THE OFFICIAL 2021 FOODTECH 500

SHOWCASING THE GLOBAL ENTREPRENEURIAL TALENT AT THE INTERSECTION OF FOOD, TECHNOLOGY AND SUSTAINABILITY

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FOREWORD

ALESSIO D'ANTINO, CEO & FOUNDER, FORWARD FOODING

Every year we craft the FoodTech 500, the definitive list of the most groundbreaking global businesses at the intersection of food, technology & sustainability. Our objective is to showcase the 'underdogs' of AgriFoodTech and shine a spotlight on the leading global innovators, who are creating impactful solutions to better the global food system, from farm to fork.

When we set to create the very first FoodTech 500 in 2019, our ambition was to celebrate those who are shaping the future of food. Thus, we developed a proprietary data-driven methodology, which allowed us to identify and rank the top 500 international companies within the global FoodTech ecosystem. Our expectations were high...already last year, the volume and quality of finalists exceeded our expectations. A diverse, and future-thinking world of AgriFoodTech was revealed in our 500 companies. It framed and challenged our very own perception of the food landscape.

Today, we're very proud that the 2021 edition has gone above and beyond what we had anticipated. With over 2,250 entries from over 85 countries, this year's edition acknowledges an even more diverse set of applicants who are bettering our food system with their solutions from every angle.

Three years into the making, we have witnessed the industry going from strenght to strenght. To date the FoodTech industry has created over 70+ IPOs and over 85 Unicorns globally. This year's FoodTech 500, features 10 publicly-listed companies, 7 unicorns and another 20 businesses on the trajectory to join this pack within the next 12-24 months. This is the testament that the entrepreneurial talent behind the global FoodTech industry is capable of doing great business - while, of course, doing good to the planet.

As we sit back and reflect on the 2021, and after crafting the FoodTech 500 for the third time in a row I am very proud to see that our mission of making the FoodTech 500 the most renown list of top FoodTech innovators and disruptors in the world is now a reality.

A massive thank you goes to our team for making it happen again, to everyone who entered, and first and foremost congratulations to the hard work that all the entrepreneurs put it to solve the challenges of our Food System.

"THIS YEAR'S LIST FEATURES 10 PUBLICLY-LISTED COMPANIES, 7 UNICORNS AND ANOTHER 20 BUSINESSES ON THE TRAJECTORY TO JOIN THIS PACK WITHIN THE NEXT 12-24 MONTHS. THIS IS THE TESTAMENT THAT THE ENTREPRENEURIAL TALENT BEHIND THE GLOBAL FOODTECH INDUSTRY IS CAPABLE OF DOING GREAT BUSINESS WHILE, OF COURSE, DOING GOOD TO THE PLANET."

ABOUT THE FOODTECH 500

Inspired by the Fortune 500, the FoodTech 500 drafts the **definitive list of the most groundbreaking global businesses** at the intersection of food, technology & sustainability.

The FoodTech 500's mission is to **shine a spotlight on the leading global innovators across the AgriFoodTech ecosystem**, from farm to fork. These entrepreneurs and the companies they have founded are creating impactful solutions to better the global food system.

2021 marked the **third edition of the competition** and received more than 2,250+ applications from AgriFoodTech startup & scaleup companies from 85 countries.

THE FOODTECH 500 AT THE GLANCE

2019-2021 editions

5,500+
Applications received

180+
Countries reached (audience)

40+
International media partners

350K+
Reports downloaded

2.5M+
Social media impressions over time

350M
Monthly readership (press coverage)

WHY AGRIFOODTECH?

"AgriFoodTech is the emergent sector exploring how technology can be leveraged to improve efficiency and sustainability in designing, producing, choosing, delivering & enjoying food."

(Forward Fooding definition, 2019)

How does AgriFoodTech address the rapid need for change across the food ecosystem?

KEY CHALLENGES

It is no secret that the global food ecosystem currently faces huge and immediate challenges, many of which are only escalating as time goes on:

9.1B
Estimated population the world is set to reach by 2050

31%
Percentage of global Greenhouse Gas generated by food production

40%
Percentage of fruits & vegetables wasted each year globally

(Source: FAO, Our World in Data, WWF)

AGRIFOODTECH IS THE ANSWER

These challenges require innovative solutions. Increasingly, it is AgriFoodTech startup and scaleups who are tackling these issues, as the sector is booming and growing at **56.1% CAGR since 2016**.

$145.1B
Global funding raised by international AgriFoodTech startup and scaleup companies since 2012

$50.4B
Global funding raised by international AgriFoodTech startup and scaleup companies in 2021

(Source: FoodTech Data Navigator)

We believe entrepreneurship can make a difference in solving some of the biggest issues that are affecting our current food system. Combined with the infrastructure and expertise from corporates, it makes the 'secret sauce' to create a brighter future of food. These collaboratories will create the biggest impact on how we live and the future choices available to us as consumers.

PROPRIETARY TAXONOMY AND DATA

INDUSTRY-PROVEN TAXONOMY

To organise the data behind the FoodTech 500, we deploy our proprietary taxonomy covering the entire food supply chain and aggregate the data into the FoodTech Data Navigator, our data intelligence platform. We categorise each single company according to 8 macro activities which are divided into sub-domains, and add all relevant technology tags to each of them.

8 macro activities divided in sub-domains:

160+ technology tags:
Plant-based, Cellular agriculture, Alternative protein, Insects, Blockchain, IoT, Data Intelligence, Functional food & drinks, Decision support technology, Robotics, Automation, Dark kitchen, Personalisation, Probiotics, Aeroponics, Hydroponics, 3D printing etc....

TO LEARN MORE VISIT **FORWARDFOODING.COM/WHAT-IS-FOOD-TECH/**

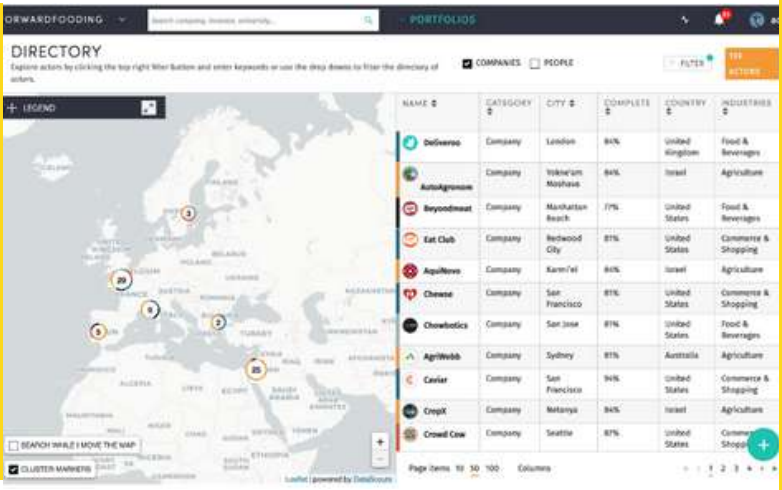
GLOBAL DATABASE

FOODTECH DATA NAVIGATOR
powered by FORWARD FOODING

The FoodTech Data Navigator is the world's first AgriFoodTech Ecosystem Platform. Our state-of-the-art data platform has the ability to capture and monitor the evolution of interconnected AgriFoodTech startup companies, institutional and corporate investors and accelerators globally. By merging multiple sources of data, we are able to provide insight-rich and up-to-date information about all the major international AgriFoodtech players.

TO LEARN MORE VISIT **FORWARDFOODING.COM/FOOD-TECH-DATA**

Interested in learning how FoodTech Data can transform your business?
Get access to over 16,000+ global AgriFoodTech ecosystem actors and try our platform for yourselves by booking a free demo.



RANKING METHODOLOGY

We processed the data from each company application using the FoodTech Data Navigator's unique set of algorithms which provided us with both the business size score and the digital footprint score. We then assessed each business about its sustainability, using data from a self-assessed questionnaire devised by sustainability experts from the academic world that takes into account each Sustainable Development Goal the companies are contributing to achieve.

Business Size Score

The business size score is generated via a proprietary algorithm that predicts business growth based on financial performance indicators. These include the number of employees, funding stage, amount of funds raised to date, as well as the number of offices from which they operate. The algorithm is controlled by a test centre of multiple fast-growing company lists that are already available on the market.

Digital Footprint Score

The digital footprint score is generated via a proprietary algorithm as a prediction of business digital presence growth based upon each company's website traffic, social media performance, and following growth. The algorithm takes into account over 25 elements such as websites ranking on search engines, web traffic as well as the number of social media followers, traffic, and engagement.

Sustainability Score

In the absence of a global framework to measure the business sustainability impact specifically for FoodTech companies, we have chosen to create, in collaboration with sustainability experts from the Department of Management of the University of Turin (Italy), a unique survey and a scoring framework based on a selected number of Sustainable Development Goals from the United Nations.

CREATING THE FINAL RANKING

The final step of the process was to then aggregate the three individual scores (business size, digital footprint, sustainability score), giving each finalist a score out of 300. This then determined their ranked position on the overall list and their respective ranking by AgriFoodtech macro-activities (see Taxonomy - page 5).

TO LEARN MORE VISIT **FORWARDFOODING.COM/METHODOLOGY**

SUSTAINABILITY SCORE

To assess each company's sustainability score, we used a self-assessment questionnaire devised by sustainability experts and academics. The scoring framework is based on a selection of the below Sustainable Development Goals from the United Nations.

CREDITS

The 2021's FoodTech 500 list is prepared under the direction of Alessio D'Antino, Forward Fooding CEO. All information and data provided by the companies are reviewed and verified by Forward Fooding's team. In addition, we used data provided by the FoodTech Data Navigator Intelligence, which deploys the Data Scouts technology to calculate the digital footprint score and the business size score.

The following individuals have collaborated with Forward Fooding's team to bring to life the methodology behind the 2021 FoodTech 500: Max Leveau, Leonardo Parisi, Sol Ponteville, Aurora Cicillini, Marta Pujal, and among other collaborators.

A special thanks go to the sustainability experts from the Department of Management (University of Turin, Italy): Paola De Bernardi, Simona Grande and Alberto Bertello who were instrumental to develop the methodology for creating the sustainability score.

INTRODUCING THE 2021 FINALISTS

2021 FINALISTS AT A GLANCE

KEY FIGURES

$9.6B+
TOTAL FUNDS RAISED OVER TIME

74%
REVENUE-GENERATING COMPANIES

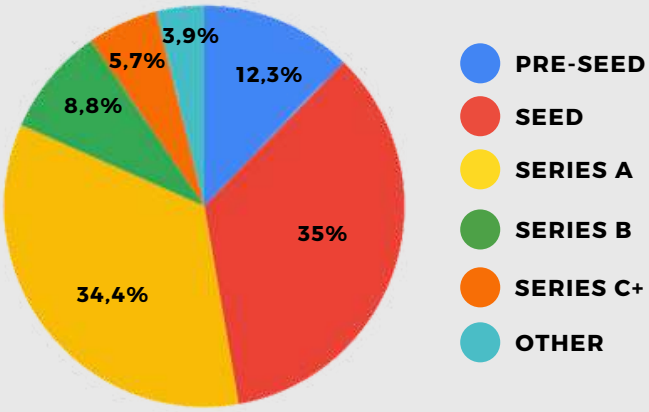
98%
COMPANIES RECEIVED INVESTMENTS

10
PUBLIC-TRADED COMPANIES WITHIN THE 2021 FOODTECH 500

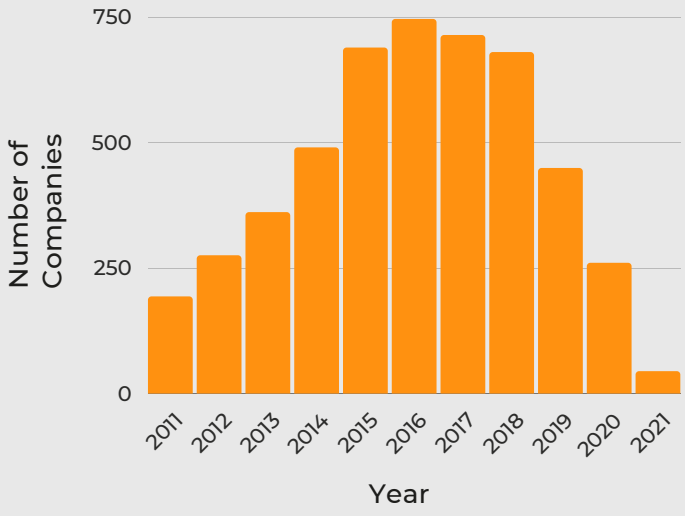
7
COMPANIES VALUED $1B+ WITHIN THE 2021 FOODTECH 500

20
COMPANIES ON THE TRAJECTORY TO IPO (WITHIN THE NEXT 12 MONTHS)

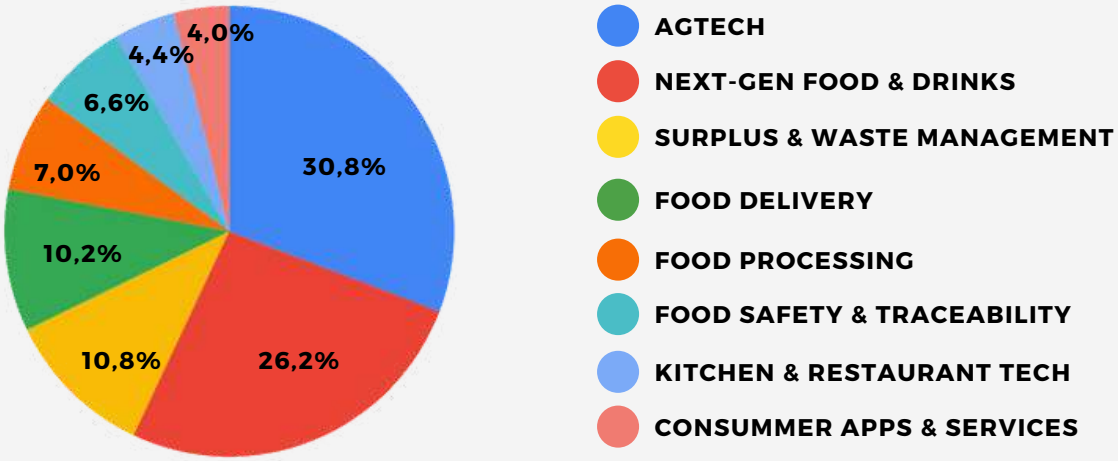
FUNDING STAGE



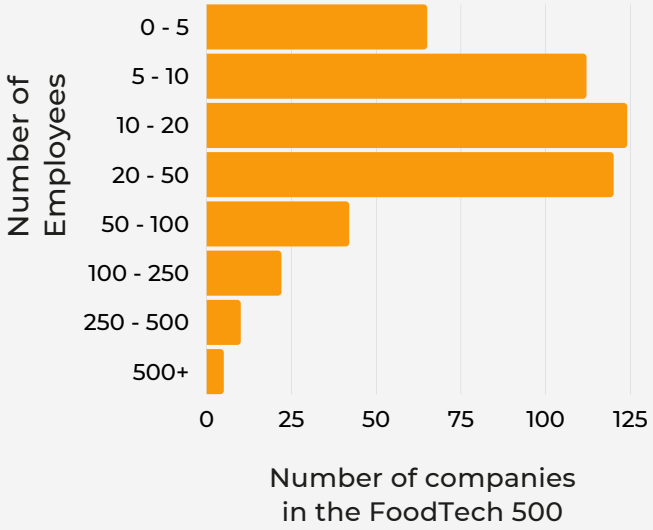
FOUNDING DATES



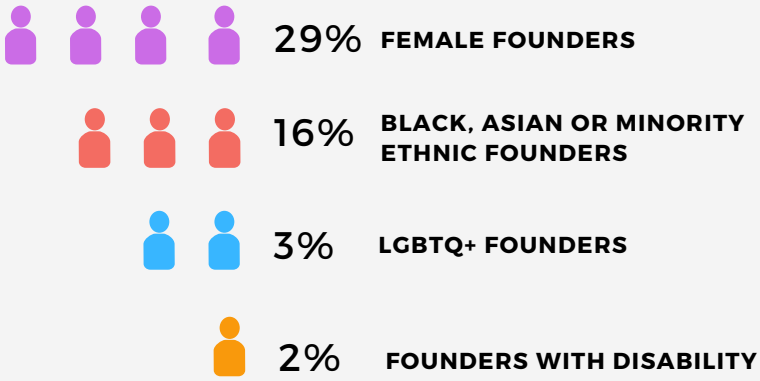
SPLIT BY ACTIVITIES



AVERAGE NUMBER OF EMPLOYEES



FOUNDING/ LEADERSHIP TEAM



TOP 3 MOST TACKLED SDGs

(% count by company)

SUSTAINABLE DEVELOPMENT GOALS

46%

of finalist companies chose SDG 2 among the Top 3 goals they're contributing to with their solutions

40%

of finalist companies chose SDG 12 among the Top 3 goals they're contributing to with their solutions

34%

of finalist companies chose SDG 3 among the Top 3 goals they're contributing to with their solutions

Certified B Corporation

21

companies are B-corp certified or in process to become certified. Bcorp is a global certification of "social and environmental performance".

110

companies invest in social infrastructure (such as schools and healthcare facilities) to encourage educated people to move to rural areas to work in agri-business.

260

companies strive to sourced key commodities sustainably (eg. palm oil, soy, etc).

FUTURE IPO ANALYSIS

TRANSFORMING THE FOOD & BEVERAGE LANDSCAPE ONE IPO AND UNICORN AT THE TIME

2021 MARKS A RECORD-BREAKING YEAR FOR THE GLOBAL AGRIFOODTECH ECOSYSTEM

$50.4B
INVESTED IN AGRIFOODTECH GLOBALLY

+67%
GLOBAL INVESTMENT GROWTH SINCE 2020

+56.1%
INVESTMENT CAGR 2016-2021 (COMPOUND ANNUAL GROWTH RATE)

(Source: FoodTech Data Navigator)

10
PUBLIC-TRADED COMPANIES WITHIN THE 2021 FOODTECH 500 TO DATE

7
COMPANIES ON THE TRAJECTORY TO IPO IN THE NEXT 12 MONTHS WITHIN THE 2021 FOODTECH 500

13
COMPANIES ON THE TRAJECTORY TO IPO IN THE NEXT 24 MONTHS WITHIN THE 2021 FOODTECH 500

2021 FOODTECH 500's PUBLIC LISTED COMPANIES

BENSON HILL · WILK THE REVOLUTION OF MILK · else · HELLO FRESH · MeaTech · Light Science Technologies · nextferm · PlantArcBio · savor Eat · GreenLight BIOSCIENCES

Based on proprietary financial data collected on over **7,000 international AgriFoodTech companies** since 2011 and by extracting and analysing the data related to a selection of over 30 publicly-traded International FoodTech companies, the Forward Fooding team was able to pinpoint **3 main IPO's indicators based on the longevity of the company before IPO'ing, velocity between funding rounds and latest funding round completed.** Thus, the analysis conducted over these dataset allowed to identify another **7 companies among the 2021 FoodTech 500 pack that seem to be on the path to file their IPOs within the next 12 months.** These findings are also confirmed by the fact that one of the above-mentioned companies has already filed for IPO in October 2021 and another 3 businesses have already joined the 'Unicorn' club. Finally, Forward Fooding have taken a step further to apply the same benchmarks over the rest of the 2021 FoodTech 500 list and have identified another 13 front-runner companies on the trajectory to file their IPOs within the next 24 months.

TO LEARN MORE VISIT **FORWARDFOODING.COM/METHODOLOGY**

REPRESENTED COUNTRIES

Entires received from **85** countries across the globe

The 2021 FoodTech 500 finalists represent **47** countries around the globe

ARGENTINA · AUSTRALIA · AUSTRIA · BANGLADESH · BELARUS · BELGIUM · BRAZIL · CANADA · CHILE · CHINA · COLOMBIA · DENMARK · EGYPT · ESTONIA FINLAND · FRANCE · GERMANY · GREECE · HONG KONG · ICELAND · INDIA IRELAND · ISRAEL · ITALY · KENYA · LUXEMBOURG · MALAYSIA · MEXICO NETHERLANDS · NEW ZELAND · NORWAY · PHILIPPINES · POLAND · RUSSIA SAUDI ARABIA · SINGAPORE · SOUTH AFRICA SOUTH KOREA · SPAIN · SWEDEN · SWITZERLAND · THAILAND · TURKEY UNITED ARAB EMIRATES · UNITED KINGDOM · UNITED STATES · ZAMBIA

2021 FULL-RANKED LIST

VISIT THE FOODTECH 500 WEBSITE FOR MORE DETAILS'

Rank	Name
1	Infarm
2	Plenty
3	Ynsect
4	Benson Hill
5	Imperfect Foods
6	Bowery Farming
7	HelloFresh
8	Pivot Bio
9	Too good to go
10	NotCo
11	Heura
12	Protix
13	Farmy
14	Good Catch Foods
15	Phenix
16	Winnow
17	Click & Grow
18	Upward Farms
19	Agrilution
20	BlueNalu
21	Press Healthfoods
22	Algama Foods
23	CarbonCloud
24	80 Acres Farms
25	Vibe Imaging Analytics
26	HowGood
27	CropX
28	myfood
29	HUNGRY
30	Kafoodle
31	Shiok Meats
32	Agrivi
33	ZeroCater
34	yamo
35	v2food
36	SideChef
37	Wasteless
38	The Vurger Co
39	Agricolus
40	Mori
41	Full Harvest
42	Freight Farms
43	Biomilq
44	CrowdFarming
45	Hazel Technologies
46	Hargol FoodTech
47	AgriWebb
48	AgBiome
49	Mootral
50	TerViva
51	Planted Foods
52	Toast Ale
53	Gold&Green Foods
54	Foodpairing
55	Spoiler Alert
56	MilkRun
57	AgriDigital
58	Urban crops solutions
59	Eagle Genomics
60	Semios
61	Foodsmart
62	The Yield
63	No Evil Foods
64	Good Club
65	Naio Technologies
66	SupPlant
67	Frigo Magic
68	Vitirover
69	Novameat
70	Oishii
71	Greenlight Biosciences
72	Square Roots
73	NutriFusion
74	Rantizo
75	Endless West
76	Crowd Container
77	Evja
78	Small Robot Company
79	Spoon Guru
80	Bio-Lutions
81	In Ovo
82	Circular Systems
83	Brightseed
84	Tastewise
85	Crisp
86	Algal Tech
87	JIMINI'S
88	Spira
89	Better Nature
90	Foodmaestro
91	Food Cycle Science
92	Producers Market
93	Mimica
94	IGS
95	Lifesum
96	SWAT MAPS
97	Frizata
98	Raglan Food Co
99	Rozum Robotics
100	AKOLogic
101	Kaffe bueno
102	FOODICS
103	Locus Agricultural Solutions
104	GoodDot
105	Modern Baker
106	Lettus Grow
107	Vertical Future
108	Plant Jammer
109	ResQ Club
110	Novolyze
111	Mayani
112	FarmLab
113	Cueillette Urbaine
114	Ripe io
115	Phytech
116	Meal Canteen
117	Quomi
118	SEVENROOMS
119	Alchemy Foodtech
120	Nuritas
121	Breedr
122	9Growers
123	Zero Egg
124	Nourished
125	YASAI
126	ThisFish
127	Zero Carbon Farms
128	Ancient + Brave

2021 FULL-RANKED LIST

VISIT THE FOODTECH 500 WEBSITE FOR MORE DETAILS'

Rank	Name
129	Collectiv food
130	Air Protein
131	Formo
132	MushLabs
133	Farmstand
134	FarmWise Labs
135	Babylon Micro-Farms
136	KwikBasket Solutions
137	New Age Meats
138	GOURMEY
139	Sensegrass
140	ClimateAI
141	Foodspace Technology
142	Sound Agriculture
143	Sencrop
144	byFlow
145	Ecorobotix
146	Fábrica Meatz
147	IUNU
148	Evofoods
149	Feat Food
150	Better Origin
151	Else
152	Intello Labs
153	Authena
154	Grainstone
155	Iron Ox
156	Tebrito
157	Tindle
158	Xfarm
159	Fresh and Safe
160	Fieldcraft
161	Siga
162	Biotalys
163	Mycobites
164	Flying Spark
165	The Protein Brewery
166	Karma
167	AgriTask
168	Natural Machines
169	Amai Proteins
170	Qummy
171	Agtools
172	Mycorena
173	Nordic Harvest
174	AgroScout
175	Crover
176	eggXYt
177	Waterfield Farms
178	The Live Green Company
179	EntoCube
180	SavorEat
181	Whywaste
182	Afresh
183	Noblegen
184	VitiBot
185	Elaisian
186	Consentio
187	MyEasyFarm
188	Vitaline
189	We Are The New Farmers
190	Global Bugs
191	DouxMatok
192	Misadventure & Co
193	Back of the Yards Algae Sciences
194	Allergy Amulet
195	ZeaKal
196	Farmer Expert
197	Genuine way
198	Boomitra
199	ConstellR
200	FUL Foods
201	FlavorWIki
202	Noweat
203	Deep Planet
204	ProAgni
205	The Alternative Meat Co
206	Xnext
207	Controlant
208	Encantado de comerte
209	Seakura
210	KITRO
211	Sensonomic
212	Innovopro
213	Kitche
214	HERBLABISM
215	Pairwise
216	FirstWave Group
217	Traders Hill Farm
218	Orbisk
219	Saturas
220	Ljusgårda
221	Mealhero
222	Michroma
223	BIOME MAKERS
224	Natufia Labs
225	Eachthing
226	Computomics
227	Your Food Collective
228	SwissDeCode
229	Journey Foods
230	FoodMaven
231	UEAT
232	GreenOnyx
233	Soplaya
234	Crystalchain
235	F4A
236	Hooked
237	Pubinno
238	Viridix
239	Feedr
240	TotalCtrl
241	Go4Life
242	Bluu Biosciences
243	Jones Food Company
244	Plan(e)t Foods
245	Orapesce
246	Deliveristo
247	Phytolon
248	Livin Farms AgriFood
249	Frankles
250	Skira
251	Cubiq Foods
252	Macco
253	FrescoFrigo
254	Soil Steam International
255	Acoustic Extra Freezing
256	Xiaozao Technology Co

2021 FULL-RANKED LIST

VISIT THE FOODTECH 500 WEBSITE FOR MORE DETAILS'

Rank	Name
257	Groots
258	Beehex
259	PiktFresh
260	happ
261	My Emissions
262	Improved Nature
263	Victory Hemp Foods
264	Kibus Petcare
265	myAIR
266	BOOST BIOMES
267	CellX
268	eniferBio
269	Råhandel
270	Karakuri
271	farmer connect
272	Tevel Aerobotics Technologies
273	Swegreen
274	Cirkulär
275	Umami Meats
276	Frontier Nutrition
277	Champerché
278	Demetria
279	Essento
280	Bond Pet Foods
281	Share Farm
282	MeaTech
283	RobinGood
284	Lentera Africa
285	Roslin Technologies
286	Yume Food
287	Chinova Bioworks
288	BrioAgro Tech
289	Cultured Decadence
290	Nutrition Innovation
291	Sibö
292	Bio Tech Foods
293	Etheclo
294	Picnic
295	Prospera Technologies
296	AgroSingularity
297	Agriloops
298	Hey Planet
299	Biomilk
300	Light Science Technologies
301	Instacrops
302	Trendi
303	WilderFields
304	1-2-Taste
305	Embion
306	Pure Harvest Smart Farms
307	Yarok Microbio
308	Whole Surplus
309	Foorban
310	CellulaREvolution
311	EVIGENCE SENSORS
312	KRIKET
313	ONO Exponential Farming
314	FreezeM
315	NORBITE
316	Decapolis
317	PlateHero
318	SimpleFoods
319	Smoodi
320	ZoomAgri
321	Apicbase
322	Irriot
323	Innocent Meat
324	Squadle
325	Rival Foods
326	Shenzhen Qianhai SnailMom Technology
327	Bitwise Agronomy
328	Nuvilab
329	Becrit Insect Protein
330	Native Foods
331	MiFood Robot
332	Lavie Bio
333	Growy
334	Nature Preserve
335	Brevel
336	Cup
337	Lupinta
338	Scratch Kitchen
339	The Plant Eat
340	Field Doctor
341	SERA Intelligence
342	Roślinny Qurczak
343	The Plant Based Seafood Co
344	PlantArcBio
345	Orbillion
346	Lunch Co
347	Hyris
348	Karana
349	AI Palette
350	Reewild
351	Zero Cow Factory
352	Dry4Good
353	IXON
354	Q'omer
355	Verdi
356	Imagindairy
357	Health Food Wall
358	TieUp Farming
359	SpaceSense
360	Ethics Coffee
361	Yofix
362	Agrowing
363	The Sea Group
364	Growfoam
365	Gavan
366	Probitat
367	Nutrition Technologies
368	HiFood
369	Genufeed
370	Tastermonial
371	HydroNeo
372	The Circle
373	Shandi
374	Harvest London
375	Cocuus
376	RoboJuice AI
377	InvertiGro
378	Upright
379	Kinoko-Tech
380	Food Recycle
381	Muddy Machines
382	Pepette
383	Better Dairy
384	Envara Health

2021 FULL-RANKED LIST

VISIT THE FOODTECH 500 WEBSITE FOR MORE DETAILS'

Rank	Name
385	Nucaps Nanotechnology
386	Hoxton Farms
387	Vanilla Vida
388	GreenPod Labs
389	Evogro
390	BoomGrow
391	NoMoo
392	Lite+Fog
393	ProFuse Technology
394	flowaste
395	SUPERSONIC Food
396	One Third
397	NextFerm
398	Nordetect
399	Connecting Food
400	HarbestMarket
401	Finapp
402	Kitchenita
403	MOA foodtech
404	FruitSpec
405	Alia Insect Farm
406	REDUCED
407	Kernel Mycofoods
408	AxisTech
409	Matrix Meats
410	Spoonshot
411	BlueTree Technologies
412	Rethink Foods Company
413	Agrinoze
414	Cynomys
415	Burgs Foods
416	Wenda

Rank	Name
417	Tomatopiu
418	Tomorrow Foods
419	BeoBia
420	Innoscentia
421	Deligate
422	Eatch
423	Vertical Green
424	Done Properly
425	Bonraw Foods
426	Vahaa Smart Garden
427	Soiltech Wireless
428	ifoodbag
429	Biotic
430	Ukko
431	Vivent
432	Future Foods
433	UbiGro
434	Lyfa
435	Unfold
436	Eatsane
437	Tebrio
438	ForFarming
439	The Pack Pet
440	Melt and Marble
441	Zen Foods
442	Hey Foodie
443	Devotionfoods
444	SinnovaTek
445	Welldone
446	All Y'alls Foods
447	Kitchen Robotics
448	Boston Meats

Rank	Name
449	TRAZABLE
450	Barvecue
451	PostHarvest
452	Good.
453	Bella & Bona
454	CKAPUR
455	Stacky's
456	iSense
457	Better Juice
458	BetterMilk
459	CellMeat
460	keen4greens
461	Plantish
462	Food Sourcing Specialists
463	Prosel Biosciences
464	MycoNourish
465	A La Carte
466	SGProteins
467	Agrovisio
468	FACTIC
469	Treetoscope
470	Libre Foods
471	Time-Travelling Milkman
472	IoAgri
473	Mycovation
474	Foodcircle
475	Invisible Foods
476	Alfred's Food Tech
477	Yeap
478	XMACHINES
479	mad foods

Rank	Name
480	Zymoscope
481	Botrista
482	Greencovery
483	Happy Ocean
484	Jellatech
485	De Novo Dairy
486	Transparent Path
487	Traceall Global Limited
488	Deliverart
489	Dvara E-Registry
490	Maolac
491	Senoptica Technologies
492	pOsti
493	Mimic Seafood
494	Greener
495	Leroma
496	EcoNomad Solutions
497	SaveTic
498	NØKO foods
499	Altered Carbon
500	Hyper Food Robotics

TOP 10 COMPANIES FROM THE 2021 FOODTECH 500

infarm

Plenty®

Ynsect

BENSON HILL™
NOURISHING INNOVATION™

IMPERFECT FOODS

BOWERY

HELLO FRESH

PIVOT BIO

Too Good To Go

NotCo

THE TOP 10 COMPANIES AT THE GLANCE

$4.1B
INVESTMENTS RAISED TO DATE

20K+
JOBS CREATED TO DATE

210+
PATENTS FILED TO DATE

50+
MARKETS SERVED TO DATE

TOP 10 COMPANIES INTERVIEWS

#1

Company name: Infarm
Country: Germany
Founded: 2013
Activity: Agtech
Domain: Vertical & Indoor farming
Founders: Erez Galonska, Guy Galonska, Osnat Michaeli

Meet Sudhanshu Sarronwala, Chief Impact Officer of Infarm. Infarm is building a global network of urban vertical farms to grow and distribute fresh produce in cities - that's good for people and the planet.

WHY DID YOU START THE COMPANY AND WHAT IS THE IMPACT YOU WANT TO GENERATE AT THE FOOD SYSTEM LEVEL WITH YOUR SOLUTION?

The Founders created Infarm to provide fresh, nutritious food for people living in cities - by growing it close to where they lived and thereby eliminating the lengthy supply chains that typical food systems are notorious for.
By growing locally, and by using hydroponics as the technology of choice, they also envisaged the production process to use minimal land and water, be free of chemical pesticides and be climate-resilient. In essence, the food production system was built to be good for people and the planet at its very core.

The current food system is not sustainable or scalable. Given its existing methods, the world would need an additional planet to feed a population of 10b by 2050.

Infarm aims to impact the food system by demonstrating at scale that food can be produced in urban areas using cloud-connected farming networks, be climate-resilient and save water, land and food miles on a scale never thought possible in the past.
This would positively impact the ability to produce the necessary amount of food needed within planetary boundaries.

SDG GOALS

CAN YOU SHARE ANY KEY METRICS YOU USE TO MEASURE THE IMPACT THAT YOUR PRODUCT/TECHNOLOGY IS GENERATING?

As we look to positively impact food systems, Infarm is laser-focused on the so-called 'Big Four' strategic impact areas across the business. These reflect the global environmental, social macro-trends, planetary boundaries and the key impact areas our customers care about, which are: 1. Water 2. Land use and biodiversity 3. Carbon and energy 4. Food miles and local, urban production.

As demonstrated in several UN IPBES and IPCC reports, Biodiversity, Freshwater and Carbon all continue to demonstrate alarming trends across the world. Our aim is to lead by example within the vertical farming industry and address these challenges.

Infarm currently harvests over 1 million plants monthly (and increasingly rapidly), while using 95% less land than soil-based agriculture, 95% less water, significantly less transport (90%) and no chemical pesticides. We constantly track these metrics and have established that Infarm has already saved:

3M Kilometers of 'food miles'
135 Million Litres of water
170K Sq Meters of land from conversion
On the Carbon front, Infarm is the first Vertical Farming company to commit to the Science-Based Targets Initiative (SBTi) and will set its emission targets in line with the Paris Climate Agreements. Through the increasing use of green-certified energy and the growing efficiency of LED lights, we are reducing our carbon footprint and committed to a net-zero future. We measure this through the LCA methodology.

IN YOUR VIEW, WHAT ROLE DO PARTNERSHIPS AND COLLABORATIONS WITH LARGE CORPORATIONS PLAY IN RESHAPING THE FOOD SYSTEM?

Partnerships with large corporations occur in the entire length of our value chain, from manufacturing equipment to retail.

Large corporations have the scale, experience and resources to partner for change. The confluence of the scale and experience with the innovation of an Infarm is a potent mix and results in better experiences for different sections of society.

Large retail partnerships result in a significant number of consumers getting access to fresh, nutritious, chemical pesticide-free food that has been grown sustainably using minimal natural resources. The role of these large retail corporations in educating their consumer base and providing sustainable food is game-changing for societies. Moreover, with Infarm's in-store farming units, consumers get to see and experience first-hand the technologies that are at play to provide them with the food of the future.

Manufacturing and digital partnerships allow for the implementation of large-scale, ultra-efficient growing systems (AI, LEDs, robotics, vertical farms, water circulation systems) that directly expose and impact the inefficiencies of the current food system.

Partnerships in the sectors of Foodtech across large and start-up companies alike result in the adoption of better, updated and relevant standards that eventually benefit the consumer and society as a whole. They could also result in updating outdated regulations as technologies and methods evolve.

DOES YOUR COMPANY'S BUSINESS MODEL CREATE A SPECIFIC POSITIVE BENEFIT FOR YOUR LOCAL COMMUNITY? IF SO, CAN YOU BRIEFLY EXPLAIN HOW?

Infarm seeks to engage with the communities it operates in with its fundamental premise of being 'local' and even 'hyperlocal'.

Within the company, there is a robust system to encourage the creation of Employee Experience Squads and Employee Resource Groups to engage with the community that they operate in.

An example of a community-focused Experience Squad would be one that 'builds strong relationships with local organizations that align with Infarm's values and ethics and encourage and empower the Infarm community to get involved'.

This group arranges for participation with not-for-profit organizations, arranges for food donation drives and has agreements and support from the management for paid time to engage with community activities that are aligned with the company's mission.

Further, the company, through the Partnerships and People Divisions drives initiatives like participating in mission-aligned campaigns: the organization encouraged and provided staff to attend their local community 'Fridays for Future' events globally and are currently working on a plan for a local community execution of Veganuary.

Major environmental 'days' like Earth Day and World Environment Day have also been earmarked as moments for the staff to engage with their communities for specific activities and campaigns.

HAVE YOU DEVELOPED ANY PRACTICE TO DIRECTLY OR INDIRECTLY MAKE YOUR SUPPLY CHAIN MORE SUSTAINABLE?

At Infarm, we take a holistic view of sustainability and have therefore been engaged in the B Corp process, looking at the various environmental, social and governance aspects of creating a business that is a 'force for good'. This covers our work within the company and with all aspects of our supply chain.

There are three specific areas where we have been working with our Supply Chain to make it more sustainable:

Firstly, we have conducted a model carbon LCA (Life Cycle Analysis) that allows us to understand the component of emissions in our supply chain (Scope 3). We have then worked with a specialist measurement company to isolate carbon hotspots within the supply chain, by company, so that we can understand the opportunities for mitigation and offsetting. This complex process is now in place and is ongoing.

Secondly, given that we are an energy-intensive industry, we have worked with our energy providers to relentlessly seek out renewable and green-certified energy sources.
As a result, we have transitioned to 90% green-certified energy sources within the Infarm farming network and are on track to use 100% green-certified energy across the farming network.

Third, as a result of our carbon commitment, we have signed up for the Science-Based Targets Initiative (SBTi). This commits us to drawing up our emissions targets within the SBTi framework and in line with the Paris Climate Agreement. This will include defining specific targets for our supply chain and the necessary mitigation strategies with our partners. We are the first Vertical Farming company to sign up to the SBTi.

#2

Plenty®

Company name: Plenty
Country: United States
Founded: 2014
Activity: Agtech
Domain: Vertical & Indoor farming
Founders: Nate Storey, Matt Barnard

Get to know what Dr. Nate Storey, Co-founder and Chief Science Officer has to talk about Plenty. Plenty is the flavor-first vertical farming company with a mission to improve the lives of people, plants, and the planet

WHY DID YOU START THE COMPANY AND WHAT IS THE IMPACT YOU WANT TO GENERATE AT THE FOOD SYSTEM LEVEL WITH YOUR SOLUTION?

I come from a long line of deep roots in agriculture. After high school, I found myself living in China, in an agricultural village about 100Km outside of Beijing. I was staying in an apartment on the second story overlooking the village's threshing floor. Every day, women from the village would come to that threshing floor and work to prepare the food and do whatever was needed to do. I watched how their labor shifted with the seasons and felt the work was honest and straightforward. It was at that time I decided to do something around farming and feeding people.

I met Plenty co-founder, Matt Barnard, at an indoor conference. At the time, I was working on a vision for small farms using indoor technology but was looking to find a way to impact more people with a larger farming organization. Matt was working to address the enormous water consumption required by agriculture. Together, we eventually founded Plenty, to solve one of the most vexing problems of our time – how to grow more food in a world with shrinking arable land, less fresh water, and a more extreme environment?

Plenty is the only indoor, vertical farm with proprietary towers and technology that make it possible to grow multiple crops on one platform, year-round, with consistent yield and superior quality and flavor. Plenty is working to be a key player in the shifting landscape of our food system by providing better access around the world to more sustainable, safe, quality food.

SDG GOALS

CAN YOU SHARE ANY KEY METRICS YOU USE TO MEASURE THE IMPACT THAT YOUR PRODUCT/TECHNOLOGY IS GENERATING?

The world is out of farmland. In just the last 20 years, we've lost over 11 million acres of farmland to development and today, we're still losing three acres of farmland a minute for the same reasons (American Farmland Trust).

Even if arable land were available, buying it costs upwards of $100,000 per acre. Plenty farms produce up to 250x the yield of a traditional farm per square foot, meaning we can grow food in cities and expand land availability without cutting down a single tree.

IN YOUR VIEW, WHAT ROLE DO PARTNERSHIPS AND COLLABORATIONS WITH LARGE CORPORATIONS PLAY IN RESHAPING THE FOOD SYSTEM?

Partnerships are vital to making the kinds of big changes that need to happen within our global food system. For example, Plenty partners with berry leader Driscoll's in helping to bring their best tasting strawberries to consumers year-round. Plenty also partners with Albertsons and other large retailers to ensure ongoing distribution for Plenty, and to help end consumers access consistent, quality products every time they go into their local grocer. Large corporations have the capital necessary, a loyal customer base and the proven capability to help ensure Plenty, and other indoor farms can grow at scale.

DOES YOUR COMPANY'S BUSINESS MODEL CREATE A SPECIFIC POSITIVE BENEFIT FOR YOUR LOCAL COMMUNITY? IF SO, CAN YOU BRIEFLY EXPLAIN HOW?

Yes, Plenty is building the largest vertical farm in the world in Compton and we are committed to local hiring in the community. We work with local workforce agencies, hold resume and interview workshops to help people get ready to apply for jobs at Plenty and provide benefits from day one.

We are also building partnerships with local community colleges as well as the local school district to provide volunteer teaching of STEM and plant science as the Compton facility is open.

Finally, we support local community organizations through micro-grants, including community gardens and organizations such as the Compton Run Club that promote healthy living. In the Bay Area, where our South San Francisco farm is located, we have long-standing product donation partnerships with Project Open Hand and UCSF, which provide food-as-medicine programs to people in need.

HAVE YOU DEVELOPED ANY PRACTICE TO DIRECTLY OR INDIRECTLY MAKE YOUR SUPPLY CHAIN MORE SUSTAINABLE?

Our facility in South San Francisco uses 100% renewable power and we are continuously working to further lower our food waste as well and water usage by carefully measuring and tracking these metrics.

We have also begun to audit our supply chain partners to screen for ethical practices.

Finally, since we deliver locally vs. trucking food across the country, our transit emissions are lower than what you would find compared with food grown on a traditional farm.

#3 Ynsect

Company name: Ynsect
Country: France
Founded: 2011
Activity: Agtech
Domain: Insects farming & Aquaculture
Founder: Antoine Hubert

Meet Antoine Hubert, CEO and co-founder, of Ÿnsect. This company is the world leader in natural insect protein and fertilizer production. Founded in 2011 in Paris, France by scientists and environmental activists. Ÿnsect offers an organic, long-term sustainable solution to accelerating consumption of protein and plants

WHY DID YOU START THE COMPANY AND WHAT IS THE IMPACT YOU WANT TO GENERATE AT THE FOOD SYSTEM LEVEL WITH YOUR SOLUTION?

According to the FAO, we need to find sustainable solutions to produce more food with less land, raw materials, water and pollution.

The issue that faces us:
- By 2050, we will need to increase our food production by more than 70% to meet the needs of our planet's population. And this, with only 5% more agricultural land.
- We need to reduce our greenhouse gas emissions by 70%.
- The increasing global protein consumption is estimated at 52% (between 2007 and 2050).
- 25% of the world's fisheries are used to feed aquaculture.
- Farm animals are consuming 20% of the world's protein.

Ÿnsect contributes to this global challenge by offering a healthy, natural and sustainable solution: producing more food with less. Thus, unlike traditional animal feed, the production of insects:
- Requires 98% less land than traditional livestock farming
- Consumes 45% fewer resources
- Does not use antibiotics

SDG GOALS

CAN YOU SHARE ANY KEY METRICS YOU USE TO MEASURE THE IMPACT THAT YOUR PRODUCT/TECHNOLOGY IS GENERATING?

Research on our products have found the following results:
- Up to 35% more growth and 40% less mortality in fish
- +20% more growth in certain crops such as grapevines (compared to a chemical fertilizer).

- Improved biological properties of soil and increased microbial activity. In ornamental plants, especially roses, there is a clear improvement in flowering and better resistance to summer drought compared to an organic fertilizer with the same nutrient content.
- Up to 60% lower cholesterol (study on mice).
The high protein content (72%) and low ash content (approximately 2%) make it a very lean premium ingredient that can be used for digestive disorders, among other things.
- The University of Maastricht has shown that insect protein has as many nutritional benefits as milk protein: both proteins have the same effect on digestion, absorption, and the ability to stimulate muscle growth.
- Furthermore, an exhaustive life cycle assessment study according to Quantis has shown that the value chain of the vertical farm we are building is carbon negative. Across Ÿnsect's entire value chain, we avoid and sequester more CO2 than we emit.

IN YOUR VIEW, WHAT ROLE DO PARTNERSHIPS AND COLLABORATIONS WITH LARGE CORPORATIONS PLAY IN RESHAPING THE FOOD SYSTEM?

Reinventing our food systems will require large-scale change at every level, so they are key. The audience, impact, and power of large corporations are impossible to deny, so high-potential, smaller industry players offering innovative solutions for the food industry would do well to collaborate with pertinent large corporations to scale up their impact. Change never comes from a single actor.

For example, our partner Zirp Insects (who use our products as an ingredient) has recently partnered with Billa supermarkets, the second-largest supermarket chain in Austria, to amplify their impact across the country and make the products as accessible as possible to the mainstream.

DOES YOUR COMPANY'S BUSINESS MODEL CREATE A SPECIFIC POSITIVE BENEFIT FOR YOUR LOCAL COMMUNITY? IF SO, CAN YOU BRIEFLY EXPLAIN HOW?

- Launched the 2040 TerrHa program, an initiative to plant 1.8 million trees in Hauts-de-France, where our third farm is being built, to help conserve and regenerate soils.
- Introduced an Ÿnsect minimum wage, which is +35% of the French national minimum wage.
- Launched the Ÿnsect Parental Act, granting 10 weeks of paternity leave to all male Ÿnsect employees.

Launched an employee shareholding scheme, enabling all Ÿnsect employees to benefit from the profits of the company's growth and to participate in its governance.

HAVE YOU DEVELOPED ANY PRACTICE TO DIRECTLY OR INDIRECTLY MAKE YOUR SUPPLY CHAIN MORE SUSTAINABLE?

We have implemented a holistic environment plan that spans from now until 2040. As well as planting 1.8 million trees, the TerrHa 40 project also trains our farmers (who grow our insects' food) to employ more environmentally-friendly farming practices. Through this measure, we aim to significantly CO2 supply chain emissions. We are also implementing a low-carbon strategy.

Furthermore, a significant proportion of our business is our fertilizer product - YnFrass - which is made from our insects' dejections. This means that a big part of our activity is without a supply chain since it is a simply byproduct of our original product (the protein). This activity also allows us to achieve a circular economy.

#4 BENSON HILL™

NOURISHING INNOVATION™

Company name: Benson Hill
Country: United States
Founded: 2012
Activity: Agtech
Domain: Ag Biotech
Founder: Matt Crisp

Meet Matt Crisp, CEO and Director, behind Beson Hillsh Fitness Food, a food technology company with a mission to deliver food made better from the beginning by combining data science, plant science and food science to leverage the natural genetic diversity of plants to develop and commercialize food and ingredients that are more nutritious, better tasting, more sustainable and more affordable.

WHY DID YOU START THE COMPANY AND WHAT IS THE IMPACT YOU WANT TO GENERATE AT THE FOOD SYSTEM LEVEL WITH YOUR SOLUTION?

There is major consumer demand for healthier, tastier and more sustainable food choices that can't be met by the traditional commodity model.

As a former venture capitalist, I saw the impact technology had in many sectors and realized advances in AI, machine learning and genomics, combined with a more inclusive mindset that breaks down silos across the agri-food supply chain, could revolutionize seed innovation and modernize our food system. I co-founded Benson Hill in 2012 to disrupt the traditional commodity system and, by integrating technology and real-world relationships with farmers and others across the supply chain, develop and commercialize value-added food and ingredients to meet the high demand from the market.

SDG GOALS

CAN YOU SHARE ANY KEY METRICS YOU USE TO MEASURE THE IMPACT THAT YOUR PRODUCT/TECHNOLOGY IS GENERATING?

Benson Hill has experienced significant growth in our work with farmers. We contracted with partner farmers in the United States to grow 70,000 acres of our proprietary soybean varieties, including Ultra-High Protein soybeans, in the 2021 crop year versus 30,000 acres in the 2020 crop year, representing approximately 133 percent year-over-year growth. Today, 2022 contracted acres are on track to exceed 2021 and for the second year in a row, returning farmers have increased their acreage commitments with Benson Hill. We also reached a critical milestone on our journey to leverage our CropOS® technology platform and our integrated business model to build a healthier and climate-resilient food system by going public this past October upon the completion of our merger with Star Peak Corp II. Also, Benson Hill has taken steps to increase nutrition availability by increasing the nutrition density of foods. We've used seed genetics to increase soybean protein percentages by 20 percent compared to conventional.

IN YOUR VIEW, WHAT ROLE DO PARTNERSHIPS AND COLLABORATIONS WITH LARGE CORPORATIONS PLAY IN RESHAPING THE FOOD SYSTEM?

There's no one size fits all approach when it comes to reshaping and modernizing the food system. But larger corporations operate at such a significant scale, there is no doubt they have a role to play and they're moving in the right direction now because consumer preferences are changing. For example, the alternative meat market is expected to reach $140 billion by 2029 and we're seeing more companies increase their plant-based offerings as a result. For Benson Hill, our focus begins at the consumer and we know the consumer wants better tasting, more nutrient-dense and more sustainable food choices. We're providing the ingredients for companies of all sizes to meet that demand.

DOES YOUR COMPANY'S BUSINESS MODEL CREATE A SPECIFIC POSITIVE BENEFIT FOR YOUR LOCAL COMMUNITY? IF SO, CAN YOU BRIEFLY EXPLAIN HOW?

Benson Hill's key social benefit is focused on increasing nutritional density in foods. Our technology is currently deployed on soybean and yellow pea but can be applied to other food categories. In the case of increasing protein in soybeans, our ingredients are helping support the growing demand of the plant-based foods supply chain, making plant-based foods more affordable and accessible to consumers.

HAVE YOU DEVELOPED ANY PRACTICE TO DIRECTLY OR INDIRECTLY MAKE YOUR SUPPLY CHAIN MORE SUSTAINABLE?

Benson Hill's integration across the value chain and CropOS® platform are expected to unlock environmental and social benefits at all stages of product development. Our recently acquired Indiana-based soy crush facility helps to enable the cost-effective commercialization of our proprietary soybean portfolio and, by developing a better seed, we're able to reduce protein ingredient processing and costs and can reduce CO2e by approximately 50 percent and lead to a roughly 70 percent reduction of water. We are also working hand-in-hand with farmers to develop better on-farm management practices, optimizing resource use and soil health on the farm with the potential to sequester approximately one ton of soil carbon per acre.

#5

IMPERFECT FOODS

Company name: Imperfect Foods
Country: United States
Founded: 2015
Activity: Surplus & Waste Management
Domain: Food Waste Tech & Food sharing platforms
Founders: Ben Simon, Benjamin Chesler, Ron Clark

Get to know Madeline Rotman, Head of Sustainability, of Imperfect Foods. This company is reimagining grocery delivery and on a mission to eliminate food waste and build a kinder, less wasteful world.

WHY DID YOU START THE COMPANY AND WHAT IS THE IMPACT YOU WANT TO GENERATE AT THE FOOD SYSTEM LEVEL WITH YOUR SOLUTION?

As a student at the University of Maryland, Imperfect Foods' co-founder Ben Simon noticed that a lot of perfectly good food was being thrown out in the cafeteria. In response, he founded the Food Recovery Network (FRN), a nonprofit dedicated to preventing food waste on college campuses. During his work with FRN, Ben Simon met co-founder and former Chief Innovation Officer Ben Chesler and together, they determined they could make an even bigger impact on reducing food waste by rescuing "ugly" and surplus produce directly from farms and delivering it to customers' homes. They founded Imperfect Foods on August 8th, 2015 with the vision of showing the world the beauty of imperfection while creating a more economically viable food system.

Since its inception, our mission has been to eliminate food waste and build a better food system.

SDG GOALS

CAN YOU SHARE ANY KEY METRICS YOU USE TO MEASURE THE IMPACT THAT YOUR PRODUCT/TECHNOLOGY IS GENERATING?

Food Saved From Lesser Outcome
Imperfect Foods continues to source food that would have gone to waste or to a lesser outcome. We partner with farmers, fishermen, ranchers, and producers to purchase their imperfect and excess products to eliminate food waste. To date, we have saved over 145 million pounds of food from lesser outcomes.

Dedication to Eliminating Emissions
Imperfect Foods keeps sustainability at the forefront of their operations and sourcing strategies by rigorously measuring key metrics like their emissions and carbon footprint to find efficient ways to reduce their impact on the environment.

In 2020, Imperfect Foods began adapting its business model to design emissions out of its operations strategy. As a mark of their determination, this change to their business model reduced Imperfect Foods' carbon intensity overall.

In addition to tracking traditional metrics such as carbon footprint, Imperfect Foods is also measuring its avoided emissions impact. Utilizing a hypothetical scenario that shows where food would have gone if Imperfect Foods hadn't existed to buy it, Imperfect Foods is able to compare it to the real world where Imperfect Foods exists to purchase and efficiently deliver food that would have been wasted. Last year alone, Imperfect Foods' total avoided emissions equated to 20,663 tons CO2e. Additionally, their sourcing strategy avoided over 10,000 tCO2e.

IN YOUR VIEW, WHAT ROLE DO PARTNERSHIPS AND COLLABORATIONS WITH LARGE CORPORATIONS PLAY IN RESHAPING THE FOOD SYSTEM?

Tackling food waste requires participation at every level of the supply chain. From grassroots support to larger corporations to political institutions, it's critical that everyone does their part in driving social and environmental change.

As a growing company, Imperfect Foods pursues collaborations and partners that are aligned with our mission and company values, who also have a broad reach so that more people can become aware of and join in on our mission to eliminate food waste and build a better food system.

DOES YOUR COMPANY'S BUSINESS MODEL CREATE A SPECIFIC POSITIVE BENEFIT FOR YOUR LOCAL COMMUNITY? IF SO, CAN YOU BRIEFLY EXPLAIN HOW?

Supporting Farmers
Buying blemished and surplus produce helps support farmers. With this in mind, Imperfect Foods works with over 150 hand-selected growers all across America to help them sell more of what they grow, feed more people with less waste, and provide more financial stability.

Out of the almost 200 growers, we work with, most of our produce comes from family farms or cooperatives - 78% to be exact - while 13% comes from wholesale, 6% from farmer advocates, and 3% comes from larger farms.

Partnering with Local Non-Profit Organizations
In addition to supporting farmers and producers, we have over 78 food banks and non-profit partners in almost every market we serve. These partners are all committed to topics near and dear to Imperfect Foods' mission such as food rescue, hunger alleviation, and food security. In 2020, Imperfect donated over 3.6 million pounds of food to local non-profit partners rescuing it from going to waste in landfills.

HAVE YOU DEVELOPED ANY PRACTICE TO DIRECTLY OR INDIRECTLY MAKE YOUR SUPPLY CHAIN MORE SUSTAINABLE?

Net-Zero Carbon Pledge
In 2021, Imperfect Foods announced that they will be a net-zero carbon operation by 2030 — 10 years earlier than major retailers and 20 years before the Paris Climate Agreement deadline. They will convert all of their fulfillment centers to 100% renewable power by 2026. By 2027 they will have a fully electric vehicle fleet to further reduce emissions related to deliveries. Additionally, Imperfect will have one facility certified zero-waste-to-landfill operational by 2022 with a total of six certified zero-waste-to-landfill facilities in operation three years later.

Last-Mile Delivery
Imperfect Foods' Last-Mile Delivery Program is another key example of its approach to sustainably. To reduce their emissions, Imperfect Foods batches customer orders and neighborhoods together to reduce the total miles traveled. They purposely ship by neighborhood one day a week to deliver groceries to each community in one trip, with one van. In 2020, Imperfect Foods' Last-Mile Delivery system emitted 12,800 tCO2e less than if each customer went to the grocery store themselves. This emissions reduction is equivalent to taking 2,800 cars off the road for a year.

Packaging Return Program
In 2021, Imperfect Foods became the first national grocer to offer packaging reuse and recycling services through their Package Return Program. Imperfect Foods' gel packs and silver liners can be returned right from customers' doorsteps at no additional cost. Gel packs are sanitized by their partners, frozen, and reused in upcoming deliveries decreasing their dependence on new virgin plastics. Other components of the package like the liners are sent to a recycling partner to be recycled into new household products. The Imperfect Foods Package Return Program is on track to keep half a million pounds of plastic out of landfills every month and recover 6 million pounds of plastic in its first year.

#6 BOWERY

Company name: Bowery Farming
Country: United States
Founded: 2015
Activity: Agtech
Domain: Vertical & Indoor farming
Founder: Irving Fain

Meet Irving Fain, CEO and Founder, behind Bowery the largest vertical farming company in the United States, that builds smart indoor farms near cities, growing fresher, pesticide-free Protected Produce with bold flavor in precisely controlled environments, 365 days a year.

WHY DID YOU START THE COMPANY AND WHAT IS THE IMPACT YOU WANT TO GENERATE AT THE FOOD SYSTEM LEVEL WITH YOUR SOLUTION?

Irving Fain founded Bowery Farming in 2015 with the mission to reimagine farming from the ground up. Under his leadership, the team built the BoweryOS—its proprietary operating system which integrates software, hardware, AI, and robotics to orchestrate and automate the entirety of operations—which enables its farms to grow traceable produce at 100 times the rate of traditional agriculture with far less water, land, and waste, and no pesticides. The BoweryOS collects billions of data points that would take traditional farmers hundreds of years to collect, ensuring each harvest is better than the one before.

Irving founded Bowery as a way to solve hard problems for the common good. Some of the world's most pressing issues—including climate change, food waste, nutrition, food safety, and food access—are at the core of Bowery's business, and by scaling Bowery's successful economic model, Irving is also able to incite real change in communities and for the planet. For example, Irving has improved people's access to fresh food by making Bowery's produce available across the economic spectrum, at a range of retailers, and through community-oriented nonprofits.

SDG GOALS

CAN YOU SHARE ANY KEY METRICS YOU USE TO MEASURE THE IMPACT THAT YOUR PRODUCT/TECHNOLOGY IS GENERATING?

—Impact on climate: Our Maryland farm, for example, is run on 100% low-impact renewable energy, which means we avoid using 30MM lbs of CO2 annually.
—Impact on water: A single Bowery farm uses a fraction of the water compared to traditional farms, saving 15-20MM gallons of water a year.
—Impact on land use: With the addition of our PA farm, Bowery can produce 20 million clamshells per year - the equivalent of growing produce on 5 million square feet of traditional farmland. Our farms are 100x more productive than traditional agriculture.
—Impact on communities: Our PA farm will bring produce to a surrounding population of 49 million people within a 200-mile radius.
—Impact on food-supply resilience: Bowery grows crops during all seasons, regardless of weather, closer to the cities where the product is consumed. Bowery has 12 growing seasons for each cultivar we grow, where field farming has 2-3 crop cycles a year.

DOES YOUR COMPANY'S BUSINESS MODEL CREATE A SPECIFIC POSITIVE BENEFIT FOR YOUR LOCAL COMMUNITY? IF SO, CAN YOU BRIEFLY EXPLAIN HOW?

Bowery's business model creates several benefits for local communities. When a farm is built, green jobs are created in areas where no prior farming jobs existed. In Pennsylvania, Bowery is transforming a non-arable industrial site into productive, modern farmland. This sustainable, economic revitalization project will bring year-round green farming jobs into the community.

Additionally, Bowery has also partnered with a wide range of non-profit organizations including Maryland Food Banks, Teens for Food Justice, Table for Table, and D.C. Central Kitchen (a pioneering venture that is supplying Healthy Corners stores in D.C. food deserts with affordable, fresh produce).

Bowey has also donated over 635,000 pounds of produce to community partners and food banks since the beginning of the COVID-19 pandemic.

HAVE YOU DEVELOPED ANY PRACTICE TO DIRECTLY OR INDIRECTLY MAKE YOUR SUPPLY CHAIN MORE SUSTAINABLE?

Yes, Bowery is focused on the continued development of the sustainability of our supply chains. Here are three brief examples:

Renewable energy: Bowery is focused on utilizing renewable energy. Our Maryland farm is run on 100% low-impact hydro, which means we avoid using 30MM lbs of CO_2 annually. As Bowery continues to scale, renewable energy is at the core of our plans. In 2021, Bowery broke ground on two new farms in Georgia and Texas; the Georgia farm will be run 100% by renewable solar energy and the Texas farm will be powered 100% by renewable sources including wind and solar.
Increased resource efficiency: Bowery's sophisticated operating system, the BoweryOS, allows us to track and monitor our water use. One of our most successful initiatives is our water recapture program, which reclaims nearly all of the water used in the growing process, including the water that transpires off the plants. We use significantly less water than in traditional agriculture.

Recyclable materials: At Bowery, we use 100% PCR (post-consumer recycled plastic). Each 4.5oz clamshell uses the equivalent of 4 plastic bottles. We've also moved to a recyclable label adhesive so that the label washes off and the lid, as well as the base, can be recycled.

#7

HELLO FRESH

Company name: Hello Fresh
Country: Germany
Founded: 2011
Activity: Food Delivery
Domain: Meal kits & Subscription services
Founders: Dominik Richter, Thomas Griesel, Jessica Schultz

HelloFresh is a global food solutions group that provides customers with high quality food and recipes for different meal occasions on a recurring basis.

WHY DID YOU START THE COMPANY AND WHAT IS THE IMPACT YOU WANT TO GENERATE AT THE FOOD SYSTEM LEVEL WITH YOUR SOLUTION?

HelloFresh was founded in order to profoundly transform the way people buy and consume food, providing them with healthy and sustainable meals that are fully accessible in terms of costs and convenience.
Over ten years after founding HelloFresh, we believe that our innovative business model – which made us become the world's leading meal-kit company – represents a real disruption for the food industry. The unique HelloFresh supply chain is an efficient and more environmentally-friendly alternative to traditional food supply chains, and we work hard every day to make improvements as we build our market segment. By eliminating unnecessary middlemen and intermediate stops we manage to not only maintain the highest quality of food, but also to drastically reduce food waste as well as CO2 emissions from transport and storage that occur in the traditional supply chain. Our direct-to-consumer approach is a sustainable evolution of the food system and in line with multiple United Nations Sustainable Development Goals.
In each of the markets in which we operate, we are building a network of local farmers and suppliers to source as many ingredients locally as possible. When creating our delicious and well-balanced meals, HelloFresh's chefs also consider seasonality and ensure that customers always receive the freshest ingredients available. We offer a wide variety of recipes, which inspire customers to discover new dishes and cuisines from around the world. Our customers value the variety, the great taste and the convenience factor that is perfect for a busy lifestyle.

SDG GOALS

CAN YOU SHARE ANY KEY METRICS YOU USE TO MEASURE THE IMPACT THAT YOUR PRODUCT/TECHNOLOGY IS GENERATING?

We track carbon emissions and food waste that is generated in our operations and during delivery and regularly compare our performance with traditional food retailers. We are proud to have a significant impact on both metrics.

In 2020 carbon emissions at our production facilities decreased from 9.3 to 3.9 grams per Euro revenue which is 82% less than the emissions produced by 12 leading worldwide traditional retailers (22.2g per Euro revenue). Food waste in HelloFresh facilities amounted to 0.4g per Euro revenue, which is 82% less than the emissions produced by 12 leading worldwide traditional retailers (2g per Euro revenue).

Our business model shows that sustainability and economic success go hand in hand. HelloFresh is on track to deliver more than 900 million meals in 17 countries reaching a turnover of more than five billion Euros in 2021.

IN YOUR VIEW, WHAT ROLE DO PARTNERSHIPS AND COLLABORATIONS WITH LARGE CORPORATIONS PLAY IN RESHAPING THE FOOD SYSTEM?

HelloFresh started as a Berlin startup with only six employees in November 2011. Ten years later the HelloFresh Group consists of six brands active in 17 markets on four continents with further expansion plans on the way. Having started as a small company and growing into a large corporation, we appreciate the innovation and disruptiveness that smaller companies bring to the table and we try to keep that mindset ourselves. That's why we regularly partner with startups from the food and tech scene.

Regarding our ingredients, HelloFresh values quality, freshness and sustainability. For this reason, our supply network consists of many local producers and farmers. Responsible practices play an important role for us. We value close cooperation and regularly visit our suppliers which are often family owned businesses.

DOES YOUR COMPANY'S BUSINESS MODEL CREATE A SPECIFIC POSITIVE BENEFIT FOR YOUR LOCAL COMMUNITY? IF SO, CAN YOU BRIEFLY EXPLAIN HOW?

We believe that HelloFresh has a positive impact on our local communities in many ways. First of all, we are committed to creating a network of local farmers and producers: we select our suppliers carefully, favoring the ones who use sustainable practices that respect animals, marine resources, and terrestrial ecosystems. We are confident that this is a great way to support the local areas in which we operate.

We are also creating hundreds of job opportunities in each city we operate in - at the end of 2021 HelloFresh employed well over 17.000 people globally. As an employer of choice, we are proud to offer competitive wages, a healthy discount on our meal kits and many other benefits.

While we are offering fresh and well-balanced meals at an accessible price point we also keep those communities in mind that are threatened by food insecurity. In each country we operate in, the small amount of food that remains unsold but is still edible is donated to local charities which help to distribute food to people in need. In 2020 alone HelloFresh donated 13 million Euros worth of food to charities.

HAVE YOU DEVELOPED ANY PRACTICE TO DIRECTLY OR INDIRECTLY MAKE YOUR SUPPLY CHAIN MORE SUSTAINABLE?

HelloFresh's innovative supply chain is built to be sustainable at its core. Our lean make-to-order process eliminates food waste, favors local ingredient sourcing and reduces carbon emissions. Our dedicated sustainability and packaging teams are constantly working on improving our performance by developing and implementing best-in-class solutions for food waste, packaging and carbon emissions.

Our goal is to avoid, reduce and replace emissions and waste wherever possible. In 2020 we set an important milestone and became the first global carbon-neutral meal kit company, committing to offset all the direct carbon emissions caused by internal operations, offices and deliveries.

#8 PIVOT BIO

Company name: Pivot Bio
Country: United States
Founded: 2011
Activity: Agtech
Domain: Ag Biotech
Founders: Karsten Temme, Alvin Tasmir

Meet Karsten Temme, CEO of Pivot Bio. This company is ensuring a more resilient, sustainable food supply by transforming our food system through microbial nitrogen fertilizer that doesn't pollute like synthetic fertilizers.

WHY DID YOU START THE COMPANY AND WHAT IS THE IMPACT YOU WANT TO GENERATE AT THE FOOD SYSTEM LEVEL WITH YOUR SOLUTION?

When we founded Pivot Bio, we founded the company with the intention of disrupting an industry that was slow to innovate and slow to realize the impacts we were having on the environment. We set out to establish a new, more sustainable way for farmers to continue to feed our communities. Over the past 10 years, our team has made discoveries using microbes that have been chased by scientists for decades and disrupted the fertilizer industry. In only three years since our commercial launch, Pivot Bio's products now serve farmers on over 1 million acres, improving profitability and transcending generations of growers, with the added benefit of improvements for the environment.

We want to transform farming in getting next 10 years; over the next 100 years we know we can help transform our planet. Displacing synthetic nitrogen fertilizers has the potential to prevent $200B of environmental damage while ensuring the continuation of the world's food supply. Our microbes are a once-in-a-generation opportunity to repair and reverse the ecological devastation that excessive nitrogen has caused. From reinvigorating the biological diversity in the world's 500 oceanic dead zones to reducing algae blooms in our local creeks, we know we can help play a role in bringing balance back to our food systems.

SDG GOALS

CAN YOU SHARE ANY KEY METRICS YOU USE TO MEASURE THE IMPACT THAT YOUR PRODUCT/TECHNOLOGY IS GENERATING?

Since we introduced the industry's first commercially available microbial nitrogen in 2019, Pivot Bio has replaced synthetic nitrogen on more than 1 million crop acres in 2021 alone, representing more than 300% growth year-over-year and unprecedented agricultural product adoption.

Pivot Bio has achieved these breakthroughs with proprietary computational and microbiome technologies, multi-scale automated testing, and deep scientific expertise unrivaled by any other company in its market. Biological nitrogen fixation has never before been available to cereal crops like corn and wheat. With Pivot Bio PROVEN™ 40, Pivot Bio has created a unique opportunity for a more resilient agricultural system. Our nitrogen-fixing microbes will provide reliable nutrition for the staple agricultural products that feed the world. It is a revolutionary approach to climate change mitigation with dramatic social impact, offering farmers an economic solution with the potential to avoid more than 1 gigaton CO2 equivalent emissions over the next ten years, and over 500 million tons GHGs annually by 2050.

IN YOUR VIEW, WHAT ROLE DO PARTNERSHIPS AND COLLABORATIONS WITH LARGE CORPORATIONS PLAY IN RESHAPING THE FOOD SYSTEM?

For CPG companies, which account for more than 60 percent of all greenhouse gas emissions, sustainability must be implemented across the entire supply chain.

While the focus recently has been on carbon markets as a solution for reduced GHGs, the time for measurable impact is not until 2050. CPGs – and their impatient consumers – will not be afforded that much time. What will make a meaningful impact? Turning attention to curtailing nitrogen output is where we can make the largest, quickest and most impactful strides. New technologies, like Pivot Bio, must be adopted that enable the measurement and tracking of environmental impacts – beyond carbon – to more quickly move to sustainable practices.

DOES YOUR COMPANY'S BUSINESS MODEL CREATE A SPECIFIC POSITIVE BENEFIT FOR YOUR LOCAL COMMUNITY? IF SO, CAN YOU BRIEFLY EXPLAIN HOW?

Pivot Bio recognized the white space when it comes to the education of the nitrogen cycle. Making its debut at the 2021 National Ag in the Classroom conference, Pivot Bio developed Move N Around - The Nitrogen Cycle Game to educate people about the nitrogen cycle and its impact on the climate.

By breaking down a complex topic into an easy-to-digest and interactive format, players can see how important nitrogen is as a building block of life and understand how to best optimize it as a critical component of biology.

The tool is free of charge to use and has been integrated into classroom learning across the country.

HAVE YOU DEVELOPED ANY PRACTICE TO DIRECTLY OR INDIRECTLY MAKE YOUR SUPPLY CHAIN MORE SUSTAINABLE?

Pivot Bio is inspired by a future where a circular economy relies on agriculture and the power of fermentation to fuel it. There are many benefits to a fermentation-based economy. Where oil refineries require large-scale production to produce goods economically, fermentation plants lend themselves to distributed manufacturing that can be tailored to local needs or feed into large commodity markets as demand fluctuates. They increase our energy independence, allowing us to reduce our dependence on petroleum as a primary source of carbon. In many cases, fermentation is also a more sustainable approach to manufacturing, limiting the amount of energy needed to facilitate a reaction and securing carbon from green sources like photosynthesis.

#9

Too Good To Go

Company name: Too Good to Go
Country: Denmark
Founded: 2016
Activity: Surplus & Waste Management
Domain: Food Waste Tech & Food sharing platforms
Co-Founders: Lucie Basch and Jamie Crummie

Get to know Mette Lykke, CEO of Too Good to Go a company that fights food waste primarily through an app, that connects users with stores and restaurants that have unsold surplus food at the end of the day. Their greater mission, as an international company, is to inspire and empower everyone to take action against food waste.

WHY DID YOU START THE COMPANY AND WHAT IS THE IMPACT YOU WANT TO GENERATE AT THE FOOD SYSTEM LEVEL WITH YOUR SOLUTION?

Too Good To Go is one answer to the global issue of food waste. More than one-third of all food produced in the world goes to waste, and this is responsible for 10% of all GHG emissions. It's something we need to address here and now to curb global warming, however, there is no simple answer. What we do is provide a marketplace for surplus food, to ensure it doesn't go to waste.
We want to create a situation where no food business, whether that's a supermarket, bakery, cafe, or food producer or manufacturer, is in the position where they have to be sending food to waste.

SDG GOALS

CAN YOU SHARE ANY KEY METRICS YOU USE TO MEASURE THE IMPACT THAT YOUR PRODUCT/TECHNOLOGY IS GENERATING?

We measure our impact in the magic bags of food we save because this is the tangible impact we know we are having. Each magic bag is equivalent to 2.5 kg of CO2e prevented from being used in vain, data that is verified by MyClimate, using data obtained from the FAO.

We track meals on our platform and keep our partners updated with the impact they are having individually, which we know is incredibly motivating. After all, we all, people and businesses alike, want to be able to say we are making a difference in climate change. In numbers, we have already saved more than 105 million meals since we launched the app in 2016 and we have prevented more than 262,000 tonnes of CO2e from going to waste. This is the equivalent of the emissions from 51,000 flights around the world.

IN YOUR VIEW, WHAT ROLE DO PARTNERSHIPS AND COLLABORATIONS WITH LARGE CORPORATIONS PLAY IN RESHAPING THE FOOD SYSTEM?

It's critical. No one player can do this alone. Through partnerships with international companies such as Starbucks, Carrefour, Accor, SPAR International and Pret A Manger, we are able to create solutions that scale, and have an impact around the 17 countries we operate in. The food system is complex, and so are the solutions we need to fix it.

DOES YOUR COMPANY'S BUSINESS MODEL CREATE A SPECIFIC POSITIVE BENEFIT FOR YOUR LOCAL COMMUNITY? IF SO, CAN YOU BRIEFLY EXPLAIN HOW?

Our educational pilot program is live right now in nine primary schools in France, and we aim to onboard 1000 schools by September 2022. The educational program has been developed in collaboration with education experts and will be further improved depending on our findings from the pilot.

10% of food waste in the EU is due to people relying on date labels and misinterpreting them. More than half of consumers don't know the difference between 'Best before', 'Use by', 'Sell by'. This is why we have teamed up with some of the world's biggest food brands to change packaging, re-classify how products should be labeled and shake up the way we judge whether food is safe to eat.

Together with these global food companies, we add our label 'Look, Smell, Taste' to their Best Before labeled products (biscuits, chocolate, rice, pasta, etc.), to remind consumers to use their senses before throwing away products that have passed their Best Before Date.

In total, 200 big food brands across Europe have joined this initiative and have started to incorporate this new label on their Best Before labeled products. In addition to this, the launch of such labels across markets are accompanied by educational marketing campaigns, which aim to demystify date labels and put an end to the 9,000,000 tonnes of European food waste that occurs due to date labels each year.

HAVE YOU DEVELOPED ANY PRACTICE TO DIRECTLY OR INDIRECTLY MAKE YOUR SUPPLY CHAIN MORE SUSTAINABLE?

Sustainability is at the heart of our business model because we implement circular economy principles with our marketplace for surplus food, helping food businesses (restaurants, supermarkets, bakeries, etc.) to fight food waste and thus join forces to avoid the environmental impact this entails.

To complement this, we have gone through a full assessment of our environmental footprint, measuring our total global emissions with the aim of offsetting them. We believe that, as a Social Impact company, we need to lead by example and do what we can to prevent emissions and offset what we can't prevent. We are supporting two projects that will take out more carbon than we emit, one in India supporting the production of solar power and another one in Peru to help prevent deforestation, making us a Carbon Neutral+ company.

#10

Company name: The Not Company Inc
Country: Chile
Founded: 2015
Activity: Next-Gen Food & Drinks
Domain: Plant-based
Founders: Matias Muchnick

Meet Matias Muchnick Founder and CEO, behind NotCo the company that makes plant-based foods that taste, feel and function just like their animal-based counterparts. It is the only company disrupting three major animal protein categories at the same time: dairy, eggs and meat.

WHY DID YOU START THE COMPANY AND WHAT IS THE IMPACT YOU WANT TO GENERATE AT THE FOOD SYSTEM LEVEL WITH YOUR SOLUTION?

We are here to change the food system. When you think about the taste of milk, a human mind would never think that a combination of pineapple and cabbage would recreate the taste of milk, but Giuseppe – our artificial intelligence – can and does. That's the power of introducing new technology into an obsolete system: you're adding a whole new world of innovative possibilities that are good for us and the environment.

SDG GOALS

CAN YOU SHARE ANY KEY METRICS YOU USE TO MEASURE THE IMPACT THAT YOUR PRODUCT/TECHNOLOGY IS GENERATING?

It's all about the taste. The more people try our products and fall in love with them, the more positive impact to the environment we generate. So we make products that are just as delicious but 100% plant-based, and our patented AI technology, along side our team of chefs and food scientists, are fundamental to make products that taste and function just like animal-based. That's the only way they will change, without actually changing on anything on the food they love.

IN YOUR VIEW, WHAT ROLE DO PARTNERSHIPS AND COLLABORATIONS WITH LARGE CORPORATIONS PLAY IN RESHAPING THE FOOD SYSTEM?

It is critical. We are proud to partner with global large corporations in both our supply chain and our retail and foodservice side. In Latin America we have already been chosen by companies like Burger King for their Rebel Whopper, we are featured on Starbucks menus in Chile, besides being carried in all major retailer accounts. As these companies and their consumers see they can change the way people eat, while keeping the same taste, texture and function of animal-based products, the impact will be significantly higher.

DOES YOUR COMPANY'S BUSINESS MODEL CREATE A SPECIFIC POSITIVE BENEFIT FOR YOUR LOCAL COMMUNITY? IF SO, CAN YOU BRIEFLY EXPLAIN HOW?

Besides our environmental positive impact, NotCo is proud to host a very diverse and inclusive team, to which we have programs to guarantee equal access, training and development of our employees.

We also participate, via our country operations, in food donation and food safety programs to help the most needed in the communities we are.

HAVE YOU DEVELOPED ANY PRACTICE TO DIRECTLY OR INDIRECTLY MAKE YOUR SUPPLY CHAIN MORE SUSTAINABLE?

Our supply chain system is based on co-manufacturers, developing a network of partners with the highest quality standards and manufacturing methods, generating a very efficient supply network to supports our rapid expansion.

In packaging, we are constantly evolving, looking for partners that provide recyclable packaging, avoiding the use of single-use plastic, and looking for certifications whenever available.

2021 FOODTECH 500 PARTNERSHIPS

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To learn more visit: www.dolesunshine.com

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To learn more visit: www.neom.com

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To learn more visit: www.forwardfooding.com/food-tech-data

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FORWARD FOODING
POWERING THE FOOD REVOLUTION

POWERING THE FOODTECH REVOLUTION SINCE 2015

Forward Fooding is the world's first collaborative platform for the food & beverage industry fostering innovation via FoodTech Data Intelligence and corporate-startup collaboration. Since 2015 they have been acting as an ecosystem enabler to provide the necessary support and velocity to enable meaningful collaborations and partnerships between established food organizations and AgriFoodTech startup and scaleup companies.

CORPORATE SERVICES

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Helping F&B corporates & investors staying on top of the latest trends through our fully customisable data Intelligence platform & dedicated reports	Connecting F&B corporates and investors with selected entrepreneurs from our global AgriFoodTech startup network	Providing exposure to international Food Tech companies via our own FoodTech 500 and our Food Innovation Hubs

FORWARD FOODING COMMUNITY AT THE GLANCE

2
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30+
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7,000+
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TO LEARN MORE VISIT: FORWARDFOODING.COM

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TO EVERYONE WHO SUPPORTED US, TO EVERYONE WHO ENTERED,
TO EVERYONE WHO MADE THE OFFICIAL 2021 FOODTECH 500

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