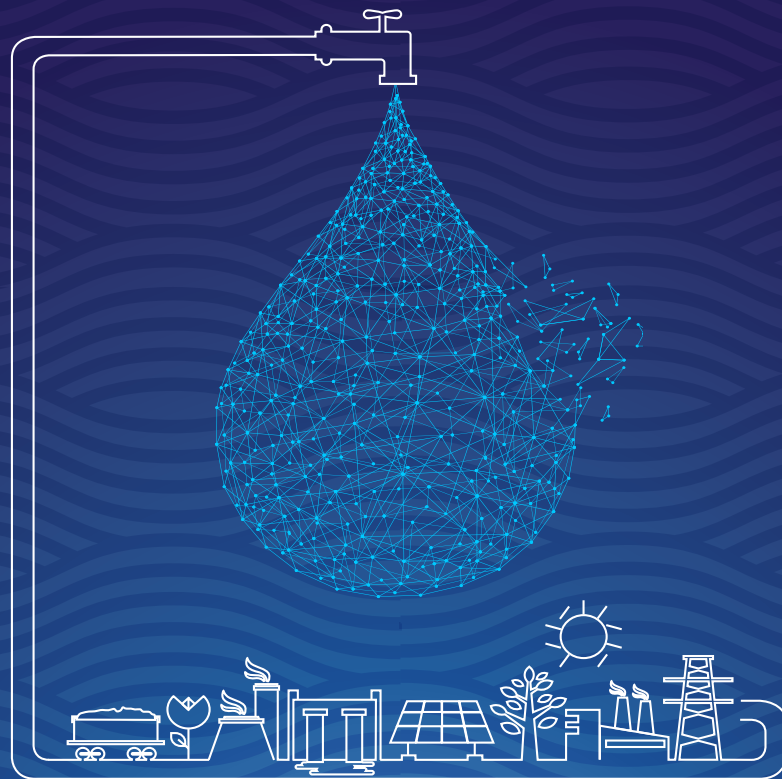


# WATER EMERGENCY @ IL

8-9.12.2021



VIRTUAL  
EXPO

In sponsorship with:



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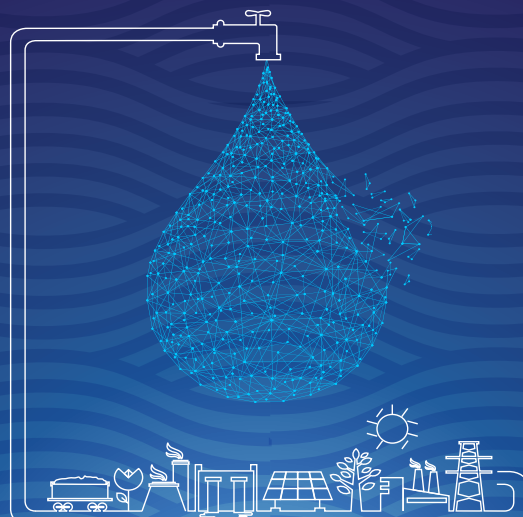
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ISRAEL EXPORT INSTITUTE

# THE ISRAEL EXPORT & INTERNATIONAL COOPERATION INSTITUTE

The Israel Export and International Cooperation Institute is your premier gateway for doing business with Israeli companies. Established and funded by the government and the private sector, IEICI's expertise in technology and product scouting, joint ventures and strategic alliances with Israeli companies span more than half a century. Whatever your field is, IEICI offers access to relevant businesses and government resources. With expertise in Israel's leading industries, IEICI will provide the information you need to connect, negotiate and do business.

IEICI is your strategic partner to Israeli business opportunities, from formal delegations and international conferences to private one-on-one meetings. We match Israeli opportunities to your needs so you can make the most of what the market has to offer.

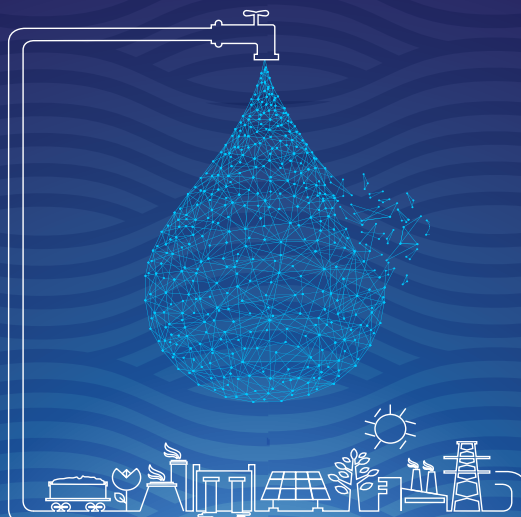
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Ministry of Economy and Industry  
Foreign Trade Administration

# THE FOREIGN TRADE ADMINISTRATION AT THE ISRAELI MINISTRY OF ECONOMY AND INDUSTRY

The Foreign Trade Administration at the Ministry of Economy and Industry is responsible for managing and directing the international trade policy of the State of Israel.

The Administration's main fields of activity include promoting trade and exports, initiating and maintaining trade agreements, attracting and facilitating foreign investments and initiating strategic cooperation with foreign companies.

Together with the Administration's team in Israel, we operate a network of more than 45 economic and trade offices around the world, which serve as the operational arm of the Ministry in the global markets.

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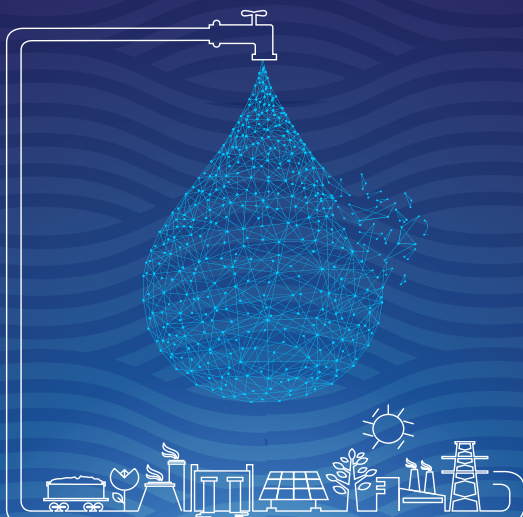
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## Satellite-Based Infrastructure Intelligence.

### Company Profile

Since 2016, ASTERRA's Recover has saved more than 27 billion liters of potable water and 22,000 MWH of energy per year, supporting United Nations Sustainable Development Goals (S.D.G.). ASTERRA is headquartered in Israel with offices in the United States and the United Kingdom. Their innovative data solutions are used in multiple verticals around the globe.

### Product Description

By analyzing S.A.R. imagery, ASTERRA collects hard, actionable soil moisture data, which it puts in the hands of ground crews, planners, and engineers. Since its inception, ASTERRA has expanded its product line from "Recover" for water leak detection to include "Masterplan" for long-term water infrastructure planning and "Earthworks" for ground engineering intelligence across multiple verticals.



1

#### Satellite Spectral Image Acquisition

Raw images of the area taken by a SAR operating in the L-band are acquired.



2

#### Radiometric Corrections

Utilis takes the raw data and prepares it for analysis, by filtering bounces from buildings and other manmade objects, vegetation hydrologic objects, and more.



3

#### Algorithmic Analysis

Using Utilis advanced algorithmic analysis to track the spectral "signature" of drinking water in the ground.



4

#### Web based app and intuitive UI

Leaks are displayed in user friendly GIS reports, within a less than 100 meters buffer.





# AYYEKA

Ayyeka

[www.ayyeka.com](http://www.ayyeka.com)



Ayyeka revolutionizes the digital transformation of critical infrastructure by embedding Artificial Intelligence into field assets.

## Company Profile

Ayyeka's comprehensive solution is the only tool necessary to bring hard infrastructure to a new digital era. The triple threat of aging infrastructure, increased operational stress, and extensive compliance reporting challenges the water industry.

Ayyeka provides an end-to-end solution with the hardware, software, and machine learning intelligence needed to create resilience in any infrastructure or critical utility.

## Product Description

Ayyeka's Wavelet edge device and Field Assets Intelligence (FAI) software platform can convert aging infrastructure into a smart network. The Wavelet is a plug-and-play, cyber-secure wireless device that easily integrates with any sensor to autonomously generate data associated with operational and environmental parameters – flow, water quality, pressure, open/close status, rain, etc.

Through the FAI platform the Wavelet transmits data on a regular interval to any software system including SCADA, ESRI GIS or hydraulic models.





Optimizing organization's processes and performance to reduce risk and enhance outcomes.

## Company Profile

Be Strategic Solutions (established in 2018), is a simulation software provider based in Tel Aviv, Israel offering BeST – a web-based application born from the universal need for a solution that could improve the effectiveness and efficiency of organizations' plans, procedures, and practices in order to strengthen decision-making processes to drive optimal performance.

## Product Description

BeST is a simulation software that enables organizations to identify risks and threats to multiple contingencies and to develop and/or refine processes and practices to drive optimal performance. Accessible anywhere in the world with internet connectivity, the BeST simulation software is a unique training tool that provides unmatched analytics with unprecedented insights into organizations' plans, processes, and practices.







EZPack provides water solutions for emergency and disaster situations.

## Company Profile

EZPack® provides unique proprietary solutions for emergency water situations which includes:

- OFF-GRID water solutions: EZCond™ -proprietary atmospheric water generator (AWG); EZPuro™ - compact robotic water purification and desalination system; Thermoflex™ - hybrid water heating system.
- Water storage, transportation and distribution solutions based on our proprietary 2-layers bladders technology.

## Product Description

EZCond™ -proprietary atmospheric water generator (AWG);

EZPuro™ - compact robotic water purification and desalination system;

HipoKit - kit to convert flat-bed truck to 6,000-28,000 liter tanger.

FlexCon - kit to convert standard 20' container to a 24,000-liter tanker.

Spider - fast deployment mobile water unit.

Lagoon - water storage solutions for pickups and 4WD vehicle.

JerrFlex - flexible water jerry-can (10-20 liter).





Innovative emergency solutions for water & Sanitation at emergency.

## Company Profile

FARO by TAAVURA group honored to present a new range of population relief in crisis area. Our solutions aimed to solved some of the most sever issues in those situations: Water, Sanitation, Structures and food.

## Product Description

The proposed solutions were adopted by the State of Israel as an emergency response for the residents of the State of Israel as well as as part of the State of Israel's international assistance program and been used in the Bahamas AID delegation (September 2019).





The leader in decentralized water and wastewater treatment solutions.

## Company Profile

Fluence is dedicated to helping businesses and communities maximize their water resources through smart, effective, sustainable treatment technologies, including Aspiral™, NIROBOX™ and SUBRE. Headquartered in New York with offices around the world, including an R&D office in Israel, Fluence has experience operating in 70 countries worldwide and is listed on the Australian Stock Exchange (ASX:FLC).

## Product Description

Fluence specializes in plug-and-play, decentralized water and wastewater treatment technology. Wastewater treatment products include Aspiral™ (packaged wastewater treatment), SUBRE (WWTP upgrades), and Nitro (shortcut nitrogen removal), all using Fluence's patented MABR technology. In the water treatment space, Fluence offers NIROBOX™ (packaged water treatment), NIROFLEX (custom desalination solutions), and mobile water treatment units that can be quickly delivered and set up within 20 minutes to treat any water source. Fluence technologies are highly effective, energy efficient, and remotely operated.





**GALMOBILE is the Mobile Water Purification and Desalination Vehicle.**

## Company Profile

GALMOBILE Ltd. are a technology development company based in Israel. The company is backed by twenty-seven years of experience, since 1995, in supplying water treatment & wastewater solutions for Industry, Agriculture and Drinking water.

## Product Description

GALMOBILE is a mobile water purification and desalination system, combining all elements required to provide drinking water anywhere, under any conditions. The system connects to any possible water source (rivers, lakes, oceans, brackish water, wells, highly turbid water) and produces high-quality drinking water, per WHO standards. GALMOBILE has a variety of uses: Emergency Situations, Remote Communities and Military. The system is completely self-sufficient, independent, and automatic, with a high level of transferability. It is extremely lightweight; its small dimensions make it easy to store, carry and ship.





An innovative digital solution to support improved wastewater quality, efficiency of utilities, environmental health and sustainable ways of life.

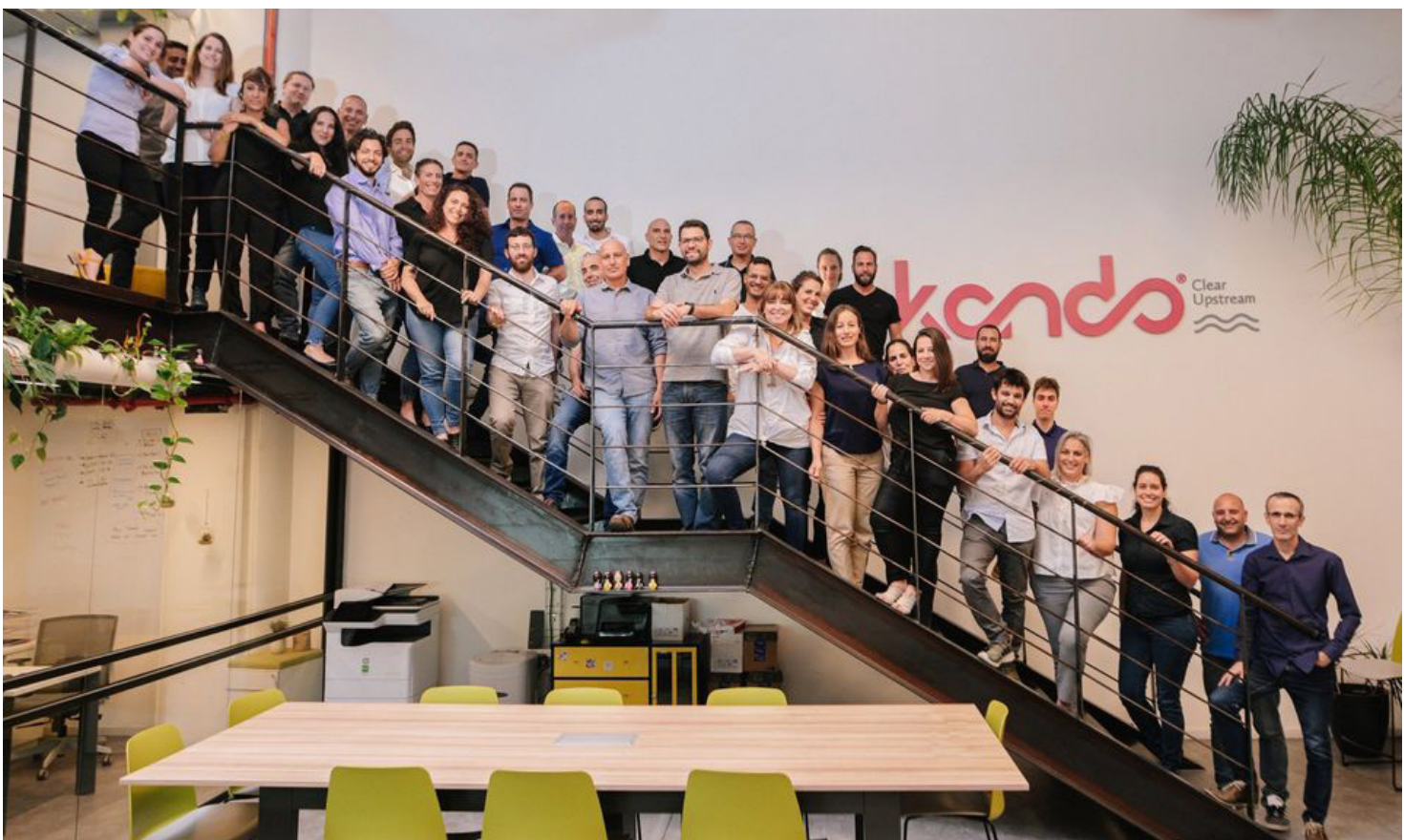
## Company Profile

Kando's breakthrough solution was developed in the south of Israel, an area known for innovative water conservation measures. We are passionate about making a positive impact on people's lives and the environment through improving wastewater quality around the world. We are a team of 60 people which is constantly growing, operating in Israel, Europe, America and Australia.

## Product Description

Kando's wastewater intelligence platform provides actionable insights for the daily operations of utilities and wastewater treatment plants (WWTPs). Data is collected and analyzed via artificial intelligence, with clear insights showcased in a dashboard in real-time.

The Kando solution gives you the ability to detect events in the network, track the source and make an impact on the wastewater network.





Retrievable & Floating Fine Bubble aeration solutions for wastewater treatment.

## Company Profile

Mapal provides retrievable & floating Fine Bubble aeration solutions for municipal and industrial wastewater treatment plants of any type and size, for new builds or supplemental oxygen alongside existing aeration, on a rental or purchased basis. Systems are installed safely & easily in full aeration basins using a crane.

## Product Description

Custom designed retrievable & floating Fine Bubble aeration systems. The diffusers are constructed from stainless steel inner tubes that are equipped with Fine Bubble membranes, that are enforced onto the tube, making the units extremely robust. Each aeration unit has its own airlift purge system to remove condensation and liquids that may have entered the piping system.





**Nuf® technology - transforming ultrafiltration to best available affordable technology (baat) for water treatment.**

## Company Profile

NUFiltration Ltd. is an 100% Israeli company that develops, design and manufactures unique water treatment systems.

NUFiltration Ltd. has developed a technology directed at solving water treatment matters. Our patented technology is based on sterilizing and reusing Ultra-Filtration filters, which are originally used for dialysis and can filter out any suspended solid, viruses and bacteria.

NUFiltration Ltd. has been active in dozens of countries in various applications in the fields of drinking water purification, agriculture (including aquaculture), swimming pools, effluent recycling and industry.

## Product Description

Filtration and sanitization of raw water in one single pass through the nuf® membrane – removal of pathogens, bacteria and viruses at the highest efficiency, without chemicals and additives.





Leading provider of water treatment systems - emergency and other applications.

## Company Profile

ODIS offers field-proven systems which produce safe drinking water from any contaminated water source. ODIS systems are built for rough operation conditions and can deliver water immediately after arrival to the site.

Odis emergency systems proved their effectiveness in numerous humanitarian-relief and emergency situations including earthquakes, Tsunamis, droughts, floods, refugee camps, distant rural areas and conflict areas.

## Product Description

Our solutions turn any water into safe drinking water, that meets the WHO and local standards.

Odis robust, compact water treatment plants are specially designed for emergency / disaster situations due their high reliability, ease of operation, readiness for on-site operation (plug and play), proven ability to function in tough operating conditions and their suitability to solar panels powering.







Radiflow provides risk assessment and management solutions for critical industries.

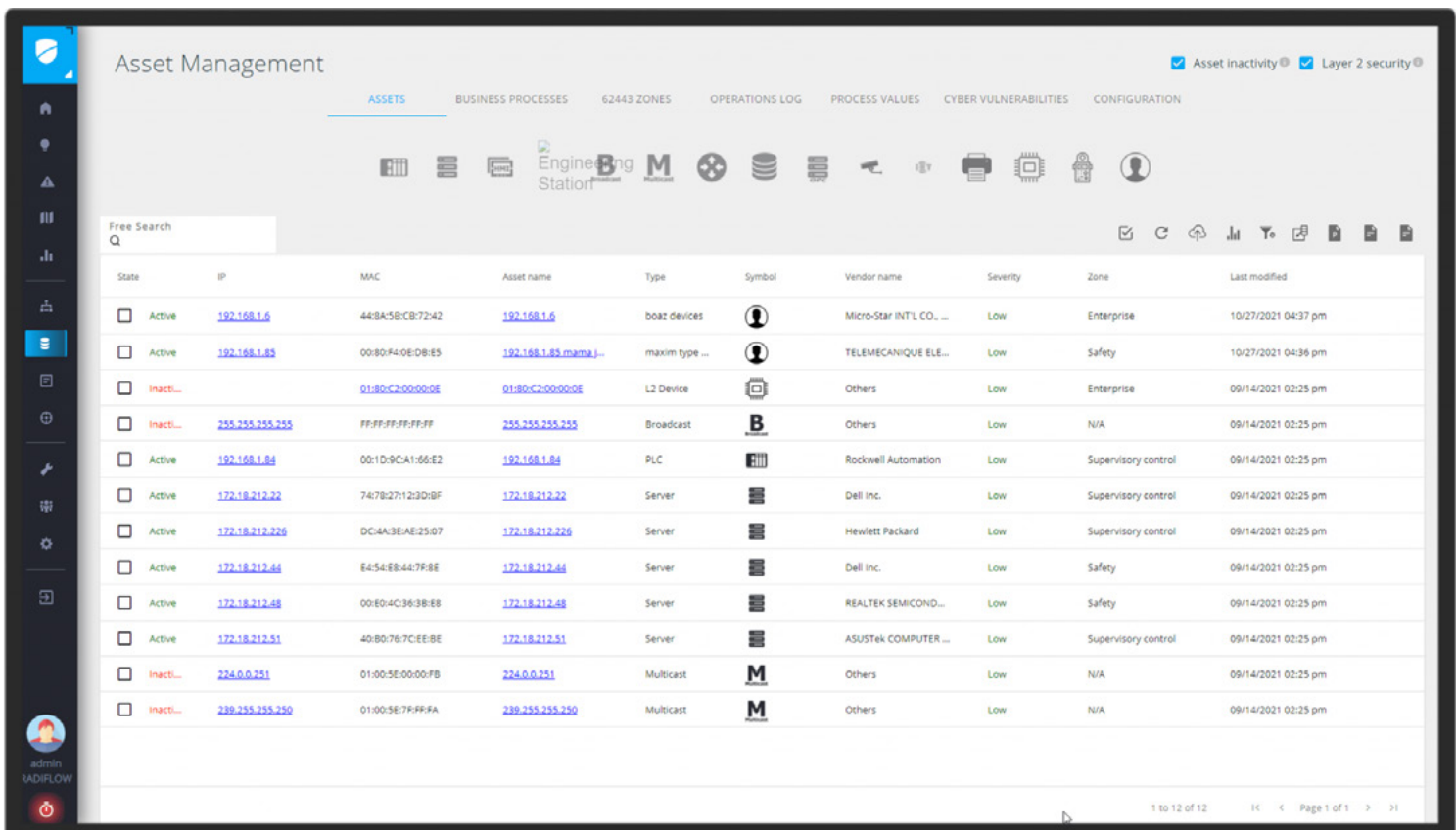
## Company Profile

Backed by research and led by innovation, Radiflow’s team is known for its expertise in the OT world.

The company is the sole vendor recognized by Gartner in both the OT Network Monitoring and Visibility and the Cyber-Physical Systems Risk Management categories. Customers turn to Radiflow to prioritize their actions with our industrial threat detection and risk management solutions.

## Product Description

Cyber intrusion detection and risk analysis ICS.





Real-time secured remote control & data management holistic solution.

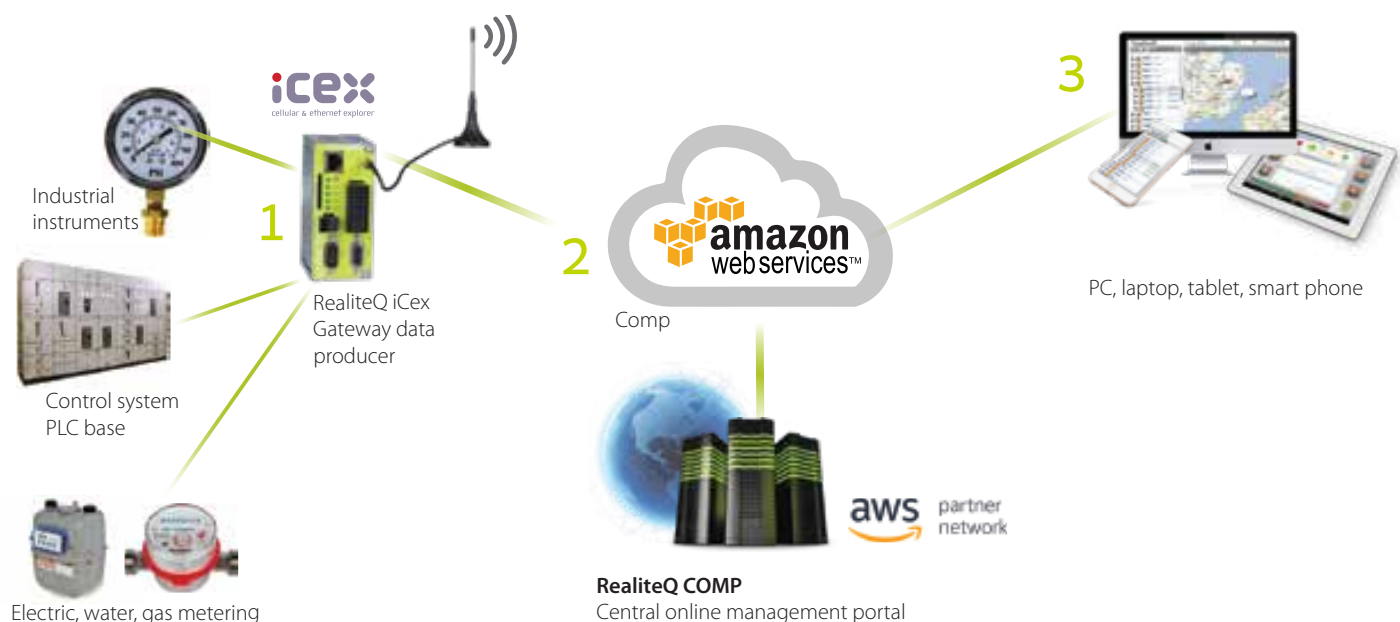
## Company Profile

RealiteQ is the most advanced Smart Water holistic solution available today. RealiteQ is real-time remote control & data management system from the data acquisition & the ICT to the Cybersecurity & data analytics level, reducing respond time in malfunctions & crisis events, making data ease accessible while improving collaboration & coordination within the utility. RealiteQ contributes for better and safer management. RealiteQ makes the digital transformation simple, secured, and affordable to anyone.

## Product Description

RealiteQ is an Advance single source (Hardware, cloud Software & HMI) consists of three components:

- ICEX – smart gateway that explores sensors, analyzers, controllers, etc... and links them to the COMP.
- COMP (Central Online Management Portal) Mediates all communication, defines security and users' permissions, manages the Historian, streams live data, data analytics, Alarms notification .
- UI – Browser-based (HTML5) HMI/SCADA, displays Real-Time information, Alarms, Historical data, Tables & trend charts and Enables Remote operations and modification.





Commercialized, technologies addressing plant climate management via rootzone temperature optimization.

## Company Profile

ROOTS develops and commercializes, modular, cutting-edge technologies addressing critical problems faced by agriculture today, including plant climate management via root zone temperature optimization and the shortage of water for irrigation.

Benefits:

- Dramatically reduce energy costs and environmental pollution
- Increased yield
- Superior crop quality
- Faster time to market
- Planting off-season
- Irrigation savings
- Reduction in the use of Pesticides

## Product Description

The RZTO system by ROOTS cools and heats roots as needed, depending on input from the temperature sensor placed within the root zone area. The systems is able to maintain an optimum range of temperatures (usually between 16-28 Degrees celsius ) year round regardless of air temperatures.

Benefits:

- Dramatically reduce energy costs and environmental pollution
- Increased yield
- Superior crop quality
- Faster time to market
- Planting off-season
- Irrigation savings
- Reduction in the use of Pesticides

There are four configurations:

1. Heat Pumps
2. Ground Source Heat Exchange (GSHE),
3. A combination of heat pumps with a drip irrigation/fertilization system in one piping system.





Security design and management firm.

## Company Profile

Founded in 2005 by former leaders of national security agencies, Sdema Group specializes in dynamic security concept design and master planning. With four integrated service groups—cybersecurity, physical security, emergency & disaster management, and intelligence—Sdema’s core expertise is the security of critical national assets such as energy production facilities, water supply, mass transportation systems and industrial plants.

## Product Description

With leading experts in the fields of physical and cyber security, Sdema Group offers a full range of integrated services in accordance with international standards and best practices. Our expertise in securing critical infrastructure, such as water facilities, is emphasized in our full-Service Cycle – designed specifically for our clients’ needs and includes the following:

- Assessment
- Planning
- Design
- Training
- On-Going support
- Technology
- Emergency & Disaster Management

Sdema Group has been working with the Israeli Water Authority for more than a decade. We provide the Authority with security master planning of water and sewage treatment plants. Creative solutions utilizing cutting-edge technology and physical means to fight terror, crime, and looting.





Siga cyber security the sensor layer and the asset resilience of operational technologies.

## Company Profile

SIGA OT Solutions is an Israeli based operational technology (OT) solutions company, whose main mission is to enable industrial, commercial, and critical infrastructure operators to dramatically improve the reliability, safety, and OT cyber security of their assets. SIGA is an innovative leader in industrial process anomaly detection.

SIGA’s solution is a patented and unique failure detection and cybersafe solution that monitors raw electrical signals (Level 0) from any ICS-connected critical assets, bringing new visibility into physical processes.

## Product Description

The SIGA Platform uses Artificial Intelligence and Machine Learning from Level 0 process signals to monitor critical assets, providing anomaly detection and real-time alerts on misbehavior of the industrial process, such as malfunctions or cyber-attacks.

SIGA’s solution integrates into the actual physical layer of the ICS, monitoring and analyzing asset operations and performance by monitoring the deepest and untouched layer in the OT architecture.

The SIGA solution discovers hidden anomalies and pre-defined anomalies, gives the earliest indication of malfunctions (with Sigalnsight) and cyberattacks (with SigaGuard), works at the most granular level to give the most accurate asset profiling, and provides ongoing asset functioning and anomaly reporting.



Real-time, automated, continuous systems for bacterial count in water.

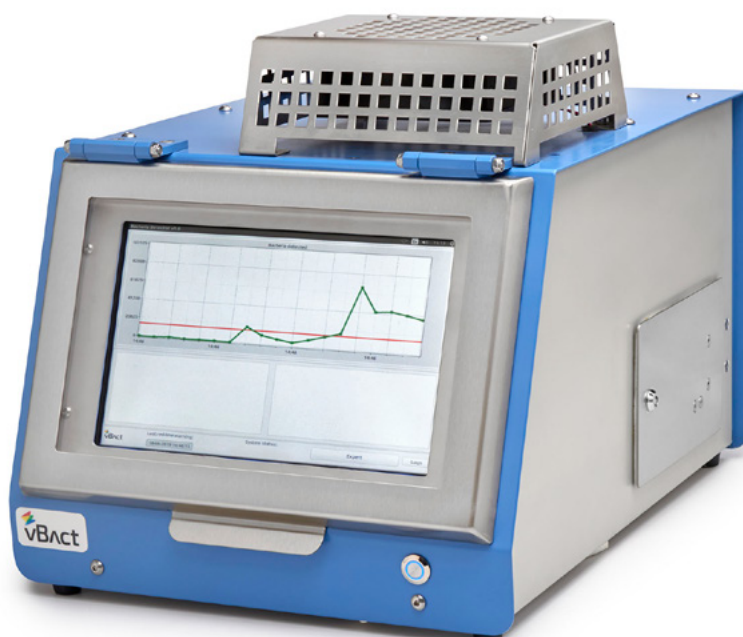
## Company Profile

VBact has developed and manufactures novel systems for real-time, continuous, automated, reagent-free, detection and enumeration [Total Count] of bacteria and micro-particles in water. VBact uses its patented “Direct Imaging” technology and AI image processing algorithms to achieve these unique capabilities. Its solutions support the progress towards digital water business, providing cutting-edge monitoring for water quality and safety needs.

## Product Description

VBact Scanner systems provide bacterial real-time results, continuous operation with no sampling gaps, automation without the need for human operator, and it is environmental friendly, as it is not based on bio-chemical reagents. Water suppliers can use the system for routine water quality and safety monitoring, crisis management of contaminations, and for operational optimization.

The Scanner monitors water infrastructures, may focus on vulnerable water sources, and detects emergence and existence of contaminations 24/7. It provides immediate digital notifications on irregular bacterial and micro-particles water quality and safety events, and enable to take corrective actions in timely manner.





Creating water from air, for people everywhere.

## Company Profile

Watergen is the world's leader in water from air technology, providing a clean and environmentally sustainable source of pure drinking water to every person around the world. In honor of Israel's 70th year of independence, Watergen was selected as one of the ten most influential innovations in the nation's history.

## Product Description

Watergen's built-in blower draws the air from the atmosphere into the atmospheric water generator. Once within the unit, an internal air filter cleans, purifies and enriches the water with minerals. The water is stored in a built-in reservoir, where it is continuously circulated to keep it fresh, tasty and healthy.





Clear water value.

## Company Profile

WFI Group comprises 4 business units. Each is an expert in water treatment - from RO desalination, through inorganic pollutants removal, via biological wastewater treatment, to holistic integration and project management. WFI creates new value from water to enhance public health and sustainability, shifting the model from savings to revenue and growth, using breakthrough technologies and a circular economy approach.

## Product Description

### TAYA ECO

A fit and forget solution for municipal wastewater or effluent polish upgrade that reduces energy and OPEX by 80%, generating high quality effluent, with near zero sludge. Gravel cleaning is needed only once in 8-10 years.





# WATER EMERGENCY @ IL



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