Safe and affordable drinking water for all

Lieselotte Heederik
Co-Founder & Director

Lisa@nazava.com
www.nazava.com

Nice to meet you!

Lieselotte Heederik

Co-founder & Director

Background
- MSc from Wageningen University
- Experience in relief and development work

Roles
- Business development
- Branding, D2C
- Global

Guido van Hofwegen

Co-founder & Director

Background
- MSc from Wageningen University
- Experience in modelling, consultancy

Roles
- Sales
- Finance
- R&D

Syahri Abdillah

Manager

Background
- Bs in Electrical engineer
- Experience in project management and village water supply

Roles
- Operations
- H&R Administration

Wela Utami

Account Manager

Background
- Public Health Promotion at Yayasan Tirta Lestari
- BSc in marketing

Roles
- Recruit, train and support resellers
- School program

2021	• **UNWTO** SDGs Global Start-Up Competition-Finalist
2020	• Carbon Credits sold • Meet & Greet HRH Queen Maxima and King Willem Alexander • **Unicef** Household Water Treatment Filters-Product Guide
2019	• Carbon Credits issued under Gold Standard
2018	• **WHO** accreditation • Launch Ethiopia • Indonesia **Social Leadership Innovation** Award-World CSR Day
2017	• **Red-Cross** Innov4Floods Competion-3rd Prize • Energy Globe Award-Indonesia-Winner
2016	• **Ashden** Awards-1st Prize • Meet & Greet HRH **Prince Charles** • **DBS-NUS** Finalist
2015	• Frost&Sullivan **Water Filtration Price/Performance Value Leadership Award** • **Sankalp**-Finalist
2013	• Nokia Tech Awards-1st Prize
2009	• Established

World Health Organization

UNWTO World Tourism Organization

Gold Standard for the Global Goals

2017 WINNER ENERGY GLOBE NATIONAL AWARD INDONESIA

unicef

DBS - NUS Social Venture Challenge Asia

Palang Merah Indonesia

WORLD CSR DAY

FROST & SULLIVAN

Ashden Climate Solutions in Action

The Tech Awards

Technology Benefiting Humanity

SANKALP FORUM AN INTELLECAP INITIATIVE

Mission statement

To provide safe and affordable drinking water to the 4.4 billion people that do not have access to treated water

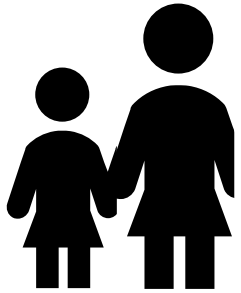
1. Impact of unsafe water Indonesia

Problem

24,000

children die annually through diarrhea in Indonesia

through consumption of contaminated water



8 million

children stunted in Indonesia

through constant exposure to diarrhea

$ 100

costs of bottled water

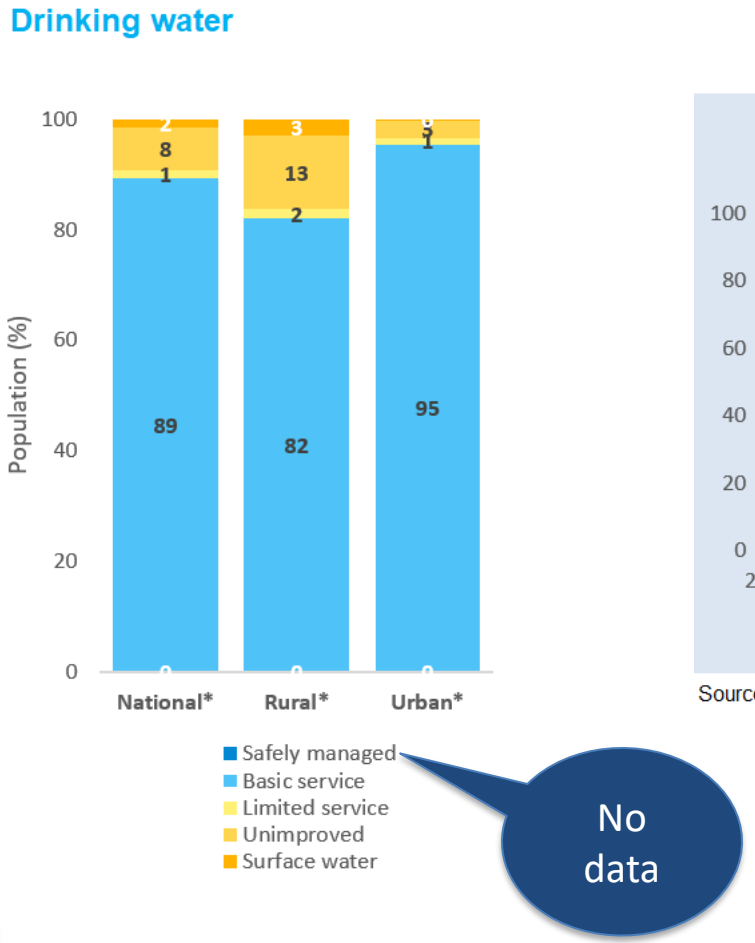
per year

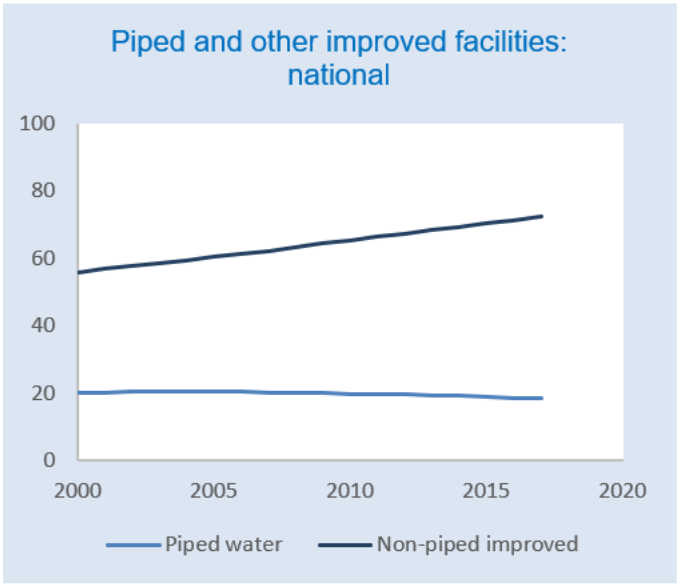
Source:https://www.unicef.org/indonesia/wes.html

Indonesia: 72% of the population uses well water… and there's no sewage system

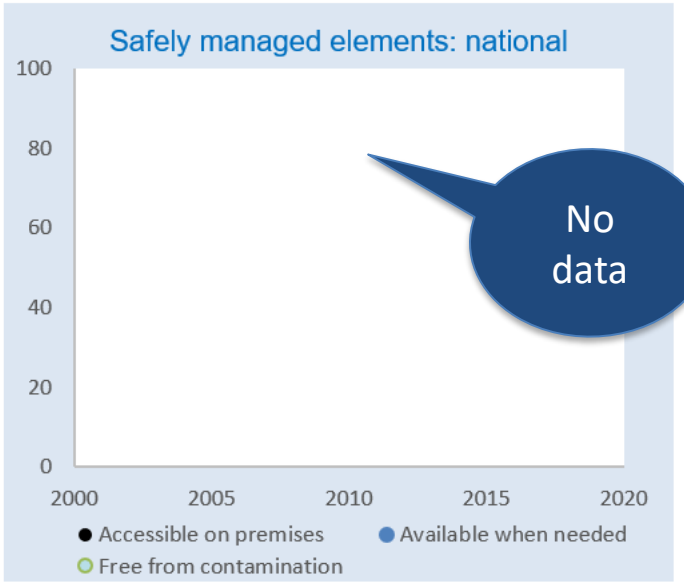
Source: JMP Monitoring database Indonesia tab 5: Estimates Drinking Water- Updated 2019
https://washdata.org/data/household#!/

JMP Data Indonesia





Source: WHO/UNICEF JMP (2019)



Source: JMP Monitoring database Indonesia tab 5: Estimates Drinking Water- Updated 2019
https://washdata.org/data/household#!/

Water quality

- 25% of all children under 5 in Indonesia suffer from diarrhea, which is the leading cause of child mortality in the country.
- Water quality is poor regardless of socio-economic conditions. A 2017 survey of drinking water in Yogyakarta, a well-off urban centre in Java, found that **89%** of water sources and **67%** of household drinking water were contaminated by fecal bacteria.
- Only **7%** of wastewater in Indonesia is treated.

Source: https://www.unicef.org/indonesia/water-sanitation-and-hygiene

% of households using groundwater

Article

Groundwater as a Source of Drinking Water in Southeast Asia and the Pacific: A Multi-Country Review of Current Reliance and Resource Concerns

Naomi Carrard *, Tim Foster and Juliet Willetts

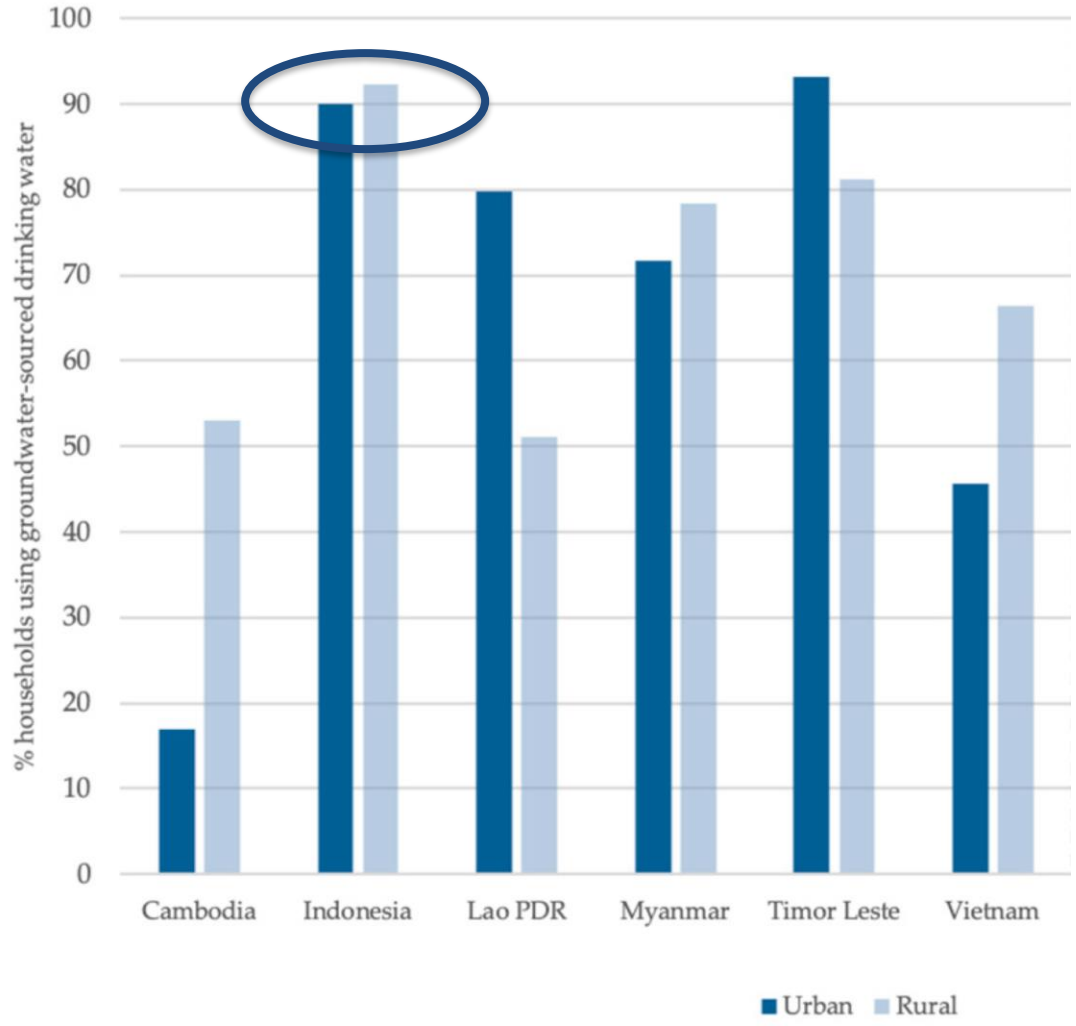
Institute for Sustainable Futures, University of Technology Sydney, Sydney 2007, Australia
* Correspondence: Naomi.Carrard@uts.edu.au; Tel.: +61-9514-4950

Received: 24 May 2019; Accepted: 31 July 2019; Published: 2 August 2019

check for updates

Institute for Sustainable Futures

UNIVERSITY OF TECHNOLOGY SYDNEY



Source: https://www.mdpi.com/2073-4441/11/8/1605/htm

Quality of bottled water

Water sources	Price (IDR/ litre)	Diarrhoea prevalence (quality)	Comparison to refillable bottled water
Branded bottled water	842.11	1.53%	Higher price – higher quality
Refillable bottled water	210.53	1.71%	–
Piped water	4.97	1.48%	Lower price – higher quality
Other water sources	0–25	2.05%	Lower price – lower quality

Source: Journal of Water and Health, 2017, A. Komarulzaman et al. | The switch to refillable bottled water in Indonesia

2. Safe drinking water with Nazava

- **Retail price: IDR 430,000**
- **Safe water**
- **Cost/year: IDR 167,000**

- **1/8 costs of bottled water**
- **1/3 costs of boiling**

Filtration and purification

- Ceramic filtration (particulate)
- Activated carbon (chemicals)
- Anti-microbial silver (pathogens)
- Plastic: Food safe PP
- Tested in > 30 international labs
- 99.99% effectiveness

Capacity

- Filters up to 7,000 liters (3 years)
- At 2-3 liters per hour

Easy and convenient

- Easy installation, cleaning & replacement
- Retail price: $20- $30
- Filter: $8

Track record

- 160,000 units sold by 2020
- Export to > 32 countries
- Found in 2009

Comparative benefits

Drinking water options		100% bacteria free	1 year guarantee	costs per 1,000 liters US$	Costs per year	Local support and customer service	Made in
	NAZAVA ® water filter	✓	✓	$ 2.15	$ 12	✓	Indonesia
	Unilever Pureit©	✓	✓	$ 11.47	$ 63	✓	India
	Korea King	✗	✗	$ 9.70	$ 53	✗	China
	Bottled water	✗	✗	$ 58.07	$ 318	✗	Local
	Boiling with LPG	✗	✗	$ 9.48	$ 52	✗	Local

Nazava Riam
water filter for households

Volume: 2 x 16 Liters
Flow rate: 2 liters/hour
Weight: 2.5 kg
Volumetric weight:7 kg

- 1 ceramic filter candle
- Designed by Delft University Netherlands
- **Worldwide best seller**
- 40ft CTR fits 3750pcs

US$ 30*

Petrus filter
water filter for emergencies

Volume: 2 x 1.5 Liters
Flow rate: 5 liters/hour
Weight: **290 gram**

- 1 ceramic filter candle
- Can hang and stand
- Includes brush & end of life indicator

US$ 18

Nazava XL
water filter for schools

Volume: 2 x 27.5 Liters
Flow rate: 15 liters/hour
Weight: 4 kg
Volumetric weight: 13 kg

- 3 ceramic filter candles
- 20ft CTR fits 500pcs

US$ 47

Replacement filter
for all Nazava filter systems

Capacity: 7000 liters or 3 years
Weight: 250 gram
Removal: 99.9% of bacteria (tested by WHO)

- Silver impregnated, filled with activated carbon Iodine 1100
- Compatible with all Nazava® filter products

US$ 8

* Retail price. Please contact guido@nazava.com for bulk prices

450,948 people impacted

Tested in over 30 International Labs & Accredited by the WHO

World Health Organization

WHO International Scheme to Evaluate Household Water Treatment Technologies

Nazava Water Filter

Product evaluation report

Summary of evaluation

Background

Product description

Test methods

Teknologi Belanda:

Netherlands

Design by:

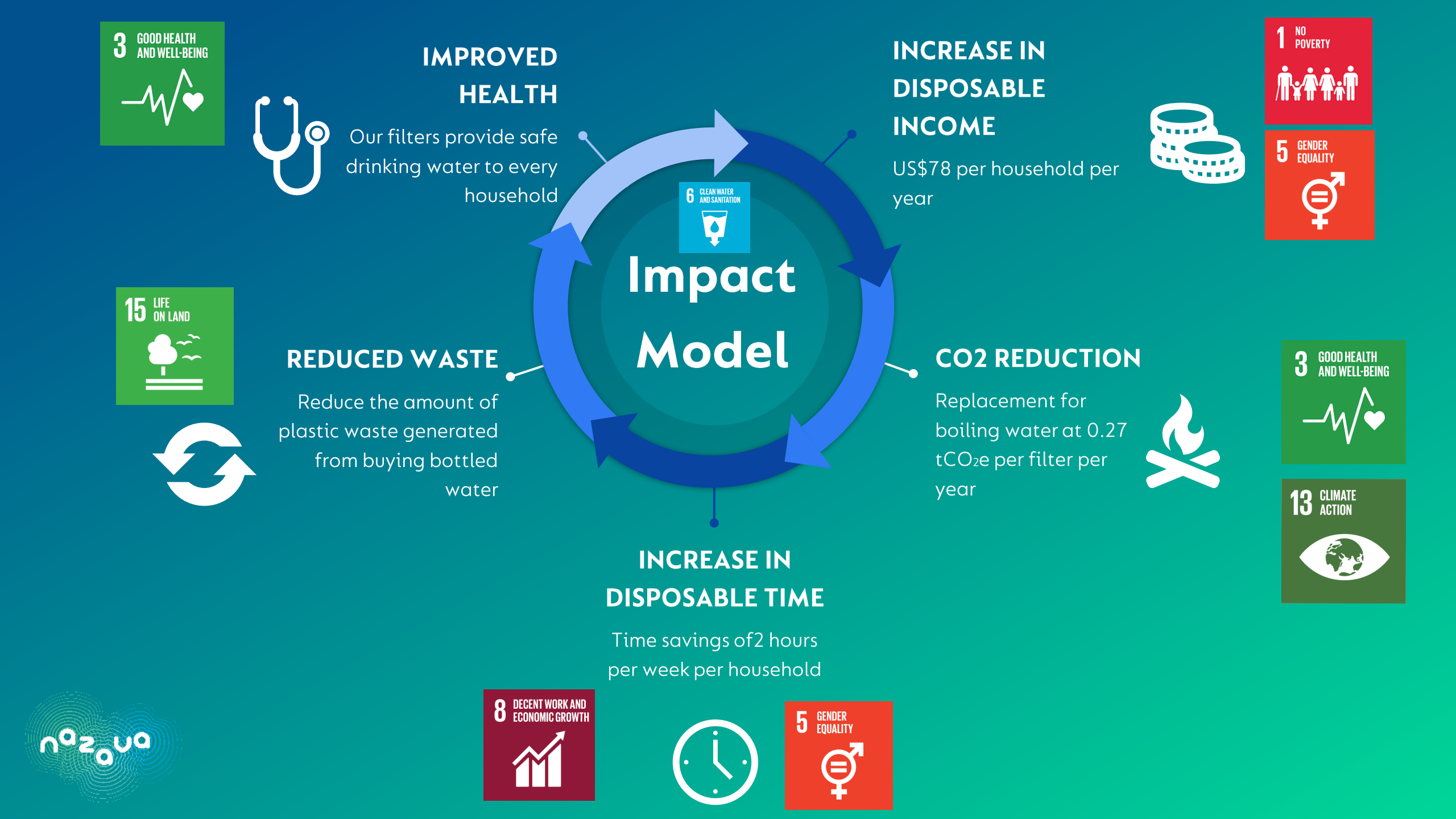
TU Delft Delft University of Technology

World Health Organization

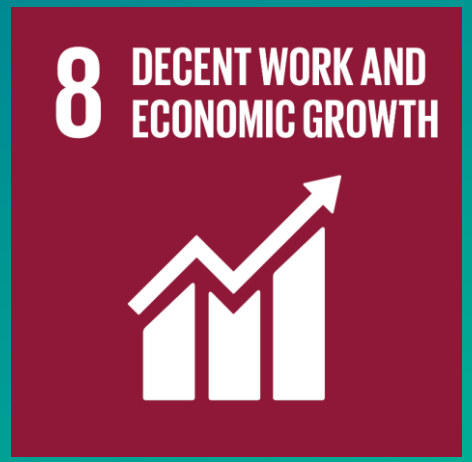
KEMENTERIAN KESEHATAN REPUBLIK INDONESIA

Universitas Padjadjaran

Source: https://www.nazava.com/en/laboratory-test-results-nazava-water-filters/


3 GOOD HEALTH AND WELL-BEING
IMPROVED HEALTH
Our filters provide safe drinking water to every household
INCREASE IN DISPOSABLE INCOME
US$78 per household per year
1 NO POVERTY
5 GENDER EQUALITY
6 CLEAN WATER AND SANITATION
Impact Model
15 LIFE ON LAND
REDUCED WASTE
Reduce the amount of plastic waste generated from buying bottled water
CO2 REDUCTION
Replacement for boiling water at 0.27 tCO2e per filter per year
3 GOOD HEALTH AND WELL-BEING
13 CLIMATE ACTION
INCREASE IN DISPOSABLE TIME
Time savings of2 hours per week per household
8 DECENT WORK AND ECONOMIC GROWTH
5 GENDER EQUALITY

Certified SDGs



Source: https://registry.goldstandard.org/projects/details/1597

Testimonies

- GAIN- Pakisaji, East Java
- GAIN-Kedungsalam, East Java
- School: Nazava-Sekolah SD Juara Cimahi

Partners

PMI

gain
Global Alliance for Improved Nutrition

Nexus

Universitas Padjadjaran

care

water.org

Project Child

KOPERNIK
SERVING THE LAST MILE

KIVA
loans that change lives

ACTED

QATAR AIRWAYS القطرية

nazava

Worldwide Footprint

Nazava's Impact* 2024

4M

people with improved health

through water filter sales

$ 42 M

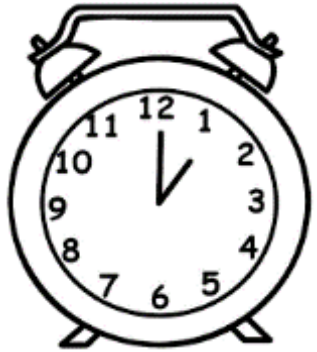
customer savings

through access to drinking water at lower costs

509 K tons CO2

reduced carbon emissions

by replacing need to boil water, in accumulative CO_2 equivalents



49,000 working years

time saved by women annually

by replacing need to seek fuel wood

*Impact based on sales of filter units, verified by Impact assessment reports of Santa Clara University and HEC Paris. June 2018

Join us!

#theSafeWaterRevolution