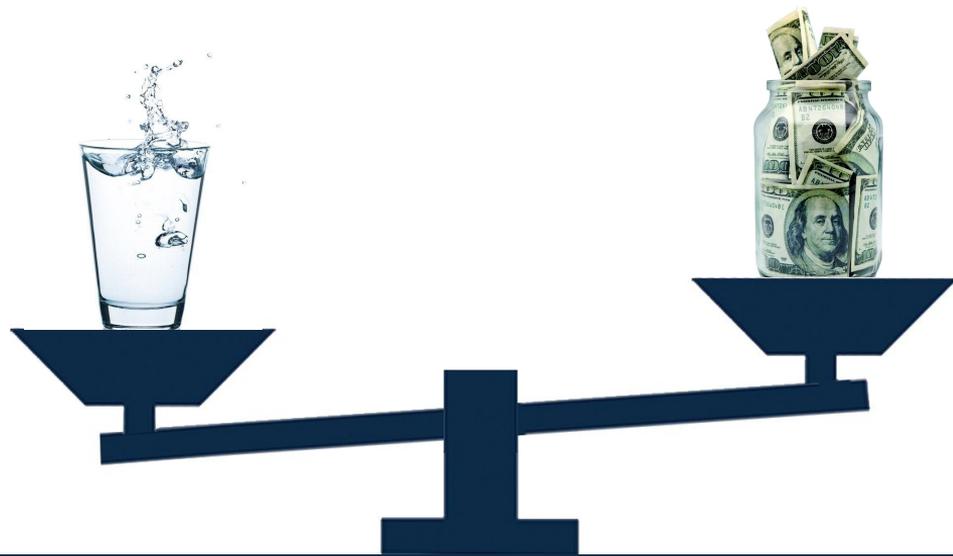




ТҮМЭН АМГАЛАН ОРДОН ХХК  
[www.tao.mn](http://www.tao.mn)

# REUSE OF WASTEWATER

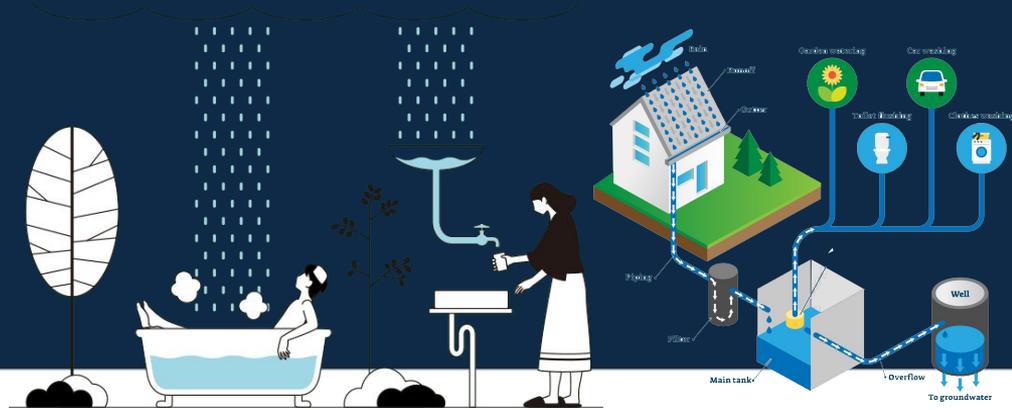




IN MONGOLIA



IN JAPAN



# TOP CHALLENGES

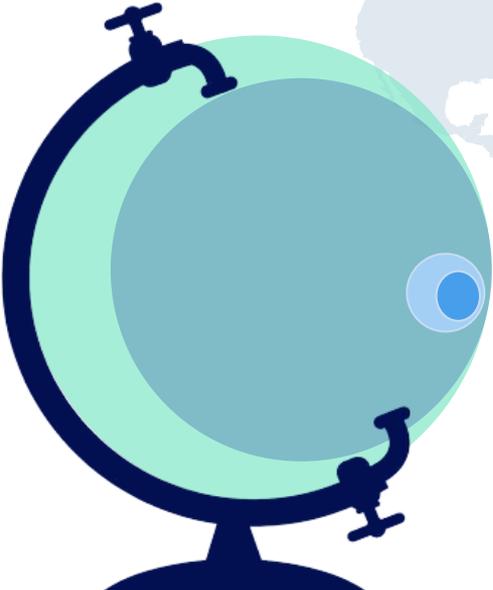


**1 in 5 children**  
faces a daily struggle to  
access clean water

Mongolia, by  
2030, **43%**

of the total water  
supply is projected to  
become unavailable.

Source: Britannica World Encyclopedia



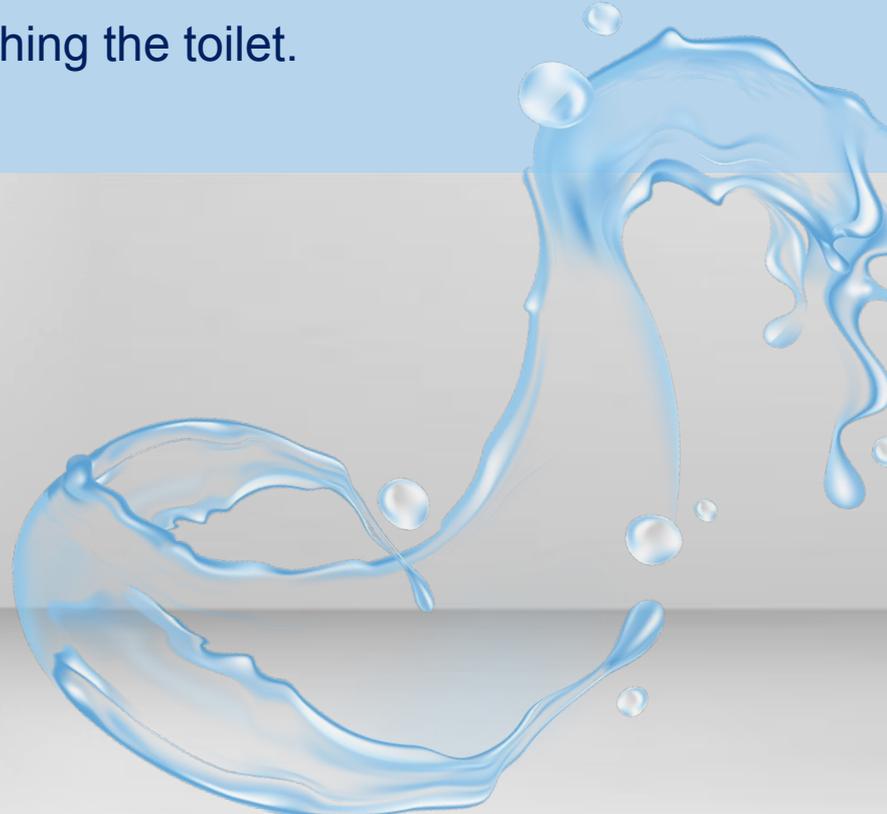
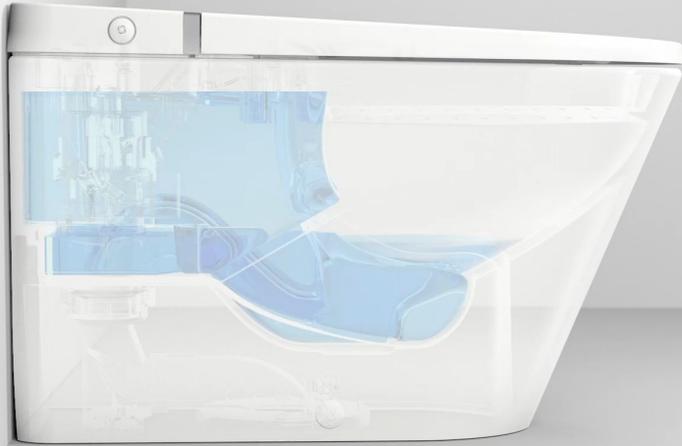
## Global Water Information

- Water covers 71% of the Earth's surface.
- yet only 2.5% of it is freshwater.
- Of that freshwater, just **1%** is accessible for human use.



# PAIN POINT

An individual uses an average of **34.4 liters of water** per day solely for flushing the toilet.



# Possibility of Using Treated Wastewater for Household Purposes

**House: 1078+**



Single, Twin, Town house 1500 families  
4 312 people  
54 141m<sup>3</sup> of water

**Apartment: 4177+**



261 828 families  
1 047 312 people  
13 150 049m<sup>3</sup> of water



Number of households using smart toilets in Ulaanbaatar



The legal framework is relatively secured.



Public demand is growing.



However, the market lacks sufficient supply of wastewater treatment system.



**15% Reduction in Household Clean Water Consumption in**

**Mongolia**

**Annual Savings**

**Water: 13 million tons**

**CO2: 470,000 tons**



# PRIMARY IMPLEMENTOR



6+

Building industry projects



80+

Building energy audit



250+

Construction design

## TEAM LEADER



KHANGAISAIKHAN.N

Founder and director  
Consulting engineer,  
Building energy auditor,  
Specialized in Business administration

## PROJECT MANAGER



KHANGAITSETSEG.N

Specialized in Project  
management

## FOREIGN RELATIONS MANAGER



ENKHTUGS.M

Specialized in International  
relations & Business  
administration

## TECHNICAL EXPERT



MUNKHBAYAR.B

Consulting engineer  
Building energy auditor

## SENIOR SUPERVISING ENGINEER



TSATSRAL.TS

Consulting engineer (WSS)  
Water Resources Management and  
Industrial Wastewater Treatment  
Specialist

## SENIOR CONSTRUCTION ENGINEER



ENKHBAYAR.TS

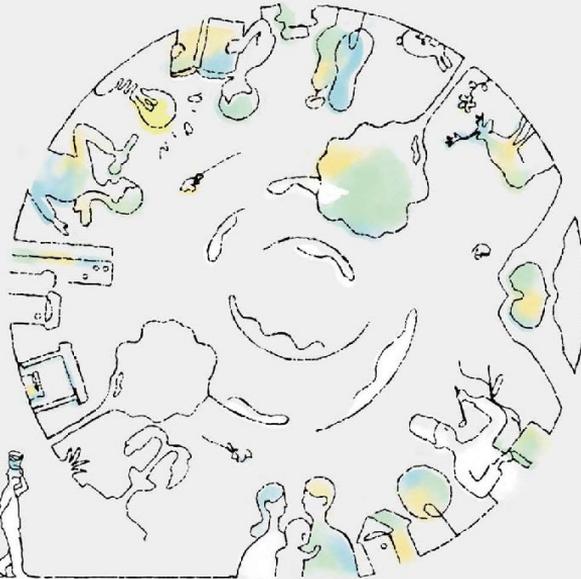
Professional engineer (WSS)  
Specialized in Wastewater reuse



# CO-IMPLEMENTOR



Innovation for Water Sustainability



## TECHNOLOGICAL PARTNER-FUSO



**SHIMIJIMA CHIHIRO**

Project Manager  
Business Development Division  
International Marketing  
Department  
FUSO Corporation

## MONITOR AND CONTROL SYSTEM PARTNER



**BEGZSUREN.T**

Head of "CreatiVISION start-up"  
under National University of  
Mongolia  
Associate professor



**FIRST OFFICIAL MEETING**  
FUSO CORPORATION'S  
OFFICE, TOKYO, JAPAN |  
2024.08.08

**EXPERIMENT IN COOL  
ZONES**  
NEW YORK CITY, USA, FUSO  
& ORENCO | 2024.11.14



Organization : Global marketing



Yoshimitsu Lion Aikawa  
Director

Marketing division of FUSO Corpora



Chihiro Shimojima  
Project manager

**SIGNING OF MOU**  
FUSO CORPORATION'S  
OFFICE, TOKYO, JAPAN |  
2024.12.10

**DISTRIBUTORSHIP AGREEMENT**  
TAO LLC, ULAANBAATAR, MONGOLIA | Q3, 2025



# LEGAL ENVIRONMENT OF WATER REUSE IN MONGOLIA

Type of building	Type of water reused		Usefulness				Source
	Treated greywater	Treated wastewater	Toilet seat	Trees, lawn, ground	Carwash	Coal washing, concrete production, thermal power station, waste recycling, road dust control, and firefighting	
House	<input checked="" type="checkbox"/>		MNS 6734:2018 MNS 8525:2015				
Apartment	<input checked="" type="checkbox"/>						
School	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<b>Kindergarten</b>							
Hospital							
Office, commercial, service	<input checked="" type="checkbox"/>						
Hotel	<input checked="" type="checkbox"/>						
Mining industrial building	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Other industrial buildings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	



# WHAT WE OFFER

INDICATOR	DESCRIPTION AND CAPACITY
Type of treated water	Grey water + Black water
Water treatment technology	Bacteria; Filter membrane
Daily capacity of treatment	2 tons – 954 tons
Maintenance	Sludge suction in the 8th-12th year
	Inspection and removal of sludge at least once a year
	Inspection of washing part once a year
Operational life	20-30 years
Price	189 million mnt – 630 million mnt

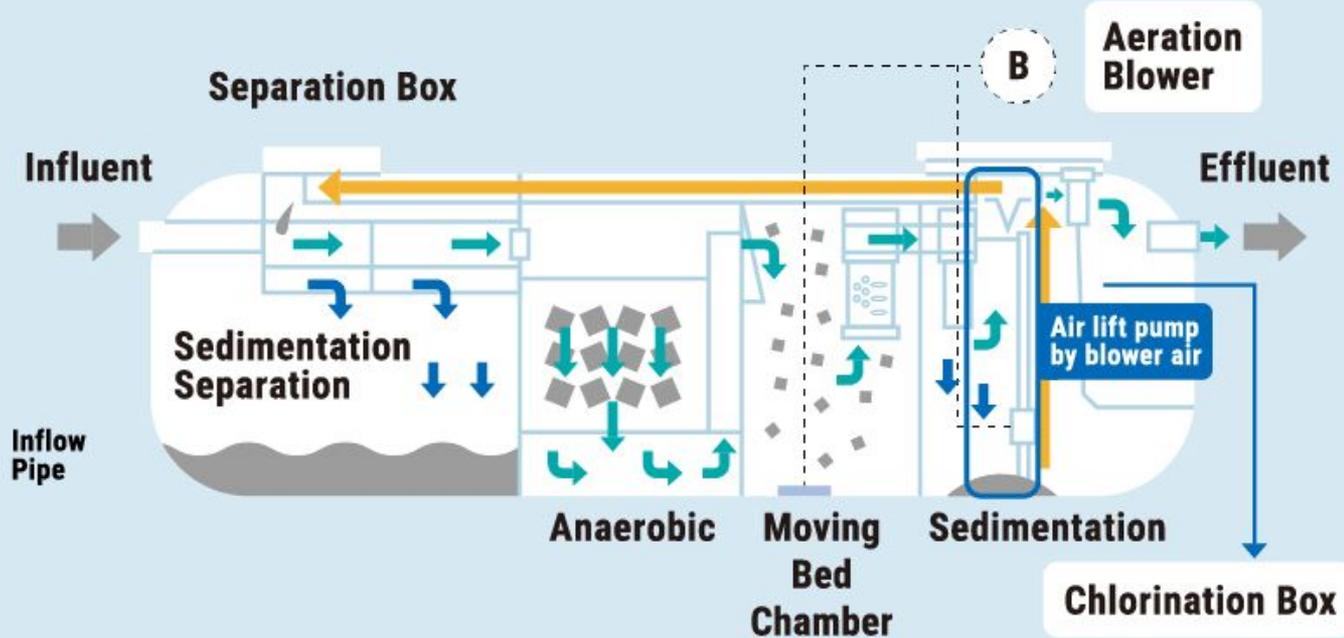


# EXPERIMENTAL SYSTEM

297,800,000₹

The price of the system offered under the project includes the following costs:

- \*Base cost of the Johkasou wastewater treatment system and transportation cost
- \*Cost of connecting parts and accessories
- \*Installation costs
- \*Cost of control and management system



Capacity: 2000 l/day



Number of families: 10 families with 5 people



Cleaning frequency of the system: 8<sup>th</sup> -12<sup>th</sup> year



Operational lifetime: 20+ years

# ROADMAP

8月  
2024

Find a  
technological  
partner

12月  
2024

Select and  
finalize the  
system

1月  
2025

Raise fund  
for  
experiment-  
research  
investment

3月  
2025

Order the  
system

5月  
2025

Start  
experiment in  
a building

11月  
2025

Supply to the  
market, and  
sustain the  
operation

**BUDGET  
SUPPORT  
NEEDED FOR  
EXPERIMENTAL  
RESEARCH  
WORK.**

**TECHNOLOG  
Y:**

Proven, risk-free  
Japanese  
technology with  
international  
credibility.

**DEMAND:**

100% supported the use  
of gray water and 78%  
supported the use for  
toilet flush

**TO SUPPORT SUSTAINABLE  
DEVELOPMENT GOALS, WE INVITE  
YOU TO IMPLEMENT WASTEWATER  
PURIFICATION AND REUSE  
TECHNOLOGY IN YOUR HOMES,  
INSTITUTIONS, AND INDUSTRIES.**



Save Water ... Save **LIFE**

# THANK YOU FOR YOUR ATTENTION

---

TUMEN AMGALAN ORDON LLC



[www.tao.mn](http://www.tao.mn)



Suite 704, 7F, Erkhi center, Region 2, Bayangol  
district, Ulaanbaatar 16050, Mongolia



70118408, 99990495, 080-4196-9996



[trade@tao.mn](mailto:trade@tao.mn)