SparkLabs
GROUP

Venture Capital Trends in Sustainability and Climate Change

SPARKLABS GROUP

WWW.SPARKLABSGROUP.COM

SparkLabs Group is a network of startup accelerators and venture capital funds, which was founded in 2013.

We have invested in over 300 startups across 6 continents. We have presence in Silicon Valley, Seoul, Singapore, Taipei, Hong Kong, London, Los Angeles, and other locations.

Our team previously has led investments in **Siri (sold to Apple), DeepMind (sold to Google for over $500M), Ping An Good Doctor ($7.45 billion IPO), Spotify (investor & board member), Studio Ex (co-founded, sold to Disney), Hostway (acquired by a PE fund), Kiva.org (co-founded)** and others.

SparkLabs VENTURES

SparkLabs Cyber + Blockchain

SparkLabs FRONTIER

SparkLabs FinTech

SparkLabs Global Ventures

SparkLabs Cultiv8

SparkLabs GLOBAL CAPITAL

SparkLabs TAIPEI

SPARKLABS GROUP

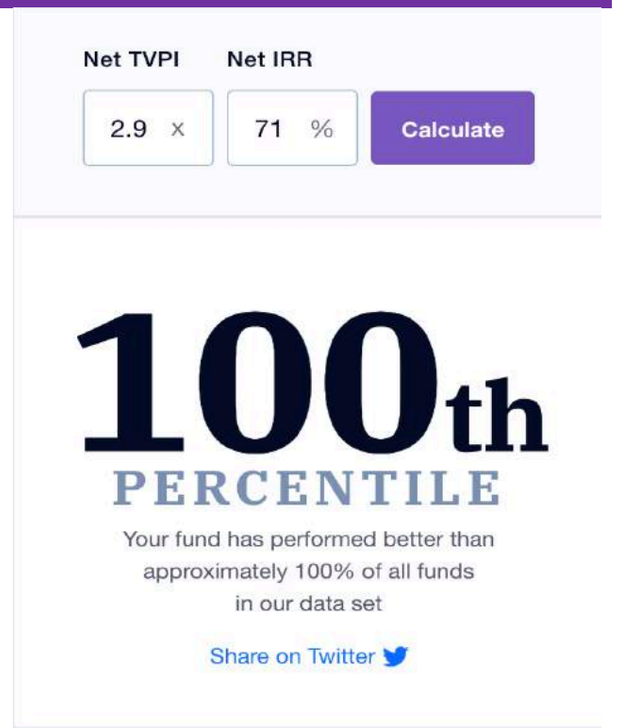
SparkLabs Group was the only venture capital firm (or any investment company) in the world to be recognized in Newsweek's 2019 Top 100 Smart City Partners Awards

THE Newsweek MOMENTUM AWARDS

TOP 100 SMART CITY PARTNERS – THE NEWSWEEK MOMENTUM AWARDS

Strong deal flow and performance. For example, Korea Accelerator Fund II beat 100% of funds in Angel List's performance calculator, which includes hundreds of VC funds on their platform plus data from Pitchbook and Cambridge Associates.

Facebook chose SparkLabs Korea to run their Innovation Lab Korea in 2018 and 2019.



Investment Thesis for Sustainability

Clean Energy & Energy Transition

- **Exploring new areas of energy and energy development, biofuels, battery storage and other areas.**

Mobility and Future Transportation

- **New electric vehicles, autonomous vehicles, creating efficiencies aviation, and other solutions.**

Investment Thesis for Sustainability

Smart Agriculture & Land use

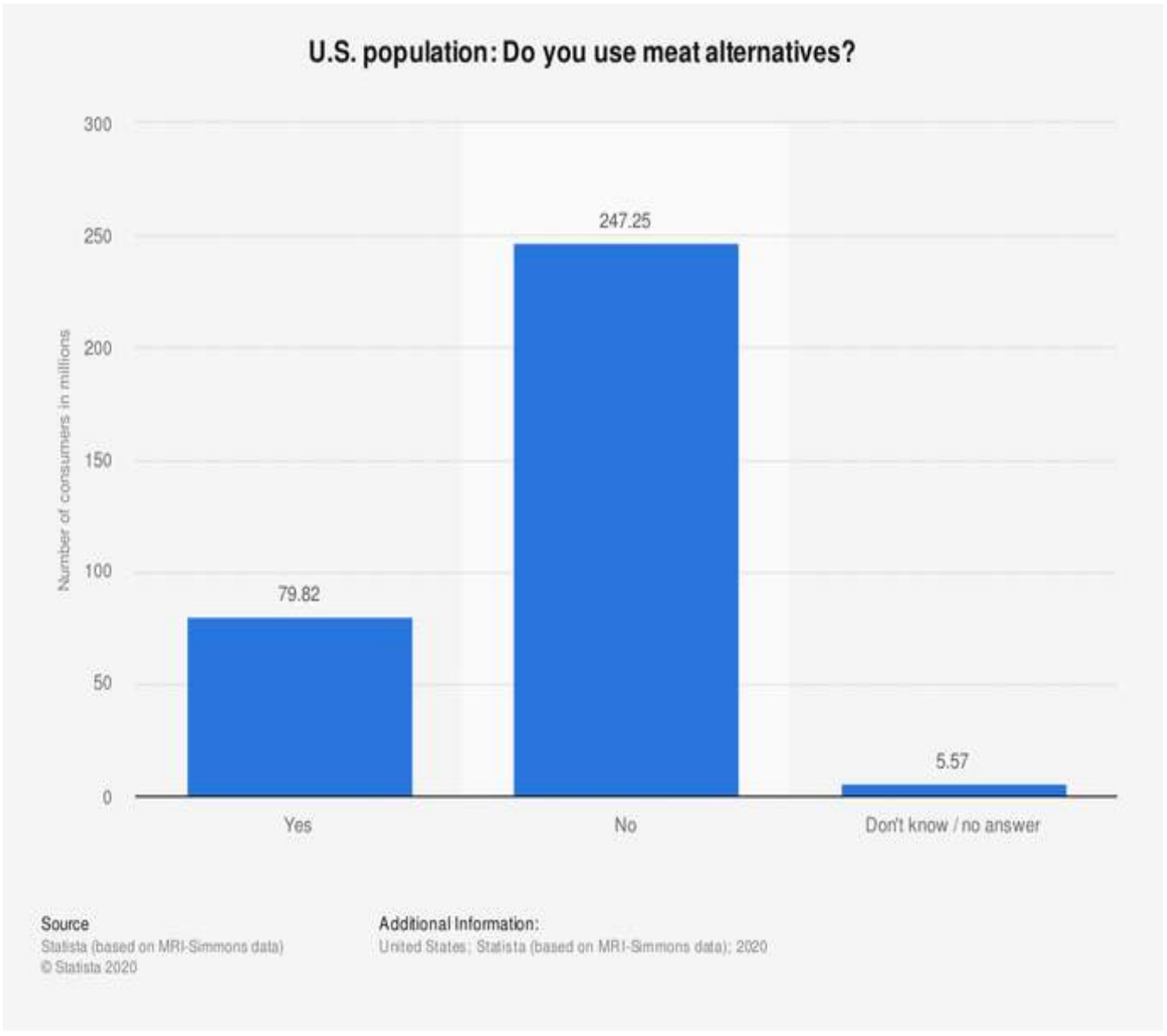
- **Creating efficiencies in agriculture and food development, better land use, forest preservation, and other areas to make our world sustainable.**

Reducing Carbon Footprint

- **New sustainable foods to smart manufacturing to smart building materials to new carbon neutral platforms.**

Growth of Meat Substitutes

Growing Beyond Beef



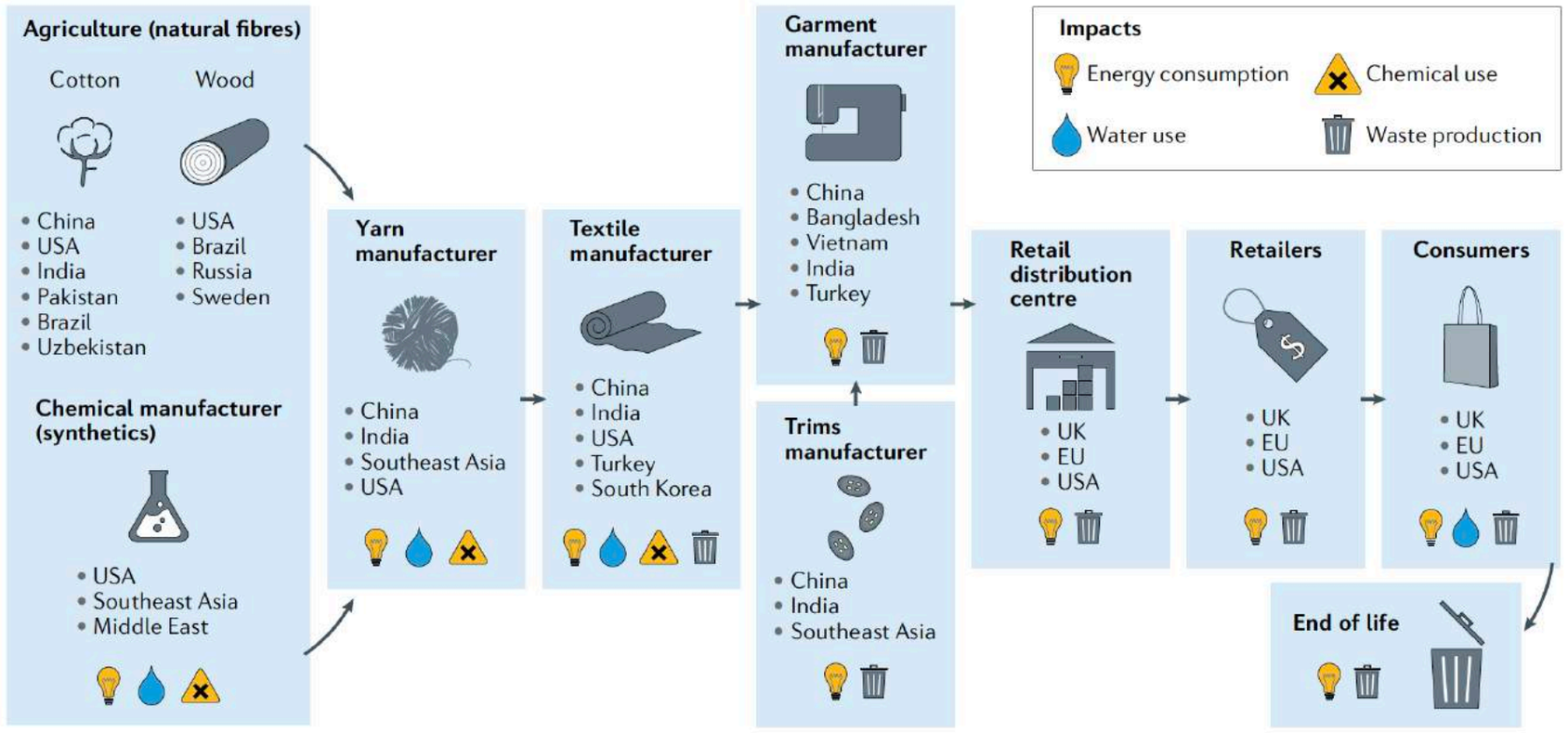
- **Approaching mainstream tipping point. In 2020, 24% of the U.S. population or 79.8 million people use meat alternatives.**

- **Innovation continues across all meat categories**

Circular Economy & Slow Fashion

Fast Fashion's Impact

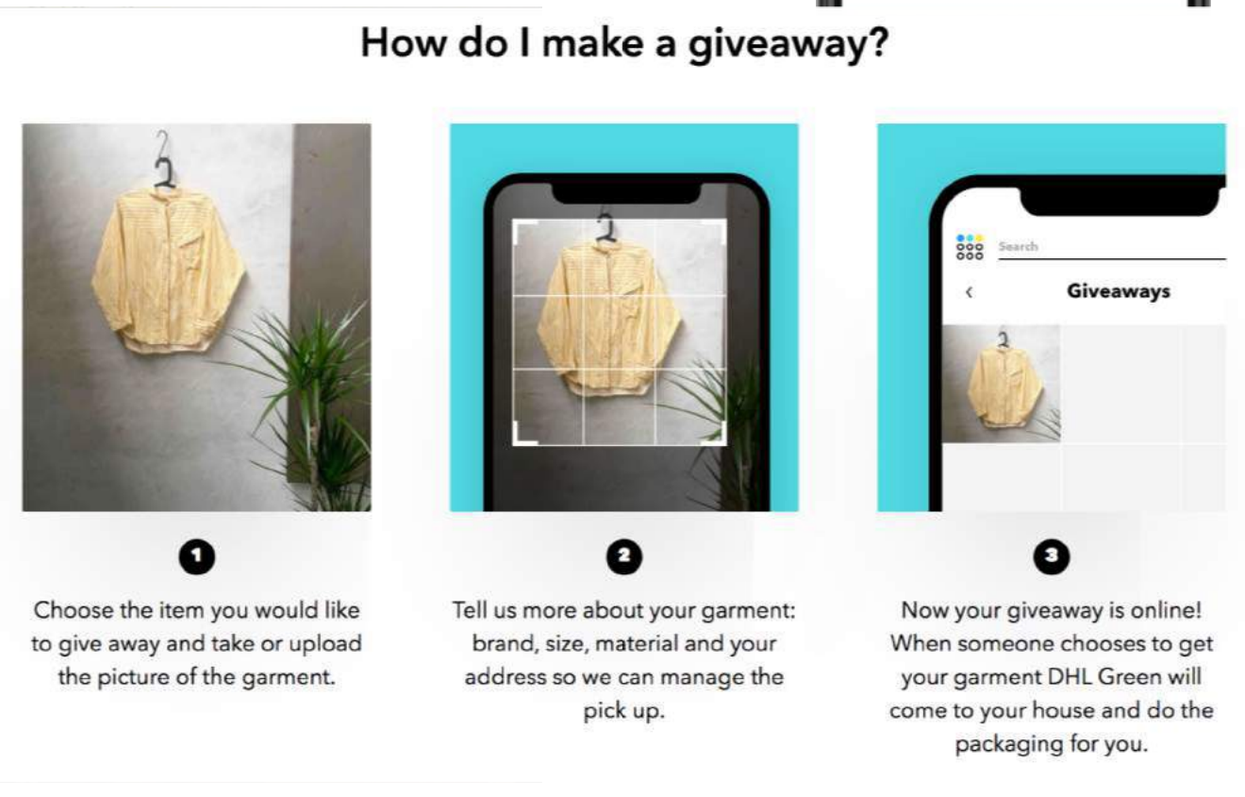
- **Each year 92 million tons of waste produced in fast fashion**
- **And 79 trillion liters of water consumed by the industry**
- **Textile industry might be the cause of up to 10% of global greenhouse gas emissions**



Existing Portfolio: *Lablaco*

Paris, Milan, Taipei

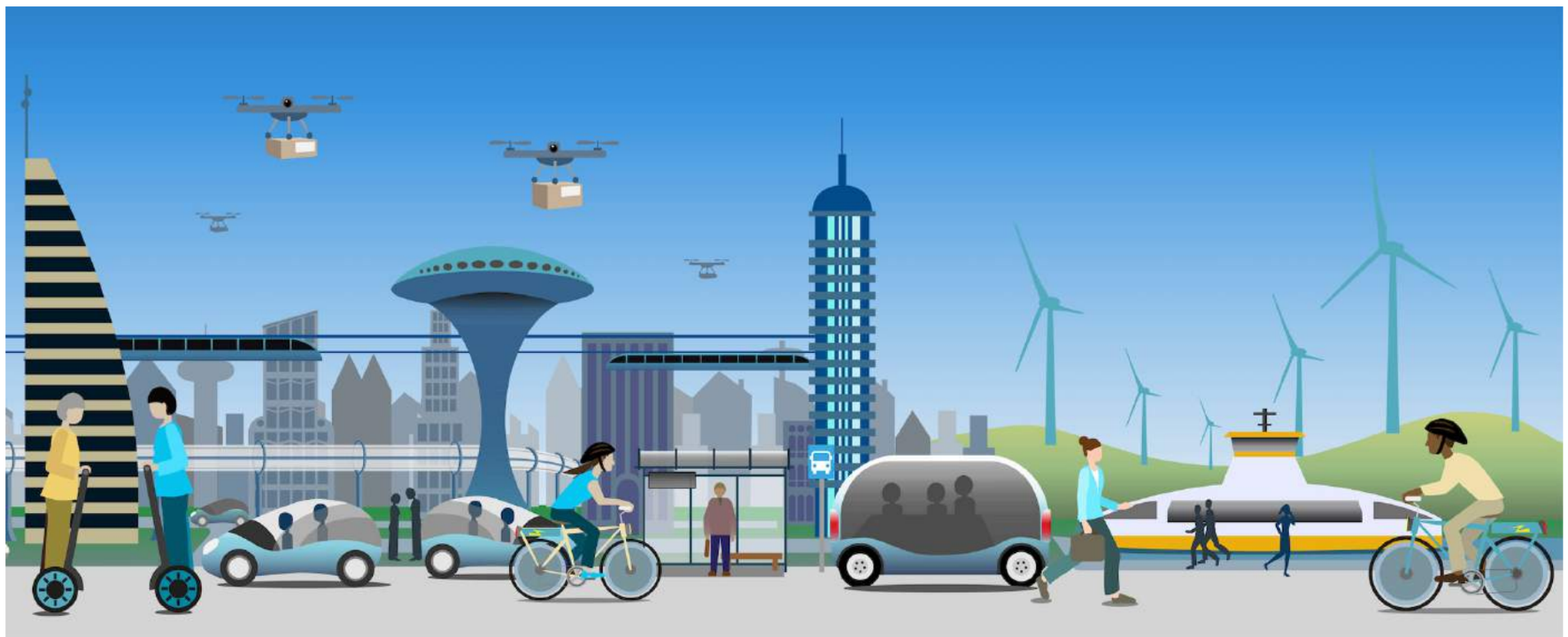
Lablaco is circular fashion platform to promote sustainability. They provide brands and retailers an ecosystem and platform that is transparent and traceable. As a consumer, you can help the planet by giving away your preloved clothes and receiving your impact calculation, being rewarded with discounts to shop designer fashion worldwide through shoppable content.



Shifts in Mobility

Conflicting Trends

- **Increased shift towards suburbs, and shift towards hyperlocal mobility**
- **Permanency of work from home policies is a question**
- **Shift towards electric (EV)**



Clean Energy Transition

Next Steps After Fossil Fuels

- **Renewable energy powers 28% of the world today**
- **Transition to renewables, nuclear and hydrogen?**

- **Increased research and innovation is needed to provide certainty in our energy transition**

SELECT INVESTMENTS

ACROSS

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Existing Portfolio: *Hydroleap*

Singapore

Hydroleap was invested by SparkLabs Global Ventures, our global seed fund, and then went through SparkLabs Cultiv8 (AgTech, FoodTech & Sustainability accelerator).

Hydroleap

We make industrial wastewater treatment cheap, fast, and easy

Water/Wastewater Treatment

Electrical Treatment (Electrocoagualtion)
Wastewater Pre-treatment

Sludge/Slurry Management

Solid/Water Separation
Dewatering

Existing Portfolio: *TreePlanet*

Seoul

Through Tree Planet mobile game, **over 860,000 trees have planted in the real world**. Through sponsorship and advertising in the mobile tree planting game, revenue is generated pay for tree planting across the globe.

TreePlanet was invested by SparkLabs Korea, our accelerator in Seoul. It was the first nonprofit admitted to our accelerator

Startup plants forests with crowdfunding, mobile game

Tree Planet's volunteers are known as "Tree People."

Existing Portfolio: *Mighty Buildings*

Oakland, CA

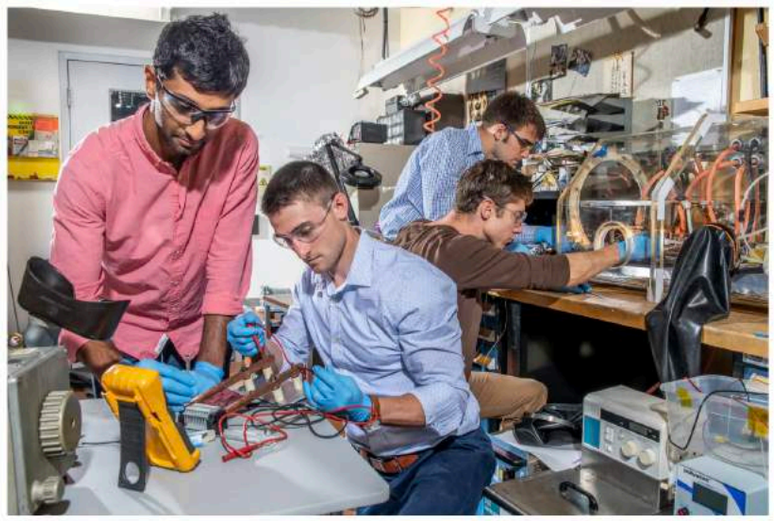
Mighty Buildings is construction technology company based in Oakland, CA that is innovating the construction industry by creating homes that are beautiful, affordable, and sustainable using 3D printing, robotics, and automation.

INSIDER

Premium HOME > SCIENCE

VCs share the 46 climate-tech startups that are set to soar in 2021

Benji Jones Dec 30, 2020, 6:20 AM



Climate-tech startup Antora Energy is developing batteries that store energy in the form of heat. The startup's team from left to right: Tarun Narayan, David Bierman, Justin Briggs (seated), Andrew Ponec Antora Energy

- VCs are pouring money into climate-tech startups developing everything from batteries to machines that capture carbon emissions.

POPULAR WITH SUBSCRIBERS

Goldman Sachs' CEO David Solomon wants people back in the office

Forbes

Oct 4, 2020, 11:53am EDT | 5,464 views

Mighty Buildings' 3D-Printed Homes Points To The Future Of Sustainable Housing

Curtis Silver Senior Contributor

Consumer Tech

Writing on Consumer Tech & Social Media with a satirical, cynical edge

Mighty Buildings 3D-Printed Home MIGHTY BUILDINGS

There is a problem with housing in this country. From decades of bad public housing policy to retrofitting the suburbs for sustainability to near consistent affordable housing shortages, we have to start looking at more innovative housing solutions. Not looking to solve all that, but certainly falling somewhere within the mix is Mighty Buildings, an Oakland based company 3D-printing generally affordable homes. All

Existing Portfolio: *Aquabyte*

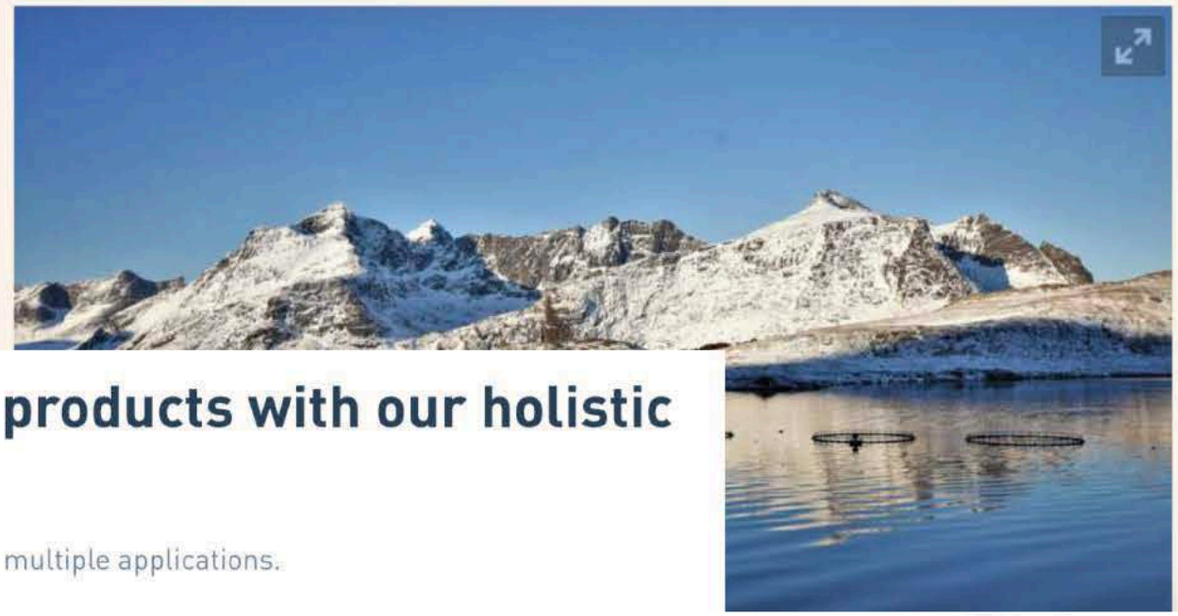
San Francisco

Aquabyte seeks to solve the food problems of the world by **optimizing aquaculture through machine learning.**

The company was invested by SparkLabs Cultiv8 (AgTech, FoodTech & Sustainability accelerator).

Machine learning firm Aquabyte eyes growth after $10m fundraising

By Undercurrent News June 12, 2019 09:35 BST

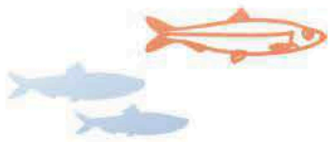


Aquabyte surpasses modern farm monitoring products with our holistic software platform.

Our solution offers easy installation, continuous monitoring and multiple applications.

Lice Counting

Industry leading sea lice recognition and counting enables preemptive decision making.

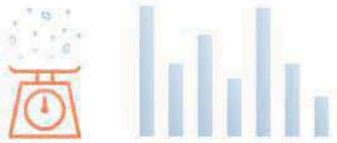


Biomass Estimation

Biomass estimation and distribution at any point in time allows accurate projections.

Appetite Detection

Accurate appetite detection improves rates of feed conversion while reducing waste.



Feed Optimization

Recommended feed amounts are calculated based on fish size and activity.

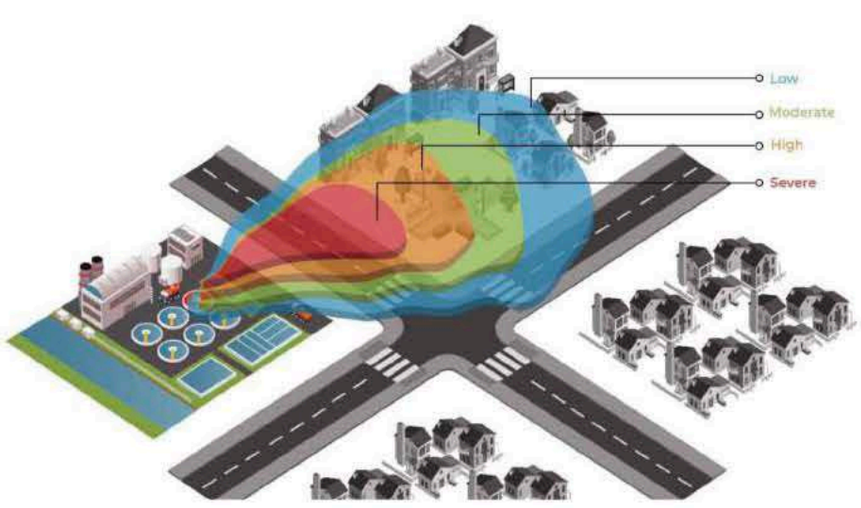
Existing Portfolio: *Oizom*

Ahmedabad, India

Oizom provides a comprehensive and scalable solution for **real-time environmental data monitoring and analytics for air pollution.**

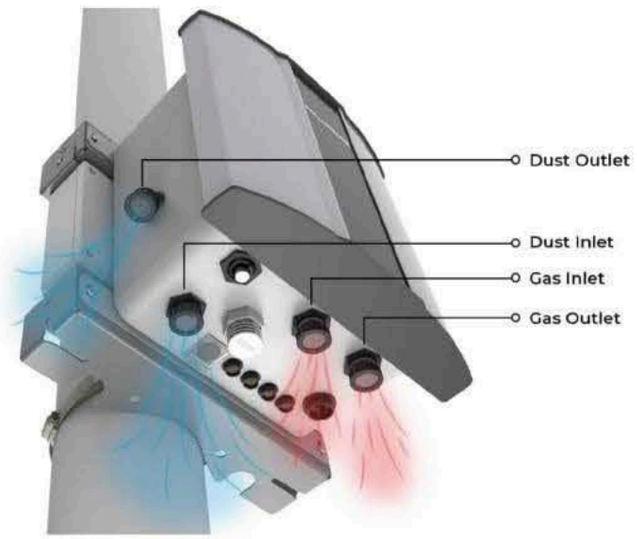
OIZOM
REDEFINING RESOURCES

Products | Solutions | Usecases | Case Studies | Partners | Contact



Impact Assessment on-the-go

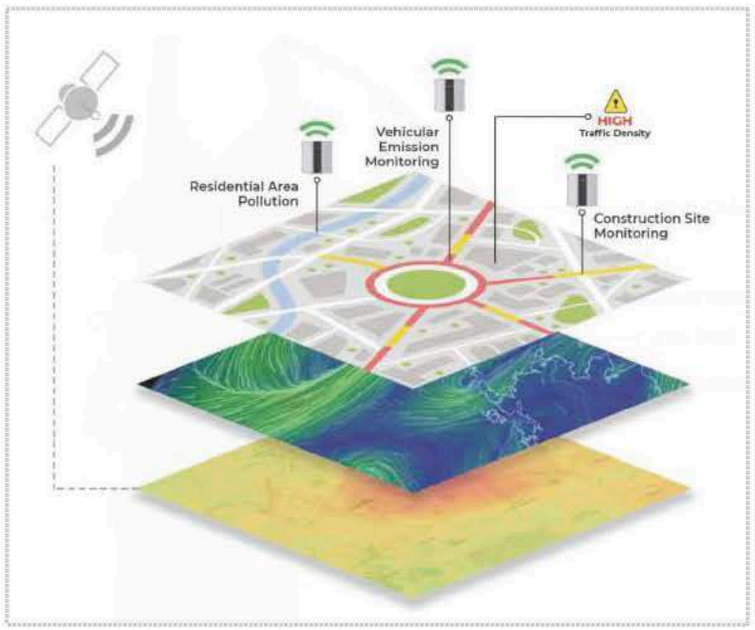
Live dispersion modelling enables real-time environmental data monitoring. Observe the pollution plumes to identify the source and implement preventive actions immediately to reduce further risk.



100% Active Air Sample Monitoring

Through our intelligently designed sampling system, air monitoring is completely isolated from the external influence. Data stability and accuracy allow performing on-the-spot sensor calibration.

Request a quote



Existing Portfolio: *Arable*

Princeton, NJ

Arable is a smart agricultural business intelligence solution founded on in-field measurements. Arable enables data-driven decisions in agriculture and natural resource management with measurements that matter.

Capture. Predict. Act.

A **global solution** to managing **weather risk and crop health**, delivering **real-time, actionable** insights from your field.

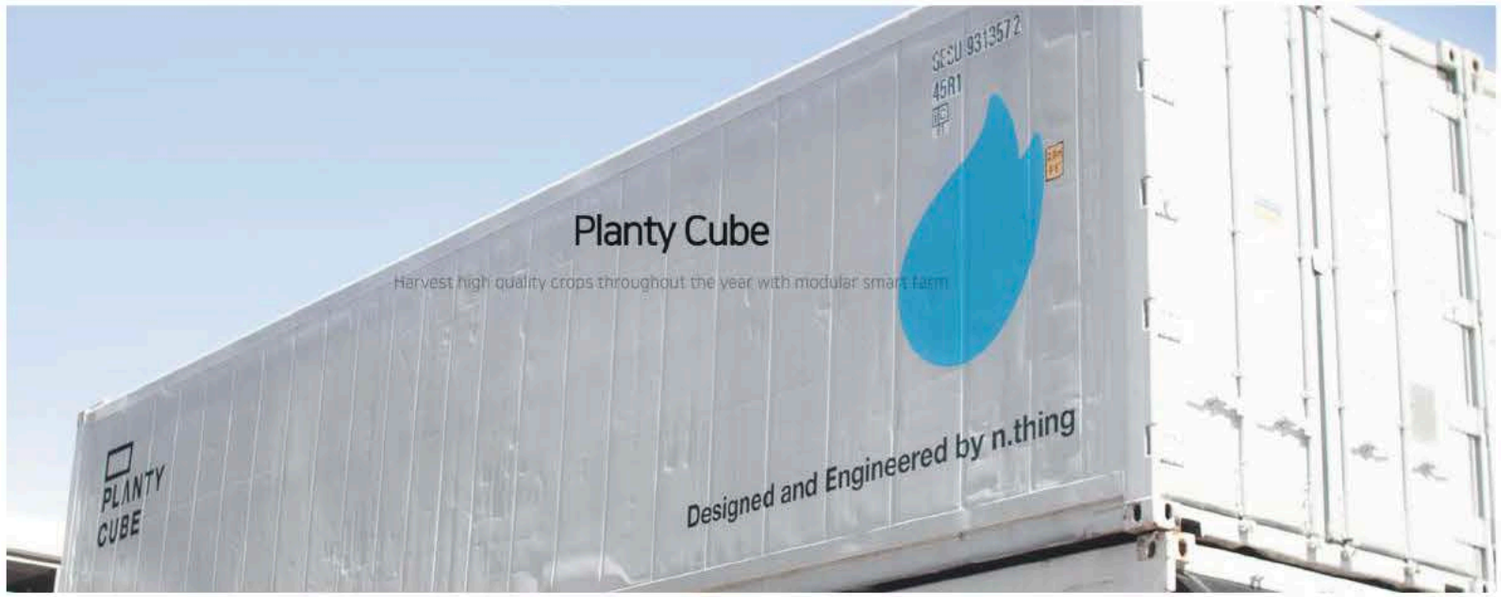
Show Me More

2018 NEW PRODUCT CONTEST **Winner**
Irrigation Association

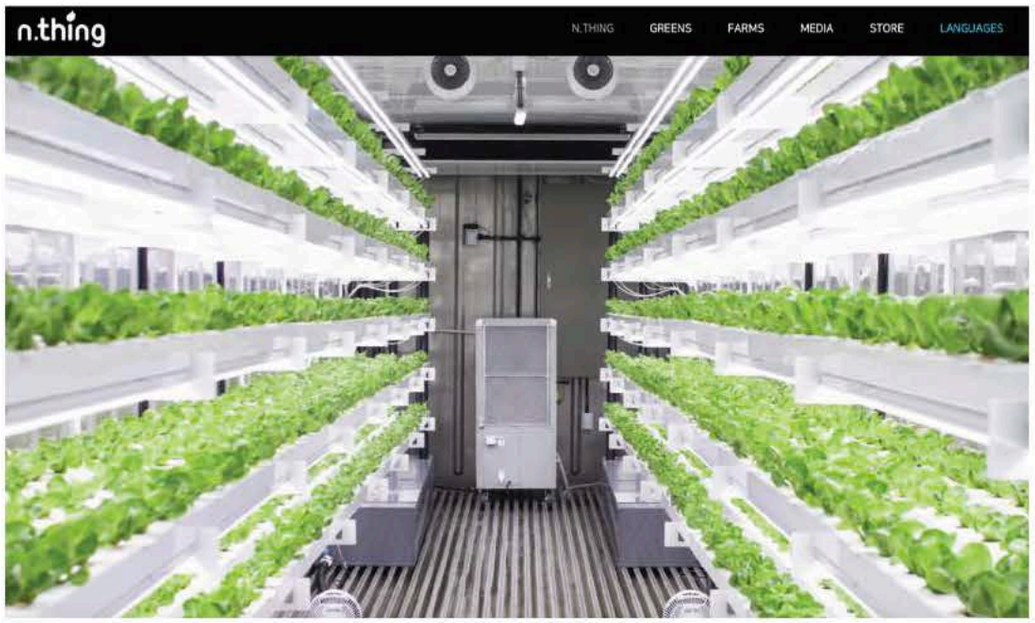
Existing Portfolio: *Nthing*

Seoul

Nthing is working to bring farming to the world. Whether in your home or bringing **smart farming solutions to the United Arab Emirates (UAE)**, Nthing's technology and data driven approach is changing the future of farming.



Nthing was part of SparkLabs Korea's accelerator program.



Korean ag-tech company exports smart farming solution to UAE

Created: Wednesday, 31 July 2019 06:21

The n.thing will grow and sell Romaine lettuce in Abu Dhabi with Planty Cube. (Image source: Elsemargriet/Pixabay)

South Korea's agricultural technology startup n.thing has started exporting indoor farming solution Planty Cube to the UAE

As reported in *The Investor,* the autopilot farm system is expected to allow farmers to grow greens in fully insulated indoor operations in areas with high aridity.

According to the source, n.thing will grow and sell Romaine lettuce in Abu Dhabi with Planty Cube.

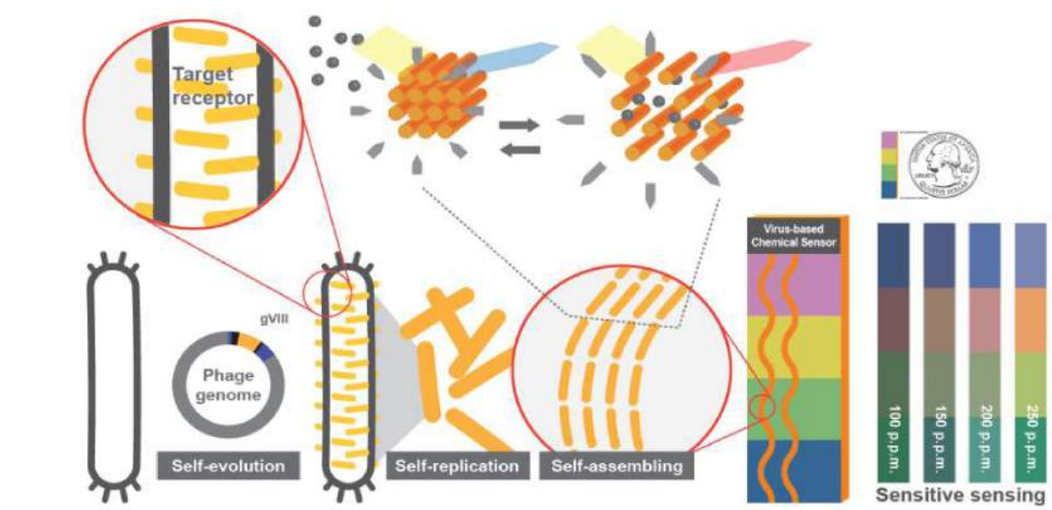
Seeing the local market response, the types of greens will be diversified and production volume will rise, stated the company.

A number of smart farming companies in the Middle East is adopting smart methods to grow vegetables as the same in traditional method is very difficult due to hot arid climate, shortage of farmland and shortage of water.

Existing Portfolio: *Calyx*

San Francisco

Calyx was founded in late 2014, a materials science company that harnesses biology to provide low cost and highly accurate sensors for real-time detection and analysis of air chemicals in industries from safety, healthcare, transportation to food markets.



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