

A light gray silhouette map of the Asian continent and Oceania is positioned on the left side of the page, extending from the top left towards the bottom right. The map shows the outlines of major landmasses including India, China, Southeast Asia, Australia, and New Zealand.

AN INTRODUCTION TO  
**FUTURE FOOD ASIA**  
PLATFORM + AWARD

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by ID Capital Pte.



THE FUTURE OF FOOD  
**AN INCONVENIENT TRUTH**

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WHY WE DO WHAT WE DO

# CHALLENGES FACING THE WORLD BY 2050

Estimated Population

9.7 bn

Urban Population

+70%

Cereal Requirement

5.1 bn T

Meat Requirement

470 mn T

## GLOBAL FOOD PRODUCTION

The need for next 40 years = Past 8,000 years' production combined



# THE ASIAN SITUATION MIGHT BE EVEN TOUGHER

Estimated Population

5.3 bn

Urban Population

64%

Home to the Hungry

2/3

Production Increment

+70%

**ASIA**

has the least arable land left for expansion

# FUTURE OF AGRICULTURE AND FOOD IS SEVERELY CHALLENGED AND WE BELIEVE IN THE POWER OF TECHNOLOGY.

## Dysfunctions in Supply Chain

- Globally 1/10 people get contaminated food
- In Asia 37% of production lost post harvest

## Malnutrition vs. Obesity

- 2 billion people globally are micro-nutrient deficient
- Asia is home to 60% of the diabetics

## More Food but Less Land

- 80% of global arable land is already in use
- In China alone, beef imports in last 10 years has risen 19,000%

## Resource Limitations

- 70% of the worlds freshwater already used for agriculture
- Avg. age of farmers on the rise in TH (54), PH (57) & JP (66)

## Streamlining Supply Chain<sup>†</sup>



## Enhancing Nutritional Value



## Sustainable Farming



## Precision Agriculture



<sup>†</sup>For detailed information of the technology categories, please refer to subsequent content.



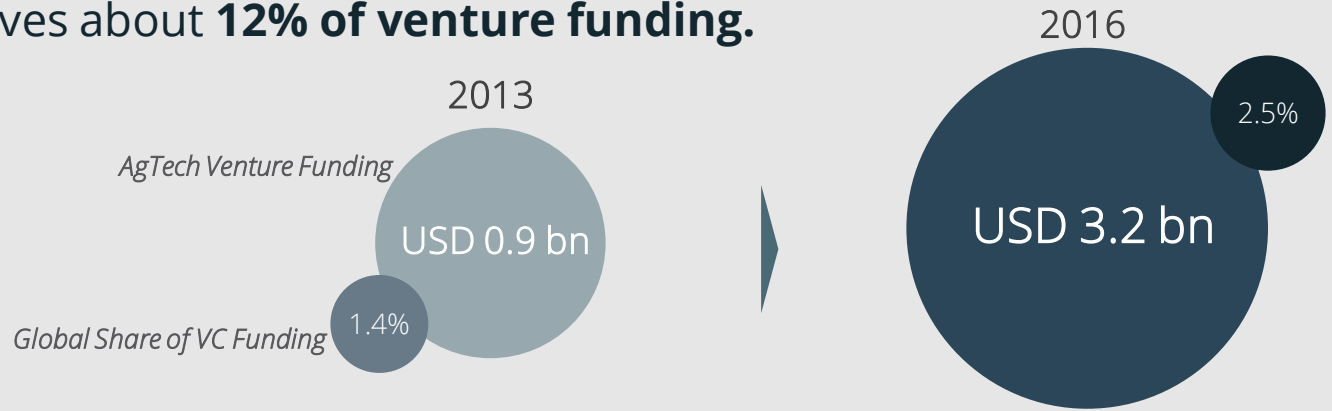
THE AGRI-FOOD SECTOR IS  
UNDERINVESTED  
**BUT GAINING ATTENTION**

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SEE HOW SOME PLAYERS ARE LEADING THE WAY

# THE AGRI-FOOD SECTOR IS UNDERINVESTED BUT GAINING ATTENTION

The **AGRICULTURE SECTOR**, represents around **10 to 12% of global GDP**, but actually only receives about **2%-3%** of global venture funding; **HEALTHCARE**, for comparison accounts for **~12% of GDP** and receives about **12% of venture funding**.



**AG FOCUSED FUNDS**

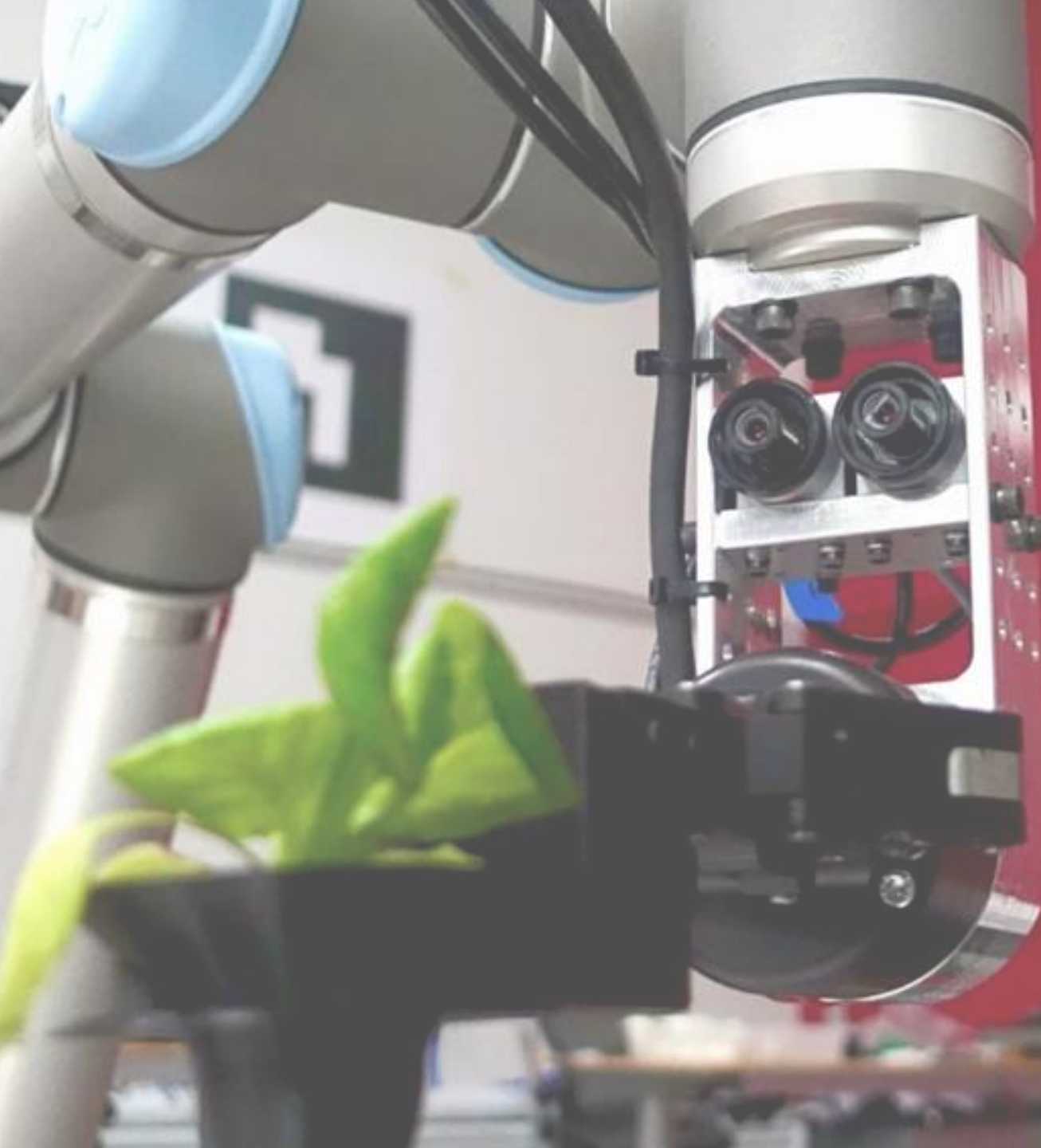
- FINISTERE VENTURES, LLC
- FLAGSHIP PIONEERING SCIENTIFIC VENTURES FOR LIFE
- anterra capital
- AVRIO

**CORPORATE VC FUNDS**

- syngenta
- ADM
- TYSON NEW VENTURES A Tyson Food Company
- MGV

**OTHER VC FUNDS**

- khosla ventures
- 青雲創投 TSING CAPITAL
- Horizons ventures 维港投资
- ANDREESSEN HOROWITZ



# Y Combinator

**5 Agtech Startups Present at Y Combinator's Demo Day as Sector Moves Further into Mainstream**





## **BREAKING: SoftBank Invests in Largest Ever Agtech Deal, a \$200m Series B for Indoor Ag Startup Plenty**

🕒 JULY 19, 2017   👤 EMMA COSGROVE



In an interview, Son, who is the younger brother of SoftBank Group Corp.'s founder Masayoshi Son, said he wants to fix key food and farming industry problems such as oversupply and outdated farming techniques through the new start-up incubator programme.

[Maersk](#), the end-to-end transport and logistics company and the biggest food transporter in the world, is currently accepting applications from agrifood tech startups to take part in an equity-free startup support program called [FoodTrack](#). The program, a partnership with the multi-vertical startup accelerator, Rockstart, will focus on combating food loss across the supply chain.



**FOODTRACK**  
by Maersk

**Why Maersk is Investing in AgriFood Tech Startups**

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**Alibaba.com**<sup>TM</sup>

Earlier this month, Chinese tech giant Alibaba signed a deal with pig farming corporation Dekon Group and pig feed manufacturer Tequ Group to develop and deploy AI-powered pig-tracking systems. As reported by Chinese outlet [Synced](#), the deal is worth tens of millions of dollars, and will primarily rely on machine vision to replace the wireless radio frequency tags (RFID) used to follow pigs about farms.



**ABB**

**TECHNOLOGY  
VENTURES**

Stellapps Technologies Pvt. Ltd, an Internet of Things (IoT) firm which operates in the dairy space, has raised an undisclosed amount in Series B funding from a clutch of investors.

The company said in a statement that the round was led by IndusAge Partners along with the philanthropic Bill & Melinda Gates Foundation, Qualcomm Ventures (the investment arm of chip-maker Qualcomm Inc), and ABB Technology Ventures.



# FUTURE FOOD ASIA

“TWIN-PROGRAM”  
PLATFORM + AWARD

Spearheaded by ID Capital,  
**FUTURE FOOD ASIA (FFA)**  
aims to **accelerate open innovation** in  
**AgriTech & FoodTech** across Asia  
Pacific, with the goal to **catalyze** and  
**help cultivate an ecosystem** to build  
the future of food.



A first-of-its-kind platform for AgriTech and FoodTech innovations in Asia Pacific



Partner with multinationals, governments, start-ups and research teams, to build an integrated innovation network for the sector



Assist start-ups innovating and disrupting our food value-chain connect with corporations, investors, media, advisors and government agencies across the region.



CONTINUE TO READ ALL ABOUT

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# FUTURE FOOD ASIA AWARD 2018

# **FUTURE FOOD ASIA AWARD**

**2 0 1 8**



**Wednesday, 23rd May 2018**

**Matrix Auditorium @ Biopolis,  
one-north**



# FUTURE FOOD ASIA AWARD 2018

received 150 applications from 19 countries across APAC

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Award of **USD 100K** to the winner



4 awardees of Enterprise Singapore's **StartupSG grant**



Fast-track to **Future Food Asia Platform**



Networking with **targeted investors** and strategic partners



Access to a **sectoral innovation network**

## START-UP ELIGIBILITY

- Ⓜ Main activities of the start-up fall within Future Food Asia's **18 technology categories**
- Ⓜ Achieved **proof-of-concept** and/or earning initial revenues
- Ⓜ **Currently raising a Series A** or later stage round of funding
- Ⓜ Previously **raised USD 100K minimum**
- Ⓜ Operations **based in Asia-Pacific**
- Ⓜ Team has **English proficiency**

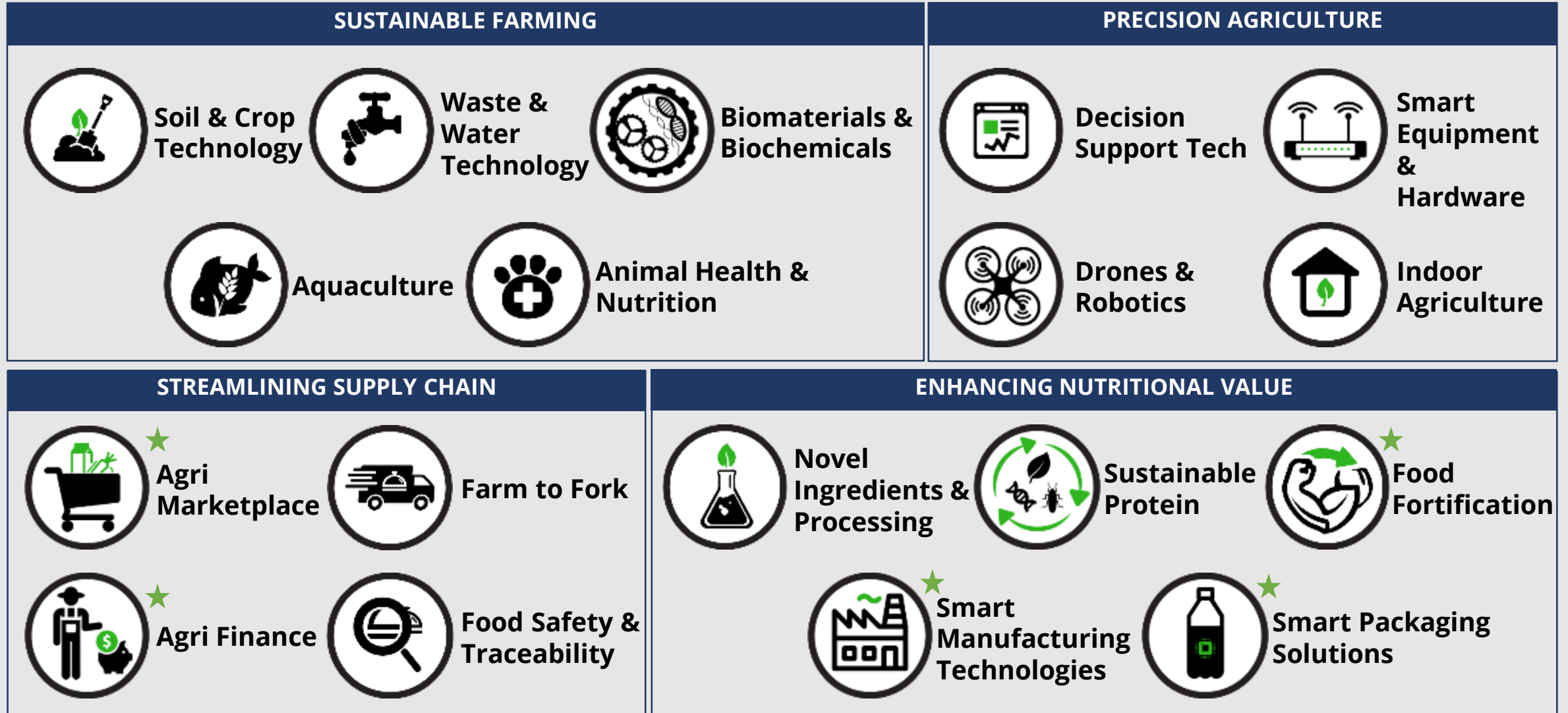
## FUTURE FOOD ASIA AWARD 2018

23<sup>rd</sup> MAY 2018

CLICK [HERE](#) TO LEARN MORE

# FUTURE FOOD ASIA AWARD 2018

with new categories of technology innovation †



†Click [here](#) to learn more.

★ New technology categories compared to 2017

## SUSTAINABLE FARMING PRACTICES

# 31%



Animal Health  
& Nutrition



Soil & Crop  
Technology



Waste & Water  
Technology

# ENHANCING NUTRITIONAL VALUE

# 34%



Sustainable  
Protein



Novel Ingredients  
& Processing



Food Fortification



## STREAMLINING SUPPLY CHAIN

# 15%



Farm-to-Fork



Food Safety  
& Traceability



Agri Marketplace



Agri Finance



# PRECISION AGRICULTURE

## 20%



Smart Equipment  
& Hardware



Decision Support  
Tech



Indoor  
Agriculture

# FUTURE FOOD ASIA AWARD 2018

categories with most startup applicants

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Soil & Crop  
Technology

13%



Sustainable  
Protein

12%



Novel Ingredients  
& Processing

10%



Food Safety  
& Traceability

8%



Waste & Water  
Technology

8%

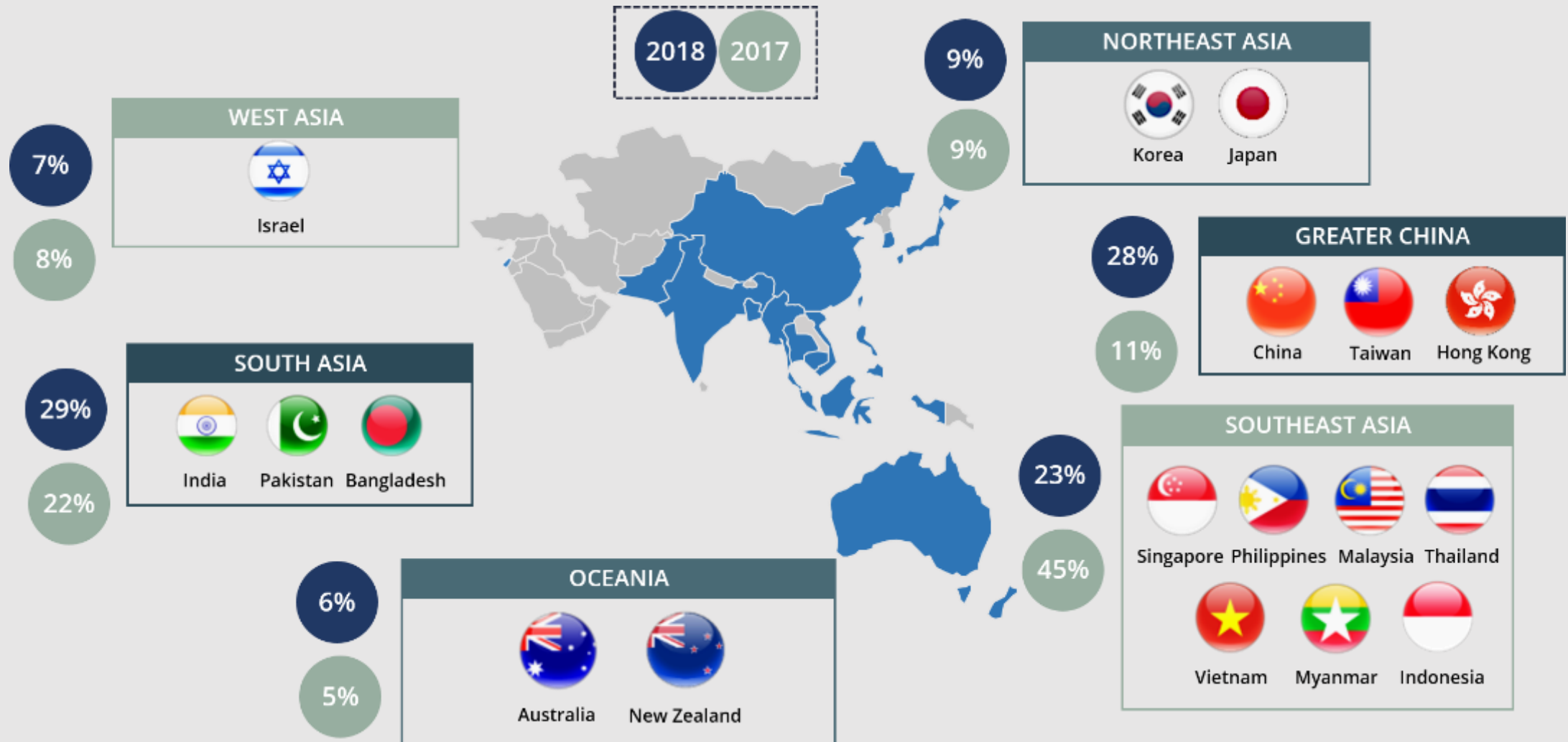


Animal Health &  
Nutrition

7%

# FUTURE FOOD ASIA AWARD

## startup applicants' countries





# FUTURE FOOD ASIA AWARD 2018

winner – OneCrop (Australia)

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OneCrop



AUSTRALIA



SOIL & CROP  
TECHNOLOGY

CLICK [HERE](#) TO LEARN MORE



OneCrop's solution radically increases crop yields through a unique **degradable mulch film**. It provides a technologically advanced yet **cost-effective** film that stores soil moisture, increases soil temperature, and drives **vigorous early germination and plant growth**, allowing commercial farmers around the world to significantly **boost their productivity** with no impact on the environment.

# FUTURE FOOD ASIA AWARD 2018

## Startup SG Grant winners



SINGAPORE NOVEL INGREDIENTS & PROCESSING

Alchemy Foodtech is a deeptech startup funded by NRF/SPRING TECS grants that aim to stop the global diabetes epidemic by **lowering blood glucose** spikes of everyday **carbohydrate staples** such as refined jasmine white rice, white bread, noodles etc. with their patent pending ingredient innovations that has been clinically proven.



INDIA BIOMATERIAL

FIB-SOL developed a patented nanofiber platform technology to provide **light-weight, consistent and stable biofertilizers**. It enables delivery of a high payload of active ingredients in a stable form, reducing bulkiness and increasing efficiency of biofertilizers. Besides logistics savings, it helps improve yield and environmental footprint of farming.



KOREA FOOD SAFETY

PureSpace's solution applies to **fresh produce** all along the cold chain and increases their shelf life and greatly reduce post-harvest losses. Its proprietary **nano-catalyst technology** completely and safely decomposes **ethylene gas and airborne bacteria**. Thanks to their handy portable device, the solution can be deployed at multiple points of the supply chain.



Xiaozao Tech



CHINA NOVEL INGREDIENTS & PROCESSING

Xiaozao Tech cultivates natural microalgae *Nannochloropsis* and produces **EPA (Omega-3)** both at scale. They are the first company in the world to deliver a line of algae-based EPA products with commercial scalability and economic viability. Microalgal derivatives such as EPA products are vegan, heavy metal free, superiorly bioavailable in GI tracts over fish oils and eco-friendly.

# FUTURE FOOD ASIA AWARD 2018

## Finalists from India, Israel, Japan and Korea



ISRAEL



NOVEL  
INGREDIENTS  
& PROCESSING

Amai Proteins is producing sweet proteins as **sugar substitutes**. The proprietary novel ingredients are healthy (zero calories, zero glycemic index), tasty, cheaper than sugar (in sweetness units), scalable, sustainable, and environmentally friendly. Amai is taking **sweet proteins** found along the equatorial belt and applies Computational Protein Design and Biotechnology to adapt the proteins to the mass food market.



INDIA



SOIL & CROP  
TECHNOLOGY

BioPrime is redefining agriculture and transforming lives through their **alternative bio-organic, sustainable solutions** for crop improvement, nutrition and protection, despite the growing impact of climate change and crop losses. **Patented technology platforms SNIPRTM and Bio-nexusTM** are the interface between chemical and biological crop protection and nutrition, precision technology and plant biology.



KOREA



WATER  
TECHNOLOGY

BLH Aqua Technology's proprietary technology, Aqutonix, **increases water absorption**, and thus the photosynthetic efficiency of plants, **reducing water** and fertilizer usage while **increasing yields**. For farmers, this means a decrease in operating costs and an increase in profits. For the world, it is a clean and sustainable solution to food and water scarcity.



JAPAN



BIOMATERIAL

Bioworks has developed a natural ingredient-based **bioplastic additive to produce strengthened PLA** for significantly enhanced mechanical and thermal properties as well as industrial processability. Derived from plant biomass, Bioworks additive gives this new PLA a **much wider applicability**, while remaining **100% biodegradable**. It thus has the potential to accelerate societies' transition into a greener future.

# FUTURE FOOD ASIA AWARD 2018

## Finalists from Australia, Korea and Taiwan



绿韵畜产科技股份有限公司  
Green Acres Co., Ltd



TAIWAN ANIMAL HEALTH

Green Acres aims at eliminating the usage of antibiotics in the animal farming system. Combining TCM and a **scientific approach**, they are designing unique blends of herbs and other active ingredients to **improve the immunity and overall health of livestock**. Their holistic approach to animal health has already had proven results on poultry.

Terragen 



AUSTRALIA SOIL & CROP TECHNOLOGY

Terragen Biotech is an Ag-Biotech company that develops biological products aimed at promoting plant and animal health. Terragen uses microorganisms as the basis of products that are designed to enhance yield and productivity, while reducing production costs, and the use of chemicals and antibiotics.



Xtra Reclosable Easy Open End



KOREA SMART PACKAGING

XRE Corporation revolutionizes the way canned beverages are consumed. Completely compatible with existing can manufacturing processes, its patented new "Stay-On-Tab" can lids allows beverages to be easily re-closed. Reducing beverage waste, it has the potential to become the new standard of the beverage industry.

CLICK [HERE](#) TO LEARN MORE

# FUTURE FOOD ASIA AWARD 2018

our continued and new partners

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INSTITUTIONAL PARTNER



CORPORATE PARTNER



KEY PARTNER



EVENT CO-ORGANIZER



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SILVER SPONSOR



“

VC investors are wrong to hunt for the one unicorn. Nobody wants a monopoly or duopoly in a critical segment of the food chain, the way it happens on the Internet. What the food system needs is hundreds of successful initiatives, it is not a winner-takes-all game.

**David Li**

Founder & Director  
Shenzhen Open Innovation Lab  
Key Note Speaker at FFAA 2018



**FUTURE FOOD  
ASIA**

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