



VIVA CON AGUA
SANKT PAULI

ONE HEALTH DAY 2021

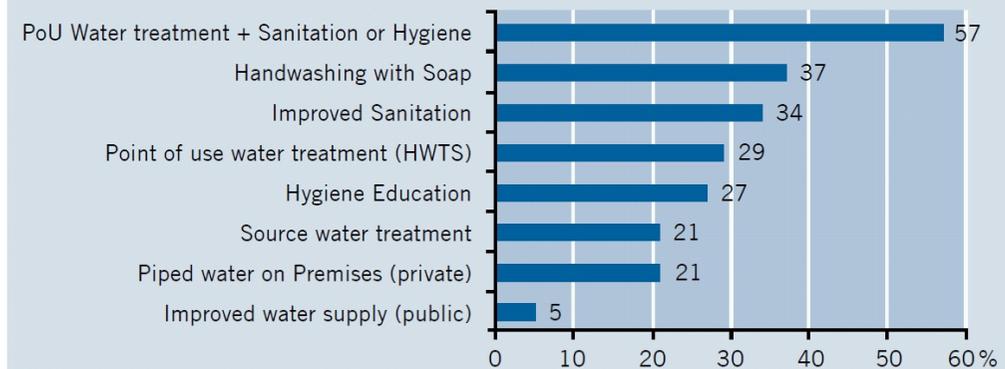
INNOVATIVE WATER TREATMENT

WASSER & HYGIENE: BASIC FACTS

Mögliche Krankheitserreger, die durch mangelhafte Hygienebedingungen übertragen werden können:

- ◆ Bakterielle Erreger wie e.coli, Salmonellen
- ◆ Viren wie Hepatitis A, Rotavirus, Norovirus
- ◆ Parasiten

Reduction in Diarrhoea by Intervention Type



Know your ENEMIES

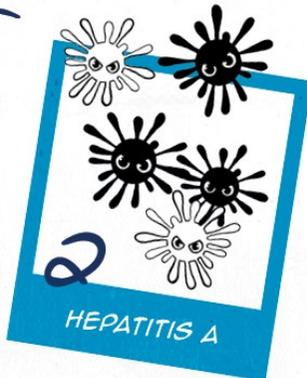
- DESCRIPTION** • Here you learn about the name of the disease and how these germs spread from one to another.
- SYMPTOMS** • Some sensations, feelings and signs that usually occur when people are having this disease.
- PREVENTION** • What can you do to protect yourself and others?

THIS IS THE KEY TO UNDERSTANDING THE TEXTS



- DESCRIPTION** • COVID-19 (caused by the Corona virus) is an infectious disease
 - Attacks the respiratory system
 - Is highly contagious
 - Is currently affecting the whole world
- SYMPTOMS** • Coughing • Sneezing
 - Fever (when your forehead feels very hot while you yourself feel cold)
 - Loss of smell and taste
 - Some people won't feel very sick, while others do get very sick and die from it
- PREVENTION** • The virus spreads between people who are close to each other through small droplets, travelling through the air when you cough, sneeze, or even just talk. Best ways to protect yourself and others are:
 - Handwashing with soap
 - Keeping physical distance of at least 2 m
 - Covering your mouth and nose with masks, scarfs etc. every time you are outside and can not keep a distance

- DESCRIPTION** • Hepatitis A is a viral liver disease
 - Spreads through eating food or drinking water which is contaminated with feces
- SYMPTOMS** • Loss of appetite • Fever
 - Diarrhea, or a constant feeling that you need to vomit
 - Skin and whites of the eyes turn yellowish
- PREVENTION** • Always use a toilet to poo
 - Handwashing with soap, especially after using the toilet
 - Boil your food before eating
 - Purify or boil your water before drinking



BECOME THE NEXT WASHAMPION

- DESCRIPTION** • Cholera is an infectious bacterial disease attacking the intestines
 - Spreads through eating food or drinking water which is contaminated with feces
 - Occurs as a big outbreak, people can get really sick and die without medical help
- SYMPTOMS** • Bad, large amount of very watery diarrhea
 - Vomiting
 - Muscle cramps
 - Skin feels really cold and loses its elasticity
- PREVENTION** • Always use a toilet to poo
 - Handwashing with soap
 - Boil your food before eating
 - Purify or boil your water before drinking

- DESCRIPTION** • Trachoma is an infectious bacterial disease
 - Leads to severe eye infections and, if untreated, to blindness
 - Spreads through direct or indirect contact with an affected person's eye, e.g. through flies
- SYMPTOMS** • Sensitivity to bright lights
 - Aching eyes
 - Swollen eyelids
- PREVENTION** • Handwashing with soap
 - Washing your face with soap in the morning and before you go to bed
 - Keeping animals out of the house
 - Using a mosquito net at your bed



- DESCRIPTION** • Escherichia Coli (e.coli) is a bacteria commonly found in the intestine of animals such as goats and cows
 - Some E-coli bacteria can cause diarrhea and urinary tract infections
 - Spreads through eating food or drinking water which is contaminated with feces
- SYMPTOMS** • Diarrhea • Vomiting
 - Stomache cramps
- PREVENTION** • Always use a toilet to poo
 - Handwashing with soap
 - Boil your food before eating
 - Purify or boil your water before drinking





SPOUTS
OF WATER

DIE HERAUSFORDERUNG: VERUNREINIGTES WASSER

Over 50% of Uganda's 44M population drinks untreated water and another 44% boil water daily in order to sanitize it, creating numerous issues:

Health: #2 killer of children under 5 in Uganda (exceeds Malaria and AIDS)

Productivity: \$170M USD loss in annual productivity

Livelihood: 85% of time treating water spent by women & children

Environment: 360M tons CO₂ from boiling water annually

These trends can only be reversed through widespread behavior change and adoption of a sustainable water treatment option.



DIE VISION VON SPOUTS – UND IHRE WIRKUNG

Spouts hat ambitionierte Ziele: Bis 2025 will das ugandische Social Business mit seinen Wasserfiltern über 4 Millionen Menschen in Uganda und Ostafrika die sichere Reinigung von Trinkwasser ermöglichen. Die Wirkung geht aber weit über Trinkwasser hinaus:

- ◆ Mehr sauberes Wasser rettet Leben:
Die zweitgrößte Ursache für Kindersterblichkeit in Uganda sind Durchfallerkrankungen.
- ◆ Mehr sauberes Wasser spart Geld:
Durch den Mangel an sicherem Wasser gehen in Uganda jährlich 200 Mio. US-Dollar Produktivität verloren.
- ◆ Mehr Wasserfilter schützen das Klima:
Aktuell werden für das Abkochen von Wasser jährlich tausende Hektar Wald vernichtet.





Provide Access to Clean Drinking Water and Hygiene to All East Africans

SPOUTS



HOW IT WORKS:

- 

1. Pour any type of water into the filter.
No need of boiling beforehand!
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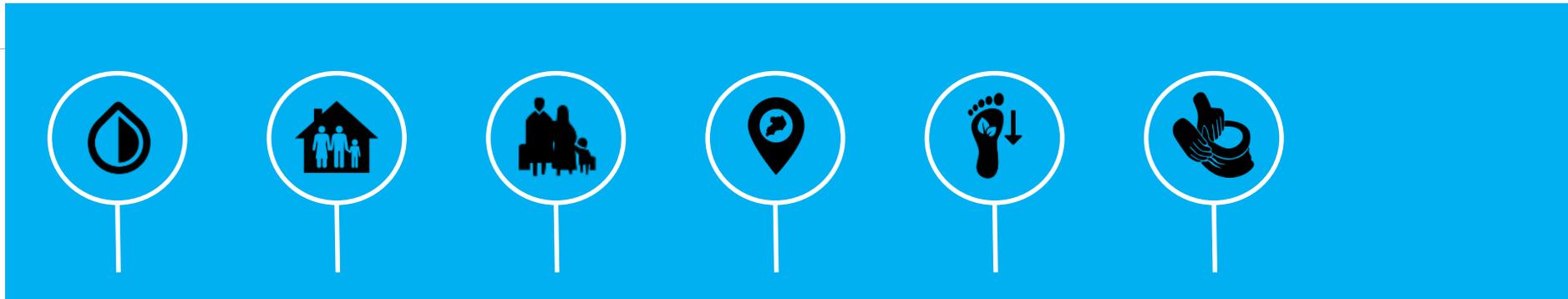
2. Only the clean water will drip down into the container.
All germs and impurities remain behind
- 

3. Take safe drinking water direct from the tap at your convenience.
Simple and healthy!

For more info: +256 771 814 847 | +256 702 439 116
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 Purifaaya™ is manufactured by SPOUTS OF WATER LTD



IMPACT TO DATE



70,000+
filters sold

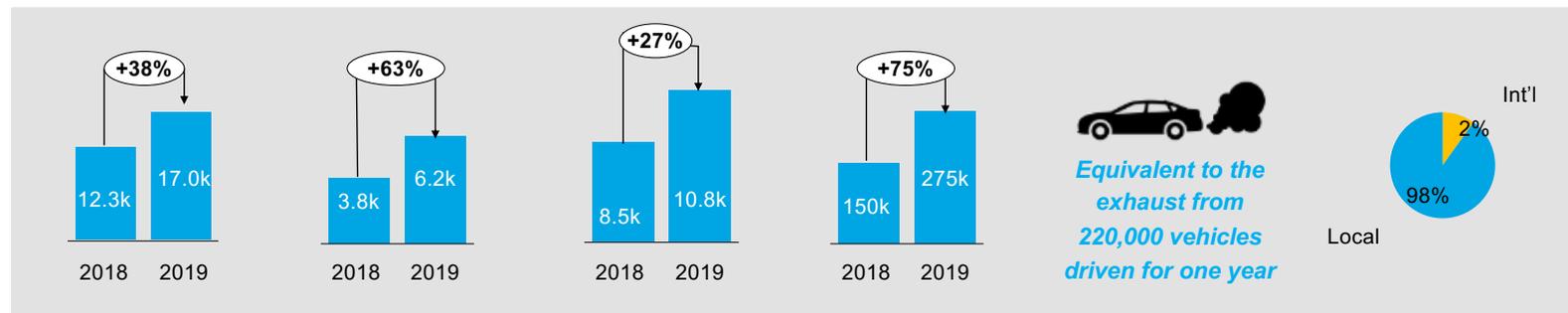
34,000
commercial sales

36,000
aid installations

400,000
impacted

280,000 tons
CO₂ reduction

150+
total staff



*SPOUTS is projecting to reach over **75,000 filter sales since inception** by the end of 2020!*

*SPOUTS projects to sell over **25,000 filters** through its sales channels in 2020!*

*SPOUTS is projecting to reach over **450,000 end-users** by the end of 2020*

***80% of on-the-ground leadership roles** filled by local staff*

WADI UND SODIS

WADI ist ein solarbetriebenes UV-Messgerät, das den Prozess der „Solar Water Disinfection“ (SODIS) in PET- oder Glasflaschen sichtbar macht. Es wird neben die Flaschen gestellt, die mit verunreinigtem Wasser gefüllt und der Sonne ausgesetzt werden. Sobald der Prozess abgeschlossen ist, bestätigt ein Smiley-Gesicht auf dem WADI, dass das Wasser unbedenklich zu trinken ist. Der Smiley erscheint, sobald die einfallende UV-Dosis die im WADI gespeicherten Referenzwerte erreicht und das Wasser trinkbar ist (Entfernung von 99,99% der üblichen Krankheitserreger).



<https://www.helioz.org/en/wadi>



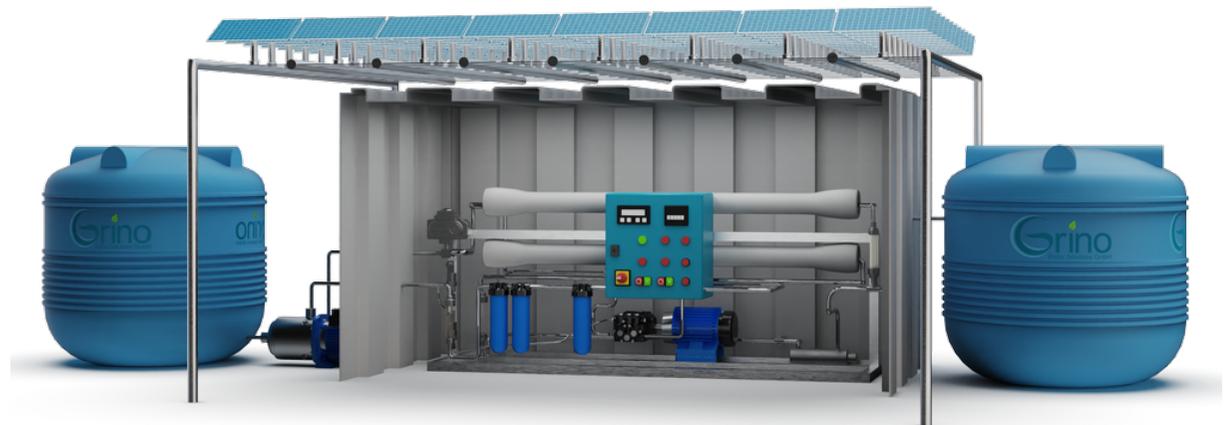
Die solare Wasserdesinfektion beschreibt einen natürlichen Prozess, bei dem die UV-Strahlung der Sonne schädliche Keime im Wasser, wie Viren, Bakterien und Protozoen, beseitigt. Mit der Zeit macht die UV-Strahlung der Sonne das kontaminierte Wasser wieder trinkbar. WADI in Kombination mit SODIS ist hochwirksam gegen Bakterien, Protozoen und Viren.

UMKEHROSMOSE

Unter allen Wasserreinigungstechnologien ist **UMKEHROSMOSE** (Reverse Osmosis, RO) derzeit die **ZUVERLÄSSIGSTE** Technologie.

Die Anwendung des **SOLARBASIERTEN WASSER-REINIGUNGSSYSTEMS** ist aufgrund des **HOHEN SONNENEINFALLS** in vielen Ländern des Globalen Südens eine vielversprechende Lösung.

Das System passt sich vollautomatisch an die Sonneneinstrahlung an, so dass die Anlage nicht gestartet oder gestoppt werden muss.



UMKEHROSMOSE

Grino hat eine vollautomatische, einfache und erschwingliche Technologie entwickelt.

Anstelle von umweltschädlichen fossilen Brennstoffen oder einer Kombination aus PV-Paneelen und konventionellen umweltschädlichen Batterien wird eine innovative Lösung angewandt.

Das System ist völlig unabhängig, es ist nicht einmal auf den Austausch von Batterien angewiesen.

Die Insellösung kann bis zu 15 Jahre lang mit den geringsten Wartungskosten arbeiten.





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VIELEN DANK!