



Water forever
A greener world





SITUATION

More than 80% of wastewater generated by human activity is discharged into rivers and oceans without any treatment, leading to pollution. Improper disposal of wastewater can result in numerous consequences.

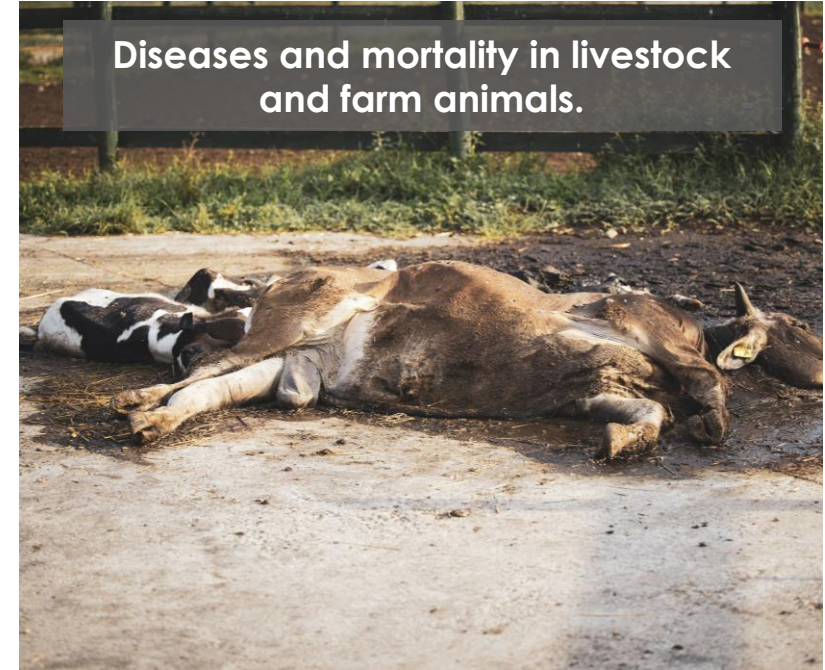
Overconsumption of water and direct discharge of untreated wastewater into the environment.



Eutrophication of aquatic environments and blue-green algae.



Diseases and mortality in livestock and farm animals.



Drought and depletion of the groundwater table.



Malnutrition, diseases, and fatalities...





CHALLENGE

Addressing United Nations Sustainable Development Goal 6, which aims to improve water quality, wastewater treatment, and safe reuse by 2030.

- Finding a wastewater **treatment** solution that is **simple**, **efficient** and **sustainable**.
- Recovering treated water for appropriate **reuse**.

PRESERVING DRINKING WATER SOURCES



**IN HARMONY
WITH THE
ENVIRONMENT**





**FOR THE HEALTH OF ALL AND
FOR FUTURE GENERATIONS**





SOLUTION

Treating Naturally

With a biological process in which aerobic and anaerobic bacteria treat wastewater in an **ECOLOGICAL, ECONOMICAL** and **SUSTAINABLE** manner, suitable for all geographical and climatic conditions!

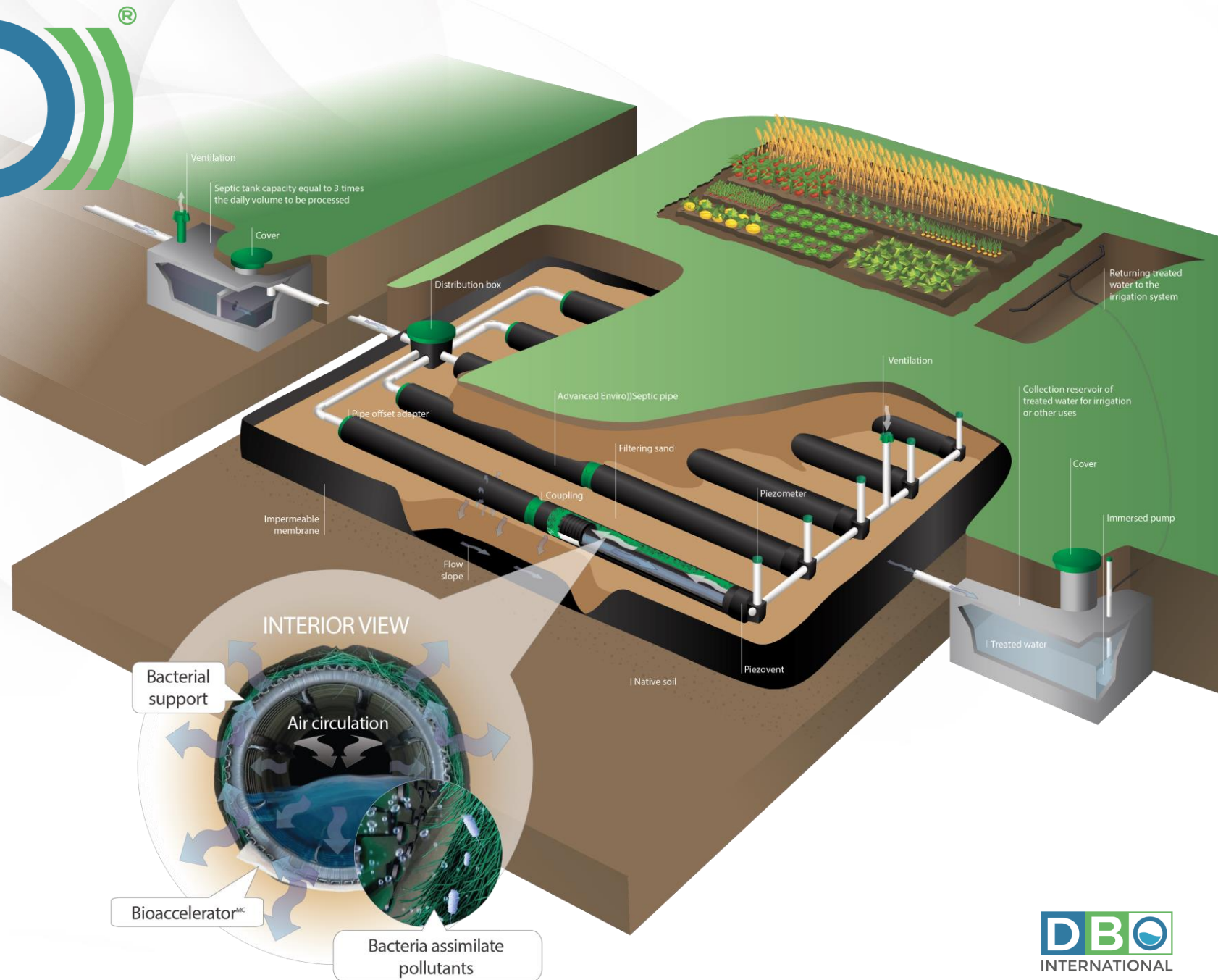
To recover these treated waters for appropriate **reuse**.

System O[®]

Allows for the **treatment and reuse** of wastewater.

Technologically optimised

- 100% biological and autonomous
- No electricity
- No moving parts
- No ongoing maintenance
- No odour
- No noise
- No chemical additives
- No waste discharge (sludge)
- No filter media replacement



Easy and quick To install

Regardless of the
Size of the project

For **isolated dwellings** or **commercial, community
and institutional** project

- Residential developments
- Base camps
- Accommodations (hotel, motel)
- Roadside stops
- Mines
- Villages
- Seasonal applications
- Agrifoods industries

MINING CAMP in Canada

- 50 m³/day, 350 employees
- Annual temperature variation of approximately 40°C
- Autonomous system, maintenance-free and sustainable



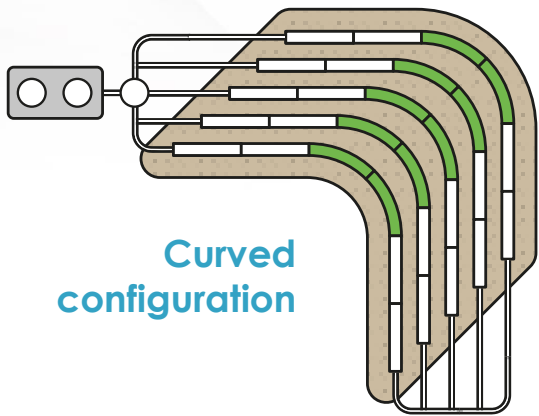
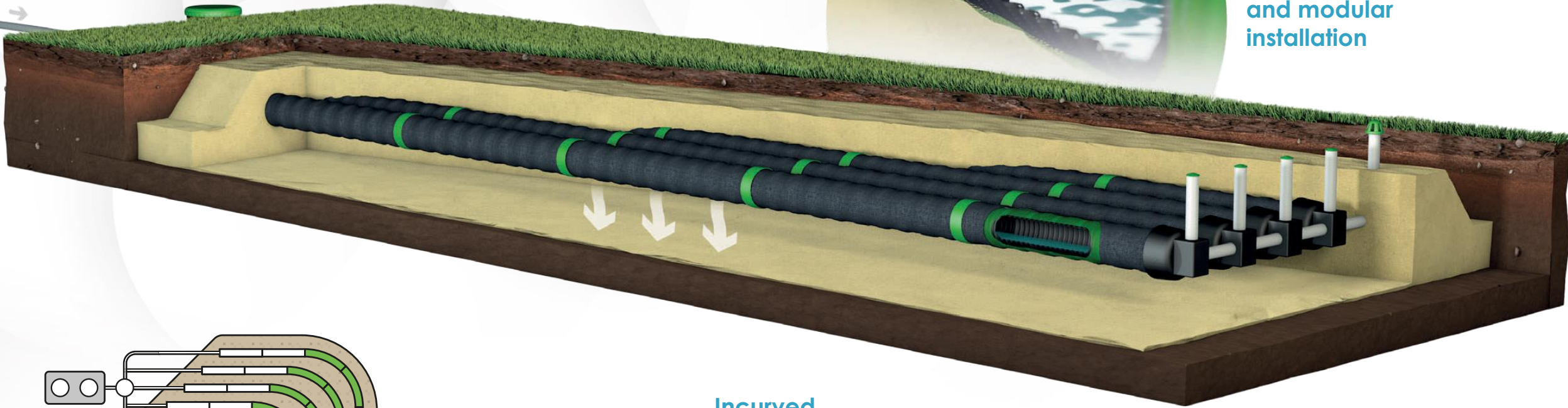
What an installation looks like

all over the world

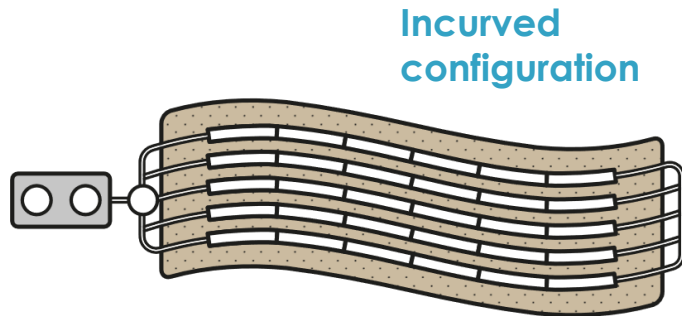


The system adapts to the environment and the available space

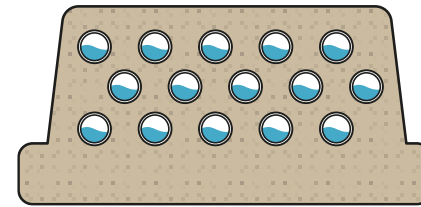
The conduct can be bent for a custom and modular installation



Curved configuration



Incurved configuration



Level configuration

Several **treatment** solutions

- Passive disinfection
- Disinfection by UV or chlorinator
- Phosphorus removal by ionization, polymerization, coagulation or passive
- Denitrification
- Multiple treatment stages
- Secondary treatment with **reusing**



Treatment results exceed established norms and standards

Some results obtained during **bench tests with different certification bodies.**



Parameters	Results (mg/l)				Standards (mg/l)				
	Stoke (18 months in Québec)	BNQ Québec (15 months)	CEBEDEAU (European Union over 15 months)	Dubai (As of 2022) Wimpey Lab.	USA (NSF-40)	Canada (BNQ 3680-910)	European Union (NE 12566-3)	Dubai UNRESTRICTED irrigation maximum	Dubai RESTRICTED irrigation maximum
Total Suspended Solids (TSS)	3,7	< 1	10,1	< 5	< 25	≤ 15	< 35	15	30
Biochemical Oxygen Demand (BOD ₅)	3,9	< 2	12,2	< 5	< 30	< 15	< 30	5	20
Chemical Oxygen Demand (COD)	17,9	N/A	62,2	40	N/A	N/A	N/A	150	200

The technology exists since **1987**.

We see systems installed more than 35 years ago that are still working, in perfect condition and treating wastewater with the same efficiency as when they were first installed.

Reusing
wastewater.
Is it possible?

Imagine an **autonomous and passive wastewater treatment plant** able to **recover its treated water for reuse.**

REUS ING





Water treated by System O)) contains the **ideal dose of nutrients** to supply a **garden or green space**.

Sunflower crops irrigated with water treated by System O)) Lima, **Peru**



Green space irrigated by a **drip system** fed by System O)).

Dubai, **United Arab Emirates**



A nice garden layout with a **water discharge into the pond.**

—
Illifaut, France



A **significant saving of drinking water** is achieved by reusing the treated water at a **car wash and restroom toilets**.

Yellel, Algeria



By combining the System O)) treatment with an **ozone generator**, treated and disinfected water can be **used again for your sinks and toilets**.

Mexico school, **Mexico**

REUSE is the future!

Do you have any
questions?



A hand holding a green plant branch with gears overlaid. The background is a soft-focus green. The gears are in shades of green and white. The text 'YOUR ALLY' is in large white letters.

YOUR ALLY



VISION

To be a world reference in the field of water in order **to improve the quality of life for all** by following **natural and ecological principles for the respect and well-being of the planet.**

MISSION

To create and implement **innovative, environmentally friendly wastewater treatment and reuse solutions** for **any situation** anywhere in the world.

Efficient solutions

In a green, cost-effective
and long-lasting way



Sampling in Peru

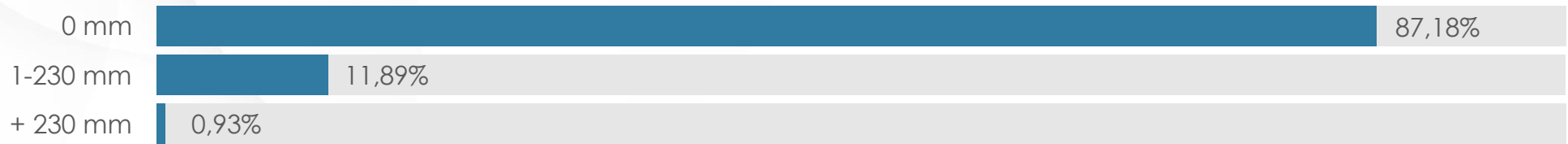
Statistics over the years

In Quebec (Canada), after more than **339 254 piezometers inspections** done during the years of 2000 to 2021, the technology behind the installations of System O)) is the best approach in terms of **durability and purification performance** on the market.

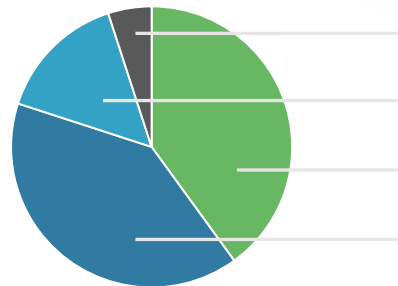
What is a piezometer? A piezometer is a tool within the septic system that allows us to evaluate the water level in each of the pipes' rows.

This graph shows that **99,07 %** of the water levels in the piezometers of all our installations, across all years inspected in 2021, showed a normal situation. A normal situation is indicated when the water level in the pipes, measured through the piezometer at the end of each row of pipes, is between 0 and 230 mm.

% piezometers inspected based on the observed water levels



Less than 1% of cases of high levels, here are the causes observed



- 5% Inadequate products, chemicals or plumbing problems.
- 15% Non-compliance with construction standards.
- 40% Too close to the water table or in clay soil.
- 40% Granular material not in accordance with the installation guide.

These results mean that the owners of these installations have had no out-of-pocket costs for repairing parts or replacing the filter media. System O)) solutions that are designed, installed and used according to the guidelines are durable ! For abnormal cases, DBO International has assisted the customer in resolving the problem at no additional cost.

The technology was tested on several bench tests awarding it these **certifications and approvals.**

System O)) solutions are approved and also have permissions from **Spain, Algeria, Morocco, Senegal, the city of Dubai, mines in Peru and several more underway.**



System O)) received the famous Solar Impulse Label in January 2024. **A certification given to the greenest and most sustainable solutions around the world.**

Canada

CAN / BNQ 3680-600 for residential wastewater treatment and disinfection
CAN / NQ 3680-910 advanced secondary treatment and disinfection in Quebec for small (0.5 m³/day) and large projects (over 2000 m³/day)

<https://www.bnq.qc.ca>

France

- **Ministerial approvals issued by the Minister of State, the Minister of Ecological Transition and Solidarity, and the Minister of Solidarity and Health:** (n°2019-008, n°2019-009) for drained and non-drained installations.
- **Technical assessment issued by the CSTB (Centre Scientifique et Technique du Bâtiment):** (n°17.1/18-333_V3)

<http://www.dboexpert-france.fr/lasociete/documentations-enviroseptic/>

United States

National Sanitation Foundation (NSF) Standard 40 Class I, Certificate #3U460-01 (09/22/09)

www.nsf.org

Europe

CE marking

Complies with NE 12566-A3

Belgium and Luxembourg

- **Belgium Benor Flanders:** Batch system 0 to 50 EH : CRT/017-KW
- **Belgium Walloon Region SPW:** (5 to 20 EH : N° 2017/12/206/A
21 to 50 EH : N°2017/12/207/A)



INNOVATION FROM ONE CONTINENT TO ANOTHER



Present in **over 25 countries**



Benoit Boucher
Président - Founder



Rodolphe Godet
Marketing VP



Cheikh Mor Mbacké
Engineer



Marc Favreau
Marketing, Draughtsman & Multimedia



Thomas Roy-Saint-Onge
Administrative / Finance Director



José-Luis Izaguirre
International Business Development Director (Americas)



Karine Dandonneau
International Business Development Director (East Atlantic)



Louis Corbeil
Candidate to the Engineering Profession



Meriem Boushaki Bestani
International & Multicultural Lawyer



What is your project?

Do you have any questions?

Summary: System O)) comprises various certified wastewater treatment solutions worldwide. Each of these solutions is optimized by 100% passive technology, requiring no electricity, maintenance, mechanical parts, or media replacement. Once installed, it's forgettable!

Regardless of the environmental conditions, we have an eco-friendly, cost-effective, and sustainable solution suitable for all geographical and climatic situations. System O)) is environmentally safe and can be installed near schools, parking lots, playgrounds, or gardens without health risks while respecting landscape aesthetics.

System O)) is applicable for underserved residences or commercial, community, and institutional projects. In addition to exceeding established purification standards, System O)) enables the recovery of treated water for appropriate reuse! This satisfies the United Nations Sustainable Development Goal 6, aiming to improve water quality, wastewater treatment, and safe reuse by 2030.



INTERNATIONAL

dbointernational.com