

Innovations for the SDGs: The young professional's role

- **Sunday 27 August** | 14.00-15.30 | **Room:** FH Little Theatre



Today's Session:

Part 1

- Antonella Vagliente: Director General at Young Water Professionals
- Catherine Wenger: Director at Arup
- Young Water Professional: Janita Bartell: MEL Lead at WaterShed.
- Young Water Professional: Marten Susebeek: CEO of Susteq.
- Nomvula Mokonyane: Minister for South African Department of Water and Sanitation.

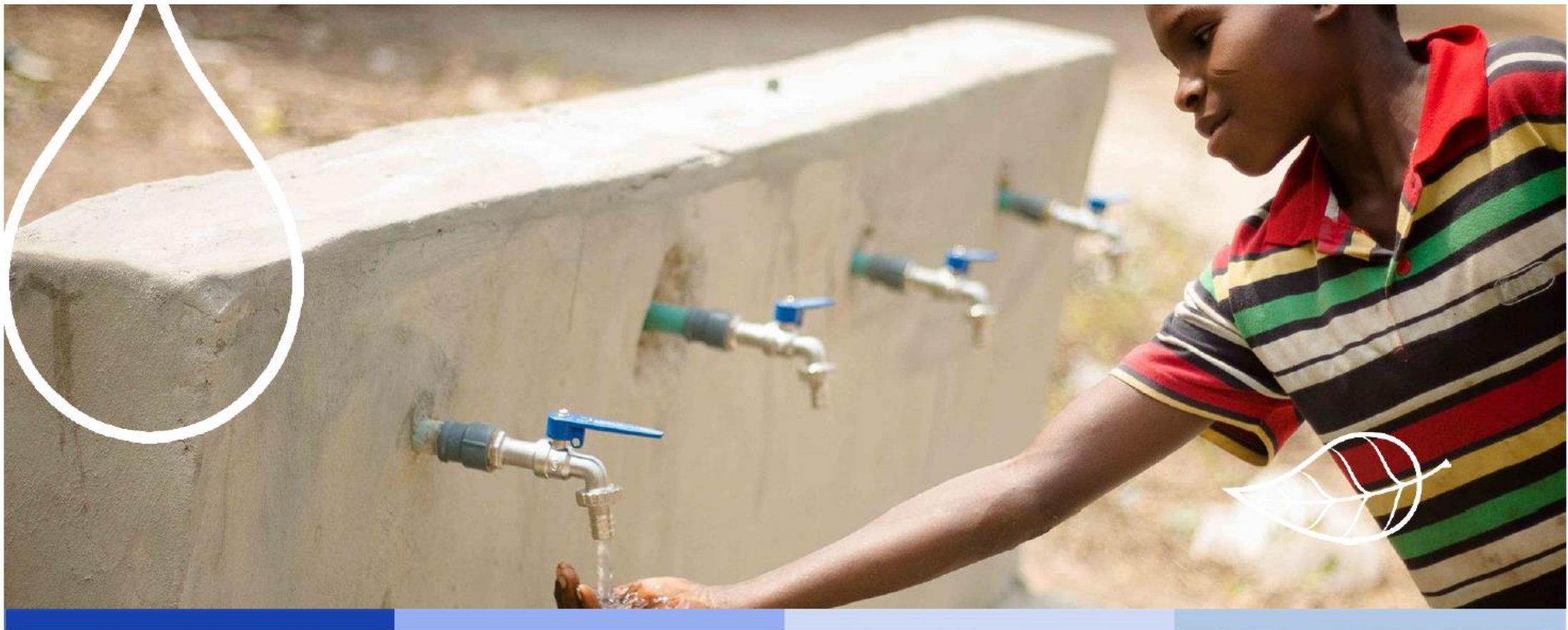
Part 2

- Icebreaker group game (5 mins)
- Group discussion (2 questions, 20 mins)
- Super Speed 1 minute feedback challenge



Antonella Vagliente: Director General at Young Water Professionals





YOUNG WATER SOLUTIONS

Empowering Young Leaders



- Children & youth have a key role in achievement of SDG 6
- Unlocking potential through empowerment: financial support and capacity building





***Empower young people as
water solutions providers
through financial and
technical support***

- Started as a Good Planet Belgium program
- Involves young and senior water professionals
- Projects in Burkina Faso, Bangladesh, Nigeria, Uganda

PROJECTS



Wara, BURKINA FASO



Sylhet District, BANGLADESH



Labata, NIGERIA



Wara, BURKINA FASO



Zaibtenega, BURKINA FASO



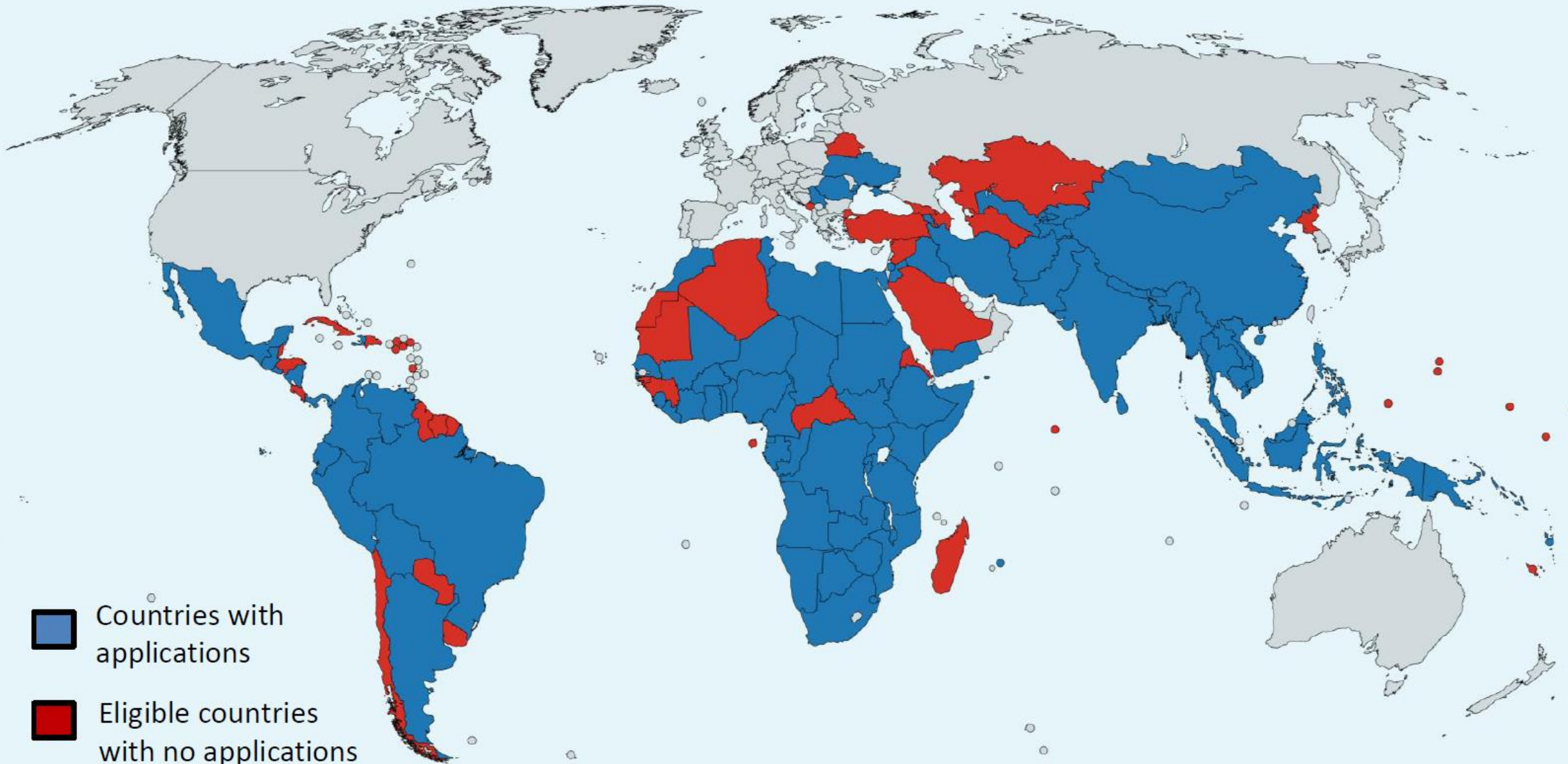
Hakibale, UGANDA

Young Water Fellowship



TRAINING + MENTORSHIP + SEED FUNDING





800 applications from 95 countries

2017 GLOBAL FELLOWS



- Massive proof of the will and potential of young people to solve local water issues
- Demands a change of mindset in donors
- Scaling up of YWF has no roof: Regional and thematic chapters



THANK YOU!

Young
Water
Fellowship



YOUNG
WATER
SOLUTIONS



Antonella Vagliente
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www.youngwatersolutions.org

Catherine Wenger: Director at Arup





What is the role of private companies in delivering the SDGs?

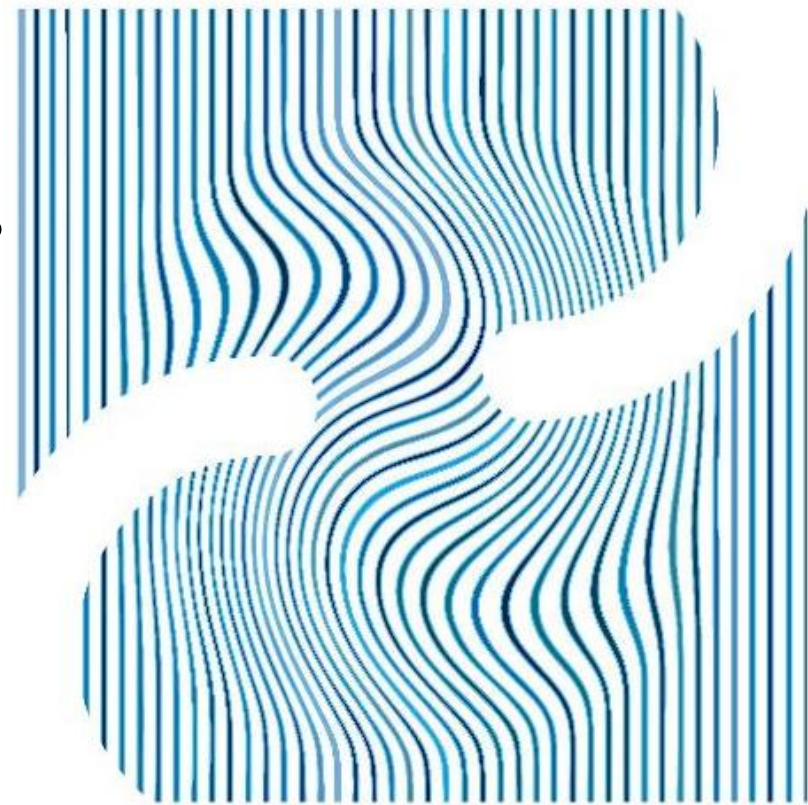
Catherine Wenger



ARUP

Contents

- Private Companies & SDGs
- Arup as a case study
- Opportunities & Challenges
- What next?



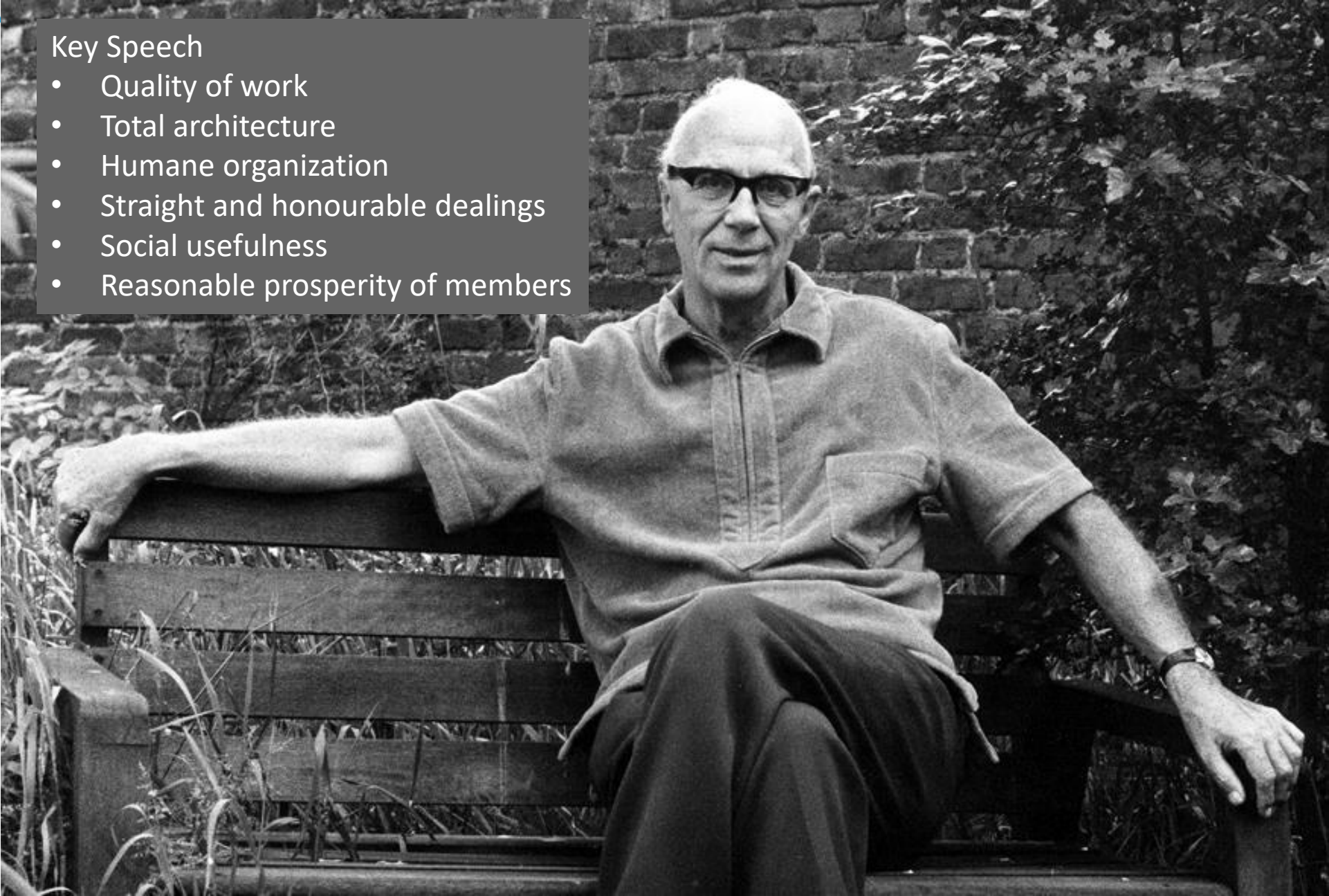
Who is responsible for implementing the SDGs?



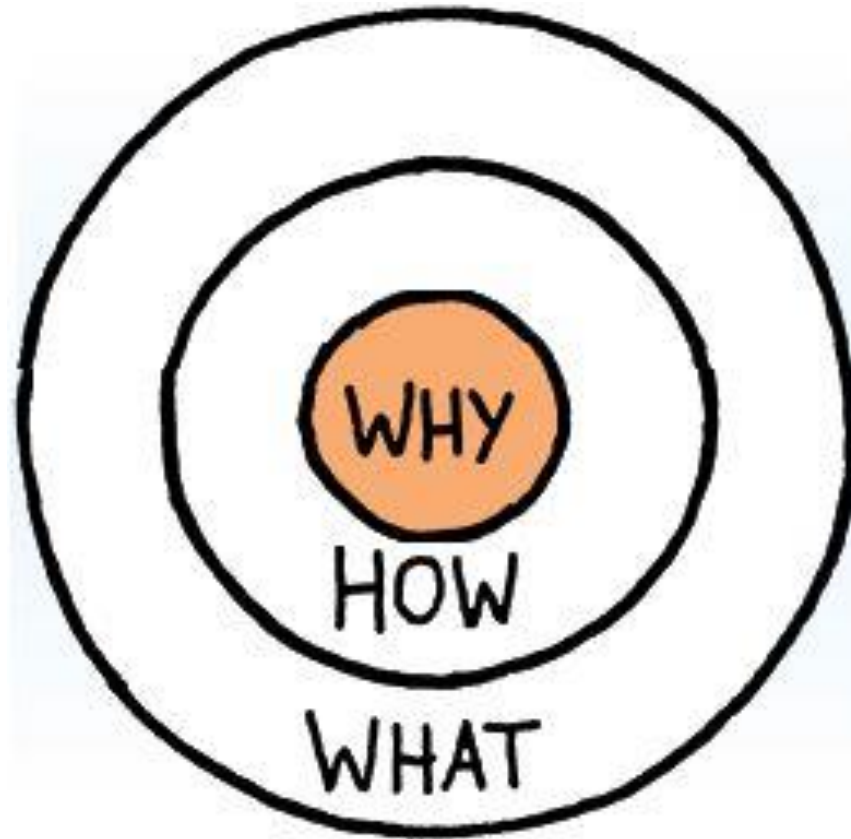
Arup Values

Key Speech

- Quality of work
- Total architecture
- Humane organization
- Straight and honourable dealings
- Social usefulness
- Reasonable prosperity of members



So what's our Why?



Upper catchment management
Raw water demand reduced as a result of water efficiency throughout catchment. Moorland and woodland management reduces colour in raw water, improves water quality in rivers and reduces run-off. Hydro-power is a source of energy.

Water footprinting
Understanding embodied water use within the city to determine water footprint and dependencies with remote water systems.

Agriculture and food
Land management to reduce run-off and improve water quality. Restoration and protection of river edges from contamination and grazing animals. Localised food growing throughout the city and edible planting throughout the green grid. Nutrient recycling from wastewater treatment.

Spatial planning and land use
Understanding of the integrated water cycle at catchment scale informs rural and urban planning and land-use, ensuring sustainable urban development is integrated with its hinterland and wider context.

Campus/business park
Compatible uses encourage localised recycling and sharing of water resources. Landscape and buildings enhanced through water related interventions.

City centre
Water reintegrated as a central feature of high quality public realm. New and retrofitted water efficient buildings use green roofs, green façades and intelligent management systems. Building scale harvesting and recycling. Ground water as heat source. New water and urban greening improves microclimate and controls run-off.

Revitalised river space
Re-design and re-connection of river banks using range of multi-functional flood defence options depending on urban context. Flood-compatible uses along river.

Water-resilient infrastructure

Restored and revitalised canals and waterways

Flood-resilient development

Coastal defences
Protecting urban areas and settlements and providing high quality public realm.

Sustainable urban extension
Site selection and planning to avoid flood risk and work with natural water cycles. Low carbon and water efficient homes. Community-scale water supply and treatment, including grey water recycling. CHP/solar power supplemented by micro hydro. Groundwater supply and potential heat source, with aquifer recharge from SuDS and treated wastewater.

Extended asset life for existing infrastructure
By reducing demand for supply and treatment, better water management can extend the life of existing water and wastewater assets avoiding disruptive and carbon-intensive replacement.

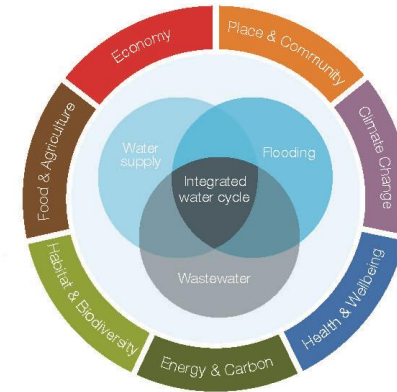
Inner city retrofit
Whole house retrofit including water efficient fixtures, smart metering, disconnection of downpipes and water recycling, coupled with landscape retrofit of SuDS, creating habitat and amenity. Possibility of community-scale decentralised treatment for surface water and industrial/domestic greywater. Possibility of sewer mining for light industry, landscape maintenance and localised food production.

Green infrastructure
Water plays a key role in the delivery of green infrastructure through de-culverting and restoration of rivers and canals, SuDS retrofit, and vegetation/tree planting to reduce run-off and manage microclimate. Green grid inhabited by community orchards and edible planting, play areas, and allotments. Networks of paths and cycleways.

Municipal treatment works
Capacity and carbon footprint reduced. Energy generation from waste, hydraulic recovery, wind, and, for example, solar retrofitted to redundant settlement tanks. Spare land use as tree nursery for urban greening/woodfuel. Soil production from green waste used for food growing and urban greening. Nutrients recycled locally.

Smart infrastructure
Real-time smart monitoring and control in buildings, on networks, rivers and waterways saves water, energy and improves flood control and forecasting.

Dynamic natural coast
Providing habitat and amenity.



Reducing risk, increasing resilience and making better places

when will you collect and sell your rainwater?

water

economic

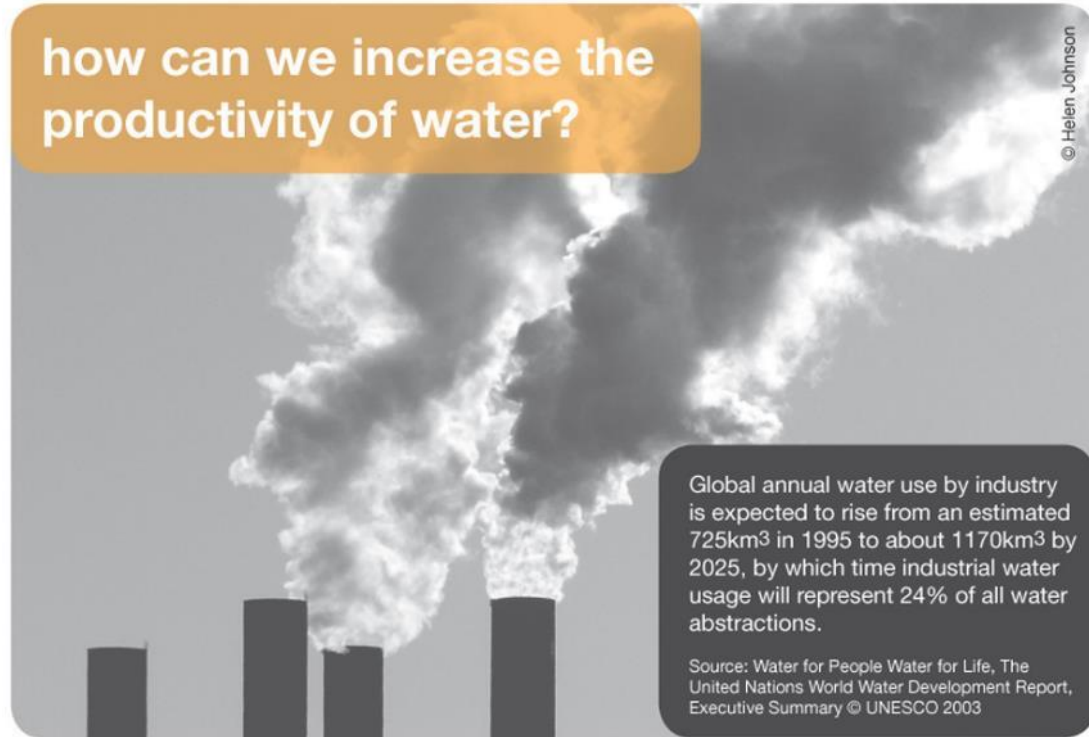


water recycling

how can we increase the productivity of water?

water

economic



Global annual water use by industry is expected to rise from an estimated 725km³ in 1995 to about 1170km³ by 2025, by which time industrial water usage will represent 24% of all water abstractions.

Source: Water for People Water for Life, The United Nations World Water Development Report, Executive Summary © UNESCO 2003

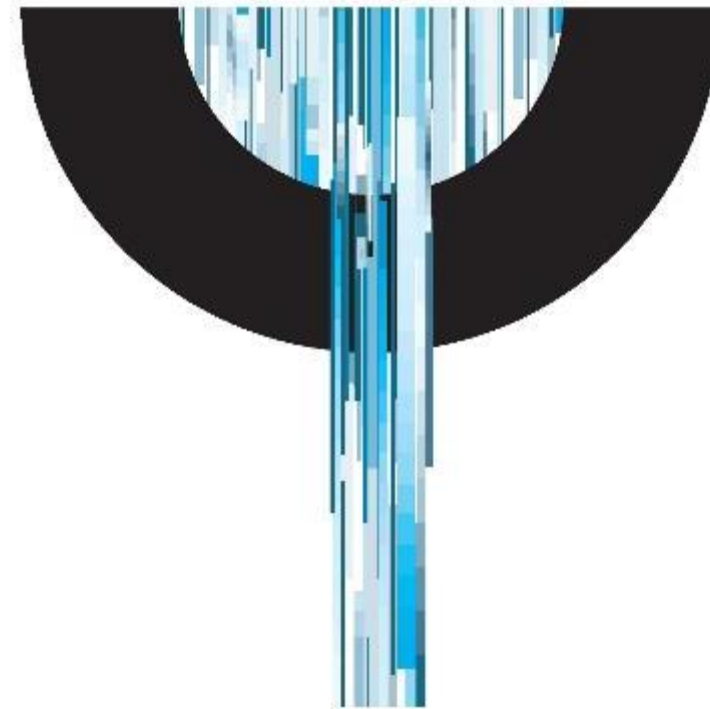
industrial demands

Plan c. The Global Challenge



Potential challenges & opportunities

- Persuading share holders
- Commercial implications
- Who to partner with?



Nomvula Mokonyane: Minister for South African Department of Water and Sanitation



Young Water Professional

Janita Bartell: Monitoring and Evaluation Lead at WaterShed





An animal can't use latrine, but you can.
Do you have a Latrine yet?



Stop the **DIARRHEA**

Start using **LATRINE.**





“I’m
businesswo
... and you!”

Sreymom Chan

Toilet Sales Agent

Kampong Speu Province,
Cambodia

.....
Join us!
.....

A Women’s Collective for a Better Future



Rural Cambodian women's professional networks*



* a simplified representation





Young Water Professional

Marten Susebeek: CEO of Susteq



The innovation behind Susteq and how it is helping meet SDG goal 6



Marten Susebeek
Co-founder CEO of Susteq



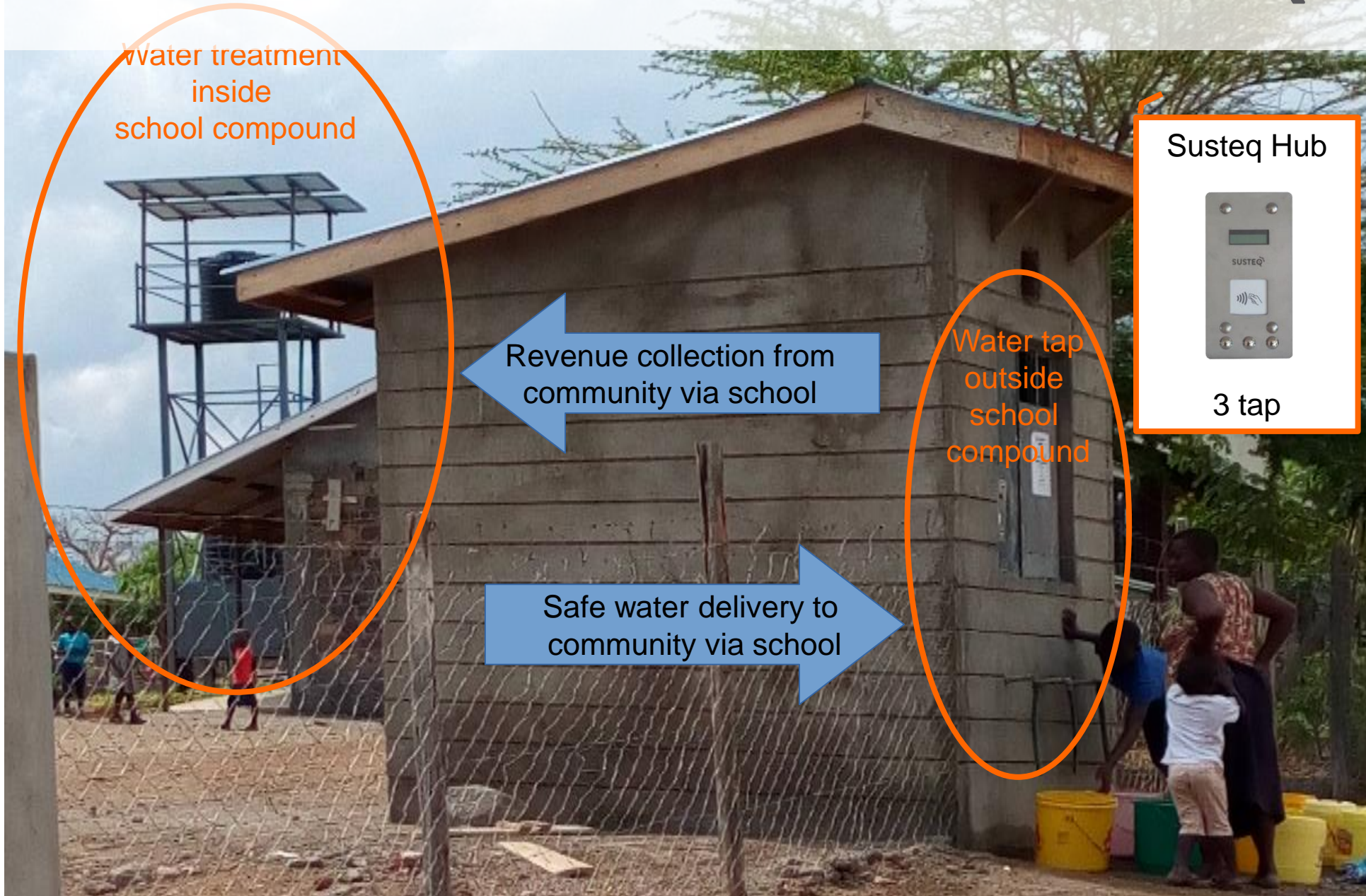


SUSTEQ

Safe Water for All



Safe water distribution via school



Water treatment
inside
school compound

Revenue collection from
community via school

Safe water delivery to
community via school

Water tap
outside
school
compound



Susteq Hub



3 tap





Innovation behind Susteq

Susteq prepaid water ATM solution



Best of class Dutch design and innovation, longer product lifespan and great service.



Intelligent real time warning system, easy tool to prevent infrastructure breakdowns.



Triple tap capacity, up to three times more capacity for higher customer satisfaction.



Sales insight dashboard, detailed sales insight to guide and support local sales staff.



Susteq Pay, a secure and robust payment system for automated revenue collection.

Join us to meet SDG goal 6



Organisations we work with



- www.susteq.nl marten@susteq.nl



Group Icebreaker Game – Water Taboo

- Give out all the cards evenly within the group
- Describe the word on the card without saying the two taboo words beneath
- First group to finish all 20 cards wins

Group discussion

- Think about innovative ideas that **you can implement in your daily job** in order to take into account SDG 6 as a normal basis" (Micro solutions perspective)
- Think about innovative ideas that **the industry can implement** in order to integrate SDG 6 as a normal companies approach/principles " (Macro solutions perspective)

Super speed 1 minute feedback challenge



Thank you

