

Clean Water and Sanitation

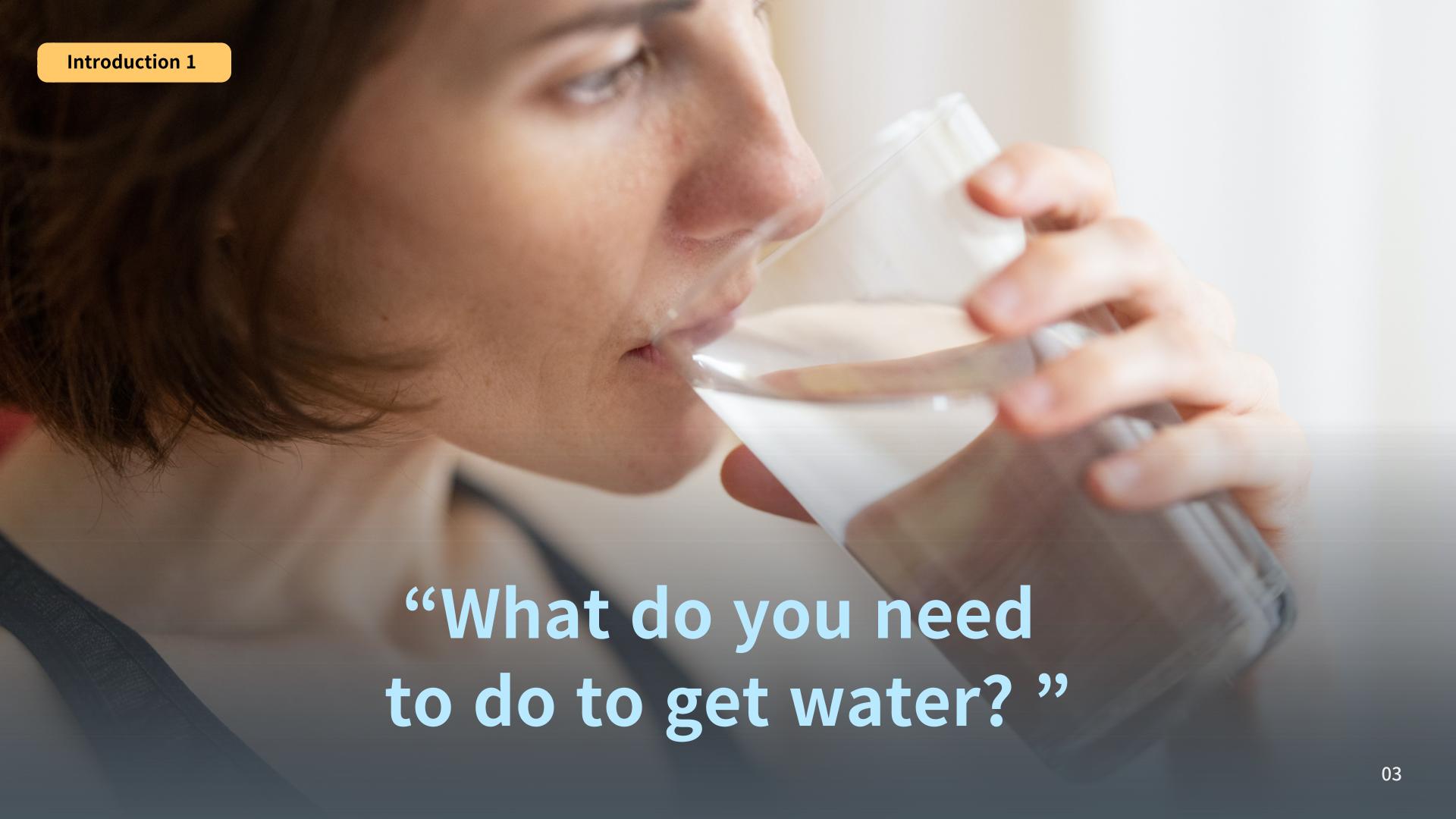




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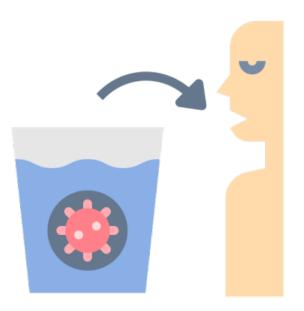




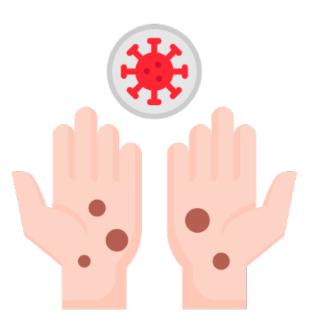
Unsafe water, unsafe people



Contaminated water and contagious diseases

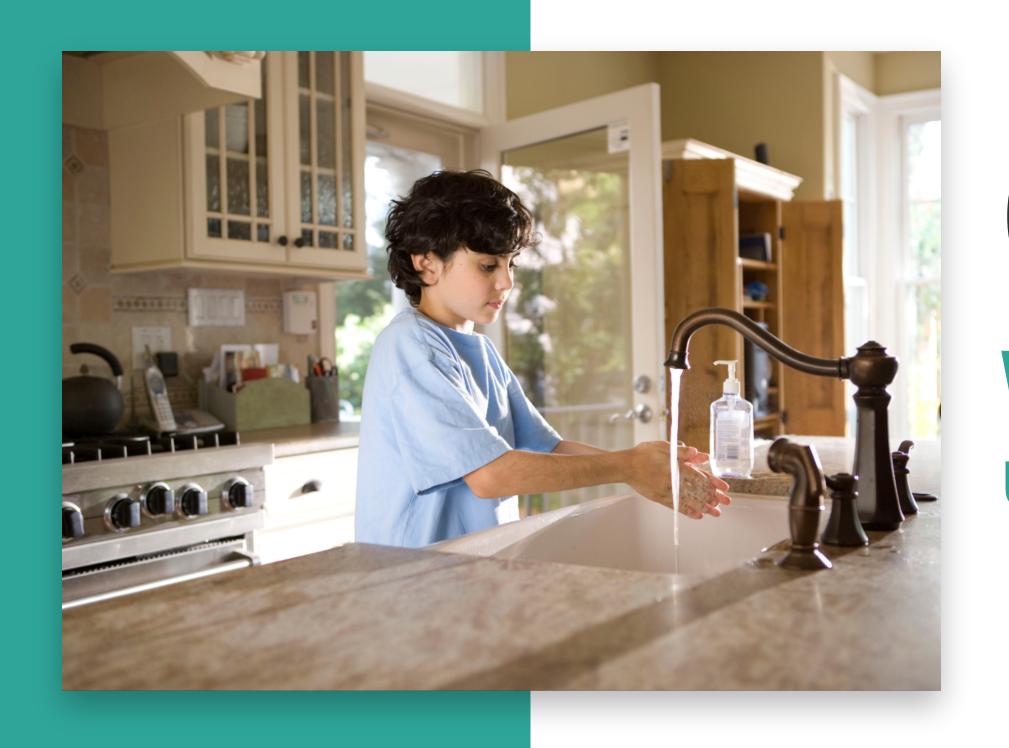


480,000 people die from waterborne diseases every year



2.3 billion people unable to practice hand hygiene





O1Why do people drink unsafe water?



30% of the world's population experiences water shortage



Contamination of water







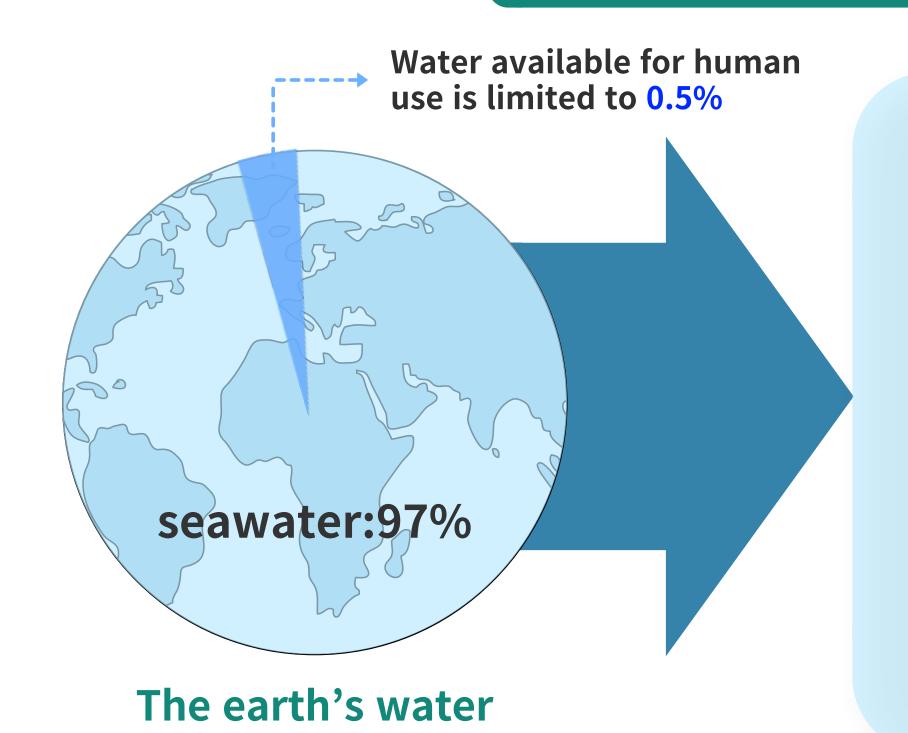
02

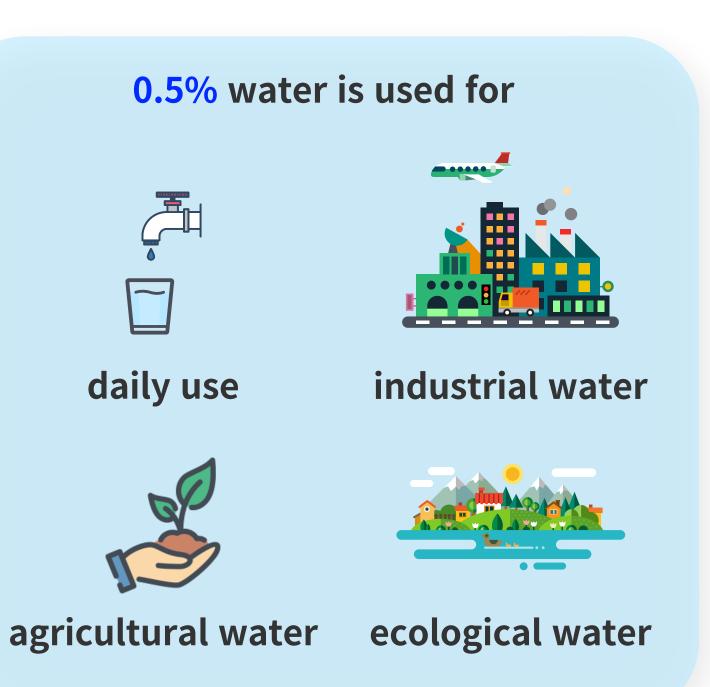
What are the causes of water scarcity?

02. What are the causes of water scarcity? (1)



Restricted amount of water





02. What are the causes of water scarcity? (2)

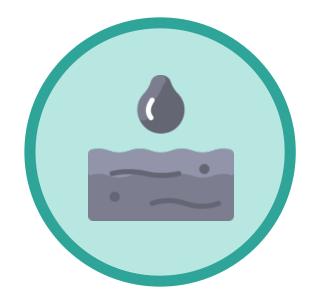




Global human population growth



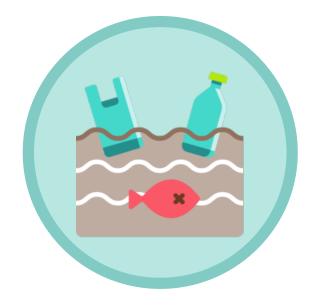
Increase in food consumption



Increase in untreated wastewater



Global warming and water condensation



Contamination of aquatic ecosystems





03

How is lack of clean water related to poverty?

OUNICEF

03. How is lack of clean water related to poverty?



The vicious cycle of water scarcity



03. How is lack of clean water related to poverty?





Increase in climate refugees

The number of climate refugees will reach 1.2 billion by 2050

©sei.org



Girls missing school to fetch water

It takes away their opportunity to participate in education

©UN News



Lack of access to toilets and prevalence of disease

2.4 billion remain inaccessible to improved sanitation services

©gfa.org





Global current status on water shortage

04. Global current status on water shortage



Water Stress Index (WSI)

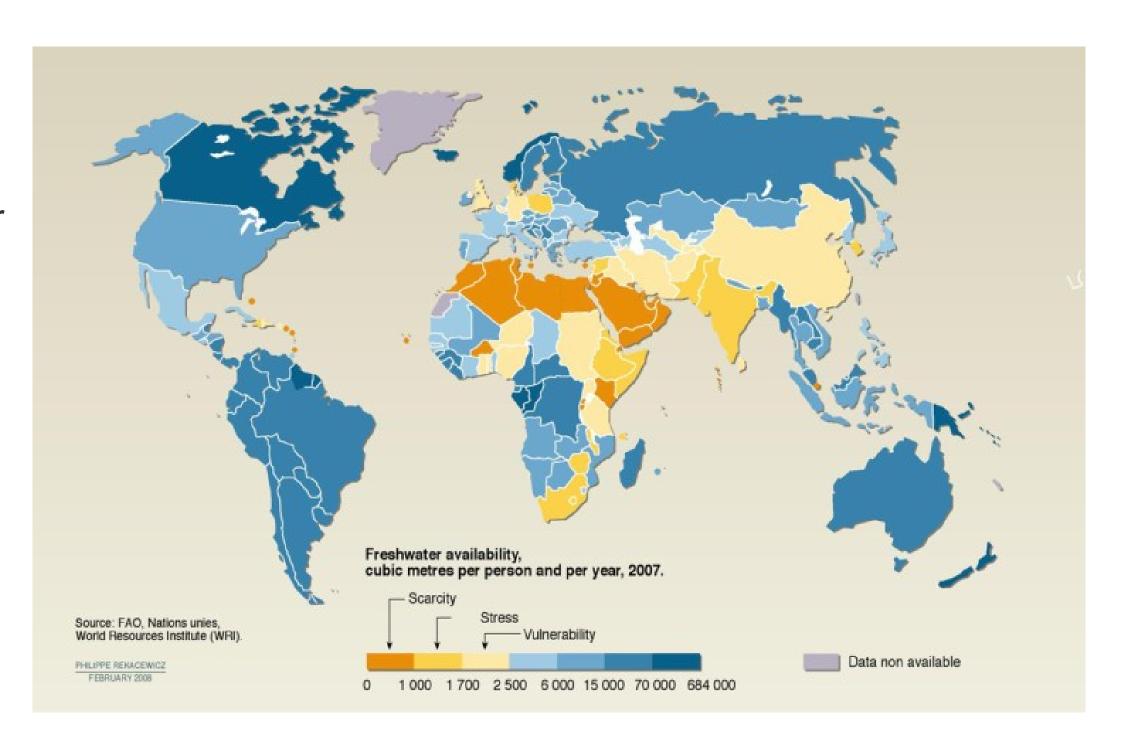
1,100 tons = Average amount of water used by one person in a year



Water-stressed
(1,000 tons ~ 1,700 tons)



----- Approx. 2 billion people



©PAI, Population Action International

04. Global current status on water shortage





What people do to drink water in water-scarcity regions

Among the 2 billion people



1.2 billion people

take a 30-minute round trip to find improved water

368 million people

collect water from unprotected wells and springs

282 million people

travel more than 30 minutes to find improved water

122 million people

use unsanitary lake or river water as drinking water





Goal of the international community for clean water and sanitation

05. Goal of the international community for clean water and sanitation





UN Sustainable Development Goal #6

"Clean Water and Sanitation"

- Access to clean water and sanitation as a human right
- Water scarcity and lack of proper facilities as the main problem

05. Goal of the international community for clean water and sanitation



SDGs 6 Targets

- 6.1 By 2030, achieve universal and equitable access to safe and affordable drinking water for all
- 6.2 By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations
- 6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally
- 6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity
- 6.5 By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate
- 6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers, and lakes

06. Most important tasks for clean water and sanitation





Securing enough drinking water



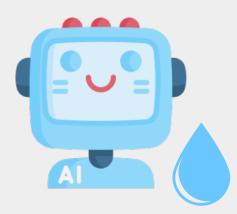
Preventing water pollution



Water utilization
agreement
among neighboring countries



Improving sanitation facilities and hygiene awareness



Smart Water management



Protecting and restoring the aquatic ecosystem





07

International efforts for clean water and sanitation

OUNICEF



1) International organizations and groups



WASH campaign **UNICEF**

Delivers safe water to disaster-stricken regions Works to improve hygiene awareness in schools and communities



1) International organizations and groups



Reinvent the Toilet Challenge

Bill & Melinda Gates Foundation

Reinvent the Toilet Challenge is a project to create a new toilet that requires no without electricity, no sewage system, and very little water.



2) Campaigns









3) Various ideas





Immediate & safe drinking water!

LifeStraw

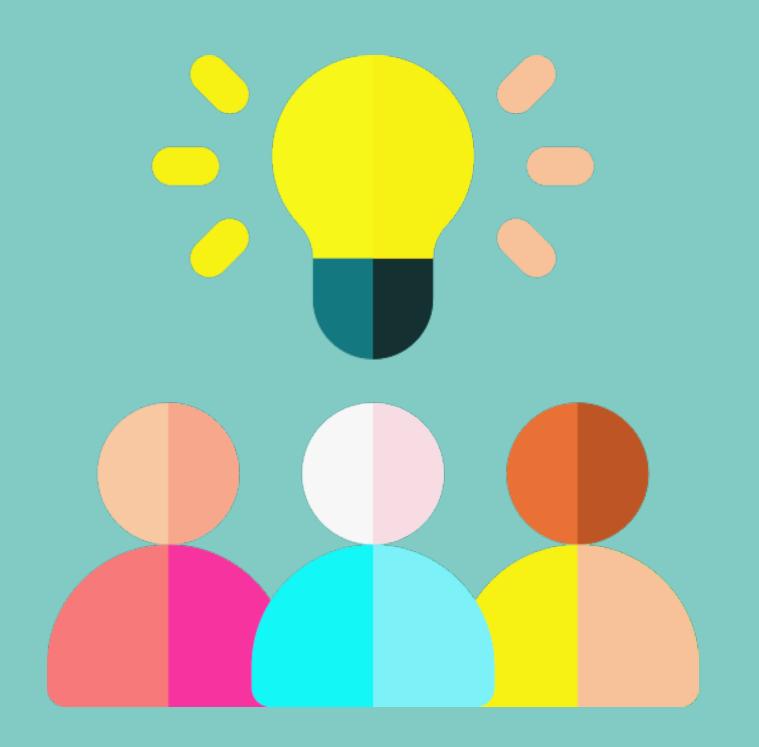
Rollover water container!

Q-Drum



3) Various ideas





08

A brainstorming session

Let's review what we learned today and think together!



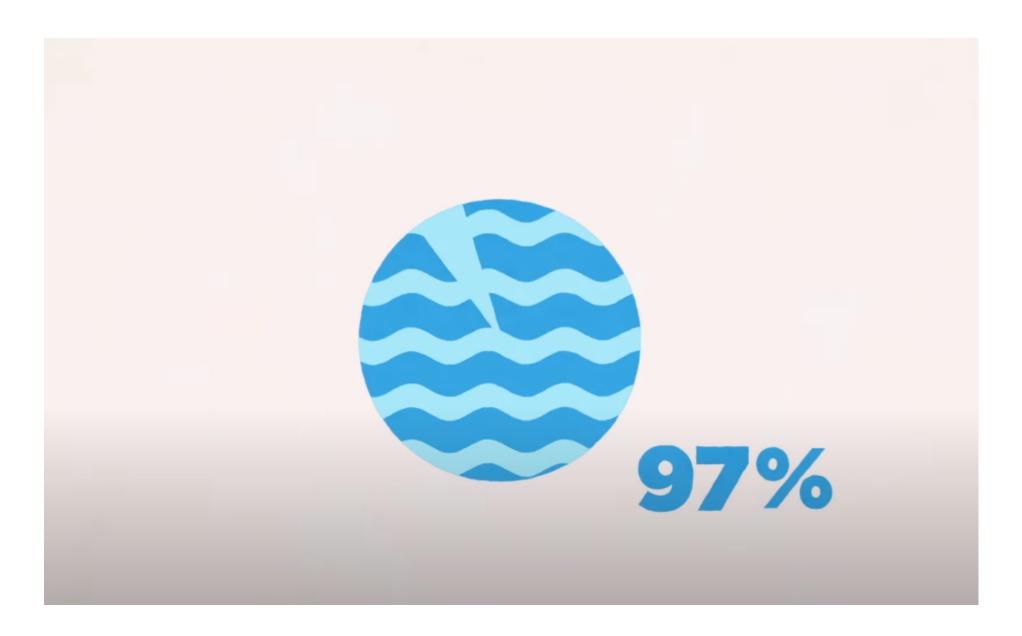


What can we do to help provide clean water and sanitation for everyone?





Are we running out of clean water?



https://youtu.be/OCzYdNSJF-k



THANK YOU