

KIC - 2021 Booklet

Discover our startups...

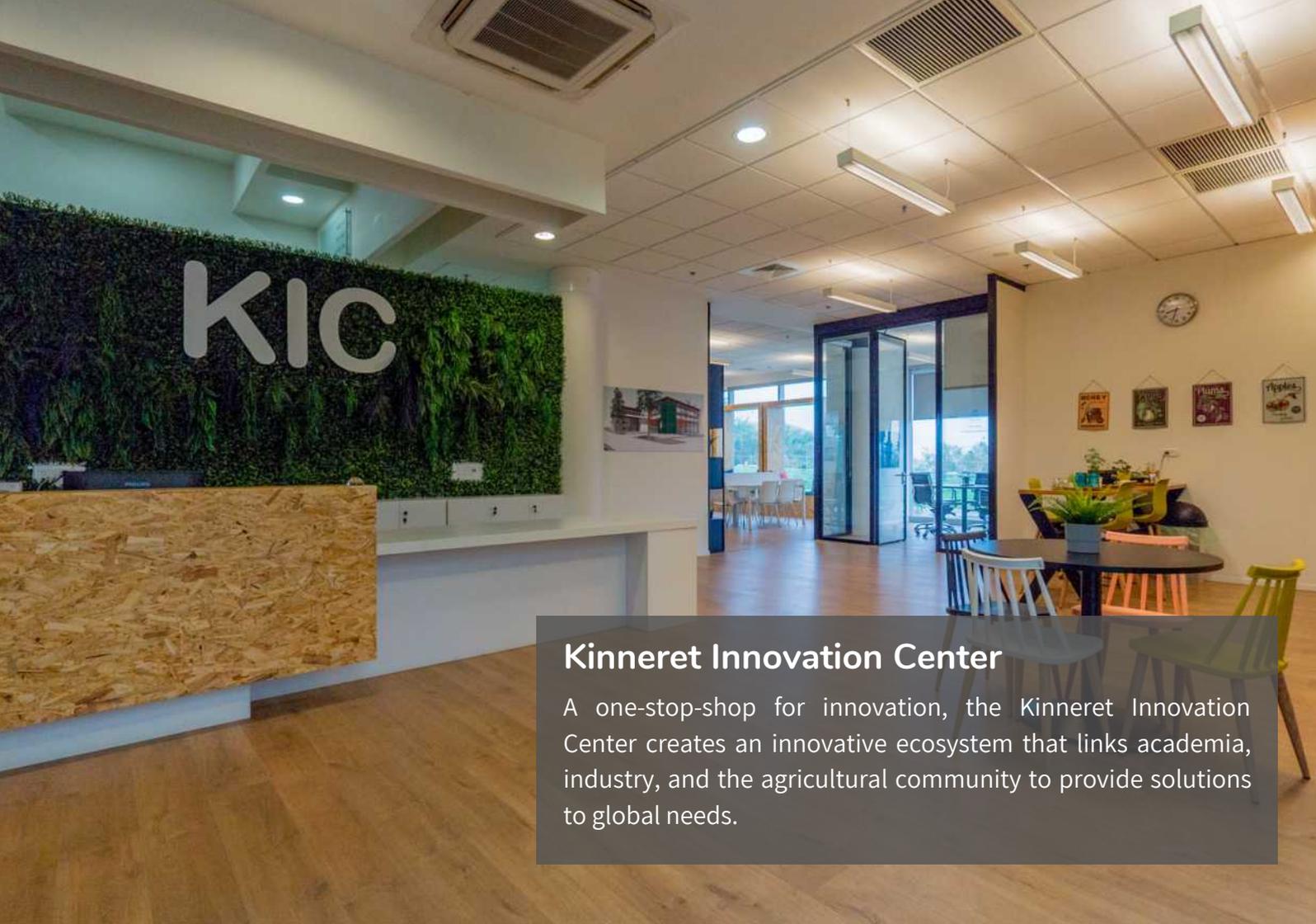
In partnership with



KINNERET

Academic College



The image shows a bright, modern interior space. On the left, a large living wall is covered in green plants, with the letters 'KIC' in white. Below it is a reception counter with a light-colored wood-grain top. The floor is made of light wood. In the background, there are glass-walled rooms and a dining area with a round table and colorful chairs. The ceiling has recessed lighting and air vents.

KIC

Kinneret Innovation Center

A one-stop-shop for innovation, the Kinneret Innovation Center creates an innovative ecosystem that links academia, industry, and the agricultural community to provide solutions to global needs.

KIC Accelerator Class #3



CCOPIB
CÂMARA DE COOPERAÇÃO
ISRAEL - BRASIL CENTRAL



BRAZIL AGTECH LAUNCHPAD



KIC GO GLOBAL Accelerator is a **3-month program** Joint with Brazil AgTech LaunchPad that leads entrepreneurs to build pilots and receive investments from around the globe, especially in Brazil.



During the program, we surround our entrepreneurs with a **wide network** of corporate partners, investors, and alumni.



Each startup gets a **mentor for personal guidance**. The match between the mentor and the startups is tailor-made to the startups' needs.



During the program, we provide **funding and fundraising** opportunities, workshops, lectures, and best-practices sessions with peers and alumni.



On Aug-2021 we opened the application for KIC Class #3 GO GLOBAL program, 8 startups were chosen out of dozens of applications.



KIC Accelerator Class #3 - GO GLOBAL

Bio - Pel #agtech #post harvest

Zorronet #agtech #farm managment

TO BE #agtech #Beehavies

Hydrofeed #agtech #aquaculture

Fruit-OH #agtech #bio-wast

Tamuz Solar #energy #IOT

Landwize #agtech #AI

NPK Tech #agtech #AI



KIC Startup Portfolio

Including graduates of class #1 and class #2

BeFree Agro #Agtech

FabriLoo #Cleantech

NUMBER #Agtech

Plan2Plant #Agtech

Bio-Foam #Cleantech

Turbwind #Green-Energy

AgriWare #Agtech

Cligo #Greentech

Coexist #Agtech

Shalem #Foodtech

VitActive #Foodtech

TODOS #FoodTech

4M Analytics #Data-analytics

Bio-Castle #watertech

Kiinns #Foodtech

NutriLees #Foodtech

Obvislim #Foodtech

Quana #Med-tech

SmartWater #Watertech

Tarritech #Foodtech

Venda Robotics #Foodtech



Bio-Pel

Slow Release Solutions

KIC Accelerator #3

#agtech

#post harvest

Bio-Pel

Bio-Pel is an essential oils slow-release platform technology for extending crop shelf-life in post-harvest applications.

Bio-Pel Advantages:

- Specific formulae for accurate insects targeting.
- Extending the efficacy of the essential oils from a few hours to several weeks.
- Unique sachets for casing the loaded granules.
- Effective in ambient temperatures.
- Organic and biodegradable.
- Cost-effective

Bio-Pe Post-Harvest Applications:

- Sprouts inhibit stored potatoes, sweet potatoes, and Yam.
- Protecting crops in storage from fungus and insects' pests damages.
- Protecting crops in shipping containers.

ZORRONET



KIC Accelerator #3

#agtech

#farm management

Zorronet is a robotic control room that prevents invasion of wildlife and bandits to open wide (private) areas aiming to cause damages to equipment, agricultural products, and human life. The team developed a unique virtual controller based on artificial intelligence and algorithmic decision-making to detect and identify the threat in real-time and proactively manage the incident autonomously by taking actions relevant to the specific object.

Innovative Zorronet platform is composed of field-deployed devices and a mobile app in addition to the cloud-based controller, all together allow our customers to have a safe environment, reduce significant financial losses, and the ability to share online information with nearby users, family, and security forces.



TO BE

ToBe
Varroa-Free Beekeeping

KIC Accelerator #3

#agtech #Beehives

ToBe addresses the challenge of the global food supply by a disruptive technology that fights bee colony losses.

The global beekeeping industry experiences annual beehive colony losses of 25%-50% caused mainly by the varroa mite: a bee parasite that inoculates the bees with viral diseases. Existing solutions are ineffective, labor-intensive, and induce mite resistance

ToBe developed the world's first automated technology that ensures varroa-free beekeeping year-round and turns every hive into a smart hive.

TO BE business model is based on disposable cartridges & SaaS
large apiaries in Israel already signed orders to purchase 1200 units, 500 already deployed.





Hydrofeed

KIC Accelerator #3

#agtech #aquaculture

Hydrofeed developed a Waterborne feeding system for the aquaculture industry which is simple, innovative, cost-effective, and dramatically improves the farm sustainability footprint.

Our dynamic novel design allows us to support any species, farm size, and growing application.

Our system presents an 80% energy reduction of black diesel generators' power compared to the existing pneumatic feeding solution. We are elevating Animal welfare, reducing food waste, and eliminating microplastic discharged into the environment.

Hydrofeed solutions meet the ongoing changes in our boosting market: The aquaculture industry goes under groundbreaking modernization and consolidation that pushes the need for cost reduction, digitalization, standardization, and environmental Constraints.

Our prototype was sold to an Israeli sea-cage farm with significant indications. We are ready for commercial pilots, open to harnessing local partnerships and alliances to keep our success journey into the market.



Fruit - OH



KIC Accelerator #3

#agtech #bio-wast

We are Fruit-OH. We have devised an innovative "one size fits all" process for the conversion of fruit waste to Bioethanol – a lucrative and clean-burning biofuel and fuel additive that has very high global demand. A lot of the fruit grown today never make it to the consumer. This has many reasons, but mostly it is the price we pay for storage, shipping, and marketing. 10-50% of fruit are discarded prior to marketing. What is done with fruit waste today? Mostly, nothing... it goes to landfills and farmers actually pay by the ton to have it removed. The very same waste that the farmers pay to have removed could become a source of income while creating a clean biofuel.





KIC Accelerator #3

#energy #IOT

Tamuz Solar

Supplying energy where it's needed most

Tamuz Solar Technologies provides an all-in-one efficient, off-grid energy source for agriculture, precision farming, water technologies, smart cities, autonomous systems, rural and remote areas, security & defense, IoT, and other applications. Tamuz Solar's off-grid maintenance-free solar systems are a must-have whether monitoring and controlling farming processes, monitoring environmental factors (weather, soil, water), or ensuring flawless connectivity with and within remote areas.

- Efficient, compact, innovative, long-life solar energy source.
- A high-performance system, making it possible to use digital IoT & technological devices at any location.

SUSTAINABLE! COST-EFFECTIVE! EASY TO INSTALL AND OPERATE!

- Flat and compact Solar System.
- All-in-One advanced energy storage with high conversion technology.
- Embedded communication software with special charging technology.
- Maintenance-free & Safe operation.
- Long system lifetime of 5 years and more.



KIC Accelerator #3

#agtech #IOT

Landwize

LandWize is a precision agriculture application, aimed for small-medium farmers.

The essence of LandWize is providing an Agricultural ID for every given location on earth. The ID will use satellites data and sophisticated algorithms to provide information such as plot growth status, stress problems, micro-elements, and other significant factors – for farmers, agronomists, and decision-makers.

LandWize allows large flexibility in utilizing the information by small and medium-sized farmers (90% of the world's farmers) - which does not have a valid alternative today. It will help them thrive from traditional to advanced agriculture and provide food security for their communities.

The business model is based on a large number of users adopting the tools and will be supported by governments, aid organizations, and agricultural input companies that will use the tools for direct contact with the farmers.

Our aim is to expand LandWize to other open landscapes users like ecologists, landscape architecture, forestry, marine biologists, insurance, and more.





NPK tech

KIC Accelerator #3

#agtech #IOT

NPK tech

NPKtech is a multidisciplinary group of farmers and engineers. This non-trivial encounter enabled us to develop a method that reduce fertilizers use by 70%.

Our method is based on our ability to grasp the plant's needs in real-time in order to supply its exact needs to reduce drastically fertilizing.

We save money, improve soil quality, and reduce dramatically environmental damage





KIC Startup Portfolio

#agtech #livestock
#autonomous drone

BeFree Agro

BeeFree Agro is developing the first AI-based autonomous drone platform designed to disrupt the livestock industry, advancing it to the 21st century.

Answering one of the greatest needs of livestock growers – controlling the location and movement of livestock in open pastures, BeeFree Agro develops autonomous drone-based solutions for herding livestock.

Utilizing and integrating cutting-edge technologies combined with our patented algorithms and professional expertise, BeeFree Agro's unique offerings are:

- Significant reduction of manpower - requires only one operator
Minimizes time spent on herding and logistics
- Significant decrease in vehicle wear and tear
- Catering for animal welfare and reducing stress in the herd
- Reducing carbon emissions and footprint

BeeFree Agro actionable solution bridges the gap between ranchers and technology and provides a point of entry for additional innovative tech solutions.



KIC Startup Portfolio

#Cleantech #impact
#sanitation

FabriLoo

FabriLoo - WasteNot sanitation systems

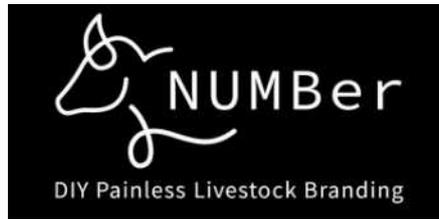
FabriLoo's off-grid sanitation system is a 'sewage treatment plant in a bag'. Made out of innovative composite mix matrix membranes, it actively treats and reduces human waste by a factor of 10. It is waterless, safe for people and the environment, cost effective and scalable.

A technology that can be implemented in: Disaster response; Nature parks; Urban slums; Government / military uses; and any place without infrastructure.

Embedded into common portable toilets, a market of \$18.3 Billion, our system can actively treat the waste, greatly extend the time between services, and reduce approx. 80% of operation costs. Dramatically saving manpower and environmental harm.

FabriLoo's systems solve an urgent need - a social and environmental worldwide challenge, while providing Clean, WasteNot sanitation for everyone.





KIC Startup Portfolio

#biotech #agtech

NUMBer

Individual animal identification is essential for dairy farmers to properly manage their herd. Farmers currently identify each one of their animals by using a serial number. One method to mark animals is freeze branding, which “burn” the number onto the animal's skin, permanently their entire life.

This traumatic method causes animal pain and stress. For calves, such trauma can damage their growth, hurt impair their immune system, increase illness and medical expenses.

In order to work efficiently, farmers accept this painful process.

There are currently more animal-friendly brands like ear tags or collars, however, they are less visible.

NUMBer is a product intended to replace the freeze branding to a new painless and humane method for branding livestock.

Each farmer will be able to brand their herd with a set of numbers, which will function using a biochemical patch.

The product will leave a highly visible and permanent number on the cows without hurting them.



Plan2Plant

Plan2plant is a decision-support system that provides insights & recommendations for farmers' planting plans.

Today, farmers struggle to make the right decision of what to plant given the many parameters to consider and synthesize (ie. soil, climate, plot rotation, cost).

They lack time, access to specialty consulting services and shared knowledge, which ultimately results in “conservative bets”.

Our investment planning of agricultural assets uses a smart algorithm to give insights regarding crop to plot fit, costs, risks, yield quality and quantity, time & duration, and markets.

It helps the farmer decide what, where & when to plant for optimal financial results using a software that analyzes the unique customer, crop, environment and market, planning for the best fitted full value chain

KIC Startup Portfolio

#agtech #farmmanagement



Bio-Foam

KIC Startup Portfolio

#Cleantech #student project

A circular economy innovation:

Turning the waste of olive oil production, into raw material for the production of an ecological foam-based novel material: disrupting the markets for packaging and foam-based insulation.

1. Feeding diluted Olive Oil Mill Wastewater (OMW) into a microorganism – saturated water.
2. The bacteria from a thick and greasy foam on the surface of the water.
3. The foam is solidified in a biochemical process to create an environmentally friendly, ecological foam.



Turbwind



TURBWIND
Win With Wind

KIC Startup Portfolio

#greentech #student project

Today it is generally acknowledged that EV, Hybrid, and Plug-in vehicles are limited in battery charge and driving distance. In addition, there is considerable loss due to the resistance to the wind of electric vehicles, in particular the ability to partially recycle some of the energy to the battery. Many people are skeptical about the benefits of electric cars because of their limited distance and dependent on EV charging stations with a long loading time. In general, too much wind energy is lost in vehicles.

We provide a system with a mini-air turbine yielding high power compliance and excellent performance for recycling airflow to charge the battery in vehicles under optimal conditions. Our project can prevent air pollution by using renewable energy. We can provide a solution to the two main problems by using a unique system that embodies special turbine and air ducts that increase the vehicle's resistance only when this is desired, thereby improving battery charging and vehicle braking.





AgriWare

We grow technology...

KIC Startup Portfolio

#automated #tree thinning

AgriWare

AgriWare's system optimizes the tree thinning process (chemical or mechanical) in deciduous orchards using their own proprietary technology. Each tree is thinned according to its actual physical condition.

The system eliminates variance, increases each tree's yield, and the plot becomes uniform while saving labor expenses. Using AgriWare's system, growers more than doubled their yield (217%) compared to control plots, in 2019.

In recent years, AgriWare has been implementing its proprietary technology at the orchards of six pilot growers in the Golan heights. We are planning next year's commercial activity (2021) with several more growers and in-sync with "Pri-Beresheet", Israel's apple growers association.

KIC Startup Portfolio

#machine learning

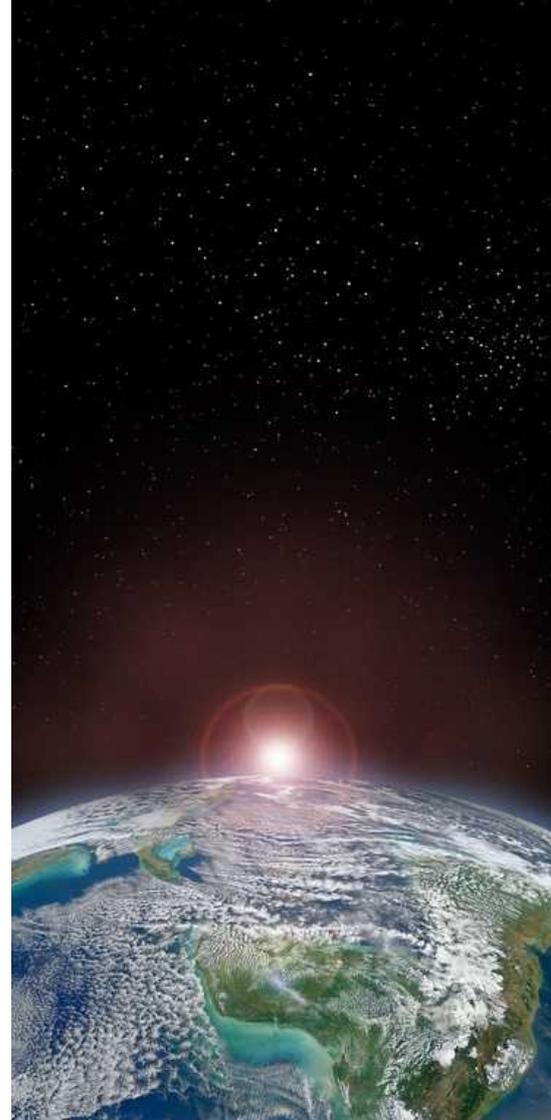
#climate change

Cligo

Cligo

Cligo is an Israeli startup working to mitigate the effects of climate change in agriculture and related fields by helping them to adapt. Their technology uses Machine Learning to enhance productivity in the agriculture field.

With a successful pilot program with Israel's Ministry of Agriculture, Cligo is looking for partners and investors.





KIC Startup Portfolio

COEXIST

#smart farming
#precision agriculture

Coexist

COEXIST aims to shift milk & beef industries from productivity decision making to efficiency and profit criteria. Farmers are able to communicate with cows by using Coexist's smart gates, enabling the farmer to stipulate the cow's feeding time and locations. Hence, the farmer can measure and analyze each cow's individual data such as food efficiency and profitability, and have data driven nutrition feeding. The farmer controls the smart gates using IoT, making the farmer and the cows more relaxed. Overfeeding can be minimized which means healthier cows, reduced greenhouse gas or wet manure production and less need for cow feed production etc.

Through the smart gate, the cow also has access to its calf. The cow recovers faster, experiences less negative health effects from calf birth and there is no separation shock or stress for both cow and calf.



KIC Startup Portfolio

#Foodtech #Superfood

Shalem

The superfood we consume today is not “super” or fresh anymore. It goes through industrial manipulation and a wasteful value chain consisting of massive pesticide and fertilizers use, processing, packaging and shipping. This results in low product quality and significant environmental cost, making the “green” food a bit “smoky”. At Shalem, they take those agricultural and industrial processes and squeeze them into one small standalone appliance, on your kitchen countertop. The appliance produces microalgae 24/7 to provide top tier superfood with maximal quality and freshness while spending minimal effort and cost. Be it PUFAs for focus or carotenoids for anti-aging properties, Shalem allows for better health and sustainable on-demand nutrition at the push of a button.

Shalem - Redefining Superfood





TODOS

Todos Technologies – the future of food sensing

More than 40% of the fruits and vegetables for human consumption gets lost or wasted.

Knowing exactly when they are ready removes waste and ensures that food stays fresh longer. We can do it with the TODOS GMOS ethylene gas sensor.

Our breakthrough sensor is compact, low-cost, and cable-free. It helps to monitor fruit freshness throughout the supply chain and reduce food loss.

Our system benefits from the actual data of the fruit's atmosphere:
1st stage: Alarm of high ethylene level and accumulated level throughout the container transportation.

2nd stage: AI with shelf-life prediction.

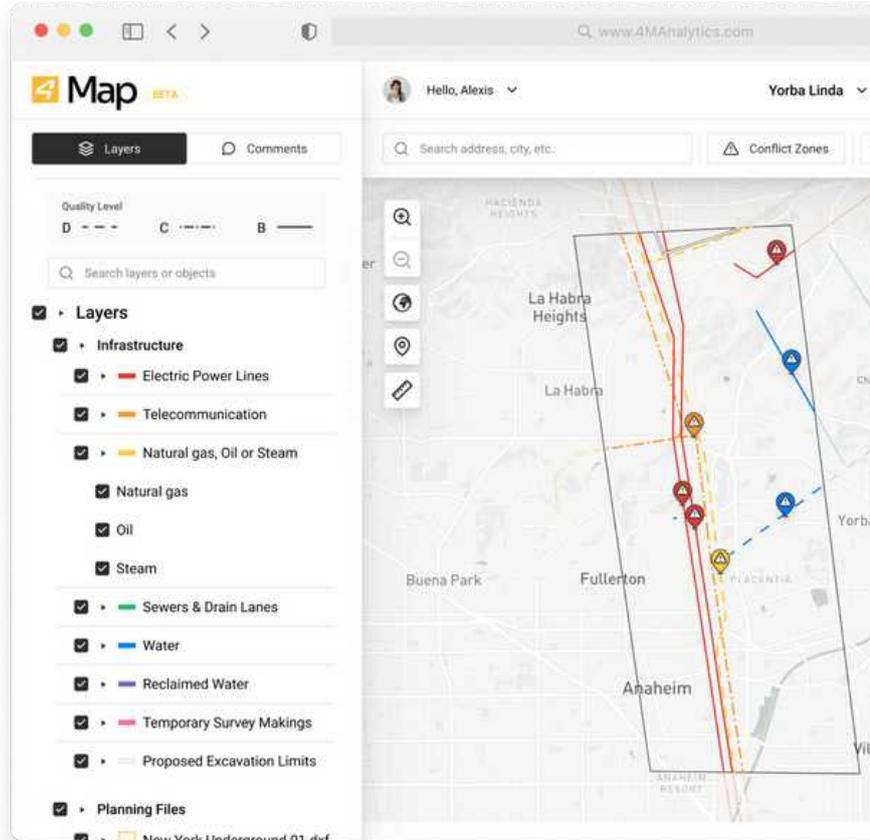


4M Analytics

4M Analytics is a subsurface-infrastructure geo-data company founded by satellite and subsurface engineering experts.

The innovative platform we developed produces detailed high-accuracy mappings of the subsurface, making it possible to pinpoint any known or unknown utilities or infrastructure within a given area.

By combining remote sensing and computer vision, our system generates digital mapping simulations with reliable current data in a very short timeframe. Our solutions are designed to maximize efficiency, prevent delays and budget overruns, utility relocations, and safety issues for construction and infrastructure projects in any scale.



KIC Startup Portfolio

#microbiology #water treatment

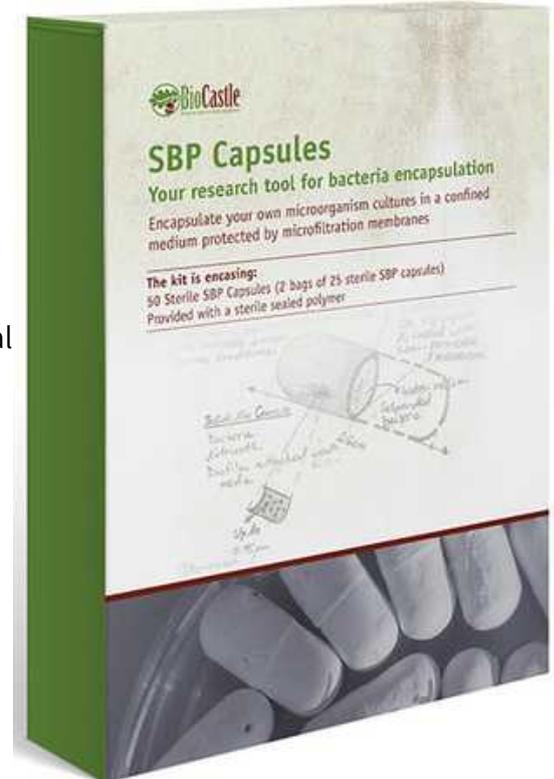


Bio-Castle

Bio-Castle manufactures and sells a proprietary solution for biological wastewater treatment.

The solution is based on its SBP (Small Bio-reactor Platform) technology which treats the contaminants in the water while:

- Maintaining rapid biodegradation rate
- Keeping it simple to operate
- Lowering capital and operational expenses





KIINNS

KIC Startup Portfolio

#Foodtech #Food-Safety #Industry 4.0



Kiinns

Kiinns is a food-safety startup at the intersection of Foodtech and Industry 4.0.

With cleaning processes in the food industry being the source for foodborne illnesses and a huge environmental impact, Kiinns invented a technology that, for the first time ever, completely eliminates cleaning processes in food production lines.

Kiinns' technology prevents foodborne illnesses, saves lives and makes our environment cleaner and safer while dramatically cutting costs for food producers.



NutriLees
Sustainable Food Source

NutriLees

From WASTE to SUPERFOOD to Sustainable & Nutritious Food Products

NutriLees turns wine industry waste into Superfood and uses it to produce sustainable and highly nutritional food products based on circular economy principles.

NutriLees' 3 Value Propositions

- NutiLee's unique multi-phase process will increase wineries profitability.
- We will supply the food industry a tasteless SUPERFOOD loaded with proteins, dietary fibers, and minerals.
- We will offer NEW AGE consumers delicious, sustainable, highly nutritional, clean label, post biotic, vegan food products made with upcycled ingredients.

KIC Startup Portfolio

#biotech #obesity #diabetes



Obvislim

Obvislim is a biotech startup company specialized in providing novel solutions for obesity and diabetes (diabesity). The team developed a unique oral formulation that enables customers to enjoy tasty meals while significantly reducing calorie intake by limiting the absorption of fats and sugars in the small intestine (SI). The product is consumed as a beverage prior to large or indulgent meals. Once the formulation reaches the SI, it creates a very thin protective layer on the inner walls of the SI which acts as a temporary barrier, partially limiting the transportation of nutrients into the bloodstream. The product has a high safety profile, is transient, and can be used repeatedly. It also addresses market trends – as a quick, easy to use, and affordable solution based on natural ingredients.

Obvislim has raised funds (cash and services), patented their technology, and successfully tested it on animals. Preparing for the clinical trials as the next step.





KIC Startup Portfolio

Quana

#Electronic Health Records

#Medical Cannabis

Innovative Olfactory platform for real-time monitoring of medical cannabis

- Allows correlate it to best-fit to patients
- Enhance personalize treatment
- leveraging data analytics
- Providing consumer accurate and personalized decision support system when using Cannabis for medical treatment.

The platform is composed of a portable device, mobile app, and cloud-based AI algorithms.

The system allows patients to have safe and personalize cannabis treatment, provides physicians the ability to give an accurate recommendation for specific cannabis treatment to their patients, evidence-based.

The system allows marketers, to significantly improve profitability due to the ability to provide a quality, safe, and customized product that enables differentiation, branding, and raising the value of the product and the quantity consumed from it in a competitive and challenging market.

KIC Startup Portfolio

#low-cost #water treatment



SmartWater

Founded and globally managed from Israel, SMARTWATER GROUP aims to ensure opportunities for both the creation and collaboration of emerging and existing water treatment technologies that provide the greatest opportunity for integration regardless of geographical location or financial circumstances. Their core principle is to ensure that effective, low-cost water treatment solutions are readily available for Personal, Household and Community applications for people currently having limited or no existing potable water supply. Additionally, SMARTWATER GROUP provides its expertise and support in Emergency Water Planning, Emergency Water Supply and Emergency Water Preparedness for countries and communities that are frequently affected by natural disasters or war-related instability.





KIC Startup Portfolio

#fresh produce #protection



Tarritech

TarriTech has developed a unique delivery system which effectively and repeatedly operates to prevent the decay of fresh vegetables, fruit and herbs. Fresh produce is exposed to a controlled profile of volatile compounds for a short period before storage or transport.

The volatile compounds, each with a specific biological activity, are contained in a mixture of selected essential oils which prevents the decay caused by several types of microorganisms. The system is tailored to specific crops and designed to integrate into existing packing house processes.

KIC Startup Portfolio

#autonomous #food prep



Venda Robotics

Venda Robotics is using robots and software-based operations to prepare and serve healthy food across the globe.

In partnership with global leaders Flextronics and Hahn group, their first product is scheduled to launch in spring 2021.

It is a fully autonomous smoothie stand where a Collaborative Robot greets customers and then prepares a range of sugar-free vegan smoothies from superfood and fruits.



KINNERET INNOVATION CENTER

Israel's leading tech-hub for
agriculture, water and sustainability



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