

efficiency

PAUL[®] filters more than 99,99% of bacteria, virus and other pathogens using a membrane filter with a nominal pore size of ca. 40 nm (0,04 µm), and a **10 years** lifetime. Thus, over years at least **1.200 Liter water per day** can be filtered – enough for **400 victims** to survive.



What's more reasonable:

- ✓ carry along 1.2 tons of water **every day** to help 400 victims
- ✓ or transport just one PAUL[®], 20 kg, **just once**?

If you, on one day, transport **60 PAUL**[®] (= 1.2 tons) instead of water, you enable **24.000+ Victims** to filter their water by themselves!

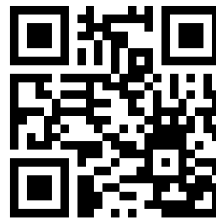


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video (6 min):



facebook:



how can you help?

Donate and help creating even more **PAUL**[®] units for first aid in disasters like earthquakes, flooding etc..

donate to: World University Service

reason: **Paul**
bank: Bank für Sozialwirtschaft
IBAN: DE95 3702 0500 0007 2321 00
BIC: BFSWDE33XXX

include postal address for donation certificate

water supply during

disasters:

the WaterBackpack PAUL[®]

gefördert durch



Deutsche
Bundesstiftung Umwelt

www.dbu.de

Deutschland
Land der Ideen



Ausgewählter Ort 2011

Bundessieger Gesellschaft

GreenTec
Awards

WINNER
2016

Water & Sewage

AQUA AWARD 2017

AQUANET
BERLIN BRANDENBURG

developed at

U N I K A S S E L
V E R S I T Ä T



why?

After disasters like earthquakes, flooding etc., one of the most urgent problems is to provide the affected population with enough quantity of **potable water**. Wells and rivers are contaminated with bacteria, virus and other pathogens. People suffer from **diarrhea, cholera and other diseases**, and many, especially children, die.

what is the problem?

In case of disasters, mobile high-tech waterworks are deployed which need skilled operation personnel, energy and consumables. They serve several ten thousand capita but can only be used where infrastructure is operational. This is essential and must continue!

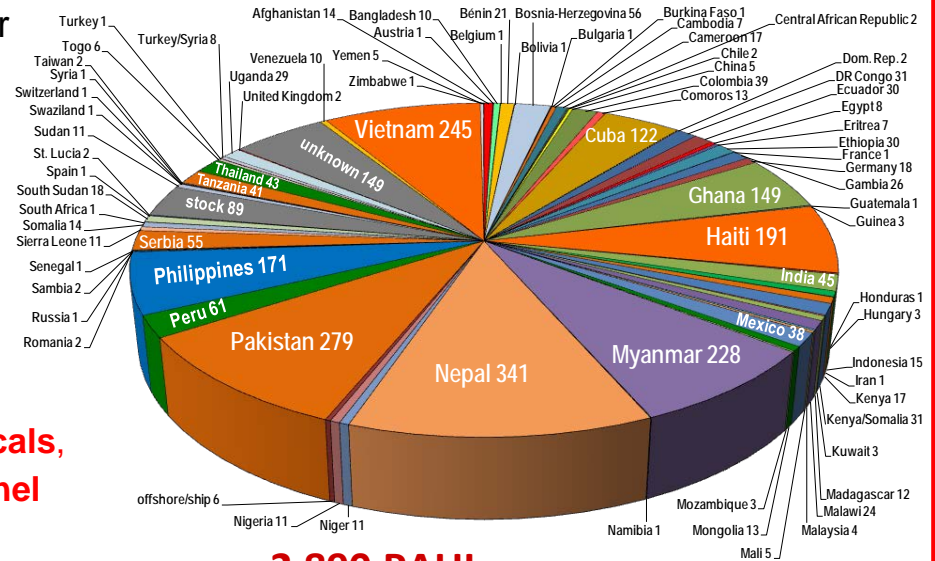
But: with infrastructure devastated, victims in **remote areas** are cut off this water source. Here, **PAUL®** is needed and brings **additional help**

solution: PAUL® (Portable Aqua Unit for Lifesaving)

For decentralised water supply in disasters or emergencies, the waterbackpack **PAUL®** was developed at the University of Kassel.

PAUL® is characterized by:

- ✓ no energy, no chemicals, no operation personnel needed
- ✓ no maintenance over months
- ✓ no moving parts
- ✓ carry on the back hands free
- ✓ 4 pictograms allow self help even for illiterates
- ✓ Can be used for permanent supply over many years, see „PAUL® Station“-leaflet



2,890 PAUL (February 2019)



2016-04_Nepal (Kohl-Kollmer) 01 2016-04-04

