



**BOTANICAL
WATER**
TECHNOLOGIES

World's First Plant-Based Pure Water

wegrowwater.com

Mission

To Positively Impact People and the Planet



The opportunity to create up to **3 trillion liters** of a **new sustainable source of water harvested from plants**, which can be traded on our exchange as ingredient and impact water.

100/
25

Botanical Water Technologies to give clean drinking water to **100 million** of the world's most vulnerable people by **2025**.



The Problem

The World is Running out of Water



Every degree of global warming could reduce renewable water sources by 20%.



Women and children spend more than 200 million hours every day collecting water.



Water issues are regional and basin specific. Water supply has historically been underpriced compared to production cost.



Dirty water causes the death of a human being every 10 seconds. Over 3.5 million people die every year from water related diseases.*



Water is finite. Expected global growth will demand 30% more water consumption by 2025.

Market Drivers

Governments and Corporates are Seeking to Enhance Water Resilience & Sustainability

Over 200 global companies have joined the Water Resilience Coalition and CEO Water Mandate to achieve measurable **net water positive impacts** in water-stressed basins. Some of these initiatives include investment in Water Impact projects.

Large FMCG companies are **seeking alternative sources of ingredients** and the use of new technologies to reduce ground water reliance. Local governments are also restricting access to ground water for food and industrial companies.

ESG and sustainability disclosure and reporting **mandates** for listed and non-listed companies are rapidly taking shape. Companies operating in water intense sectors seek to support **Sustainable Development Goal 6 (Clean Water & Sanitation)** reputable and trusted programs.

In addition, **ESG pressures** are coming from **consumers**. Consumer attitudes are changing. A recent survey showed that a third of consumers choose to buy from brands they believe are doing **social** and **environmental good**.



Market Size

Supply

Locations

10,000+ sites

Total Available Market

Volume

Up to 3 trillion L

Total Available Botanical Water

Price

\$0.005 – \$0.02

Cost per Liter of Water

Collectively, there are **over 10,000 sugar mills, fruit and vegetable processors** around the globe, that create over 3 trillion liters of condensate.

Global water sources are diminishing, due to climate change and population growth.



Demand

Beverage Industry

2+ Trillion L

Annual Water Consumption

The UN is predicting that freshwater demand will exceed supply by 40% in 2030

People & Planet

3.5+ Million People

Annual Lives Lost From Water-Related Diseases

Water is the next net-zero target. Companies such as Microsoft, Facebook and Google have all pledged to replenish more water than they use in their direct operations by 2030. There are limited options for these companies to find the water to replenish.

Food and beverage manufacturers and textiles are among the top-ten water-consuming industrial or commercial industries in the US.

Some of the companies who have committed to be **water positive by 2030** include:



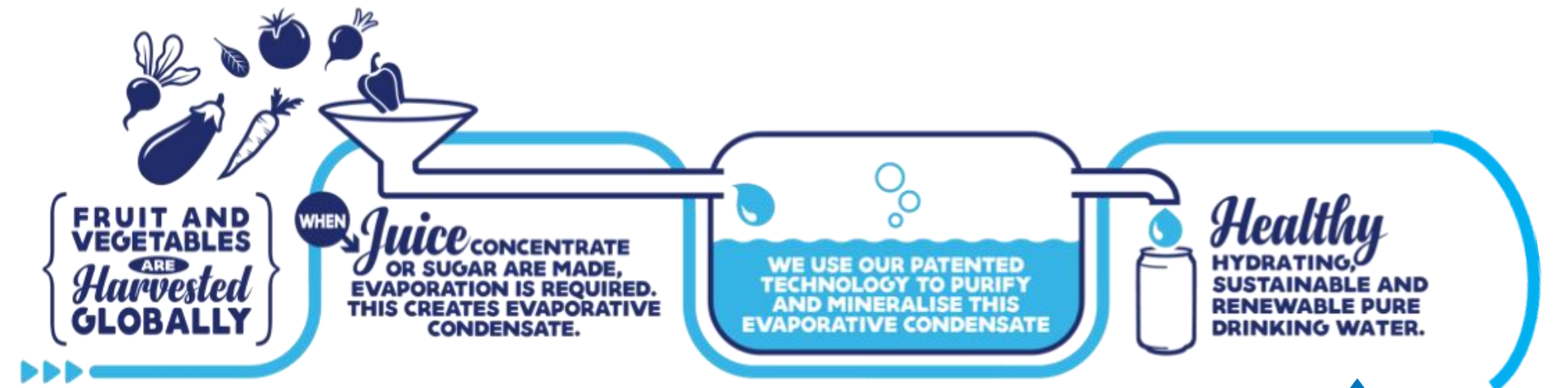
What is Botanical Water?

The World's Most Sustainable Drinking Water

When **fruit, including sugar cane** and **vegetables** are pressed to extract juice and then evaporated to make concentrate or sugar, they produce a large volume of water in parallel. Until recently, this aqueous liquid was discarded, often to **environmental detriment**.

Botanical Water Technologies harvests this water to create the **world's first plant-based pure water** - 'Botanical Water', a name reflective of its **new source**.

There is up to **3 trillion liters** of available, potable water every year that would have otherwise been discarded.



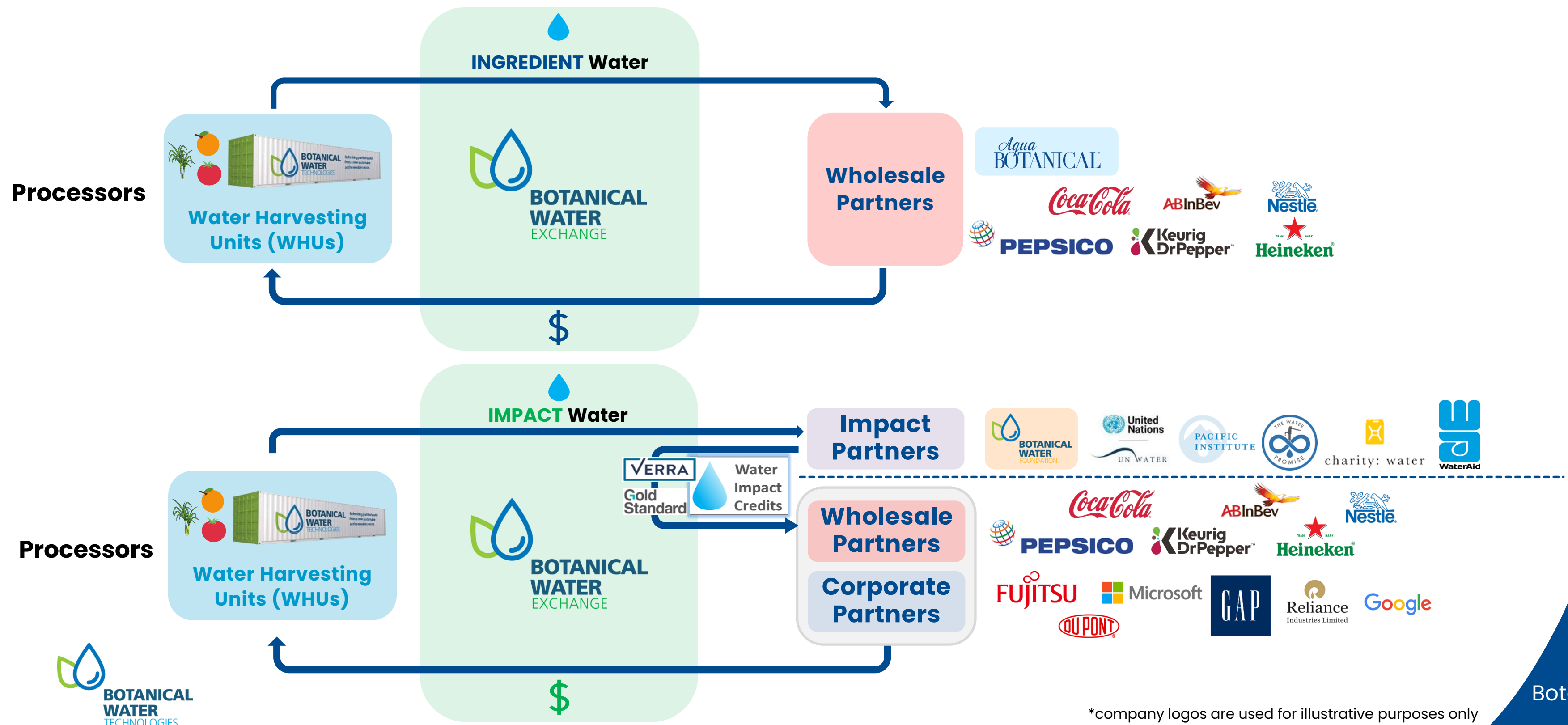
INGREDIENT
Water



IMPACT
Water

The Solution – Botanical Water Ecosystem

Harvest, Purification and Delivery of Botanical Water via a Trusted Blockchain Water Trading Platform



Botanical Water Ecosystem

Water Harvesting Units (WHUs)

Patented, **Water Harvesting Units (WHUs)**, turn any juice concentration facility, sugar mill into a sustainable potable new water source.

- WHUs are **manufactured, tested, commissioned** and **serviced**, by Engineering, Procurement and Construction (EPC) partners
- **Operating independently** to existing equipment at the processor
- A Standard WHU can harvest **~20,000 liters of botanical water per hour** running **23 hours a day (~460k liters / ~122k gallons per day)**
- **Over 170 "touch points"** providing live monitoring and adjustments
- **100% non-invasive** to existing equipment
- **Low power consumption**
- Creating a **circular water economy**



Botanical Water Process

Water Harvesting Units (WHUs)

The containerised Water Harvesting Unit (WHU) innovation process operates within a 40FT shipping container and operates at fruit, vegetable, sugar cane and alcohol processing facilities. The WHU receives condensate water from evaporators which are used in the process of creating concentrated foods from plant-based products. The evaporators are typically used to concentrate sugar cane to sugar or fruit to a concentrated juice or tomatoes to tomato sauce.

Within the containerised WHU, the incoming condensate is first filtered through bag filters, prior to passing through carbon filtration for primary organics (colour and odour) removal. These carbon filters are automatically back flushed when required to resettle the carbon. The filtered water is then passed through a multistage membrane plant to remove the remaining organics and mineral components in the condensate.

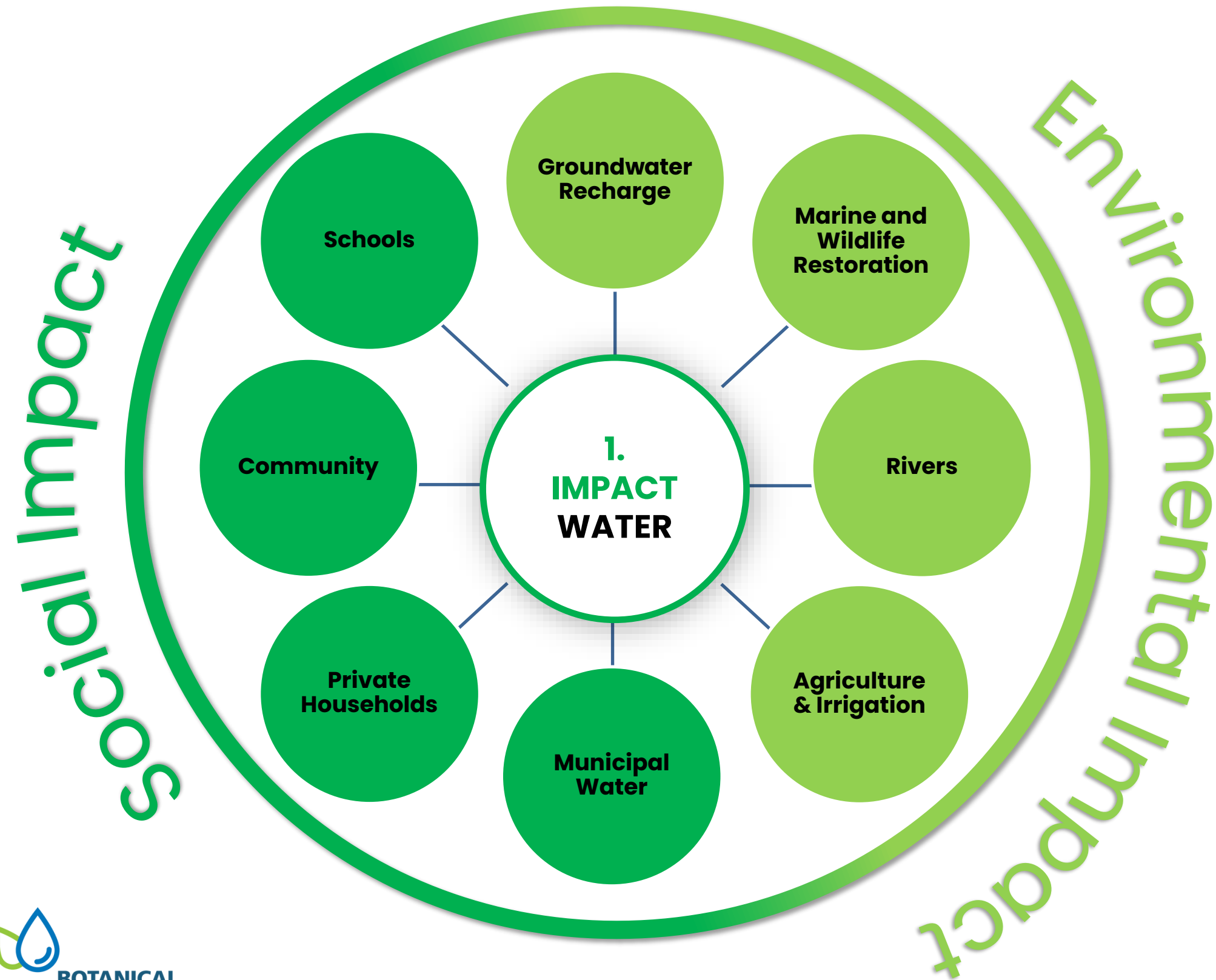
The plant operates with pre-set pressure and flow rates set points to suit the installed membrane types. The rejection rate of the water is adjusted with control valves to a flow rate set point. These set points can be adjusted to ensure the treated water composition meets the required water standards composition. The final treated water has inline monitoring for various contaminants and specifications, such as chlorine, conductivity, and ph. The final water is pumped into a water silo for storage, prior to transport.

The plant is fully automated, with a graphical human-machine interface (HMI) screen, designed to show all components including all valves and pumps. The automation is built to operate in several selectable modes including standby, production, QC, CIP (1 or 2 stage cleaning), and hibernation. The plant is designed to operate without assistance, with alarms triggered if there is a fault.

The plant has an internal clean-in-place (CIP) tank which is automatically filled with membrane filtered water, dosed with the required CIP or hibernation chemicals, and then passed through an automated CIP cycle.

Botanical Water Process

3 Main Uses for Potable Plant-Based Water



Botanical Water Process

Benefit of using Botanical Water for Impact Projects

- Botanical Water is potable grade and can be safely reinjected, used for other environmental natural projects, consumed by humans, and used for WASH projects (Water, Sanitation, and Hygiene).
- Water Harvesting Units (WHUs) harvest and purify a plant-based condensate onsite at the food processor, so a safe water supply can be delivered. Processing water on-site reduces the amount of capital and complexity of infrastructure required for Impact Projects.
- The BWX enables corporate entities to identify and align their Corporate Social or ESG giving program with listed Impact Projects in specific regions, globally. The exchange provides Water Partners the ability to showcase and market their programs and attract corporate support.
- The production, allocation, and use of water is blockchain verified, providing transparency and accuracy for corporate reporting purposes.
- Impact Projects generate Volumetric Water Benefits, as described in the Volumetric Water Benefit Accounting (VWBA) Method.¹

The Volumetric Water Benefit Accounting (VWBA)¹ of BWT projects is based on the volume of water treated and provided for beneficial use.

¹ Reig, Paul, W. Larson, S. Vionnet and J. Bayart, 2019. *Volumetric Water Benefit Accounting (VWBA): A Method for Implementing and Valuing Water Stewardship Activities*. Working Paper. Washington, DC: World Resources Institute.

Botanical Water Process

Linkage to Sustainable Development Goals

BWT Impact Projects support Sustainable Development Goal 6 for Water (SDG6), related to four key targets:

6.1 Universal and equitable access to drinking water:

Where needed, water is provided to local communities that lack access to safe drinking water.

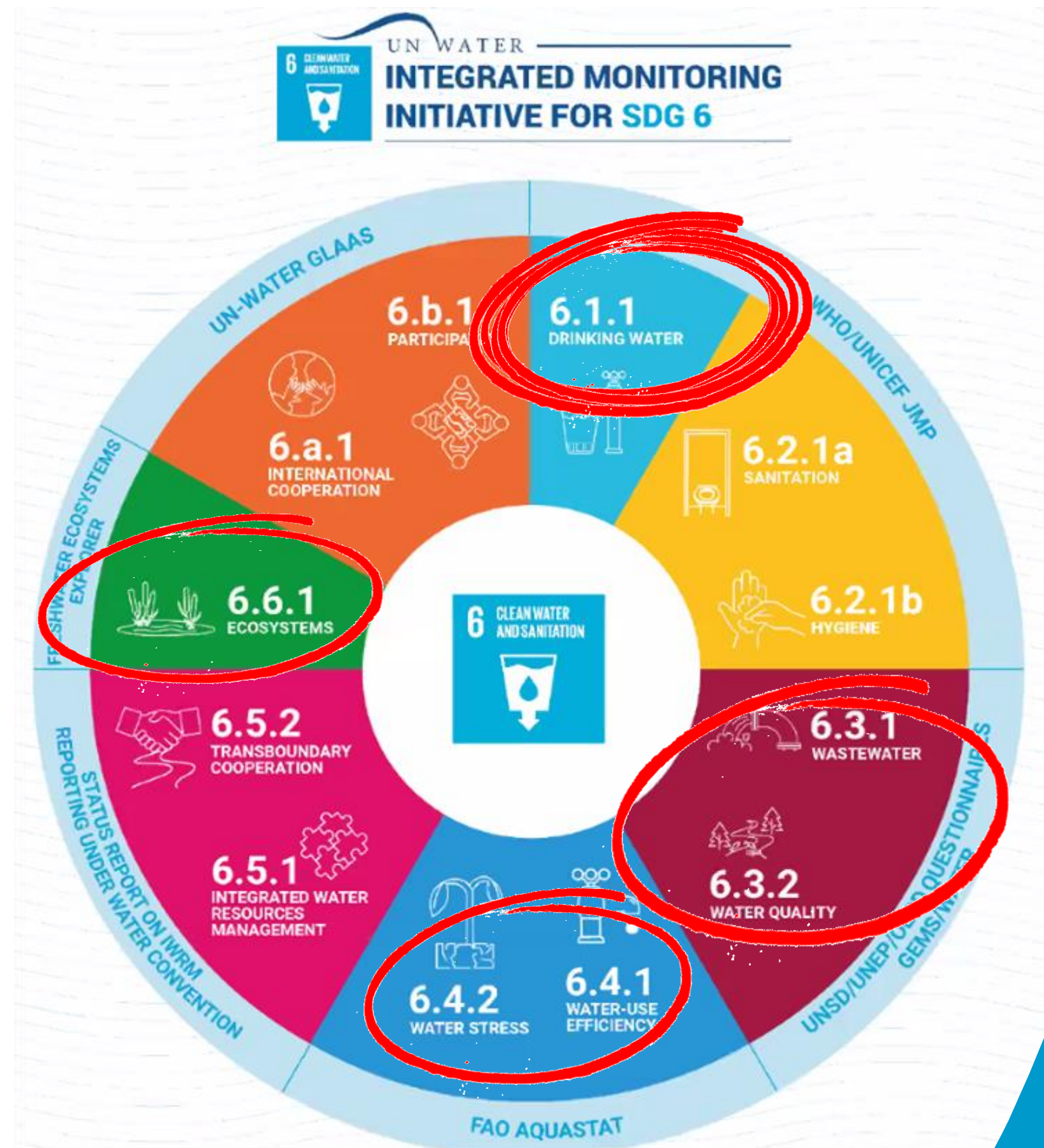
6.3 Water quality and pollution prevention: Condensate water that was previously untreated and discharged to the environment is no longer having an adverse impact on water quality.

6.4 Water use efficiency and sustainable withdrawals:

BWT optimizes water use at food processing facilities through recycling and reuse.

6.6 Protected and restored water-related ecosystems:

Impact Projects that restore wetlands and other important water related areas provide enhanced habitat and biodiversity benefits.



Botanical Water Projects

Ingomar Packing Co, California, USA

- Ingomar Packing Co, is the second largest tomato processor in California.
- Botanical Water Technologies will be processing botanical water at Ingomar's facility in California (USA second largest manufacturer of tomato) from July 2022
- ~50 million litres of botanical water will be produced for several purposes.
- Water will be provided for social, and environmental programs in Merced, Fresno, Stanislaus and Madera Counties.
- Reduce Ingomar's drawdown on municipal and groundwater sources as they use a portion of the water harvested for production purposes.
- Provide water to Food & Beverage Manufacturers and Industry within the Merced and Neighbouring Counties.



Botanical Water Ecosystem

Patent Protection

Plant-Based Patents

Uses juices or condensates directly and size exclusion technology, in order to prepare drinking water and other plant-based drinks.

Recovering Water Patents

Size exclusion filtration followed by removal of aromatics. Covers fruit, vegetables, plant-based juices. Involves juices prepared by crushing and then concentrated using any type of evaporator to produce condensate.



Utility Patents

Teaches on redeeming potable or drinkable water using technology directly to concentrate juices, on evaporation condensate, on freeze separated liquid removed from juices and distillery spent wash.

Isotopic-Based Patents

Removal of water from a multi-effect evaporator. It uses size exclusion technology and removal of aromatics. It teaches the production of isotope-rich or dense water from any liquid source, including plants, fruit and vegetables.

Botanical Water Foundation (BWF)

Gifting Botanical Water and Positively Impacting People and our Planet for Social and Environmental Projects

With a separate board and operating at arms-length, BWF exists to use the water gifted from BWX and AquaBotanical business units, to provide botanical water to people who need it most.



A minimum of 1% of every transaction traded on the Botanical Water Exchange (BWX) will be donated to the BWF. The proceeds will be used to gift botanical water to community and environmental projects at no cost via our trusted water impact partners.



1% of every sale of AquaBotanical will be donated to the BWF. The proceeds will be used to gift botanical water to communities and environmental projects at no cost via our trusted water impact partners.



Press



Botanical Water Technologies

Track and Trust service uses blockchain to ensure end-to-end transparency and traceability of processes

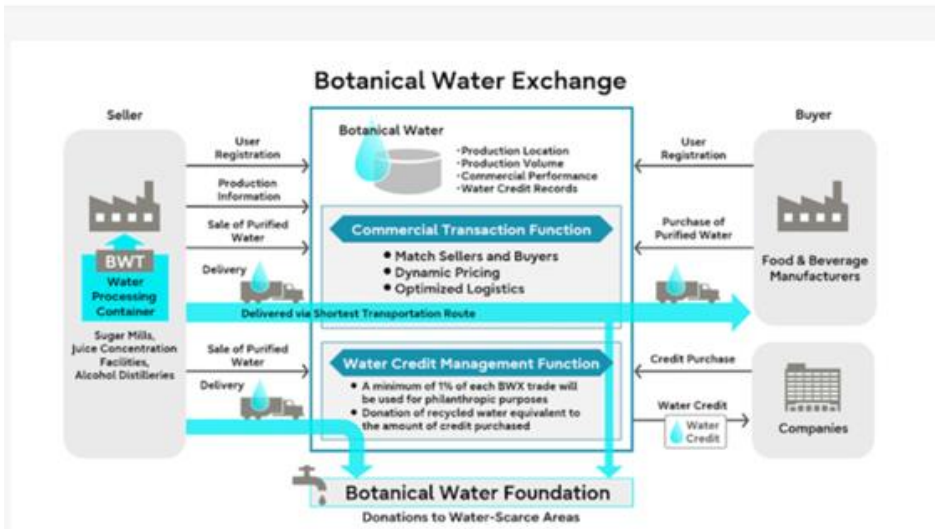
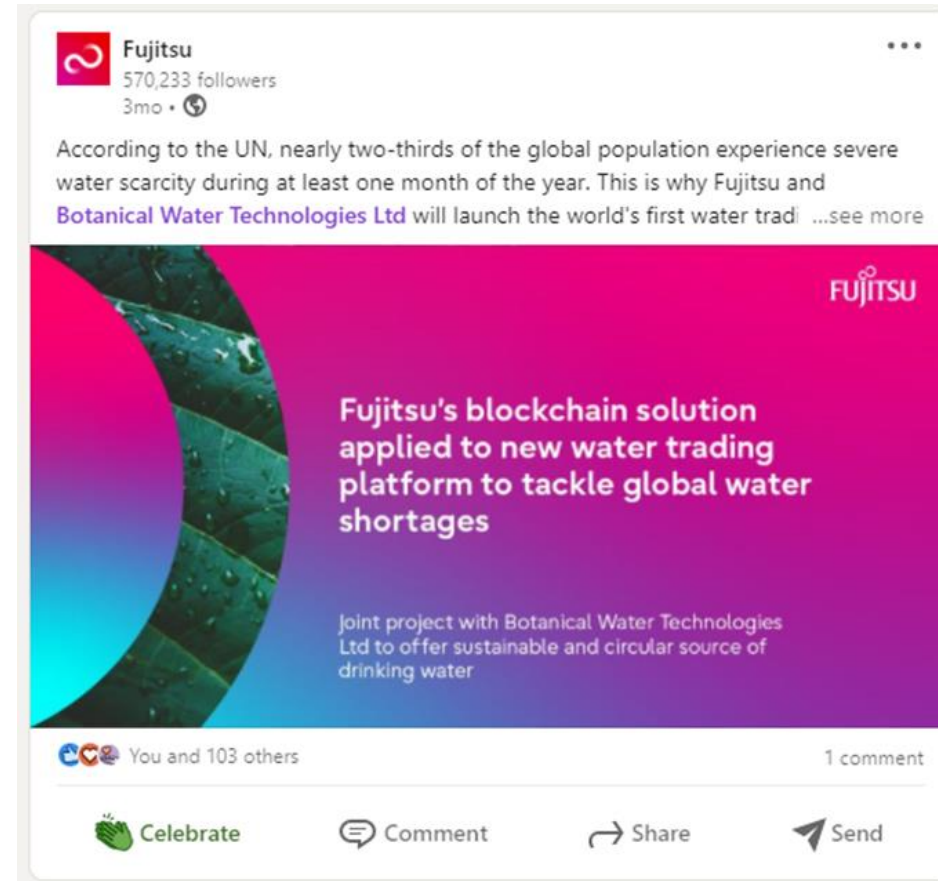
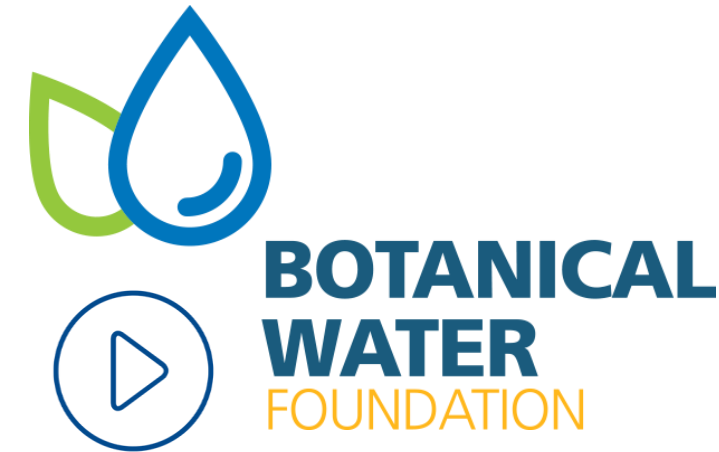


Photo: Fujitsu

Tech
Fujitsu's blockchain solution applied to water trading platform to tackle global water shortages



Fujitsu
 TOKYO
 The \$32 billion (12-month sales) telecommunications and computer hardware company runs a blockchain innovation lab in Brussels with more than 40 clients— from a rice-trading startup to giant brewer Anheuser-Busch. The companies use the lab to test fresh ideas, backed by Fujitsu's technical expertise. In November, for example, water purification firm Botanical Water Technologies started building a trading platform using Fujitsu's in-house distributed ledger technology, which will allow sugar mills, distilleries and cola makers to sell or reuse the water they would normally discard during production. The platform, launching in April, will trace the water as it's purified, sold and delivered, and give companies the option to donate a portion of their purified water to water-scarce communities.



Fujitsu's Blockchain Solution Applied to New Water Trading Platform to Tackle Global Water Shortages

Fujitsu

Impact Investor Terry Paule says New Water Source AquaBotanical Could Change the World

New Theory Magazine

Botanical Water Technologies to give clean drinking water to 100 million of the world's most vulnerable people by 2025

Newsires