
IMAGINE
H2O
Asia
Meet Our
Startups
15-18
JUNE
SINGAPORE

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About Imagine H2O Asia

Water innovation is thriving. The problem is getting it to scale.

Imagine H2O, a Singapore and US-based NGO, closes that gap by partnering with entrepreneurs, customers, and capital to deliver water and climate solutions worldwide.

Launched in partnership with Enterprise Singapore, Imagine H2O Asia is the go-to partner for local and global water tech startups building their businesses across Asia-Pacific.

Our Track Record

270+
Startups supported since 2009

$1.3B+
Raised by our startups

55
Tech Adopters

Singapore hub launched in
2019

Water Innovation Pilot Fund

Imagine H2O's Water Innovation Pilot Fund designs and co-funds quality pilots to build the evidence customers need for solution adoption.

Catalytic Funding

Technical Assistance

Scale-Up Support

Fund Highlights:

24 projects since 2023

9 countries piloting Imagine H2O solutions today

10x capital mobilised by grantees

IH2O Asia Supporters

Enterprise Singapore · PUB · The Coca-Cola Foundation · ADB · SWA Singapore Water Association · Kurita · xylem

Fund Supporters

The Coca-Cola Foundation and other valued partners

Programme Agenda

IMAGINE H2O Asia at Singapore International Water Week

15 June

Asian Civilisations Museum
5.30PM - 6.30PM

Water Tech in Action: Innovation Showcase

Discover 8 breakthrough startups from this year's cohort and explore the latest from Imagine H2O and our partners

15 June

Asian Civilisations Museum
6:30PM – 8:00PM

Networking Reception

Connect and collaborate with Singapore's growing water innovation ecosystem

Co-sponsored with Imagine H2O by:

xylem

Burnt Island Ventures

16 - 18 June

Sands Expo,
Booth B2-G32
10:00AM – 6:00PM

Imagine H2O Innovation Pavilion

Meet 18 portfolio startups spanning smart network operations, real-time water quality monitoring and industrial water recovery and reuse.

17 June

B2 Expo Stage
11:00 AM – 12:00 PM

What Nobody Told Us About Building a Water Tech Startup

Founders panel discussion featuring Imagine H2O companies NTi Membranes, WorkOnGrid, Polygone and Matter

17 June

Level 3, TechXchange
3:00 PM – 3:30 PM

Breaking Through the Pilot Stage with the Right Projects and Partners

Exploring the path from pilot to scale with Drinkwell, ADB, H2MO, and Kurita Water Industries

Imagine H2O Team



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President



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Rodora Gamboa

Nguyen Quang Khai

Rodney Chapin

Jennifer Sara

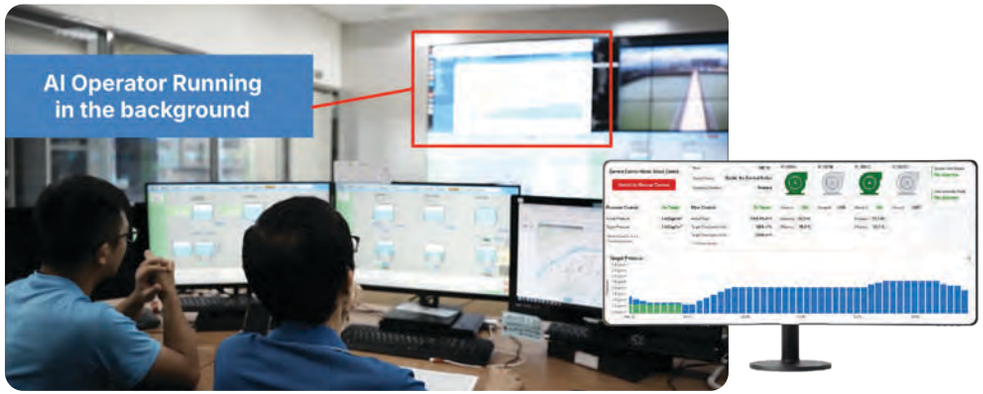
OPERATIONAL INTELLIGENCE

AquaOptima

Singapore

Pre-Commercialisation

www.aquaoptima.ai



AI operator for water utilities to autonomously run pumps, treatment plants, and networks, saving energy and reducing water loss.

- **9** active pilots in Taiwan, Malaysia, Indonesia & Thailand
- Municipal-scale deployment in Taiwan, serving **120,000** residents

In Action

Pump optimisation for water utilities

- **80%** reduction in manual intervention; **~20%** increase in pump lifespan
- Senior operators' expertise captured in the AI system

On the Horizon

- Opening seed round at SIWW 2026 to scale to 100 APAC utility sites within 2 years
- Co-filing AI Operator control algorithm patent with Taiwan Water Corporation
- Expanding AI Operator into software-only NRW reduction solution across APAC utilities

WATER RECOVERY

EarthFokus

India

Growth

www.earthfokus.com



Retrofit plume recovery system for cooling towers to capture evaporative water loss with real-time recovery tracking.

- **90% TDS reduction** in recovered water
- **~3 million** liters/year saved per installation

In Action

Water recovery system for cooling towers

- **32%** recovery of water lost to evaporation
- Zero impact on existing system performance

On the Horizon

- Advancing commercial EcoVapure deployments with 5+ manufacturing customers following industrial validation
- Developing modular cooling tower systems with improved water recovery performance and simplified deployment
- Launching WaterOS predictive intelligence platform for real-time cooling tower monitoring and water efficiency optimisation

INDUSTRIAL WASTEWATER TREATMENT

Exposome

India

Growth

www.exposome.in



Regenerable filtration media that achieves high contaminant removal for silica, COD, colour, heavy metals, ammonia, and fluoride.

- **30** paying customers with repeat orders
- **120** completed pilots and deployments for COD, colour, total nitrogen, silica and odour removal

In Action

STP tertiary treatment for water reuse

- **>80%** COD reduction, 100% colour removal
- Stable media performance across multiple regeneration cycles

On the Horizon

- Scaling deployments across F&B, pharmaceutical, and semiconductor industries
- Expanding commercial presence in the US and EU
- Advancing proprietary PFAS media commercialisation ahead of a planned Series A in late 2026

ENERGY RECOVERY

Green Vigor

Hong Kong

Pre-Commercialisation

www.green-vigor.com



Micro-hydro system to convert water flow in building tanks and cooling systems into renewable electricity for use on site.

- **10** modules deployed across commercial, residential and government buildings
- Deployed with leading developers including Sun Hung Kai Properties, China Overseas & CapitaLand

In Action

Power generation from cooling tower make-up water flow

- **800-1,000Wh** generated per HydroVigor module
- **24/7** renewable electricity generation for carpark lighting systems

On the Horizon

- Launching first pilot deployment in a data center and public facility in 2026
- Scaling micro-hydro power recovery for data centers and district cooling infrastructure
- Raising US$5M Pre-Series A to expand production capacity and grow the team

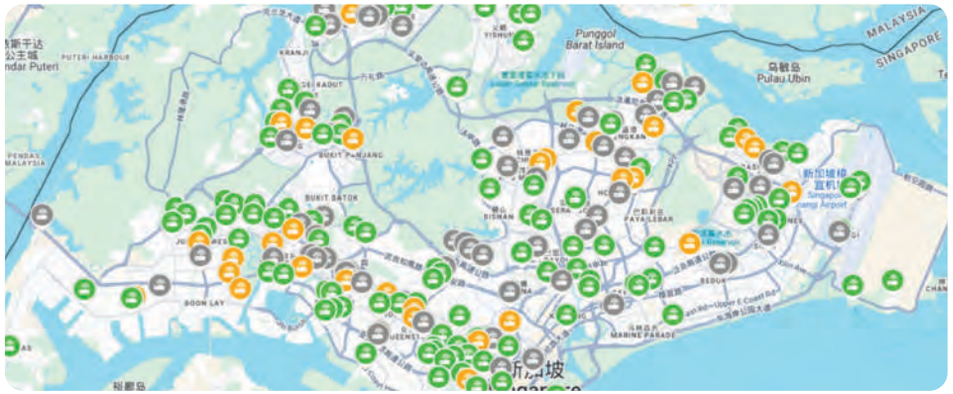
MONITORING AND COMPLIANCE

NM3 Tech

Singapore

Commercialisation

www.nm3.sg



Water intelligence platform that enables real-time monitoring and control through integrated sensing, automated sampling, lab validation, and analytics.

- **> 300** monitoring nodes deployed across municipal and industrial sites in Singapore and Malaysia
- **Up to 40%** faster anomaly detection vs conventional sampling methods

In Action

Wastewater monitoring and automated sampling for catchment management

- **95%** data uptime with synchronised sensor and laboratory validation
- High-resolution stormwater pollution profiling across multiple rainfall events

On the Horizon

- Expanding wastewater monitoring deployments into river and open-water applications across Malaysia
- Strengthening digitalisation and machine-to-machine integration for reliable distributed environmental monitoring networks
- Advancing AI-enabled sampling and compliance workflows to improve efficiency and reduce monitoring costs

WATER AND RESOURCE RECOVERY

NTi Membranes

Singapore

Commercialisation

www.ntimembranes.com



Poly-ceramic membrane systems to recover solvents, acids, alkalis, and water under harsh operating conditions.

- **20** active projects across Singapore, China, Taiwan and Sweden
- **15** million m^3 of process streams treated

In Action

Water recovery and oil concentration from industrial wastewater

- **98%** water recovery rate
- Energy efficiency of >8 kg of water recovered per kWh

On the Horizon

- Launching alkali recovery deployments for textile, food, and pharmaceutical manufacturing applications
- Advancing galvanising pilots for acid regeneration and zinc and iron salt recovery
- Scoping first zero liquid discharge deployment for whiskey distillery waste streams

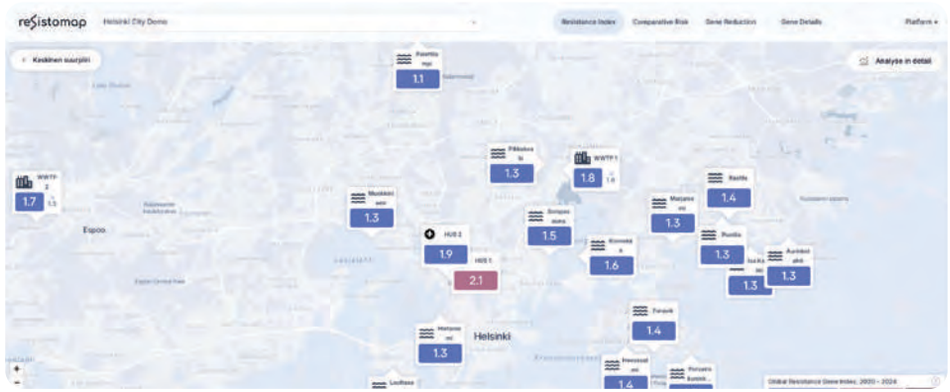
PATHOGEN MONITORING AND BIOSECURITY

Resistomap

Finland

Commercialisation

www.resistomap.com



Antimicrobial resistance (AMR) surveillance platform using SmartChip qPCR to deliver actionable water biosecurity insights.

- **470** projects supported; trusted by 150 organisations in 41 countries
- **~ 5** business days from sampling to actionable AMR insights

In Action

AMR surveillance for wastewater treatment plants and coastal protection

- AMR gene concentrations detected across monitored treatment plants, signaling widespread prevalence
- Residual AMR signals detected in treated effluent

On the Horizon

- Supporting EU-driven AMR surveillance adoption across wastewater, surface water, and groundwater monitoring
- Expanding into One Health intelligence platform linking environmental, human, and infrastructure AMR surveillance data
- Participating in a £2M UK wastewater surveillance pilot to track antibiotic resistance trends and public health risks

WATER PRODUCTION AND ENERGY REUSE

Uravu Labs

India

Growth

www.uravulabs.com



Closed-loop liquid desiccant system using low-grade waste heat to generate distilled water on-site.

- **20,000–35,000** L/day per MW water generation
- **10-80%** reduction in cooling energy

In Action

Water and cooling optimisation for data centres

- Offset **20–50 million** litres of annual water consumption
- Integrated with existing HVAC infrastructure without major redesign

On the Horizon

- Advancing pilot deployments with Microsoft and expanding partnerships across hyperscalers and co-location providers
- Scaling modular thermal systems for AI and high-density compute cooling infrastructure
- Targeting ~1 MW of deployment capacity across Middle East and Asia pilots and early commercial projects

Portfolio Showcase

Where are they now?



CityBot Technology

AI-driven robotic inspection and underground infrastructure analysis

- **20 pilot deployments** across underground infrastructure inspection projects
- **10 km of pipelines inspected** with 1,000+ defects identified for asset owners
- Partnership established with **PUB Singapore**



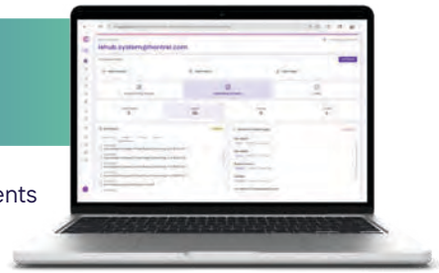
EnvironSens

Real-time biological toxicity sensing platform

- Deploying **175 I2BioS units** across Singapore for heavy metals monitoring in water networks.
- Integrating monitoring systems across **120 industrial trade effluent sites** linked to PUB operations.
- Expanding biotechnology-based CAPEX-free wastewater treatment solutions across Southeast Asia with ~SGD5M annual revenue growth.

Hontrel Technologies

AI-powered BOQ generation and tender costing



- **200% quarter-on-quarter growth** with 8 deployments across water treatment projects
- Expansion into the **U.S. and green energy sector**
- Strategic partnership with a water engineering firm in India to automate Bill of Materials, Process Flow Diagram, Piping and Instrumentation Diagram, layout design, and proposal generation



Transient Detect

IoT-based pressure transient detection

- **+125% year-on-year growth**, with seed funding secured in June 2025
- **10 deployments across 6 water utilities** in Australia and Singapore
- **9 years/ $1.1M of pipe asset life recovered** and a further 82 years/ $5.4M of recoverable pipe life identified

WorkonGrid

AI-driven platform for data integration

- **~100% revenue growth** over two years with **6 deployments** across key markets
- Expansion into the **U.S. and Middle East**
- 99% on-time billing, 40–45% fewer false alerts, 12–18% reduction in billing anomalies, and 20–30% fewer unnecessary field visits



Water Innovation Pilot Fund

Pilot Spotlights

Explore selected pilots designed and co-funded by Imagine H2O.

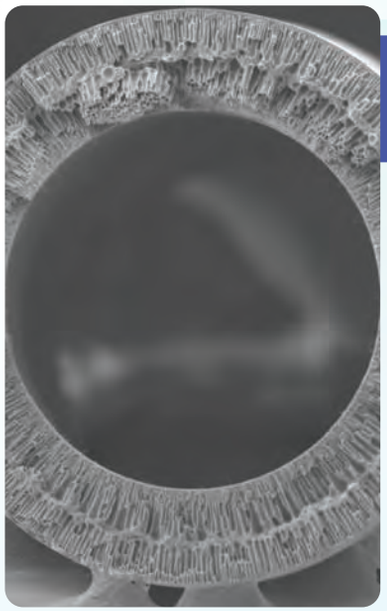


Reducing urban flooding with real-time stormwater monitoring

Matter & Ho Chi Minh City Urban Drainage Company | Vietnam

Active

- Matter is deploying their radar-based stormwater sensors across 15 sites in Ho Chi Minh City to enable continuous monitoring of underground drainage assets.
- The solution detects debris buildup and blockages early, replacing infrequent manual inspections while allowing early detection and more targeted operational responses.



Reclaiming water with biomimetic energy membrane modules

Active

H2MO & Kurita R&D Asia (KRA)
Multiple Countries

- H2MO is testing its energy-efficient biomimetic membrane modules with Kurita teams in Singapore, Japan, and China for multiple applications including decentralised water reclamation.
- H2MO's membranes operate at 2-4X lower pressure than conventional membranes, consuming significantly less energy and at a greatly reduced fouling rate.



Removing arsenic and iron through piped water systems

Completed

Drinkwell & West Bengal Public Health Engineering Department (WBPHED)
India

- Drinkwell is implementing piped water systems in two arsenic-affected districts in West Bengal to deliver safe drinking water to a targeted 11,000 households.
- Both systems use Drinkwell's proprietary HIX-Nano resin technology which enables low-cost and low-energy arsenic removal.



Treating high-turbidity surface water with ultrafiltration system

Completed

Atera Water & CA Water
Vietnam

- Atera deployed its TeraStream ultrafiltration (UF) system to treat 80 m^3/day of highly turbid river water (up to 200 NTU) without chemical pre-treatment.
- Atera's filtration system, which uses proprietary hollow fiber membranes, successfully treated raw water at turbidities up to 250 NTU to required standards, and at a chemical cost 88% lower than traditional UF systems.

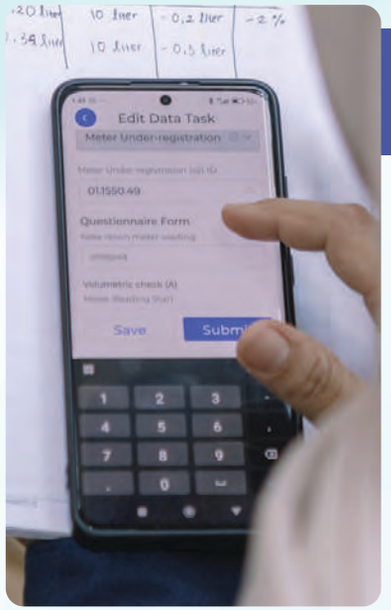


Reducing water use in cooling towers with real-time water quality monitoring

Active

Aprisium & MegaWorld
Philippines

- Aprisium is trialling its autonomous, real-time water quality monitoring system in a commercial building that requires up to 30,000 L/day for cooling.
- Continuous insights enable operators to reduce chemical and water use, lowering energy costs while improving cooling efficiency.



Reducing non-revenue water with AI-enabled analytics

Active

SmartTerra & PDAMs Depok & Surabaya
Indonesia

- SmartTerra is deploying its AI-powered data analytics tool with two utilities in Indonesia to identify likely leak locations, faulty meters, and illegal connections.
- System-generated prioritized field actions guide targeted leak detection, repairs, and meter verification.



Reducing emissions from used water treatment with nitrite and nitrate monitoring

Completed

Aquamonitrix & Public Utilities Board (PUB)
Singapore

- Aquamonitrix is piloting its nitrite and nitrate analyser at PUB's water reclamation plant to provide insights into nitrous oxide (N2O) formation.
- Improved process visibility enables operators to optimise processes, reducing energy use and N2O emissions.

IMAGINE H2O
Asia

ENGAGE WITH US

Interested in discovering and piloting new water solutions?

Members of our Tech Adopters Network can receive support from Imagine H2O's Water Innovation Pilot Fund to explore, test and adopt vetted innovations faster.

Set up an introductory conversation with us

Join the Tech Adopters Network:

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Learn more about the pilots supported by the Water Innovation Pilot Fund:

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