



2020 **THRIVE**^{T O P} 50

**50 Growth Stage Companies Disrupting
the Future Of Food And Agriculture**

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Forbes

thriveagrifood.com



Advancing the Future of Food and Agriculture Through Innovation

About SVG Ventures-THRIVE



CORPORATE INNOVATION

We work with leading agriculture, food, and technology companies to define and address industry and organization challenges, leveraging innovation from both early-stage and growth-stage startups.



ACCELERATOR

THRIVE Accelerator supports seed-stage startups from all areas of the value chain whose technologies drive towards a more efficient, sustainable, and secure agricultural future.



SCALE WITH THRIVE

On an ongoing basis and as a part of the THRIVE Accelerator, SVG Ventures invests in emerging technologies companies in AgriFood technologies.



EVENTS

THRIVE hosts marquee events throughout the year including the THRIVE Innovation Summit, the Forbes Demo-Day, Forbes Indianapolis, and the Farmers Technology Roundtable.

Our Partners



WILBUR-ELLIS

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TOP 50 Companies

Acknowledgement

For the third successive year SVG Ventures has published an annual ranking of the top TOP 50 growth stage AgTech companies in the industry. New this year we have expanded our focus to include the TOP 50 FoodTech Companies. These are some of the most innovative and disruptive companies in the world that are driving us towards a more secure and sustainable agricultural future.

This publication is the culmination of several months of research and analysis by the SVG team led by Kalyn Simon & supported by Amanda Shorin, Walt Duflock, Rachelle Galvin, Marta Weinstock & Helen Hartnett.

Congratulations to all of the TOP50 companies.

Best Regards,
John Hartnett

Team



JOHN HARTNETT
FOUNDER & CEO



HELEN HARTNETT
CHIEF OPERATING OFFICER



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ACCELERATOR & CORPORATE
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SONIA WHITFIELD
PROGRAM MANAGER TO CEO



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BUSINESS DEVELOPMENT
MANAGER



JESSICA PHAM
MARKETING & EVENTS
MANAGER



WALT DUFLOCK
THRIVE STARTUP MENTOR



RACHELLE GALVIN
MIDWEST PROGRAM MANAGER

SVG Ventures THRIVE Platform

THRIVE is a global AgriFood innovation platform in Silicon Valley that accelerates, invests, and works with entrepreneurs, investors and Fortune 500 corporations to advance the future of food and agriculture through innovation. Our unparalleled ecosystem includes a corporate partner network of 40+ corporations, including pioneers such as Driscoll's, Land O'Lakes, Taylor Farms, E&J Gallo, Wilbur-Ellis, Corteva, Trimble, EY and Elanco, among many others. We have made 51 total investments, have developed a database of over 2,500 AgriFood technology startups from around the world, and have access to 6000+ farmers through various partnerships and co-ops. We also have a propensity to pick incredible startups with a strong track record of growth and success - our accelerator portfolio has raised over \$250M at a collective post-money valuation of nearly \$750M since graduating from the program.



AGTECH



2,500+ Global Startups

40+ Global Partners

51 AgTech Investments

6,000+ Global Farmers



The Innovation **IMPERATIVE**

Shaping the Future of Agriculture

By: Kalyn Simon

On February 20th, Sonny Perdue, United States Secretary of Agriculture opened the USDA's 96th Agriculture Outlook Forum with a mission. The USDA is committed to stimulate innovation in order to achieve the goal of increasing U.S. agricultural production by 40% while cutting the environmental footprint of U.S. agriculture in half by 2050. During the opening fireside chat at the Outlook Forum, Secretary Perdue challenged John Hartnett, Founder and CEO of SVG Ventures - THRIVE to help the USDA achieve this mission through innovation. Hartnett describes the goals as "bold and ambitious," but the "most important mission" for the country.

Perdue and Hartnett outlined that entrepreneurs and innovation in agriculture are fundamental to addressing the problems and finding solutions for farmers, consumers, and the environment. In Hartnett's experience, "entrepreneurs can really change the world, they provide new technologies and innovations to disrupt industries" and the USDA is actively searching for transformative solutions to meet the future demands. Hartnett proposed a new idea to create regional "Smart Farms" as

demonstration plots where entrepreneurs have a unique opportunity to showcase their technology. They will highlight the best of innovation to light up the farms and provide avenues for massive adoption and integration. Perdue and Hartnett are steadfast towards taking the first strides in aligning the public and private sectors.

In partnership, both sectors are on the cusp of the next era of agriculture productivity and environmental conservation while reducing food waste, improving carbon sequestration, improving water quality, and increasing renewable energy. We are confident that the companies ranked in this year's TOP 50 list will be the pioneers in shaping the future of agriculture and creating the solutions to tackle the challenges facing the agricultural sector.

Innovation is imperative. Together, the USDA and SVG-THRIVE are on a mission to advance the future of food and agriculture through innovation.

THRIVE^{TOP}50

The SVG Ventures THRIVE Top 50 is an annual ranking of leading global AgTech and FoodTech companies exemplifying the best in agriculture and food focused innovation. This annual ranking showcases these exceptional companies who are pushing the boundaries of innovation and technology.

Top 50 companies are scouted for their exemplary leadership teams, technology and traction and are selected following months of rigorous research by the SVG Ventures-THRIVE team in collaboration with our Corporate Partners. To qualify for a coveted spot on THRIVE's Top 50 listing a company must have a product in market, have received a minimum of series A funding & be ready to scale.

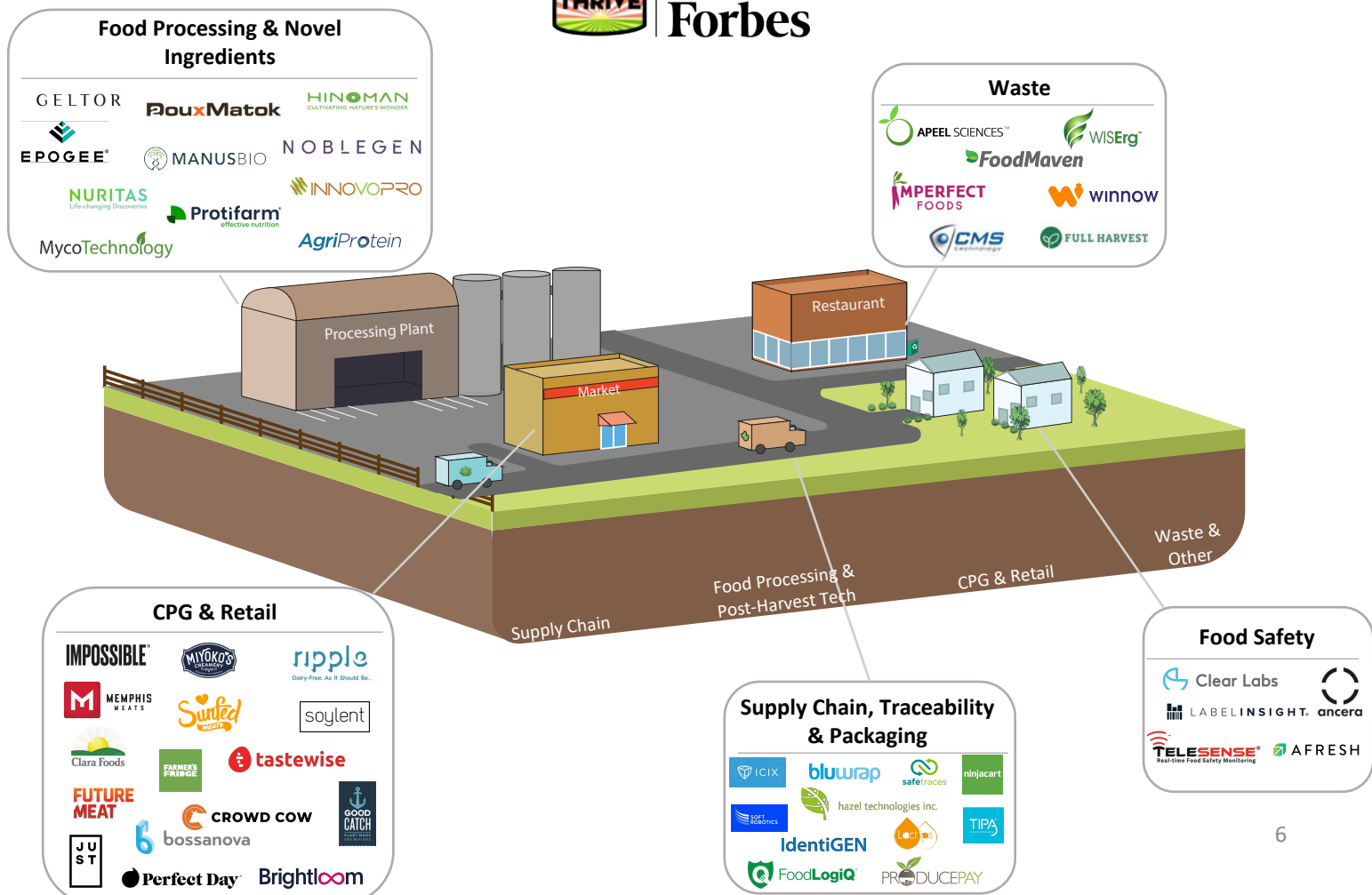
TOP 50 CRITERIA

- Stage: Series A and beyond
- Sector: Food Tech scale ups (value chain supply chain to waste)
- Proven technology with product in market
- Demonstrated traction at scale (proven technology, customer engagement, revenue)
- Established founding team with track record

2020 THRIVE TOP 50 FoodTech Landscape Map



Published by
Forbes



THRIVE^{TOP}50

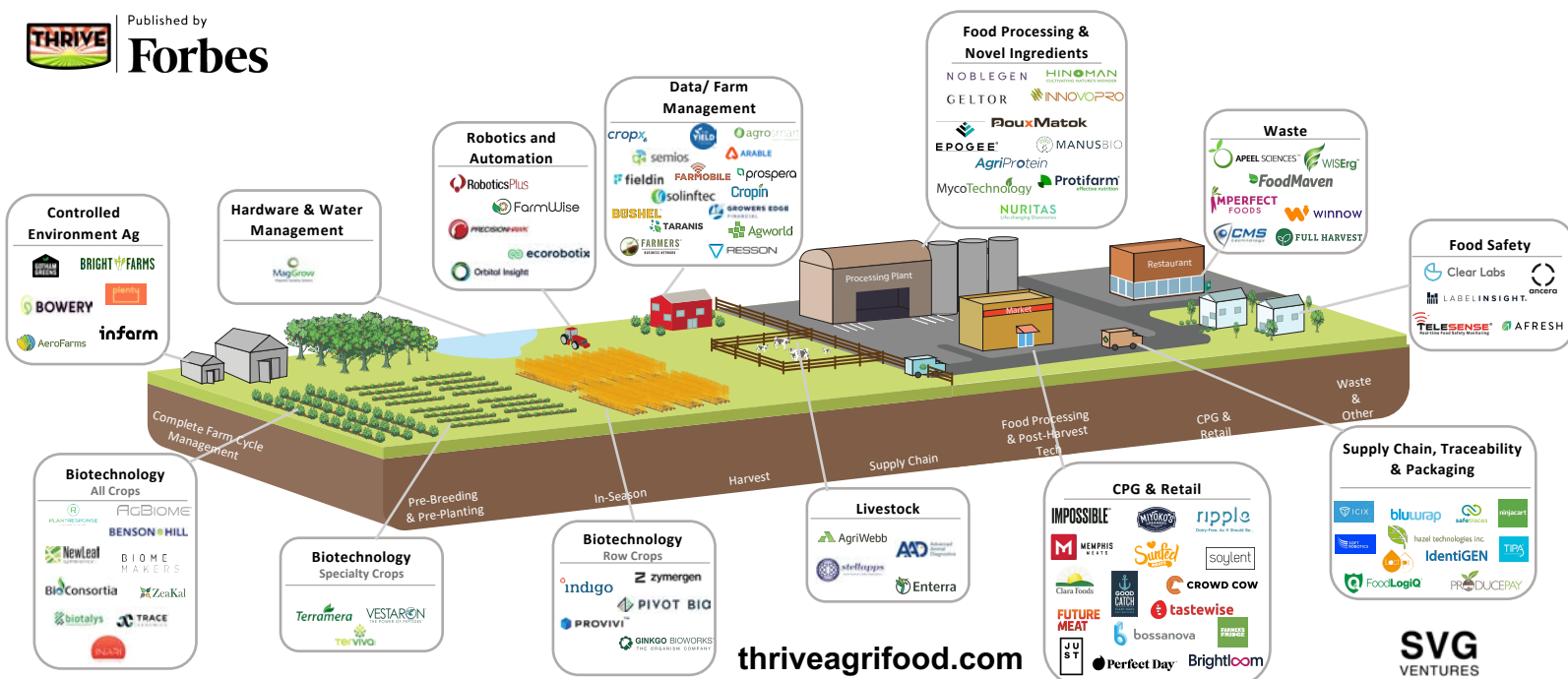
For the past two years SVG Ventures-THRIVE has been compiling a list of the TOP 50 growth-stage companies in AgTech. This year, we will also be introducing the TOP 50 FoodTech companies. The AgTech and FoodTech Landscape map below represents the combined listing of top 100 scaling AgriFood companies driving innovation in the industry. SVG Ventures' categorization is designed to capture the broadest themes across the entire AgriFood landscape. The AgTech growth-stage companies are organized according to their respective technology as well as their position in the value chain from pre-season through harvest, including complete farm cycle management (i.e. indoor farming). The FoodTech scale-ups are categorized by applicable technology category along the value chain after the farm gates including supply chain, post-harvest, food processing, novel food ingredients, food safety, and waste.

This publication provides information on each of the TOP 50 AgTech growth-stage companies. For further information on the FoodTech growth stage companies on the landscape map, check out the TOP 50 FoodTech edition.

TOP 50 AGTECH & FOODTECH SUPPLY CHAIN LANDSCAPE MAP



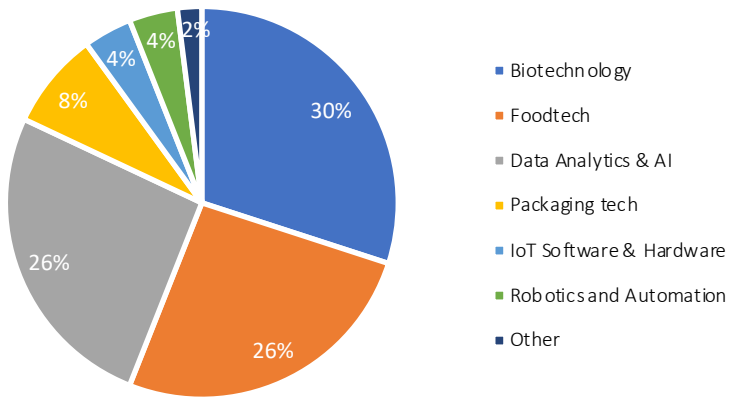
Published by
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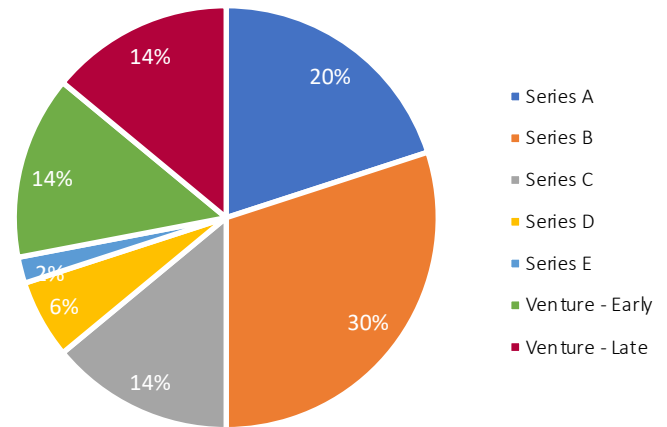
THRIVE^{TOP} 50

FoodTech by the Numbers

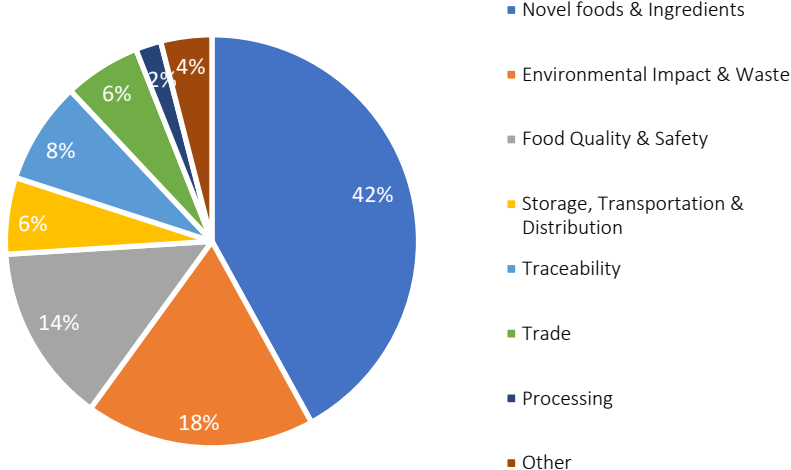
Technology Category



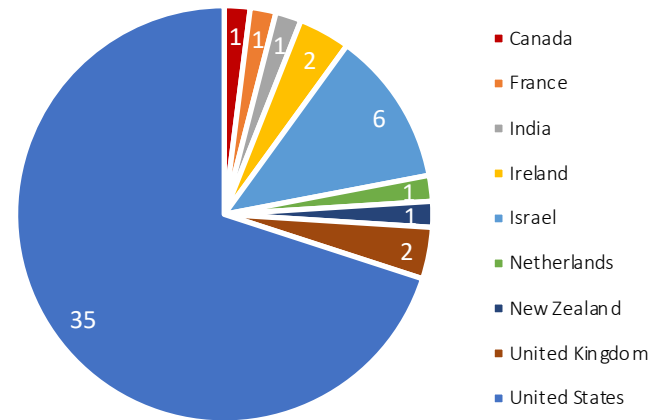
Funding Stage



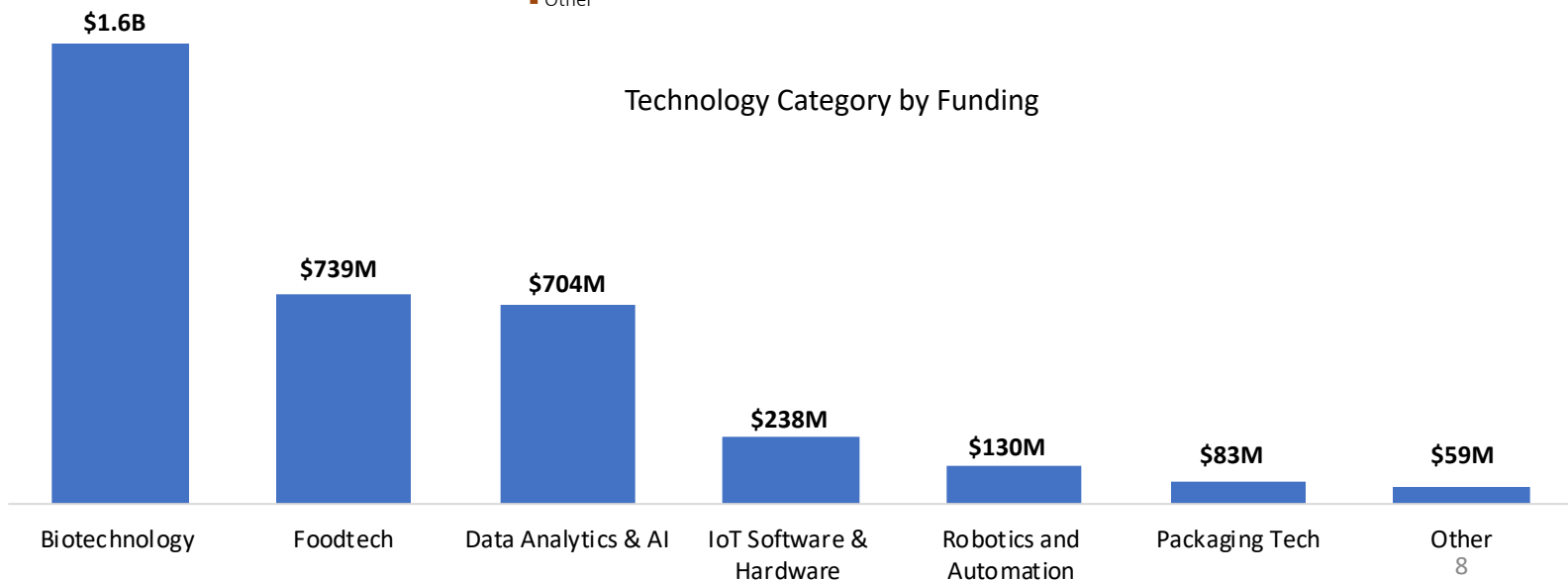
Problem Area Addressed



Countries



Technology Category by Funding



FoodTech Icon Key

Below are the icons used to categorize each company: Technology Category, Problem Addressed, and Value Chain Position.

Technology Category



Biotechnology



Foodtech



Packaging Tech



IOT Software and
Hardware



Data Analytics & AI

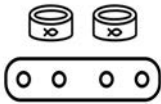


Robotics &
Automation



Other

Problem Addressed



Processing



Traceability



Food Quality & Safety



Novel Foods &
Ingredients



Storage,
Transportation &
Distribution



Environmental Impact &
Waste

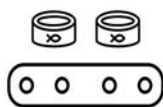


Trade

Value Chain Position



CPG & Retail



Food Processing



Waste & Other



Post Harvest

POST HARVEST SUPPLY CHAIN

Companies:

Afresh Technologies.....	11
Ancera.....	12
BluWrap.....	13
Food LogiQ.....	14
FoodMaven.....	15
Hazel Technologies.....	16
ICIX.....	17
IdentiGEN.....	18
Ninjacart.....	19
CMS Technology.....	20
ProducePay.....	21
SafeTraces.....	22
Soft Robotics.....	23
Telesense.....	24

Technology Category:



Data Analytics & AI

Problem Addressed:



Environmental Impact &
Waste

Value Chain Position:



Post Harvest

Website: afreshtechnologies.com

Country: United States

Year Founded: 2017

Business Description

Afresh uses human-centered AI to dramatically cut food waste (a trillion \$ problem worldwide) and make nutritious, fresh food more accessible. Afresh is building an interconnected suite of products that optimize the fresh food supply chain using AI.

Afresh has rolled out its replenishment software chain-wide with Fresh Thyme Farmers Market and is working with a number of additional grocers across the country representing almost \$10B in sales.

Products and Services

The first product is a store-level replenishment tool that helps brick-and-mortar grocers reduce food waste while decreasing stock outs, ultimately significantly driving profit margins.

To do so, Afresh uses billions of data points – historical sales, price, promo/ad, planogram, weather, events, competitive activity, etc. – and create intelligent inventory recommendations using perishable inventory replenishment algorithms. The end result is massively reduced food waste, fewer out-of-stocks, and a streamlined ordering process. This waste cost reduction can double grocers' margins.

Employees:

10

October 2018

Post Valuation:

\$29.64

December 2018

Total Raised to Date:

\$7.91M

December 2019

Leadership Team

- Nathan Fenner: Chief Operations Officer
- Volodymyr Kuleshov: Chief Technology Officer
- Matt Schwartz: Chief Executive Officer

Key Achievements/ Partnerships

- September 2019: Fresh Thyme Farmers Market partners with Afresh for fresh food replenishment
- September 2019: Afresh technologies raises \$6.1 million series A financing round led by Innovation Endeavors



Technology Category:



Biotechnology

Problem Addressed:



Food Quality & Safety

Value Chain Position:



Post Harvest

Website: ancera.com

Country: United States

Year Founded: 2011

Business Description

Ancera builds technological solutions that deliver meaning, not just data. They're helping food producers assess microbial risk from farm to consumer. This is done by integrating the latest in single cell transport and characterization with predictive data systems.

Products and Services

Ancera is focused on engineering simple, practical, rapid and cost-effective diagnostics products that can cause a revolutionary change to the quality of service provided to the end user. Their flagship product is a rapid, labor- and label- free cell sorter and immunoassay. It is capable of cell sorting, concentration, manipulation and detection of clinically significant samples (>1cc) in <10 minutes. Their device has high sensitivity and specificity and does not require any sample preparation, handling or incubation.

Employees:

19

January 2017

Post Valuation:

\$22M

June 2016

Total Raised to Date:

\$13.12M

August 2017

Leadership Team

- Arjun Ganesan: Co-Founder, President, and Chief Executive Officer
- John Voyta: Vice President, Biology
- G. Thomas Roth: Vice President, Engineering and Product Development

Technology Category:



Packaging Tech

Problem Addressed:



Storage,
Transportation &
Distribution

Value Chain Position:



Post Harvest

Website: bluwrap.com

Country: United States

Year Founded: 2006

Business Description

BluWrap is a global company providing naturally extended shelf-life technology that has the potential to revolutionize fresh protein supply chains worldwide. The company's technology uses its patented oxygen management techniques to create and maintain an all-natural controlled atmosphere environment that extends the shelf life of perishable proteins. BluWrap's breakthrough technology enables suppliers of fresh protein to distribute their products in an environmentally responsible manner utilizing alternative transport to airfreight, while still delivering a fresh, high quality product to customers.

Products and Services

Perfecting its technology in partnership with its customers, BluWrap has proven that it can extend the shelf-life of fresh chilled salmon from a typical 14 days to 40 days and fresh chilled pork up to 90 days in a safe and sustainable way without compromising quality. The consistency of its offering has generated significant top-tier customer interest across multiple geographies and protein markets.

BluBuoys is their proprietary oxygen management device used to extend shelf life and ship fresh protein around the world.

Employees:

11

December 2015

Post Valuation:

\$3.68M

August 2006

Total Raised to Date:

\$18.6M

June 2018

Leadership Team

- Ola Strand: Chief Executive Officer
- Ginger Gorden: Chief Financial Officer
- Alejandro Linderman: General Manager-Chile
- Kevin Bolejack: Vice President of Scientific Affairs
- David Nemiroff: Vice President, Technology
- Anthony James: President

Key Achievements/ Partnerships

- June 2018: BluWrap secures fresh injection of capital from existing investors to fund growth plans

Technology Category:



Data Analytics & AI

Problem Addressed:



Traceability

Value Chain Position:



Post Harvest

Website: foodlogiq.com

Country: United States

Year Founded: 2006

Business Description

FoodLogiQ® provides traceability, food safety compliance and supply chain transparency software solutions. FoodLogiQ helps restaurant operators, food retailers, consumer packaged goods companies and other food companies achieve end-to-end traceability while supporting safe and high-quality food products across the supply chain.

With FoodLogiQ's platform, food companies can build an online supplier community, onboard suppliers all at once and stay on top of supplier audits and assessments. Manage quality incidents, report them directly to suppliers and recoup the costs of stock withdrawals. With lot-level traceability, food companies see exactly where the product is at all times, especially when it matters most during an investigation.

FoodLogiQ customers include Whole Foods, Chipotle, Subway, Dave & Buster's, Tropical Smoothie Cafe, Cava Grill, Robinson Fresh, Durst Organic Farms, Bailey Farms, the National Potato Council, Salandinos, and Golden State Foods among others. The FoodLogiQ Connect platform includes over 2000 registered businesses in over 35 countries with 18,000 locations.

Products and Services

FoodLogiQ develops a supply chain transparency software designed to validate supplier compliance with food safety.

Employees:	Post Valuation:	Total Raised to Date:
25	Undisclosed	\$29.5M
April 2018	January 2019	June 2019

Leadership Team

- Andrew Kennedy: Co-Founder
- Sean O'Leary: Chief Executive Officer
- Katy Jones: Chief Marketing and Strategic Officer
- Todd Dolinsky: Chief Product Officer
- Andrew Kennedy: Co-Founder

Key Achievements/ Partnerships

- January 2020: FoodLogiQ welcomes Caribou Coffee to growing list of brands pursuing food supply chain transparency
- January 2020: FoodLogiQ completes AICPA Type 2 SOC 2 examination of security control and compliance requirements

Technology Category:



Data Analytics & AI

Problem Addressed:



Environmental Impact &
Waste

Value Chain Position:



Post Harvest

Website: foodmaven.com

Country: United States

Year Founded: 2015

Business Description

FoodMaven is an innovative food distributor, bringing agility and flexibility to the big food system. FoodMaven sells high-quality local and oversupplied food—lost food—to commercial kitchens, at about half price. The company mission is to see all food used...with good purpose. FoodMaven recently raised a \$15.3M Series B that will allow FoodMaven to expand beyond Colorado. As the company continues to build out its core competencies in revenue rescue, rapid logistics, big data, and shared inventory in Colorado, FoodMaven is beginning expansion to Dallas-Fort Worth and additional markets. Their zero-waste sustainability philosophy means unsold food is donated to food banks, animal feed, and composting operations, benefiting both hunger initiatives and the environment. With an efficient Internet marketplace, big data optimization technology, and agile logistics model, FoodMaven is good for profits, good for people, and good for the planet.

Products and Services

FoodMaven provides an online marketplace for food service with a focus on sustainability. The company purchases food from suppliers like farmers, ranchers, and grocery retailers, and sells to food service clients like restaurants, hospitals, hotels, and universities.

Employees:	Post Valuation:	Total Raised to Date:
55	\$22M	\$38.93M
January 2019	December 2017	December 2019

Leadership Team

- Patrick Bultema: Founder and Chairman
- Benjamin Deda: Chief Executive Officer
- Jason Rembert: Chief Technology Officer
- Megan Cornish: Vice President

Key Achievements/ Partnerships

- March 2019: FoodMaven announced strategic partnership with Hilton Hotels
- August 2019: FoodMaven was awarded one of Colorado's Coolest Companies to work for by Colorado Inno

Technology Category:



Packaging Tech

Problem Addressed:



Food Quality & Safety

Value Chain Position:



Post Harvest

Website: hazeltechnologies.com

Country: United States

Year Founded: 2015

Business Description

Hazel Technologies Inc. is a USDA-funded company that develops new technologies to extend the quality shelf life of fresh produce in the supply chain.

Products and Services

Hazel's products are packaging inserts that release an anti-fungal shelf-life extending vapor. With Hazel's drop-in solution, the shelf-life of produce can be extended by as much as three times by preventing fungus and decay. For customers, this reduces spoilage during shipment and allows distributors to access new geographic markets that would otherwise remain untapped.

Employees:	Post Valuation:	Total Raised to Date:
14	\$45M	\$17.08M
December 2019	July 2019	July 2019

Leadership Team

- Aidan Mouat: Co-Founder and Chief Executive Officer
- Adam Preslar: Co-Founder and Chief Operations Officer
- Amy Garber: Co-Founder and Chief Intellectual Property Officer
- Pat Flynn: Co-Founder and Chief Marketing Officer

Key Achievements/ Partnerships

- August 2019: Hazel Technologies completes successful studies with Oregon State University extending shelf life
- August 2018: Hazel Technologies welcomes new partner AMR Agro



Technology Category:



Data Analytics & AI

Problem Addressed:



Traceability

Value Chain Position:



Post Harvest

Website: icix.com

Country: United States

Year Founded: 2004

Business Description

ICIX helps the retail industry's leading companies collaborate across trading partner networks to achieve active transparency. Their solutions enable companies to safeguard consumers, protect their brand, and build trust - all while improving margins. More than 20,000 businesses actively connect on the ICIX network, including 3 of the top 10 U.S. retailers and the top 100 food suppliers. ICIX customers include Walmart, Nike, Target, Hanesbrands, US Foods, Diageo, Wakefern, and Restoration Hardware.

Products and Services

ICIX automates collaboration and data exchange with value chain partners. ICIX accelerates the speed of information and improves management of strategic initiatives with supply chain partners.

Employees:	Post Valuation:	Total Raised to Date:
38	Undisclosed	\$67.5M
January 2016	January 2019	January 2019

Leadership Team

- Matthew Smith: Founder and Chief Executive Officer
- Matthew Cromar: Vice President, Product
- Joel Ficks: Chief Financial Officer
- Keith Fortson: Vice President, Global Sales
- Jean Roberts: Senior Vice President Client Services
- Brian Roufa: Chief Operating Officer
- Jeff Vier: Vice President of Infrastructure, Security, and Operations
- Elliot Yama: Vice President, Marketing

Key Achievements/ Partnerships

- June 2018: ICIX wins CODiE for best logistics and supply chain solution
- February 2018: Provider Pros to Know Award

Technology Category:



Biotechnology

Problem Addressed:



Traceability

Value Chain Position:



Post Harvest

Website: identigen.com

Country: Ireland

Year Founded: 2001

Business Description

IdentiGEN is a leading provider of DNA-based solutions to the agri-food industry with operations in Ireland, UK, EU, USA and Canada. They are applying their core expertise in genetic identification to develop and market a range of solutions designed to improve the quality, integrity and safety of the global food supply.

Products and Services

IdentiGEN's signature product, DNA TraceBack® is different from other traceability methods as it traces the DNA in meat and fish – not barcodes, RFID labels, or paper records – to verify the exact origin of products. With DNA TraceBack® the product is the label linking meat and seafood in supermarkets and restaurants back to the exact animal or broodstock.

Employees:

60

April 2015

Post Valuation:

Undisclosed

April 2015

Total Raised to Date:

\$15.4M

January 2019

Leadership Team

- Ciaran Meghen: Co-Founder and Managing Director
- Ronan Loftus: Commercial Director and Co-Founder
- John Heffernan: Director, Finance

Key Achievements/ Partnerships

- September 2018: IdentiGEN partners with Swiss meat industry on DNA traceability system

Technology Category:



Data Analytics & AI

Problem Addressed:



Trade

Value Chain Position:



Post Harvest

Website: ninjacart.com

Country: India

Year Founded: 2015

Business Description

Ninjacart is a B2B agri-marketing platform that connects farmers to businesses.

Ninjacart is India's largest agri marketing platform, solving one of the toughest supply chain problems through technology. It connects vegetable and fruit farmers directly with businesses. At one end, Ninjacart helps farmers get better prices and deal with consistent demand and on another end, it helps retailers to source fresh vegetables at competitive prices directly from farmers. Ninjacart does this effectively at a lower cost, better speed, and larger scale using integrated supply chain powered by technology, data science, infrastructure, and logistics network.

Ninjacart moves 180 tons of vegetables from farm to 2500+ retailers on a daily basis within 10 hours in Bangalore and Chennai. They work with 3000+ farmers. They aim to grow to 1000 tons of daily volumes in the next 18 months.

Products and Services

Ninjacart developed a platform to connect producers of food directly with retailers, restaurants, and service providers using in-house applications that drive end to end operations.

Employees:	Post Valuation:	Total Raised to Date:
4,000	\$321.8M	\$199.7M
September 2019	April 2019	August 2019

Leadership Team

- Thirukumaran Nagarajan: Co-Founder and Chief Executive Officer
- Kartheeswaran KK: Co-Founder and Chief Operating Officer
- Sachin Jose: Co-Founder
- Vasudevan Chinnathambi: Co-Founder

Key Achievements/ Partnerships

- May 2019: Ninjacart raises \$100 million from Tiger Global



Technology Category:



Biotechnology

Problem Addressed:



Food Quality & Safety

Value Chain Position:



Post Harvest

Website: cmstechnology.com

Country: United States

Year Founded: 2011

Business Description

CMS Technology is the developer of food preservatives designed to ensure the safety and hygiene of food products. The company's products include specialty chemicals for poultry farms that offers microbial protection for the products made from poultry, as well as offer a no-rinse produce wash chemical which enhances food safety, reduces spoilage and improves textural characteristics of processed fruits and vegetables, enabling customers to consume fresh and safe food products that reduce the chances of health risks.

Products and Services

CMS Technology developed CMS D3S, a patent-pending delivery system for applying processing aids for the food industry. The system's 24/7 remote monitoring and data access enables processors to optimize their chemical usage for more efficient pathogen control.

Employees:

18

December 2015

Post Valuation:

\$38.28M

February 2017

Total Raised to Date:

\$29.82M

January 2019

Leadership Team

- John Mecca: Chief Executive Officer and President
- Bruce Thornton: Founder and President
- Joe Budd: Chief Financial Officer
- David Creasey: Chief Science Officer
- Brian King: Executive Officer
- Francis Dautreuil: Senior Vice President of Innovation and Technology
- Jim Dietrich: Senior Vice President of Sales and Operations
- Ingrid Cole: Vice President of Research, Development & Innovation

Key Achievements/ Partnerships

- November 2019: New pathogen laboratory opens in Georgia
- January 2020: CMS Technology is introducing the new name in food safety: Prevenio

Technology Category:



IOT Software and
Hardware

Problem Addressed:



Trade

Value Chain Position:



Post Harvest

Website: producepay.com

Country: United States

Year Founded: 2014

Business Description

ProducePay's mission is to help farmers feed the world in a sustainable way. They're working to empower the people that grow, handle, and transport our food by providing them with financial resources, data insights, and technology. ProducePay seeks to solve the two major pain points suffered by farmers and distributors in the fresh produce industry; lack of access to growth capital and inefficient trade execution brought about by an opaque value chain between the farmers and ultimate retailer.

Products and Services

- Capital - Preseason financing (PS)
- Marketplace
 - E-Commerce – Preferred Network
 - Business intelligence – Insights Pro
 - Supplier discounts – Input supplier partnerships

Employees:

75

November 2018

Post Valuation:

\$53.5M

October 2018

Total Raised to Date:

\$233.4M

December 2019

Leadership Team

- Pablo Borquez Schwarzbeck: Chief Executive Officer and Founder
- Ben Dusastre: President and Chief Financial Officer and Co-Founder
- Kurt Tsuo: Chief Commercial Officer
- Everardo Gomez: Chief Risk Officer
- Gilles Marchand: Chief Product Officer

Key Achievements/ Partnerships

- 2015: since its launch in 2015, ProducePay has seen \$1.5 billion worth of produce flow across its financing platform, of which \$700 million of those transactions were in the last year
- October 2019: closed a \$205M debt facility from CoVenture and TCM Capital to expand purchasing model and market for farmers
- October 2019: Preferred Network launched and has now already seen \$100M in purchases
- 2019: First online data suite has gained 10% of industry viewership since its launch in the second half of 2019

Technology Category:



Biotechnology

Problem Addressed:



Traceability

Value Chain Position:



Post Harvest

Website: safetraces.com

Country: United States

Year Founded: 2013

Business Description

SafeTraces is partnering with leading food companies to enable the safest, most transparent, and most sustainable supply chains in the world through a groundbreaking DNA-based source and safety assurance solution. They provide the first natural, edible, odorless, flavorless, FDA G.R.A.S.-approved solution that is directly applied to the food, not the packaging, allowing for rapid, robust source and safety assurance within minutes.

Products and Services

The miniDARTTM solution delivers item-level traceability for fresh produce, liquid and bulk goods using edible, invisible SafeTracers™, DNA barcodes. The saniDARTTM solution provides sanitation verification for production facilities using SaniTracers™, non-living, food-safe, DNA-tagged particles engineered to behave like pathogens during cleaning and sanitation.

Employees:	Post Valuation:	Total Raised to Date:
15	\$44M	\$20.5M
November 2017	September 2018	September 2018

Leadership Team

- Anthony Zografos: Chief Executive Officer
- Ulrike Hodges: Vice President of Business Operations
- Erik Malmstrom: Director of Business Development

Key Achievements/ Partnerships

- 2013: Founding technology license from Lawrence Livermore National Labs
- 2014: Meet FDA G.R.A.S. standards
- 2015: Seed funding; NSF and FDA grants
- 2016: First pilot customer
- 2017: First commercial customer
- 2018: Series A funding; product launches of miniDART and saniDART solutions

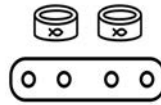


Technology Category:



Robotics & Automation

Problem Addressed:



Processing

Value Chain Position:



Post Harvest

Website: softroboticsinc.com

Country: United States

Year Founded: 2013

Business Description

Soft Robotics Inc. is leveraging its novel elastomeric robotic actuator technology to enable industrial robotics to interact with objects of varying size, shape, and weights, as well as objects that are easily damaged. The ability of the company's technology to solve the critical challenge of adaptability and flexibility in robotics is allowing automated packaging and handling of the most delicate items in agriculture and other food markets. In a short time, Soft Robotics have automated tomato sorting and repacking, proven out the ability to package everything from strawberries to mushrooms, and enabled grocery order fulfillment. Ultimately, Soft Robotics technology will enable robotic automation to address the labor shortages in fruit and vegetable packaging, bring the most adaptable robotic tooling to automate grocery order packing and fulfillment, and demonstrate early technology readiness for harvest and in the field handling fruits and vegetables.

Products and Services

The Soft Robotics mGrip ecosystem is designed with versatility in mind. The grippers can fit the needs of integrators or distributors building grippers for customers, or end-users looking for a plug and play "out of the box" experience. The SuperPick seamlessly integrates with existing WMS and can pick from unstructured bins without pre-training SKUs. SuperPick's no training capabilities makes deployment simple and painless, guaranteeing immediate results and faster ROI.

Employees:	Post Valuation:	Total Raised to Date:
45	\$115M	\$54.32M
December 2018	December 2019	December 2019

Leadership Team

- Carl Vause: Chief Executive Officer
- Mark Chiappetta: Chief Technology Officer

Key Achievements/ Partnerships

- May 2019: Soft Robotics Named to the Robotics Business Review 2019 RBR50 List
- September 2019: 6 River Systems & Soft Robotics announce strategic partnership
- December 2019: Soft Robotics announces transformational partnership with FANUC to Accelerate Adoption of critical automation needs across industries

Technology Category:



IOT Software and
Hardware

Problem Addressed:



Storage,
Transportation &
Distribution

Value Chain Position:



Post Harvest

Website: telesense.com

Country: United States

Year Founded: 2013

Business Description

TeleSense® provides Industrial IoT, real-time environmental monitoring solutions for grain and food production, storage and transport. They help manage environmental risks in the world's food supply chain. They automate data collection, and wirelessly upload, and analyze it. Whether assets are at rest or in motion, using cloud-based technology, TeleSense enables enterprises to monitor the environmental conditions in real-time. Their solutions help eliminate human error, improve operational efficiency, ease the burden of regulatory compliance, and increase profitability.

Products and Services

TeleSense provides a highly configurable and scalable, end-to-end platform for remote temperature and humidity sensing for stored grains. With advanced analytics and predictive algorithms, it helps growers and storage facilities optimize quality and profits using IoT technology.

Employees:	Post Valuation:	Total Raised to Date:
37	\$15.5M	\$7.28M
August 2019	August 2018	January 2019

Leadership Team

- Naeem Zafar: Co-Founder and Chief Executive Officer
- Ali Ahmed: Chief Technology Officer
- Nick Garner: Co-Founder and Chief Engineer
- John Tingleff: Chief Finance Officer

Key Achievements/ Partnerships

- November 2019: Telesense debuts new Cellular Spear at Agritechnica Tradeshow in Germany

CPG & RETAIL

Companies:

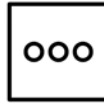
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Technology Category:



Robotics & Automation

Problem Addressed:



Other

Value Chain Position:



CPG & Retail

Website: bossanova.com

Country: United States

Year Founded: 2005

Business Description

Bossa Nova Robotics is the leading provider of real-time, on-shelf product data for the global retail industry. Its technology collects terabytes of data that enables the retail ecosystem to optimize the omnichannel shopping experience. With a multidisciplinary team of robotics, computer vision, artificial intelligence, and big data scientists, Bossa Nova has solved the challenges to deploy fully autonomous service robots in busy and crowded environments. Bossa Nova is privately held, headquartered in San Francisco with offices in Mountain View, CA and Pittsburgh, PA.

Products and Services

Bossa Nova offers fixed cameras, drones, and robots intended for retailers.

Employees:	Post Valuation:	Total Raised to Date:
200	\$179M	\$76.57M
June 2018	June 2018	June 2018

Leadership Team

- Bruce McWilliams: Chief Executive Officer
- Sarjoun Skaff: Co-founder and Chief Technology Officer

Key Achievements/ Partnerships

- October 2018: Bossa Nova opens first international office in Sheffield
- January 2020: Bossa Nova's inventory robots rolling out in 1000 Walmart stores

Technology Category:



Data Analytics & AI

Problem Addressed:



Other

Value Chain Position:



CPG & Retail

Website: brightloom.com

Country: United States

Year Founded: 2014

Business Description

Brightloom is the developer of a digital customer experience platform. The company offers an online application for ordering personalized foods and food management services through sensory science to guide the production of food and data science to engineer consumer needs.

Products and Services

The Brightloom Platform provides a complete solution that drives mobile adoption, reduces labor costs, increases throughput and personalizes the customer experience. Brightloom offers capabilities for omnichannel ordering, integrated kitchen operations, pickup systems, and customer engagement.

Employees:

55

July 2016

Post Valuation:

\$480M

July 2018

Total Raised to Date:

\$131.8M

July 2019

Leadership Team

- Adam Brotman: Chief Executive Officer

Key Achievements/ Partnerships

- July 2019: Pizza Hut tests cubby shelves by Brightloom

Technology Category:



Data Analytics & AI

Problem Addressed:



Trade

Value Chain Position:



CPG & Retail

Website: crowdcow.com

Country: United States

Year Founded: 2015

Business Description

Crowd Cow offers the most convenient and direct way to purchase craft meat from the top farms through carefully curated subscriptions and a la carte options, ordered online and delivered straight to customers' doors in eco-friendly, compostable packaging. Customers can choose from a variety of cuts and proteins, including Japanese Wagyu, beef, chicken, pork, turkey, lamb and duck, as well as wild-caught and sustainably-raised seafood. The company visits and personally knows each producer they work with to ensure consumers get the highest-quality meat — always taste-tested by experts, free of hormones and without unnecessary antibiotics. Crowd Cow was founded with the mission to bring trust and transparency back to the food industry, and enable customers to make better choices for the mouths they feed.

Products and Services

Crowd Cow operates an online platform intended to sell meat and seafood products direct from the farm to the consumer.

Employees:	Post Valuation:	Total Raised to Date:
Undisclosed	\$10M	\$26.13M
January 2019	January 2017	January 2019

Leadership Team

- Joe Heitzberg: Co-Founder and Chief Executive Officer
- Ethan Lowry: Co-Founder
- Michelle Newbery: President and Chief Financial Officer

Key Achievements/ Partnerships

- April 2018: Crowd Cow introduces pork to craft meat selection
- May 2018: Crowd Cow launches "Beef Tasting Flights"

Technology Category:



Other

Problem Addressed:



Storage,
Transportation &
Distribution

Value Chain Position:



CPG & Retail

Website: farmersfridge.com

Country: United States

Year Founded: 2013

Business Description

Farmer's Fridge makes fresh meals in their kitchen and fills their Fridges with wholesome, delicious salads, bowls, snacks and more. Unpurchased items are regularly donated to local food pantries, providing responsibly sourced nutrition to community members in need.

Products and Services

Farmer's Fridge operates meal vending machines intended to offer made-from-scratch nutritious meals and snacks.

Employees:	Post Valuation:	Total Raised to Date:
130	\$57.3M	\$59.2M
September 2018	September 2018	May 2019

Leadership Team

- Luke Saunders: Founder and Chief Executive Officer
- Jess Martin: Chief Operating Officer

Key Achievements/ Partnerships

- April 2019: the salad-based vending machines roll out in Indianapolis
- May 2019: Farmer's Fridge expands into new South Side factory in Chicago

Technology Category:



Data Analytics & AI

Problem Addressed:


 Environmental Impact &
Waste

Value Chain Position:



CPG & Retail

Website: imperfectproduce.com

Country: United States

Year Founded: 2015

Business Description

Full Harvest helps growers get the most out of a harvest and food companies save money by bringing farm excess to market. They are a B2B platform connecting large farms to food businesses to sell significantly discounted, yet perfectly good surplus and imperfectly shaped produce that would have otherwise gone to waste. Approx. 20 billion pounds of produce go to waste in the U.S. annually simply because they are not perfectly shaped for strict retailer standards. Full Harvest aims to solve this problem by creating a marketplace for this unutilized edible and delicious produce.

Full Harvest's vision is three-fold: bring an additional revenue stream to farmers, lower the cost of healthy food production, while significantly reducing wasted food and resources. A win-win for everyone.

Products and Services

Full Harvest has developed a marketplace for surplus and imperfect produce.

Employees:	Post Valuation:	Total Raised to Date:
16	\$28.5M	\$11.5M
February 2019	August 2018	January 2019

Leadership Team

- Christine Moseley: Founder and Chief Executive Officer
- Russel Sprole: Chief Financial Officer

Key Achievements/ Partnerships

- August 2018: Full Harvest closed an \$8.5 million Series A round of financing led by Spark Capital



Technology Category:



Foodtech

Problem Addressed:



Novel Foods & Ingredients

Value Chain Position:



CPG & Retail

Website: goodcatchfoods.com

Country: United States

Year Founded: 2016

Business Description

Good Catch offers seafood lovers the best of both worlds. Delicious plant-based seafood which delivers on taste, texture and nutrition, with little impact on the planet or fragile ecosystem of the world's oceans.

Products and Services

Plant-based tuna: experience the true tuna texture and taste of their plant-based tunas. Plant based entrees and frozen appetizers are coming Spring 2020. All Good Catch products evoke the experience of real seafood thanks to legumes and algae oil. Their proprietary six-legume blend of peas, chickpeas, lentils, soy, fava beans, and navy beans delivers protein and a texture that resembles the exact flakiness of seafood. Algae oil provides seafood flavor and omega-3s.

Employees:	Post Valuation:	Total Raised to Date:
Undisclosed	\$102M	\$40.7M
January 2019	January 2020	January 2020

Leadership Team

- Marci Zaroff: Co-Founder and Chief Marketing Officer
- Eric Schnell: Co-Founder
- Chad Sarno: Co-Founder and Vice President Culinary Innovation

Key Achievements/ Partnerships

- January 2020: Good Catch receives Series B funding, including backing from General Mills

Technology Category:



Data Analytics & AI

Problem Addressed:



Environmental Impact & Waste

Value Chain Position:



CPG & Retail

Website: imperfectfoods.com

Country: United States

Year Founded: 2015

Business Description

Imperfect Foods is an online grocer creating a more sustainable and effective food system to better both communities and the environment. The company sources imperfect produce and surplus food directly from farmers, growers and food purveyors and delivers these goods directly to customers' doors through a customizable subscription service.

Products and Services

Imperfect Foods operates an online food marketplace intended to reduce food waste and build a better system for everyone.

Employees:	Post Valuation:	Total Raised to Date:
1,200	\$179.96M	\$47.1M
January 2019	October 2018	October 2019

Leadership Team

- Benjamin Chesler: Co-Founder and Chief Innovation Officer
- Aleksandra Strub: Chief Marketing Officer

Key Achievements/ Partnerships

- February 2020: Imperfect Foods expands services to Pittsburgh
- October 2019: Imperfect Foods expands services to New York City

Technology Category:



Biotechnology

Problem Addressed:



Novel Foods & Ingredients

Value Chain Position:



CPG & Retail

Website: impossiblefoods.com

Country: United States

Year Founded: 2011

Business Description

Impossible Foods develops a new generation of meats and cheeses made entirely from plants. The company selects specific proteins and nutrients from greens, seeds, and grains to recreate the experience of meats and dairy products.

Products and Services

Impossible Burger and Impossible Pork: plant-based pork and beef. Impossible Burger: smells, handles, cooks and tastes like ground beef from cows. The Impossible Burger is sold at restaurants in the United States, Hong Kong, Singapore, and Macau. It's available at thousands of restaurants, served as tacos, empanadas, meatballs, dumplings — and of course, the classic American burger. The Impossible Burger is also available in select grocery stores in the United States.

Employees:

395

November 2019

Post Valuation:

\$4B

November 2019

Total Raised to Date:

\$777M

January 2019

Leadership Team

- Patrick Brown: Founder and Chief Executive Officer
- David Lee: Chief Operating Officer and Chief Financial Officer
- Monte Casino: Co-Founder
- Nick Halla: Chief Strategy Officer

Key Achievements/ Partnerships

- February 2020: Disney to serve Impossible Foods' burgers at its theme parks and resorts
- April 2019: Impossible Foods & Burger King launch the Impossible Whopper



Technology Category:



Foodtech

Problem Addressed:



Novel Foods &
Ingredients

Value Chain Position:



CPG & Retail

Website: justforall.com

Country: United States

Year Founded: 2011

Business Description

JUST is a food technology company with a mission to build a food system where everyone has access to delicious, nutritious food. The company's mission is to build a food system where everyone is eating well. Eating well means eating food that nourishes our bodies. Eating food that strengthens the planet. Eating food that tastes exceptionally good—and is JUST for all.

Just's technology is based upon understanding plants from every corner of the planet and enables consumers, food manufacturers, and the largest retailers around the world to offer better, healthier products, at a more affordable cost.

Products and Services

JUST develops vegetable-alternatives designed to use instead of eggs in baked goods and other food products.

Employees:

120

January 2019

Post Valuation:

\$1.25B

May 2017

Total Raised to Date:

\$372.53M

September 2019

Leadership Team

- Josh Tetrick: Founder and Chief Executive Officer
- Rakesh Jain: Chief Business Development Officer
- Peter Licari: Chief Technology Officer

Technology Category:



Data Analytics & AI

Problem Addressed:



Food Quality & Safety

Value Chain Position:



CPG & Retail

Website: labelinsight.com

Country: United States

Year Founded: 2008

Business Description

Label Insight was founded with the mission of helping consumers understand what's in the products they use and consume. Today, Label Insight's solution provides product transparency through data science, transforming the way brands and retailers interact with and share product data. Label Insight is the leading provider of SaaS data solutions, powering insights and strengthening the connections between CPG brands, retailers and consumers. Label Insight collects, aggregates and analyzes food label data to allow the government, retailers, manufacturers and app developers a comprehensive view of food labels. This includes allergens, additives, ingredient, and claim analysis.

Products and Services

The company's cloud-based product data engine enables CPG brands and retailers to transform basic product data into smart attributes, providing a deep understanding of their product set. Label Insight offers an unmatched level of data, generating 17,000 attributes - such as nutrients and allergens - per product. These attributes serve as building blocks for a live view of data from more than 17,000 brands, totaling 80 percent of U.S. retail food and beverage sales volume. Label Insight customers use this deep level of product data to provide greater transparency to consumers; maximize category growth potential; easily participate in industry and government initiatives; and create more connected omni-channel experiences.

Employees:

130

May 2018

Post Valuation:

\$70M

January 2019

Total Raised to Date:

\$35.5M

January 2019

Leadership Team

- Dagan Xavier: Co-Founder and Director of Customer Insight
- Anton Xavier: Co-Founder and Chief Product Officer
- Ronak Sheth: Chief Executive Officer



Technology Category:



Foodtech

Problem Addressed:



Novel Foods & Ingredients

Value Chain Position:



CPG & Retail

Website: miyokos.com

Country: United States

Year Founded: 2014

Business Description

Miyoko's is on a mission to protect the planet by encouraging consumers to convert to vegan dairy products without having to sacrifice taste. Using traditional creamery cultures, age-old cheesemaking techniques, and modern technology, Miyoko's is making 100% non-dairy products from organic plant-based ingredients.

Products and Services

Miyoko's Kitchen operates an online and retail platform intended to offer vegan cheese and butter products.

Employees:

85

January 2019

Post Valuation:

\$30M

February 2017

Total Raised to Date:

\$12M

January 2019

Leadership Team

- Miyoko Schinner: Founder and Chief Executive Officer
- John Breen: Chief Financial Officer
- Cathleen Mandigo: Marketing Director

Key Achievements/ Partnerships

- September 2019: Myoko's Creamery launches in Canada
- October 2019: Myoko's Creamery launches in Australia

Technology Category:



Foodtech

Problem Addressed:



Novel Foods &
Ingredients

Value Chain Position:



CPG & Retail

Website: ripplefoods.com

Country: United States

Year Founded: 2014

Business Description

Ripple exists to make dairy-free as it should be: high in protein, low in sugar, loaded with nutrition and delicious. Ripple has 8x the protein of almond milk and half the sugar of dairy milk. It's high in bioavailable calcium (50% more than milk), potassium and provides a good source of omega-3s. It's lower in calories than milk and best of all, it has the creamy, delicious texture our dairy-free friends are missing.

Products and Services

Ripple Foods produces plant-based products to offer dairy-free milk.

Employees:	Post Valuation:	Total Raised to Date:
80	\$350M	\$120.6M
November 2019	July 2019	January 2019

Leadership Team

- Adam Lowry: Co-Founder and Co-Chief Executive Officer
- Neil Renninger: Co-Founder and Co-Chief Executive Officer



Technology Category:



Foodtech

Problem Addressed:



Novel Foods &
Ingredients

Value Chain Position:



CPG & Retail

Website: soylent.com

Country: United States

Year Founded: 2012

Business Description

Soylent™ was developed from a need for a simpler food source. Creator Robert Rhinehart and team developed Soylent after recognizing the disproportionate amount of time and money they spent creating nutritionally complete meals. Soylent is a food product (classified as a food, not a supplement, by the FDA) designed for use as a staple meal by all adults. Each serving of Soylent provides maximum nutrition with minimum effort.

Products and Services

Soylent produces meal replacement products containing a complete blend of protein, carbohydrates, lipids and micro-nutrients.

Employees:

50

March 2017

Post Valuation:

\$430.9M

May 2017

Total Raised to Date:

\$71.5M

April 2019

Leadership Team

- Demir Vangelov: Chief Executive Officer

Key Achievements/ Partnerships

- April 2019: Soylent launches new product, Soylent Squared



Technology Category:



Foodtech

Problem Addressed:



Novel Foods &
Ingredients

Value Chain Position:



CPG & Retail

Website: sunfedfoods.com

Country: New Zealand

Year Founded: 2015

Business Description

Sunfed meats is the producer of plant proteins meat intended to offer a minimalist ingredient deck on the global market. The company's meat is made up proteins guaranteed to have the flavor and texture of meat made with a handful of all natural wholesome ingredients, clean water-based proprietary techniques and are soy free, gluten free, preservative free and GMO-Free, enabling consumers to get meat substitute products rich in iron and proteins.

Products and Services

Sunfed meats are made from premium yellow pea protein. They cook, feel and taste just like animal meat but are healthier, both for you and the planet.

Employees:	Post Valuation:	Total Raised to Date:
Undisclosed	Undisclosed	\$9.44M
January 2019	January 2019	January 2019

Leadership Team

- Shama Lee: Co-Founder and Chief Executive Officer
- Hayden Lee: Co-Founder

Key Achievements/ Partnerships

- June 2019: Sunfed Meats launches in Australia
- June 2019: Sunfed Meats products made available in Coles

Technology Category:



Data Analytics & AI

Problem Addressed:



Food Quality & Safety

Value Chain Position:



CPG & Retail

Website: tastewise.io

Country: Israel

Year Founded: 2017

Business Description

Tastewise brings the power of data to the art of food and beverage intelligence. The platform analyzes billions of food data points - including menus, reviews, home recipes and social media - to provide insights for restaurants, hospitality groups, and food brands. Capturing food innovation in real time, Tastewise equips industry professionals to identify target segments and competitors, understand emerging trends, and determine which dishes should be served next. Tastewise leverages machine learning to tap into the culinary consciousness that drives the world's freshest food and beverage insights.

Products and Services

Tastewise developed an AI-powered food intelligence platform designed to help restaurants and food retail brands identify consumer taste and preference. It helps culinary professionals keep their product line fresh with the latest culinary innovations. It allows for products to be designed that delight customers and meet their needs. From a marketing standpoint, it supports building marketing campaigns that speak to the right audiences. From a sales perspective, it can identify restaurants that need a restaurants' specific products and supplies.

Employees:	Post Valuation:	Total Raised to Date:
5	Undisclosed	\$6.5M
September 2018	January 2019	January 2019

Leadership Team

- Eyal Gaon: Chief Technology Officer and Co-Founder
- Alon Chen: Chief Executive Officer and Co-Founder

FOOD PROCESSING

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Technology Category:



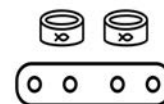
Foodtech

Problem Addressed:



Food Quality & Safety

Value Chain Position:



Food Processing

Website: apeel.com

Country: United States

Year Founded: 2012

Business Description

Apeel Sciences is fighting the global food waste crisis by utilizing nature's tools to prevent waste — a sustainable approach to the world's growing food demands. The company's plant-derived technology helps USDA Certified Organic and conventional fresh food growers, suppliers, and retailers maintain produce quality and extend shelf life, which minimizes food waste from the farm to the retail shelf to the kitchen table.

Products and Services

Apeel Sciences adds a layer of plant-derived protection to the surface of fresh produce to slow water loss and oxidation — the factors that cause spoilage. Apeel produce stays fresh two to three times longer, which promotes more sustainable growing practices, better quality food, and less food waste from farm to retail shelf to home. For suppliers and retailers, Apeel produce is the only post-harvest solution that creates an optimal microclimate inside of every piece of fruit, which leads to great quality, extended shelf life, and transportability — without requiring refrigeration, controlled atmosphere, or preservatives.

Employees:

150

August 2019

Post Valuation:

\$420M

January 2019

Total Raised to Date:

\$110.1M

January 2019

Leadership Team

- James Rogers: Founder, Science Director and Chief Executive Officer
- Jenny Du: Co-Founder and Vice President of Operations
- Louis Perez: Co-Founder and Vice President of Technology

Key Achievements/ Partnerships

- September 2018: Launched Apeel Avocados at Kroger with The Horton Fruit Company in support of Kroger's Zero Hunger | Zero Waste by 2025 initiative
- December 2018: Apeel Avocados available at 200+ grocery stores in the U.S.
- February 2019: Partnered with Nature's Pride, a leading avocado provider in Europe, to take the food waste fight to overseas

Technology Category:



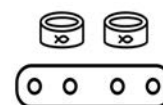
Biotechnology

Problem Addressed:



Novel Foods &
Ingredients

Value Chain Position:



Food Processing

Website: clarafoods.com

Country: United States

Year Founded: 2014

Business Description

Clara Foods™, headquartered in the San Francisco Bay Area, is the market leader in engineering, manufacturing and formulating animal-free, animal proteins as ingredients for the global food and beverage industry including the world's first animal-free egg white. Leveraging advanced fermentation to produce functional and nutritional proteins from microorganisms, the company is reimagining the factory farm model that underpins industrial animal agriculture with a more sustainable, kinder and healthier alternative. Clara Foods is on a mission to decouple the world's most powerful proteins from the animals that make them.

Products and Services

Clara Foods has been in deep R&D building out its protein production platform for the last 5 years. The three distinct protein ingredients are: a digestive aid in dietary supplements, a protein fortifier for developing high-protein beverages with clean taste, an egg-replacer for use in baked goods from meringues to macarons to scrambles.

Employees:	Post Valuation:	Total Raised to Date:
42	\$125M	\$56.79M
September 2019	April 2019	April 2019

Leadership Team

- Dr. Ranjan Patnaik: Chief Technology Officer
- Dr. Harshal Kshirsagar: Vice President of Product
- Dr. Joel Kreps: Vice President of Technology

Key Achievements/ Partnerships

- Named one of the “50 Hottest Tech Companies in the World” by Crunchbase
- Named one of the Top 40 Hottest Companies in the Advanced Bioeconomy
- Named one of “the 50 Next Companies to Disrupt the World” by Biofuels Digest
- Global Co-Development & Distribution Partnership with Ingredion for certain markets

Technology Category:



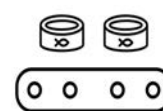
Biotechnology

Problem Addressed:



Food Quality & Safety

Value Chain Position:



Food Processing

Website: clearlabs.com

Country: United States

Year Founded: 2014

Business Description

Clear Labs is a private genomics testing company headquartered in San Carlos, California. It sequences the DNA of food products to verify the food's ingredients, GMO status, or whether it is contaminated by harmful pathogens. Clear Labs offers the only automated and intelligent next-generation sequencing platform that is built for food safety testing.

Products and Services

Clear Safety, the flagship product, is the only pathogen-testing platform that is built on next-generation sequencing technology, as such, it is the most accurate platform (>99.9%) for testing for pathogens like Salmonella and Listeria in food samples. Beyond detecting the presence or absence of a pathogen, it can also help food manufacturers track the migration of a specific strain of a pathogen throughout their plants, enabling them to take corrective actions quickly and efficiently before they have a large-scale contamination incident on their hands.

In addition to Clear Safety, Clear Labs offers a suite of Clear Transparency tests. Food producers can verify the authenticity of a food's ingredients. They can verify their GMO claims by testing for all known GMOs in a single test, and finally, they can perform microbiome testing, which identifies spoilage organisms that might impact a product's quality and freshness.

Employees:	Post Valuation:	Total Raised to Date:
54	\$71M	\$45.5M
July 2019	January 2019	January 2019

Leadership Team

- Sasan Amini: Co-Founder and Chief Executive Officer

Key Achievements/ Partnerships

- 2019: several of the largest poultry manufacturers in the U.S. became customers

Technology Category:

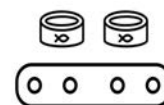


Foodtech

Problem Addressed:


 Novel Foods &
Ingredients

Value Chain Position:



Food Processing

Website: douxmatok.com

Country: Israel

Year Founded: 2014

Business Description

DouxMatok is a food-tech company. They have developed a proprietary technology that enhances the sweetness of sugars with no after taste - preserving the full "sugar experience" customers are looking for. The enhanced sweetness allows for a significant reduction in the consumption of sugar. The company was incorporated in 2014, and its R&D center is based in Petach-Tikva, Israel.

Products and Services

DouxMatok develops a sugar reduction technology intended to encourage healthier consumption of foods without compromising taste.

Employees:

11

October 2017

Post Valuation:

\$60.82M

June 2019

Total Raised to Date:

\$30.2M

January 2019

Leadership Team

- Eran Baniel: Co-Founder and Chief Executive Officer
- Shaul Shaonl: Chief Financial Officer
- Yoram Shkedl: Chief Operating Officer
- Avraham Baniel: Co-Founder
- Llat Cinamon: Vice President, Business Development
- Ofer Bonen: Vice President, Engineering
- Dr. David Tsivion: Vice President, Research and Development

Key Achievements/ Partnerships

- June 2019: DouxMatok raises \$22 Million Series B round from leading financial and strategic investors
- October 2018: DouxMatok awarded the 2018 Prime Minister Israel Innovation Prize for its ground-breaking technology
- July 2018: DouxMatok and Südzucker announce partnership to manufacture and commercialize breakthrough sugar reduction technology across Europe

Technology Category:

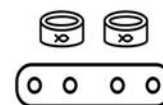


Foodtech

Problem Addressed:


 Novel Foods &
Ingredients

Value Chain Position:



Food Processing

Website: epogeefoods.com

Country: United States

Year Founded: 2011

Business Description

Epogee is the developer and producer of a portfolio of fat replacement and flavor enhancement food ingredients intended to substantially reduce calories from fat. The company's innovative food ingredients are gluten free, allergen free, vegan and made from natural vegetable oils free from genetically modified materials, enabling food manufacturers to improve nutrition, taste and performance in a wide range of food applications.

Products and Services

Epogee Fat Replacer (EPG) is the one and only solid alternative fat that can safely & dramatically lower calories without sacrificing taste, texture or appearance.

Employees:	Post Valuation:	Total Raised to Date:
Undisclosed	Undisclosed	\$10.6M
January 2019	January 2019	January 2019

Leadership Team

- John Musselman: Chief Executive Officer
- David Rowe: Founder and Chief Technology Officer

Technology Category:



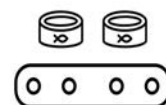
Biotechnology

Problem Addressed:



Novel Foods & Ingredients

Value Chain Position:



Food Processing

Website: future-meat.com

Country: Israel

Year Founded: 2018

Business Description

Future Meat Technologies is a Jerusalem-based biotechnology company advancing a distributive manufacturing platform for the cost-efficient, non-GMO production of meat directly from animal cells, without the need to raise or harvest animals. Future Meat Technologies focuses on developing a new generation of manufacturing technology that enables the cost-efficient production of fat and muscle cells, the core building blocks of meat. The technology exclusively licensed from the Hebrew University of Jerusalem, based on the findings of Prof. Yaakov Nahmias.

Products and Services

Future Meat Technologies groundbreaking process starts with GMO-free animal cells that grow indefinitely without animal-derived components..

Employees:

Undisclosed

January 2019

Post Valuation:

\$5.22M

May 2018

Total Raised to Date:

\$16.2M

January 2019

Leadership Team

- Rom Kshuk: Chief Executive Officer
- Moria Shimoni: Executive Vice President of Research and Development
- Yaakov Nahmias: Founder and Chief Science Officer

Technology Category:



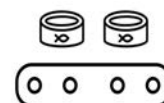
Biotechnology

Problem Addressed:



Novel Foods &
Ingredients

Value Chain Position:



Food Processing

Website: geltor.com

Country: United States

Year Founded: 2015

Business Description

Geltor is the conscious biodesign company creating the world's largest selection of premium protein ingredients, with unprecedented biocompatibility, purity, functionality, and benefits for consumers across product categories including skincare, dietary supplements, and food and beverage. Geltor's protein ingredients are certified as 100% animal-free, sustainably cultivated, and clinically demonstrated for high performance.

Products and Services

Geltor has developed an award-winning portfolio of high-value protein ingredients designed for use in consumer goods, from topical skincare formulations to dietary supplements. These proteins offer a range of unique benefits to users, including biocompatibility, sensory appeal, and clinically proven results in the appearance of youthful skin. Geltor's portfolio of collagen ingredients include the animal-free marine collagen, Collume™, and human collagen ingredient HumaColl21™, made with zero human or animal inputs. These products have served as the hero ingredients behind bestselling cosmetic formulations found around the world.

Employees:

32

December 2019

Post Valuation:

Undisclosed

January 2019

Total Raised to Date:

\$77.52M

November 2019

Leadership Team

- Alexander Lorestani: Co-Founder and Chief Executive Officer
- Nick Ouzounov: Co-Founder, Chief Technology Officer
- Jennifer Druskin: Vice President
- Monica Bhatia: Vice President
- Sachin Kelkar: Vice President

Key Achievements/ Partnerships

- 2018: Launched first ingredient (Collume™); Collume™ (then named N-Collage™) named CEW Innovation of the Year; closed Series A fundraise of \$18.5M led by Cultivian Sandbox Ventures
- 2019: HumaColl21™ launched, debuting in best-selling South Korean skincare range (AHC's "Ageless Real Eye Cream For Face")
- 2020: Launching 3rd beauty ingredient and first animal-free ingestible collagen for dietary supplements with GELITA

Technology Category:



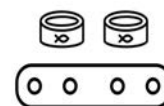
Foodtech

Problem Addressed:



Novel Foods &
Ingredients

Value Chain Position:



Food Processing

Website: hinoman.biz

Country: Israel

Year Founded: 2010

Business Description

Hinoman, Ltd., is a developer of revolutionary food tech platform to optimize protein cultivation. The company's newest, eco-friendly system includes a method for growing a high-protein, green vegetable ingredient quickly and safely to ensure a consistent supply, 24/7. Hinoman's hydroponics technology allows complete control and optimization of the plant's growth, and ensures all plants produced are pure, clean, and suitable for clean label application.

Products and Services

Hinoman is the cultivator of nutritional plants with medicinal properties used in protein shakes, smoothies, salad, beverages, and other related products. Hinoman's NextGen whole-protein ingredient, named "Mankai," is an aquacultured source of vegetable protein with exceptional nutritional value. Hinoman's ultra-modern hydroponic technology enables the ingredient to grow faster, and in larger quantities, than standard hydroponic techniques. Carrying the highest food-safety certifications, and employing state-of-the-art methods, Hinoman's proprietary system gives sustainable yields and guarantees a high protein profile optimally suited for the current trends in protein demand and beyond.

Employees:

Undisclosed

January 2019

Post Valuation:

Undisclosed

January 2019

Total Raised to Date:

\$15M

January 2019

Leadership Team

- Amit Inbart: Chief Technology Officer
- Ron Salpeter: Chief Executive Officer and Founder
- Oren Shani: Chief Operating Officer
- Miri Lapidot: Chief Scientific Officer
- Yehuda Gur: Vice President, Strategic and Chief of Staff

Technology Category:



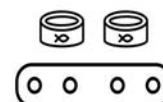
Foodtech

Problem Addressed:



Novel Foods &
Ingredients

Value Chain Position:



Food Processing

Website: innovopro.com

Country: Israel

Year Founded: 2013

Business Description

Innovopro is the first company in the world to launch an innovative chickpea protein 70% concentrate under the brand name of CP-Pro 70®, adding value to both producers and consumers. The ingredient has a unique combination of properties: its highly nutritious, functional and enables the creation of clean label products, providing the food industry with a valuable plant-based protein source.

Products and Services

Innovopro provides a new, non-GMO, not listed as allergen, plant-based protein and starch to the food industry, enabling the formulation of high quality clean label products, without compromising taste or appearance. Chickpea protein can be used in a versatile food category because: 1) It's a strong emulsifying agent that can replace ingredients that are allergenic/animal-based/contain gluten. 2) It has a smooth texture, due to the high water and oil binding capacities. 3) It's neutral in taste and color, and can be applied without the need for masking with artificial ingredients.

Employees:	Post Valuation:	Total Raised to Date:
3	Undisclosed	\$5.25M
January 2018	January 2019	January 2019

Leadership Team

- Taly Nechushtan: Chief Executive Officer
- Nitzan Natani Ben Chaim: Chief Technology Officer
- Guy Manor: Vice President of Business Development
- Karina Bedrack: Sales, Marketing and Logistics
- Michal Curtz: Process Development Engineer
- Matan Haber: Food Technologist
- Liat Dayan: Operation and Office Manager

Key Achievements/ Partnerships

- 2019: Finalist in the Food Matters Live convention's competition
- 2019: Awarded the European Union's Excellence Award
- 2019: Accepted into the EIT Rising Food Stars organization
- 2019: Finalist in the Food ingredient Europe competition
- 2019: Signed co-development & co-promotion agreement with Givaudan



Technology Category:

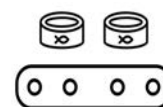


Packaging Tech

Problem Addressed:

Environmental Impact &
Waste

Value Chain Position:



Food Processing

Website: lactips.com/en**Country:** France**Year Founded:** 2014**Business Description**

Lactips produces water soluble and biodegradable thermoplastic pellets based on milk protein. Plastic transformation is realized through their secret industrial process. They are able to provide pellets fast and with high volume. Those pellets are used by clients as a raw material for thermoforming, films, or any kind of plastic applications. Their first mission, correlated with their fundamental values, is to provide their industrial clients with new disruptive innovations to help them entering new markets. Their product will be a cleaner alternative to oil-based products, more efficient, and sustainable for consumers and the environment.

Products and Services

Producer of a water soluble and biodegradable plastic raw material designed to help people to move towards biodegradable environment. The company's material offers enhanced dissolution in hot and cold water conditions for any usages, enabling clients to use it as a raw material for thermoforming, film or any kind of plastic application.

Employees:	Post Valuation:	Total Raised to Date:
11	\$18.17M	\$6.86M
April 2016	January 2018	January 2019

Leadership Team

- Frederic Prochazka: Co-Founder and Director of Scientific Board
- Marie Helene Gramatikoff: Chief Executive Officer
- Fabrice Plasson: Co-Founder and Member of Strategic Board

Key Achievements/ Partnerships

- July 2019: Lactips starts distribution partnership with IMCD Group in the Nordics and France, to market the bio-based and biodegradable thermoplastics pellets in technical and food applications
- May 2019: BASF signs exclusive contract with Lactips to market bio-based and biodegradable films for home care as well as industrial and institutional cleaning applications

Technology Category:



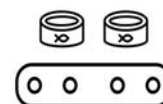
Biotechnology

Problem Addressed:



Novel Foods &
Ingredients

Value Chain Position:



Food Processing

Website: manusbio.com

Country: United States

Year Founded: 2011

Business Description

Manus Bio develops an advanced fermentation technology designed to recreate plant processes in microorganisms to produce natural ingredients through fermentation. The company's technology is used in manufacturing complex and bioactive natural products as flavors, fragrances, food ingredients, bio-pesticides and pharmaceuticals, enabling users to access to these natural ingredients across the world.

Products and Services

Manus Bio manufactures complex and bioactive natural products as flavors, fragrances, food ingredients, bio-pesticides and pharmaceuticals.

Employees:	Post Valuation:	Total Raised to Date:
27	\$50M	\$20.02M
March 2016	June 2018	June 2018

Leadership Team

- Dr. Ajikumar Parayil: Co-Founder and Chief Executive Officer
- Paul Boni: Chief Financial Officer
- Jeff Anderson: Chief Operating Officer
- Christine Santos: Chief Technology Officer
- Wei Huang: Chief Manufacturing Officer
- Gregory Stephanopoulos: Co-Founder

Key Achievements/ Partnerships

- November 2018: Named "Start-Up to Watch" by Chemical & Engineering News
- November 2018: Global Lyme Alliance partners with Manus Bio to develop environmentally-friendly tick repellent

Technology Category:



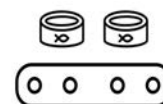
Biotechnology

Problem Addressed:



Novel Foods &
Ingredients

Value Chain Position:



Food Processing

Website: memphismeats.com

Country: United States

Year Founded: 2015

Business Description

Memphis Meats' mission is to bring delicious, healthy meat to your table by harvesting it from cells instead of animals. They call it cell-based meat, and their goal is to transform how food gets to the plate, while continuing to eat food people love. Same great taste, better for the planet.

Products and Services

Memphis Meats makes food by sourcing high-quality cells from animals and cultivating them into meat — think of a farm at a tiny scale. They cut some steps from the current process (like raising and processing animals) and bring nutritious, tasty meat to your table.

Employees:

20

January 2018

Post Valuation:

\$550M

January 2020

Total Raised to Date:

\$183M

January 2020

Leadership Team

- Dr. Uma Valeti: Chief Executive Officer and Co-Founder
- Nicholas Genovese: PhD and Chief Science Officer

Key Achievements/ Partnerships

- January 2020: Memphis Meat Raises \$161 million in funding, aims to bring cell-based products to consumers- Forbes
- January 2020: Acknowledgement from Forbes, CNN, NPR, PBS, Washington Post, Rolling Stone, and Netflix

Technology Category:



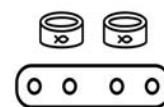
Foodtech

Problem Addressed:



Novel Foods & Ingredients

Value Chain Position:



Food Processing

Website: mycotechcorp.com

Country: United States

Year Founded: 2013

Business Description

MycoTechnology, a food technology company, utilizes fungi based food-processing platforms to transform the flavor and value of agricultural products. The platform can be used to solve a variety of challenges faced by the food, beverage and flavor industries. MycoTechnology has released ClearTaste, an all natural, gmo free, organic bitter blocker that is Kosher and Halal certified. ClearTaste improves the flavor of various agriculture products. MycoTechnology also engages in fermenting agricultural products with strains of gourmet fungi. The company offers myceliated chocolate as well as robusta and arabica coffee beans. It develops and licenses a technology to the industry to naturally improve the flavor of robusta and arabica coffee. The company was incorporated in 2013 and is based in Aurora, Colorado.

Products and Services

ClearTaste is :The World's First Organic Bitter Blocker." Derived from a mushroom extract, ClearTaste effectively acts as a shield for the tongue, temporarily blocking bitter tastes from being perceived. In an independent 3rd party study, ClearTaste was shown to block 17 of the 25 bitter receptors found on the tongue.

PureTaste is a complete vegetable protein made through the fermentation of Shiitake mushrooms. The protein is highly digestible, non-GMO and vegan which is low in calories, fats and carbohydrates but loaded with vitamins and minerals that cannot be found in other competitive proteins. PureTaste has a cereal taste and neutral aroma making it ideal for new product development.

Employees:

63

February 2020

Post Valuation:

\$242.12M

February 2020

Total Raised to Date:

\$103.8M

February 2020

Leadership Team

- Pete Lubar: Chief Operating Officer
- Jonathan Jachimiec: Chief Financial Officer
- Bruno Dubois: Global Vice President Sales
- Mary Smith: Corporate Intellectual Property Counsel
- Fay Chu Fong: General Counsel

Key Achievements/ Partnerships

- January 2020: MycoTechnology in the news- the Washington Post, Fortune, Quartz, The Guardian, The Wallstreet Journal, WIRED, Yahoo Tech, etc.

Technology Category:

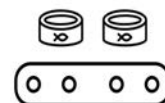


Biotechnology

Problem Addressed:

Novel Foods &
Ingredients

Value Chain Position:



Food Processing

Website: noblegen.com**Country:** Canada**Year Founded:** 2013**Business Description**

Noblegen Inc. is an advanced biotechnology company dedicated to developing cost-effective, naturally-derived ingredients for the human nutrition industry. They utilize a unique platform that combines proven industrial methods with our proprietary “Facilitated Expression” technique to commercially cultivate microorganisms. This platform allows for the development of innovative products.

Products and Services

Manufacturer of unique proteins and oils intended to increase global accessibility of sustainably produced nutrition. The company's products are made from the microorganism, *Euglena gracilis*, using fermentation techniques at the cellular level by adjusting key parameters in the production process, enabling companies to develop cost-effective dietary, healthy, and biochemical products.

Employees:

80

January 2020

Post Valuation:

Undisclosed

January 2020

Total Raised to Date:

\$26.07M

May 2019

Leadership Team

- Adam Noble: Co-Founder and Chief Executive Officer
- Ron Price: Chief Financial Strategy Office
- Ron Savoy: Chief Technical Operations Officer

Key Achievements/ Partnerships

- April 2019: Self-GRAS for Beta-Glucan Isolate Ingredient
- December 2019: Self-GRAS for Protein-Rich Flour Ingredient

Technology Category:



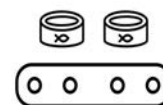
Biotechnology

Problem Addressed:



Novel Foods &
Ingredients

Value Chain Position:



Food Processing

Website: nuritas.com

Country: Ireland

Year Founded: 2014

Business Description

Nuritas combines artificial intelligence and genomics to discover and unlock natural Bioactive Peptides with extraordinary health benefits. Their proprietary platform targets, predicts and unlocks novel bioactive peptides from food sources. These deliver highly specific, efficient and life-changing health solutions. Their platform has a strong proof of concept having already discovered numerous impressive peptides including an anti-inflammation and an MRSA-killing peptide.

Products and Services

Nuritas Ltd is a bioinformatics technology company specializing in the discovery of peptides (chains of amino acids) with functional health or therapeutic benefits in nutrition and cosmetics. Nuritas' disruptive approach to discovery combines artificial intelligence and DNA analysis to data-mine billions of molecules, enabling the company to rapidly and efficiently provide access to the most healthbenefiting components within foods, called bioactive peptides. Bioactive peptides provide unique solutions for the maintenance of health and wellness including anti-inflammatory activity, antimicrobial activity, muscle recovery enhancement, skin anti-aging solutions, and the potential management of blood sugar levels for type 2 diabetics. Nuritas' specialties include: bioactive peptide discovery and development, pure peptides, peptide mixtures, hydrolysates, multi targeted peptides, bioinformatics, artificial intelligence for drug discovery, peptide drugs, and food derived peptides.

Employees:

60

January 2020

Post Valuation:

Undisclosed

January 2020

Total Raised to Date:

\$61.27M

January 2019

Leadership Team

- Nora Khaldi: Chief Science Officer and Founder
- Emmet Browne: Chief Executive Officer
- Cyril Lopez: Bioinformatics
- Vincent Monahan: Business development
- Meaghan Lee-Erlandsen: Operations Executive

Key Achievements/ Partnerships

- October 2019: Nuritas shortlisted for 3 Pharma Industry Awards

Technology Category:



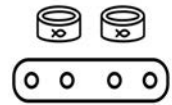
Biotechnology

Problem Addressed:



Novel Foods &
Ingredients

Value Chain Position:



Food Processing

Website: perfectdayfoods.com

Country: United States

Year Founded: 2014

Business Description

Perfect Day makes milk protein that is nutritionally identical to protein from cow's milk, but made using flora fermentation instead of animals. They're working with food and dairy companies to deliver high-quality protein and products that are delicious, nourishing, sustainable, and humane.

Products and Services

Perfect Day provides flora-based (animal-free) dairy protein with the same nutritional profile and culinary functionality as the protein found in cow's milk.

Employees:	Post Valuation:	Total Raised to Date:
75	\$440M	\$201.48M
November 2019	October 2019	October 2019

Leadership Team

- Perumal Gandhi: Co-Founder
- Ryan Pandya: Co-Founder and Chief Executive Officer
- Bonney Oommen: Chief Product and Strategy Officer
- Tim Geistlinger Ph.D: Chief Technology Officer

Key Achievements/ Partnerships

- July 2019: Perfect Day launched a limited edition animal-free ice cream made with flora-based protein. 1,000 bundles of 3 pints each (in flavors Vanilla Salted Fudge, Vanilla Blackberry Toffee and Milky Chocolate) were released via ecommerce and sold out within hours
- November 2018: Perfect Day announced a joint development agreement with Archer Daniels Midland (ADM) to scale up production and commercialize dairy protein using fermentation in microflora

Technology Category:



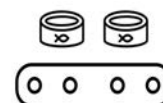
Foodtech

Problem Addressed:



Novel Foods &
Ingredients

Value Chain Position:



Food Processing

Website: protifarm.com

Country: Netherlands

Year Founded: 1981

Business Description

Over the next few years, the way we eat will change completely. Effective, sustainable solutions will help us secure both a healthy lifestyle and a healthy planet. To make it possible, Protifarm, a Dutch agri-tech company, has created AdalbaPro the world's first ingredient line made from insects for the food and beverage industry. With AdalbaPro Textured Insect Protein (TIP) and AdalbaPro Insect Protein Concentrate (IPC), Protifarm managed to create solutions where edible insects become the new normal. AdalbaPro is made from the *Alphitobius diaperinus*, better known as the buffalo beetle, a hardy insect with an exceptional nutritional value. It is not only highly nourishing, but also far more sustainable than other sources of protein, requiring dramatically less land, water, and feed than other alternatives. Our planet-friendly solution that can be used to enhance and develop food and beverages such as baking products, sports nutrition, pasta, meat and meat alternatives.

Products and Services

Protifarm makes nutritional and natural food supplements includes protein powder, protein isolates, purified oils, chitin powder, fertilizers and related agro-based consumption products that are made from whole dried buffalo larvae containing non-GMO, organic and gluten-free ingredients.

Employees:	Post Valuation:	Total Raised to Date:
Undisclosed	Undisclosed	\$11.07M
January 2019	January 2019	January 2019

Leadership Team

- Tom Mohrmann: Chief Executive Officer
- Guus Peters: Chief Operating Officer
- Niek Steeghs: Chief Insect Officer
- Heidi De Bruin: Co-Founder

Key Achievements/ Partnerships

- December 2019: Protifarm introduced AdalbaPro ingredient range at Fi Europe
- November 2019: Oost NL invests in Agri-tech scale-up Protifarm



Technology Category:



Packaging Tech

Website: tipa-corp.com

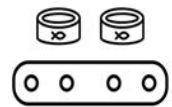
Problem Addressed:



Environmental Impact &
Waste

Country: Israel

Value Chain Position:



Food Processing

Year Founded: 2013

Business Description

TIPA® compostable packaging meets the specifications brands and converters are looking for in flexible packaging for the food and non-food industries. Their packaging is partially bio-based, fully compostable and has similar mechanical and optical properties as conventional, flexible plastic packaging, including transparency, flexibility, sealing strength, durability, barrier and shelf-life. Their approach has successfully brought a fully compostable alternative to the market. TIPA Corp was named Technology Pioneer by the World Economic Forum in 2019 and received the Transformational Solution Award in the category of waste, water, and land at the 2019 Transformational Business Awards.

Products and Services

TIPA®'s flexible packaging is made from a proprietary blend of compostable polymers, and their patent-protected technology combines different blends of compostable polymers to achieve a wide range of packaging solutions including film reels, printed reels, and finished packaging

Employees:	Post Valuation:	Total Raised to Date:
40	Undisclosed	\$48.81M
September 2019	January 2019	January 2019

Leadership Team

- Daphna Nissenbaum: Chief Executive Officer
- Merav Koren: Vice President of Marketing

Key Achievements/ Partnerships

- January 2019: based on its unique ground breaking technology platform, Biotals has built a versatile pipeline of products with novel modes of action against key pests and diseases, with the first product, a biofungicide, expected to enter the US market in 2022

WASTE & OTHER

Companies:

AgriProtein.....61

Winnow.....62

WISErg Corporation.....63

Technology Category:



Biotechnology

Problem Addressed:



Environmental Impact & Waste

Value Chain Position:



Waste & Other

Website: agriprotein.com

Country: United Kingdom

Year Founded: 2008

Business Description

AgriProtein is spearheading the sustainability revolution and developing a new industry called nutrient recycling. Mimicking nature, AgriProtein uses its cutting-edge insect technology to upcycle existing organic waste streams at an industrial scale into a sustainable source of natural protein. Its bioconversion process takes organic waste streams from food factories, supermarkets, farms and restaurants, and upcycles these using black soldier fly larvae into three core end-products: an insect based complete protein – MagMeal™, a versatile, natural oil – MagOil™ and a rich residual soil conditioner – MagSoil™. AgriProtein's mission is to close the loop in food production by adopting a circular economy strategy to offer a sustainable alternative for organic waste that tackles the world's growing issue of food waste and losses. The business turns the conventional view of waste on its head: instead of a material with no value and no future use, at AgriProtein, waste is a valuable resource with significant potential.

Products and Services

MagMeal™ is a sustainable, high quality animal protein derived from black soldier fly larvae that can be fed to all monogastric animals including fish, chickens and pets. It is a 55% protein feed ingredient with a highly digestible blend of essential amino acids, demonstrated by extensive feed trials and peer reviewed literature.

MagOil™ is a versatile, natural oil that is extracted from larvae with a high concentration of lauric acid. It is suitable for use in aquaculture feed, pet food and as a replacement for less sustainable oils such as fish oil, coconut and palm oil.

MagSoil™ is the larval residue or compost that is left over at the end of the bioconversion process. High in nitrogen, phosphorus and potassium (N-P-K), it is a valuable, organic soil conditioner.

Employees:

Undisclosed

January 2019

Post Valuation:

\$117M

December 2016

Total Raised to Date:

\$137.61M

December 2018

Leadership Team

- Jason Drew: Chief Executive Officer
- John Diener: Chief Operating Officer
- Mark Williams: Chief Financial Officer
- Melanie Manners: Group HR Director
- Simon Houghton: Global Business Development and Strategy Director

Key Achievements/ Partnerships

- January 2019: Named Global Cleantech 100 Company

Technology Category:



Data Analytics & AI

Problem Addressed:



Environmental Impact & Waste

Value Chain Position:



Waste & Other

Website: winnowsolutions.com

Country: United Kingdom

Year Founded: 2013

Business Description

Winnow develops artificial intelligence used by a growing number of organisations to cut food waste in their operations. Its digital tools provide data to drive improvements in kitchen production processes and to help cut food waste in half, saving money and reducing environmental footprint at the same time.

Winnow has been adopted by over 1,300 sites globally, operates in over 40 countries with offices in London, Dubai, Singapore, Shanghai and Iowa City. Winnow works with contract catering firms, restaurant groups, hotel chains, cruise lines and supermarkets; clients include the Compass Group, Elinor, IKEA, Hilton, Accor Hotels, IHG, and Carnival Cruises.

Kitchens that use Winnow tend to see a 40-70% reduction in food waste within 6-12 months, driving food cost savings in the range of 2%-8%, improving margins while doing the right thing.

Products and Services

Winnow builds digital tools to help chefs run more profitable and sustainable kitchens by cutting food waste in half. Their new product, Winnow Vision, harnesses the power of computer vision (a form of AI) to solve the problem of food waste in the hospitality sector. It allows kitchens to automatically track food waste, helping chefs easily pinpoint waste, cut costs and save time.

Employees:

60

November 2019

Post Valuation:

\$53.49M

October 2019

Total Raised to Date:

\$31.16M

October 2019

Leadership Team

- Marc Zornes: Co-Founder and Chief Executive Officer
- Kevin Duffy: Co-Founder
- David Walker: Co-Founder

Key Achievements/ Partnerships

- Early-adopter partners IKEA and Emaar Hospitality Group, to test the technology in leading commercial kitchens around the world
- Winnow Vision system records food items with similar or better accuracy compared to humans

Technology Category:



Data Analytics & AI

Problem Addressed:



Environmental Impact &
Waste

Value Chain Position:



Waste & Other

Website: wiserg.com

Country: United States

Year Founded: 2011

Business Description

Founded in 2009 by ex-Microsoft employees Larry LeSueur and Jose Lugo (LeSueur has since left the company), WISErg provides grocery stores with a way to recycle expired produce and leftover prepared foods with their self-contained digester, the Harvester. Almost any food is fair game for the Harvester, including meat, fish, and produce. The machine extracts any nutrients remaining in the food and stabilizes the solution so that it can be transferred to a WISErg location in the region. Essentially, the machine prevents the food from putrefying and reduces odors, pests, and greenhouse gas emission that commonly result from the decomposition process. At the Washington facility, the waste material is transformed into liquid fertilizer that is 100% water soluble and approved for use in organic crop production. According to WISErg, its patented technology generates nitrogen that is more readily available compared to other organic fertilizers. There are no application restrictions and the liquid can be applied using a wide variety of fertilizer equipment including drip tape, sprayers, and overhead irrigation.

Products and Services

WISErg is focused on creating a revolutionary solution for diverting food scraps from landfills, composters, and digesters. It starts by using a WISErg Harvester to capture the nutrients in the food discard stream — one grocery store, cafeteria, and restaurant at a time. Once stabilized in the Harvester, materials are transferred to a nearby WISErg facility, where they are processed into fertilizer.

Employees:	Post Valuation:	Total Raised to Date:
40	\$79.2M	\$69.8M
January 2018	January 2018	January 2019

Leadership Team

- Jose Lugo: Co-Founder
- Andy Thomas: Chief Executive Officer

Key Achievements/ Partnerships

- October 2017: WISErg and Vivid Life Sciences announces partnership to deliver fully sustainable agriculture products
- January 2018: WISErg raises \$19.2 million to fund California plant



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