

ISRAEL-INDIA

"Bridge to Innovation" Challenge





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Greetings from Israel Innovation Authority

Broadening the relations between Israel and India, especially in the fields of scientific and technological cooperation, is a critical strategic goal for both countries.

During Prime Minister Narendra Modi's historic visit to Israel in July 2017 he expressed his desire that India and Israel work together to develop innovation addressing global problems, affecting the lives of hundreds of millions of people all over the world.

Out of this vision, which was shared by Prime Minister Netanyahu, came the India-Israel Bridge to Innovation Challenge. "Bridge to Innovation" brings Israel together with India – one of the world's largest economies with the highest growth rates - in order to develop technological solutions to the world's most intractable problems.

This program is supported by Invest India, the Government of India, together with the Israel Innovation Authority and the office of the Prime Minister of Israel. Its aim is to provide Indian & Israeli companies with the opportunity and guidance to carry out pilot-projects in cooperation with corporates, leading NGO's, investment firms and governmental agencies in India, in the fields of Digital Health, Agriculture and Water.

More than 800 companies in India and Israel applied to take part in this program, which is not only bringing together the innovation ecosystems of both countries, but is also leveraging the knowledge, experience and capabilities of leading entities both in Israel and India to help companies cooperate and jointly implement India based-pilots that could eventually scale globally.

In this booklet you can find all the relevant information on the "Bridge" initiative; the program's goals and technological challenges needed to be solved, the different phases and timeline for the challenge, and also information about the winning companies chosen by the Indian side to be the first cycle's participants. These companies will also take part in the "Co-Creation Summit" taking place during Prime Minister Netanyahu's first-ever visit to India on January 2018.

Mahatma Gandhi said, "The difference between what we do and what we are capable of doing, would suffice to solve most of the world's problems." In this spirit, Israel Innovation Authority is pleased to bring you this new initiative, calling Indians and Israelis, innovators and investors, social leaders and corporates to join forces, and show the world what we are capable of doing together.



Greetings from Invest India

India is progressing at an exponential pace. We are moving rapidly towards our hon'ble PM Narendra Modi's vision of a New India. More than 1 Bn people are already covered under the world's largest unique biometric system – AADHAR. We have moved up 30 ranks in the World Bank's Ease of Doing Business report. Along with a shift in Moody's rating for India, first since 2004, and currently India ranks 1st among the world's fastest growing economies and most attractive investment destinations. Underpinned by strong domestic demand and high potential for innovation, the Indian startup ecosystem is poised to achieve greater heights in the forthcoming years. These wins coupled with the technology revolution that the world is witnessing have been a contributor to the successful New India story.

However, in the face of a globalized world, the new India story would be incomplete without constructive synergies with other nations that share our idea of a better tomorrow. The India-Israel bridge exemplifies this belief system of ours as we work tirelessly towards our goals.

An integral part of the India-Israel bridge are the Start Ups and partners that have been working tirelessly towards this shared vision. Those mentioned here operate in the field of water, health and agriculture.

What you hold in your hand is another manifestation of all our efforts which we hope will better help you navigate through the progress made by the combined ecosystems over the past months and the vision we hold for the future.

Working together allows us to have more faith in the revolutionary possibilities of modern technology in the face of a globalized world. May we continue to fight for causes that bring us peace and development, while drawing strength from each other at the same time.

We are pleased to have you present here as an attendee and even more excited about having you as a part of our New India story.

Wishing you a wonderful experience at the co-creation summit!



The challenges:



HEALTHCARE

Healthcare Challenge #1:

Solutions for real-time health monitoring, home care, remote care, periodic counseling and advice on health management for NCDs (Non-Communicable Disease)

Healthcare Challenge #2:

Innovative, inclusive, low cost diagnostics and predictive solutions in rural areas



AGRICULTURE

Agriculture Challenge #1:

Solutions for reducing post-harvest loss and improve market linkages

Agriculture Challenge #2:

Affordable easy-to-use solutions to enhance agricultural productivity and increase farmers' earnings



WATER TECHNOLOGY

Water Challenge #1:

Low energy and cost effective sustainable solutions for wastewater treatment/ desalination/ recycling or purifying large water sources and surface water

Water Challenge #2:

Innovative and affordable solutions that produce potable drinking water at point of use in both rural and urban areas



Phase 1:

14-19 January, 2018 India-Israel Global Innovation Summit

Held during Prime Minister Netanyahu's visit to India in January 2018, the summit will be attended by leading Indian and Israeli corporates, investors and foundations.

Attending the summit will enable Israeli attendees to deepen their understanding of how their innovation could address Indian market needs, as well as to build local networks necessary to develop their pilot proposals.



Phase 2:

February-April 2018 - Cross-border advisory support

This phase will be focused on developing solutions by the Israeli companies together with the Indian corporates and other partners. Participating companies will continue to develop the product over three months, in order for it to fit the Indian market.

The process will include a consulting package with professional advisory support led by leading experts from the Indian industry. In addition, there will be a series of face-to-face workshops that will help participating companies gain knowledge on doing business in the Indian market.



Phase 3:

June 2018

From the companies that participated in phase two of the program, 6 will be selected to continue to the third phase of the program

These selected companies will visit India again and will participate in a "matchmaking" event with local investors and corporates to develop pilot partnerships.





Partners



Israel Innovation Authority -

The Israel Innovation Authority, responsible for the country's innovation policy, is an independent and impartial public entity that operates for the benefit of the Israeli innovation ecosystem and Israeli economy as a whole.

Its role is to nurture and develop Israeli innovation resources, while creating and strengthening the infrastructure and framework needed to support the entire knowledge industry.

As such, the Israel Innovation Authority advises the government and Parliament ("Knesset") committees regarding innovation policy in Israel and furthermore monitors and analyzes the dynamic changes taking place throughout the innovation environments in Israel and abroad. The Authority creates cooperation with counterpart agencies to promote technological innovation in the Israeli industry and economy.

Innovation is by far the most valuable resource for the State of Israel, serving as a national asset crucial to economic prosperity. Strengthening the innovation ecosystem is the mission of the Israel Innovation Authority, which seeks to further develop and support technological innovation in Israel through various support tools

Invest India -



Invest India is the National Investment Promotion and Facilitation Agency of India and acts as the first point of reference for investors in India.

Invest India is transforming the country's investment climate by simplifying the business environment for investors. Its experts, specializing across different countries, Indian states and sectors, handhold investors through their investment lifecycle - from pre-investment to after-care. Invest India's specialists provide multiple forms of support such as market entry strategies, deep dive industry analysis, partner search and location assessment policy advocacy with decision makers.

Invest India is set up as a non-profit venture under the Department of Industrial Policy and Promotion, Ministry of Commerce and Industries, Government of India.

Startup India Hub is mandated to act as the "single point of contact for the entire ecosystem and enable knowledge exchange and access to funding" under Startup India, the flagship initiative of Govt. of India. The 20+ member team is hosted under Invest India, the national Investment Promotion and Facilitation Agency of the Government of India. The Hub works as a nodal agency to aggregate the fragmented startup community and create an integrated ecosystem, helping all to thrive through their different journeys. The aim is to reduce knowledge asymmetry and provide access to resources such as Government initiatives, sectoral researches, learning programs, etc.



Pears Program for Global Innovation -

The Pears Program for Global Innovation works to increase Israel's contribution to international development through technology-based, financially sustainable solutions to problems facing people affected by poverty.

Israel is one of the world's most innovative countries. However, the vast majority of technologies only benefit the 15% of the planet's population living in high-income countries. We are dedicated to harnessing the power of Israeli innovation to address the needs of the remaining 85% of the world population.

By building bridges to the needs, opportunities and peoples of the developing world we hope to enable Israeli entrepreneurs and innovators to play a larger role in addressing the most pressing challenges of our time: ensuring water, food, clean energy, education and healthcare for all.

iCreate -



International Centre for Entrepreneurship and Technology is an autonomous Centre of Excellence for Entrepreneurship and Technology founded by Shri Narendra Modi, the Prime Minister of India. iCreate's reason for existence is converting NextGen innovators into successful businesses.

iCreate offers residential facilities, labs, office space, mentors, market access as well as seed capital for projects it incubates. iCreate also offers a "Safe Landing Pad" for Israeli innovators where it extends curated support in exploring the Indian market, looking for possible partners and other related support. A not for profit organization, iCreate is largely funded by the Government of Gujarat as well as the Central Government. It takes equity in its incubated companies, and expects successful companies to pay back the seed capital as debt.

iCreate is sector agnostic, but leans towards IoT, embedded systems, ML/AI based products or applications that solve developmental needs of India. It has strong links in corporates (Indian as well as Global) and the Government (State as well as Central). It has its own fast prototyping labs as well as tie-ups with design and fabrication agencies to help its projects customize their products. It has a tremendous focus on market penetration.

T-Hub -



T-Hub is a unique public/private partnership between the government of Telangana, three of India's premier academic institutes - IIT-H, ISB and NALSAR, and key private sector leaders. It stands at the intersection of the startup, academic, corporate, research and government sectors.

It is the largest startup ecosystem in India. The Startups within T-Hub are clustered into various stages of growth across seven sectors of specialization – Fintech, Healthtech, Agritech, SmartCity, Transportation & Logistics, Sustainability and Social Tech capturing Big Data, IoT, Analytics, Sensors, Cloud and Mobility. The T-Hub model enables investors and corporates to plan programs and capacity building initiatives in a targeted and organized manner.

As a startup engine, T-Hub is nurturing the Telangana startup ecosystem via creating programs and partnerships with renowned corporates, investors, mentors and academia. It is the only model where the government is working intensely with the investor and the partner community to fuel innovation and facilitate enterprise. T-Hub has the largest corporate & investor connect programs and other mentorship programs that help startups across various stages of growth in capacity building to reach a level of scale.



companies



HEALTHCARE

Sight Diagnostics

Malaria is still the world's most fatal infectious disease, posing a huge economic burden on endemic countries. The majority of tests are conducted by manual microscopy, which involves trained individuals who painstakingly prepare blood smears and look at them under microscope. In addition to being labor intensive and prone to user errors, manual microscopy is becoming a lost art, making it harder to handle the load of tests while maintaining the desired accuracy.

To replace manual microscopy, Sight invented a novel sample preparation and staining method, enabling the creation of a live monolayer of blood within 15 seconds. This live monolayer is automatically formed in a disposable cartridge which is loaded into a device. Our device combines computer-vision algorithms to rapidly identify and quantify blood components in an automated fashion. Through digital diagnosis we diagnose malaria with over 98% sensitivity & specificity and provide input about speciation (malaria type) and number of cells infected.

sight

Assaf Amitay
assaf@sightdx.com
www.sightdx.com

Zebra Medical

Zebra Medical Vision has set out to help millions of people received high quality, fast, affordable imaging care - by teaching software to automatically diagnose medical imaging scans, such as CTs, X-Rays, MRIs etc.

Medical imaging diagnosis requires a skilled radiologist to interpret findings. In India there are ~5 radiologists per 100K people, compared to >60 in the US. As the population grows, millions of people suffer from lack of access to radiology services, radiologists themselves are extremely overworked, and not able to provide timely, high quality diagnosis due to the pressure on them.

Zebra's automated analytics engine is capable of receiving imaging scans and analyzing them to indicate key findings. Our product identifies coronary, liver, lung and bone disease, as well as lung and breast cancer and numerous other findings. By deploying our solutions across hospitals – we can help bridge the growing gap between the demand for radiology services and the supply of fast, affordable high quality diagnosis.



Elad Benjamin
elad@zebra-med.com
www.zebra-med.com

Mobile ODT

MobileODT is creating the next generation of smart medical solutions. Our smart EVA (Enhanced Visualisation and Assessment) System combines biomedical optics with the power and connectivity of cellular technology. The EVA System can be used everywhere, under nearly any condition from advanced hospitals to low-resource settings. In 2017, following deployment in 26 countries around the world, MobileODT piloted the EVA System for Cervical Cancer in India with Apollo Hospitals, Hiranandani Hospitals, Batra Hospital, and Fortis Hospitals. In 2018, we will scale the EVA System across the subcontinent.

Our next product, the EVA System for Oral Cancer, combines portable, easy-to-use, point-of-care visualization and assessment tools to rapidly improve screening efforts for oral disease. The EVA System integrates secure software for remote consultation, record keeping, patient tracking, and ongoing quality assurance and training purposes to ensure Oral Cancer screenings are effective, sustainable, and lead to ongoing cost-savings.



Cathy Sebag
cathysebag@mobileodt.com
www.mobileodt.com



HEALTHCARE

Camereyes

There are over 400 million diabetic patients worldwide. 50 million of them may go blind due to Diabetic Retinopathy, the leading cause for blindness within working age adults. Dedicated to providing affordable eye care and prevent blindness worldwide, Camereyes has developed a simple, end-to-end solution for detecting and monitoring Diabetic Retinopathy at a push of a button. Cameraeyes leverages cutting edge optics and advanced deep learning algorithms to provide low cost, fully automated solution for places where professional eye care specialists may be scarce or far away.

Camereyes solution requires no special setup or skill, making it ideal for busy endocrinologists and primary care providers - even in remote locations. Patients do not need pupil dilation, they just slip on a headset and with the press of a button, high quality fundus images are automatically taken and sent for storage in the cloud. A network of professional reading centers with accredited graders, supported by our advanced machine learning algorithms, analyze the images and generate detailed reports which are sent back, in a matter of minutes, to the point of care, whether it's a busy diabetes center in Toronto or a remote clinic in a tent in Timbuktu.



Udi Gordon
udi@camereyes.com
www.camereyes.com

Medivizor

Medivizor personalizes health information. When people are diagnosed with illness, they turn to the Internet for answers only to be overwhelmed by repetitive, irrelevant, outdated, unsafe, and incomprehensible health information: they simply don't know what applies to them and what they can trust.

Medivizor's multi-award-winning platform solves this. Medivizor continuously scans thousands of research papers, clinical trials, guidelines, and warnings, and figures out which matter to whom and explains it all in a language people understand, empowering people to make timely and well informed decisions about their health. In effect, Medivizor is a personalized, AI-powered, "GPS" to navigate chronic illness.

Medivizor is endorsed and distributed by dozens of healthcare providers (e.g. NewYork-Presbyterian Hospital) and non-profit organizations (e.g. The Leukemia & Lymphoma Society). Medivizor can help and is eager to partner with doctors, other clinicians, healthcare providers, payers, biopharma companies, CROs, non-profits, and more



Tal Givoly
tal@medivizor.com
www.medivizor.com

Votis

VOTIS helps diabetics keep their feet through rapid, early screening for diabetic foot syndrome and associated pathologies including peripheral vascular disease and infections, before tangible symptoms arise. Assessing severity of diabetic foot pathology before a wound develops and becomes infected or gangrenous with current technology is a struggle. A cut, a nick, or even an abrasion may quickly develop into an infection or gangrene, and the only available treatment option may be amputation.

Early detection enables better and more cost-effective treatment options, leading to fewer amputations. The digital-health-based VOTIS system works by directing harmless light into the foot, and measuring results. The captured information is sent via the cloud to remote servers, where our proprietary algorithms convert it into 3-dimensional maps describing physiological parameters within the foot. Artificial intelligence/machine learning codes then perform diagnostic classification and, eventually, prognosis. Screening with the VOTIS system saves money, limbs, and lives.



Merrill Weber
merrillweber@gmail.com



AGRICULTURE



AMAIZZ

Amaizz is an agritech company dedicated to developing innovative products that drastically minimize losses caused by spoilage and degradation throughout the handling, storage, and processing stages. In 2016, Amaizz won the Israeli Grand Challenges Program and gained the support of the Israeli Chief Scientist for its innovative drying technology. Amaizz's solution for post-harvest handling and storage saves up to 50% of the losses caused by mishandling and depreciation and greatly improves production efficiency leading to higher quality produce.

Amaizz products and solutions are focused on a broad range of clients, mainly small and medium-scale farmers but also include commercial farmers, factories, and logistic centers. The most urgent need for farmers is comprehensive solutions in drying machines, cooling units, and storage facilities. Amaizz provides portable, durable, cost-effective and clean energy solutions that address the farmers needs.



AMAIZZ
Save Food. Save Lives.

Ido Batchko
ido@amaizz.com
www.amaizz.com

BotanoCap

BotanoCap has developed an eco-friendly platform for the slow release of volatile compounds, such as essential oils and uses an encapsulation technology to facilitate the use of natural substances for agricultural applications.

Each year massive quantities of food are lost due to spoilage during post-harvest storage and transportation. Natural volatile compounds extracted from plants have demonstrated biological efficacy and are a viable alternative to toxic and environmentally damaging synthetic chemicals. BotanoCap's encapsulation enables the long term slow release of the volatile active compounds, thus reducing the frequency of application. It allows for the isolation of the active ingredient from the crop, ensuring a reduction in phytotoxicity and hence a reduction in post harvest spoilage.

While we are currently focusing on Agricultural applications, this same technology can be applied to various uses such as food additives, water treatment and cosmetic & healthcare Applications. BotanoCap's technology is protected by patents.



Chanan Moris
chanan@botanocap.com
www.botanocap.com

Biofeed Ltd.

Biofeed was founded in 2004 by Dr. Nimrod Israely, and is focused on spray-free solutions for fruit fly control. Biofeed holds 10% of the market in Israel. In 2015 Biofeed won Grand Challenges Israel to develop a solution to India's #1 pest; the Oriental fruit fly, which currently causes over \$ 3 billion damage to India's \$ 9.2 billion mango industry. Biofeed's 2017 field results (Karnataka, India) presented a 90% reduction of fruit infestation.

Hence, Biofeed became the first and only company to have a solution for that pest. Using Biofeed's novel solution enables growers to increase their income by 50% to 700%. Furthermore, export will become possible and the industry will regain over 5 million tons of quality produce. To fully exploit this market Biofeed is open to cooperate with local distributors and investors.



Nimrod Israely
nisraely@biofeed.co.il
www.biofeed.co.il



AGRICULTURE

Saillog

Saillog is a technology company offering solutions to the agricultural sector. There is an increasing imbalance between agricultural productivity and the growing global food demand. Saillog utilizes artificial intelligence and computer vision algorithms to identify plant diseases and deficiencies, while providing consumers with treatment protocols.

Small-scale farmers and home gardeners benefit from the Agrio freemium smartphone app that aggregates data through uploaded images of plants with suspected pathologies. Users receive responses from the AI software and a community of agricultural experts.

For large-scale farmers, Saillog offers an autonomous disease control vehicle. The vehicle patrols and monitors fields then notifies farmers when diseases are recognized. The vehicle suggests optimal treatment and implements real-time interventions. Saillog leverages and deploys artificial intelligence algorithms to provide users with one complete solution for disease and pest management problems.



Nessi Benishti
nessi@saillog.co
www.saillog.co

SupPlant

SupPlant, a leading company in the realm of precision agriculture, helps growers increase their efficiency in the process of irrigation and crop growing. There is a constant need to improve methods of farming due to ample parameters such as climate change, water scarcity, lack of knowledge, lack of land and more.

SupPlant addresses these aspects through integration of robust hardware along with software and unique algorithms to apply an "autonomous vehicle" approach for real-time decisions making, based on critical factors and variables dictated by the crop.

The system itself consists of 3 family types of sensors- soil, climate and plants. The crops are monitored 24/7, constantly providing data on which the "platform" analyzes and will react and apply precise irrigation. The users obtain a dedicated mobile app allowing them to have sufficient control over their crop growing procedure.



Oded Rahav
oded@supplant.me
www.supplant.me

Seed Tech Temed Ltd.

Our technology is aimed to enhance global food security and abundance by increasing yields of crops (lentil, peas, corn, sunflower, cotton, soy, carrots and more) by an average of 10.4%. Technology only requires electrical power to generate illumination that simulates sun light. By applying a specific regime of light and darkness, we expedite germination that results in yield increase. The technology was demonstrated in 59 field trials in Israel (8 crops). The basics of the technology are:

1. Continuous and Fast, within 5-15 minutes the seeds exit the machine into bags. Compatible with standard seed processing operations.
2. No chemicals or water.
3. Low cost, ~ 0.50 USD/Kg..
4. Machines can be manufactured in India
5. Service can be delivered by local seed treating facilities.
6. The end user keeps his growing protocol in their fields.
7. Higher yields, as well as better produce quality.
8. Shorter growing season by week or two from sowing to harvest.



Zeev Hittin
stech@zahav.net.il



WATER TECHNOLOGY



Maagan Filtration

MAAGAN FILTRATION developing innovative industrial water filters with automatic self-cleaning for fine filtration of 1-10 microns. Fine filtration, bordering on 1-10 micron, is a filtration range for which the current market offers few efficient & cost effective solutions with automatic self-cleaning. A reliable high-performance fine filtration, with low maintenance costs has many potential markets, with annual turnover estimated at a few billion dollars (USD).

Maagan Filtration, has unique approach to filtration methods and principles, resulting in number of patents, and more important in two groundbreaking new filters. Maagan Filtration also developed inimitable, patent pending, multilayered yarns for water mechanical filtration solutions

Both our Sheaf Filter and Fiber Disc Filter deliver higher efficient filtration than media filters, at significantly higher water yield. Those filters are an ideal alternative to cartridge filters replacement due to their automatic self-cleaning mechanism Eliminating labor, wear and tear and avoids environmental damage caused by disposable filters.



Uria Berchman
Uria@mmm.org.il
www.maaganfiltration.com

AMS

AMS Technologies develops and markets breakthrough chemically- and thermally-stable UF and NF membranes, significantly improving the economics of inorganic compounds recovery. AMS offers a complete product line of extreme acid, alkaline, solvent, thermal and pressure stable membranes. Our clients use our technology to recover valuable chemicals from industrial product- and wastewater-streams.

They thereby save chemical costs, save the cost of neutralizing and disposing of the chemicals, and enjoy the clear environmental benefits. AMS focuses on the multiple industrial segments, including Mining, Pharmaceutical, Pulp, Rayon, Dairy and Chemicals.



Gil Meirovich
gil.meirovich@ams-tech.co.il
www.amsmembrane.com

AQUA HD

Quality assurance is most important when considering drinking water. Turbidity, the 'cloudiness' of a fluid, is a crucial parameter in determining water quality. cloudiness is caused by solids usually invisible to the naked eye and consists of particles heavy and large enough to settle.

AQUA HD's solution is based on pascal forces. The technology utilizes centripetal forces and gravitational effect to separate the particles. The customization of the solution to the specific application is based on a complex mathematical model and taking into consideration the feed water analysis, and producing the exact required flow structure to produce optimized particle separation.

AQUA HD's solution removes a wide range of organic and inorganic suspended solids and can even remove particles as small as 0.7 micron. The solution is designed as a 'plug and play' device. It has no moving parts ensuring lower maintenance than other solutions AQUA HD technology entails a lower investment compared to traditional purification systems.



Daniel Ityel
daniel@aquahd.net
www.aquahd.net



WATER TECHNOLOGY



Lishtot

Lishtot makes inexpensive products to quickly detect drinking water contamination. Lishtot's first product, the TestDrop, is a handheld keychain device detecting contaminants like E. coli, lead, arsenic, pesticides, and chemicals at EPA/WHO standards. The 2-second test shows a blue or red light indicating the absence or presence of contaminants.

Connecting via Bluetooth to the Lishtot mobile app, users can track their test history and view more data on their water including the likelihood of contamination. No other technology can test such a wide range of contaminants in such a short amount of time and for such an affordable price.

Lishtot would like to bring its technology to India and develop a Test-as-a-Service business model, allowing anyone to order a Lishtot certified tester to their house to test their water and provide on-the-spot results and treatment recommendations. This offering will be particularly useful for checking that water filters are functioning properly.



Netanel Raisch
netanel@lishtot.com
www.lishtot.com

SunDwater

SunDwater main focus is to deliver water scarcity efficient solutions by converting unsafe or salt water into potable water for human consumption or irrigation. SunDwater solutions require no infrastructure or external energy source utilizing natural resources, harnessing solar heat as its energy source. System is environmentally friendly, resolving one global problem without creating another.

The SunDwater solution takes advantage of the world's unlimited sources of salt or unclean water and converting them into fresh water. Over the years several attempts have been made to utilize solar energy as the main power source for the process of heating water, evaporation and then condensation (water distillation). Unfortunately the results were far from satisfying and the achieved fresh water outflow was very small. The SunDwater solution overcomes these problems offering a scalable and cost-effective solution.



Shimon Ben Dor
shimonbendor@gmail.com
www.sundwater.com

Aquallence

Aquallence is proud to introduce "NanoBlue", the world's first Point of Entry Plug & Play grid power-free water purification & disinfection solution for household, residential & Rural water systems. Aquallence's flagship product, NanoBlue, is the most advanced system that guarantees complete "Water Shield" disinfection & purification performance by removal of viruses, bacteria, cysts, arsenic 3 & 5, lead, mercury, iron, odor and chlorine by using grid power-free ozone-based technology.

Aquallence addresses the poor and deteriorating quality of water in both municipal and rural sectors. Rural water is contaminated by micro-biological and chemical contaminants, exposing many rural residents to disease. In addition, the quality of drinking water supplied by municipalities all over the world is rapidly deteriorating. NanoBlue

- Patented miniature ozone disinfection system
- Plug & Play at POE water supply inlet.
- Disinfects entire water systems
- Self-powered with no grid power
- Alert signal capability



Yuval Rodan
yuvalr@aquallence.com
www.aquallence.com



<https://innovationisrael.org.il/English>



Avi Luvton, Senior Director, Asia Pacific Operations
International Collaborations Division
Avi.Luvton@innovationisrael.org.il