths occur in developing countries, especially in Africa and South Asia.



## Safe water: a human right

The Right to Water was recognised by the United Nations General Assembly as a Human Right on July 28th, 2010. The provision of safe drinking water leads to the reduction of poverty and supports economic progress for disadvantaged people:

- health and hygienic conditions are improved which benefits the reduction of avoidable, waterborne diseases
- women and girls have time to go to school or participate in trainings and earn reasonable income
- costs for consultations, medicine and expensive products for water treatment can be saved

**WADI™** – a solar powered UV-measurement device is a new approach which guarantees safe and healthy drinking water with its innovative technology and the power of the sun.

## THE GLOBAL GOALS For Sustainable Development



## SUSTAINABLE DEVELOPMENT GOAL 06

By 2030, achieve universal and equitable access to safe and affordable drinking water.

## FACTS & FIGURES

- Today, more than 660 million people in Africa, Asia and Latin America don't have access to safe drinking water (WHO/UNICEF 2015).
- 80 per cent of disease and death in the developing world is water-related.
- 50 per cent of the hospital beds in developing countries are occupied by people suffering from water-borne diseases such as diarrhea, cholera and typhus (UNEP, 2010).
- Diarrheal diseases kill more children than AIDS, malaria, and measles combined! (WHO/UNICEF, 2015).



# HELIOZ'S IMPACT ON SAFE DRINKING WATER



## WADI™: an investment into the future

It sounds too easy to be true: Fill contaminated water into PET plastic bottles, expose it to sunlight and the sun's UV-radiation will eradicate harmful bacteria in the water – the result is safe, healthy drinking water. Only the sun is essential for the disinfection process.

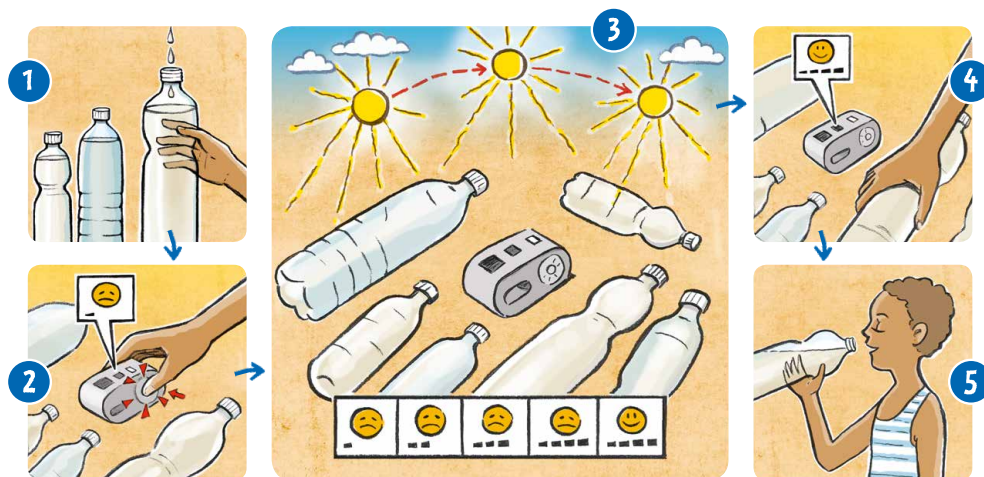
This environmentally friendly and sustainable method of water treatment is called SODIS - solar water disinfection. It was researched and developed by the ETH Zurich and is approved and endorsed by WHO and UNICEF.

HELIOZ developed the innovative product WADI™ – a solar powered UV-measurement device, which indicates the process of the solar water disinfection in a simple manner. WADI™ is placed next to the PET plastic bottles, and a happy smiley face on the display indicates when the UV-radiation of the sun has made the contaminated water safe to drink. Through solar water disinfection and the use of WADI™, the harmful impact of waterborne diseases is significantly reduced which results into improved living conditions of the affected people.

**WADI™ uses the renewable energy of the sun for water disinfection and enables most disadvantaged people for the first time a sustainable and affordable access to safe water.**

## HOW IT WORKS

### Water, WADI™ and the sun



1. Fill PET-plastic bottles with water.
2. Expose the plastic bottles and WADI™ to the sun, and press its reset button.
3. Wait for some hours while the sun disinfects the water.
4. Watch a happy smiley face appear on the WADI™ display.
5. Water is safe and ready to drink. Enjoy a refreshing sip!

## FACTS ABOUT WADI™

- 100% developed and produced in Austria
- Based on the SODIS method, which was scientifically proven and tested by the ETH Zurich, Switzerland

## TARGET GROUP

- Most disadvantaged families and pupils living in rural and remote areas in Africa and Asia.  
BoP market – average income USD 2.50/day

## SCIENTIFIC PRODUCT PERFORMANCE

- WADI™ meets WHO microbiological performance criteria for household water treatment technologies. WADI™ performs highly against bacteria, protozoa and viruses. (WHO International Scheme to Evaluate Household Water Treatment Technologies, August 2015)

## ADVANTAGES OF WADI™



- **Sustainable** – no maintenance needed, no spare parts needed, 2-year warranty
- **Practicable** – water resistant and dust proof, easy to transport
- **Scalable** – simultaneous use of many PET-bottles
- **Environmentally friendly** – no batteries, no chemicals, no CO<sub>2</sub> emissions
- **Micro Entrepreneurship** – WADI™ provides the opportunity for selling disinfected and safe water to other villagers and communities

