

Foodtech startups and venture capital - Q1 2022

April 2022



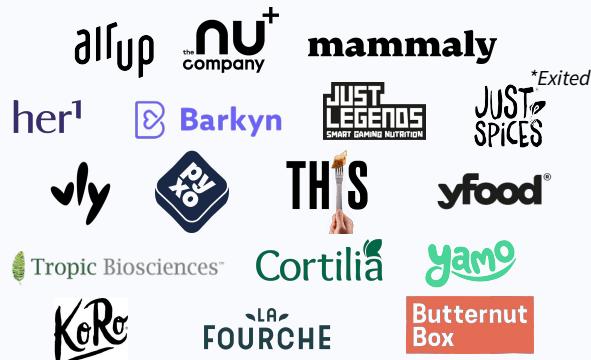


FIVE SEASONS
VENTURES

The first VC in Europe focused on innovative consumer-facing food companies.

We back Food Tech entrepreneurs for a healthier, more sustainable and more efficient food system.

Five Season Ventures is the first VC fund in Europe solely focused on investing in innovative consumer-facing food companies.

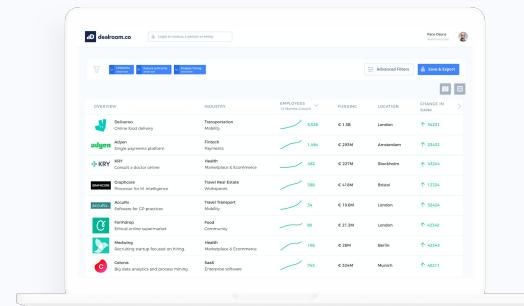


dealroom.co

Global startup & venture capital intelligence platform.

Dealroom.co is the foremost data provider on startup, early-stage and growth company ecosystems in Europe and around the globe.

Founded in Amsterdam in 2013, we now work with many of the world's most prominent investors, entrepreneurs and government organizations to provide transparency, analysis and insights on venture capital activity.



Previous reports:



The image shows the cover of the report "The State of European Food Tech 2021". At the top left is the logo for Five Seasons Ventures, which features a stylized tree icon and the text "FIVE SEASONS VENTURES". Next to it is the logo for dealroom.co, which consists of a blue square with a white "d" and the text "dealroom.co". Below these logos is the title "The State of European Food Tech 2021" in a large, bold, black font. Underneath the title is the text "MARCH 2021" in a smaller, black font. The main visual is a photograph of a wooden delivery box filled with various fresh fruits and vegetables, including carrots, apples, grapes, and a purple eggplant. To the right of the box is a smartphone displaying a food delivery app interface.

[The State of European Foodtech 2021](#)

[Deliveroo: An incredible ride to IPO](#)

[The State of European Foodtech 2019](#)

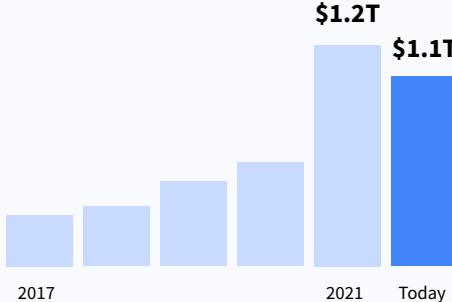
[The State of European Foodtech 2018](#)

Following a record 2021, foodtech VC has cooled in Q1 2022, amid supply chain volatility, war in Ukraine and an inflationary environment.

The combined enterprise value of foodtech companies is \$1.1 trillion.

Amid public market volatility at the start of 2022, foodtech companies declined in value by 8% since the end of 2021. The cohort of companies launched between 2010-2014 declined the most, 17%. However foodtech value overall is still up +45% since the end of 2020.

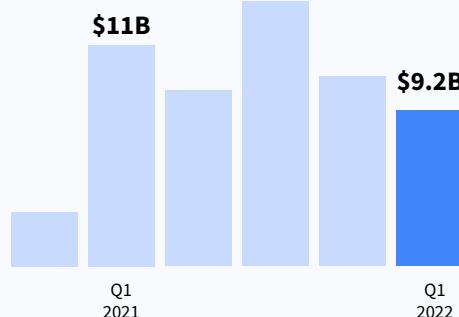
Combined enterprise value by year



Q1 2022 foodtech investment reached \$9.2 billion, down 16% year on year.

Investment into foodtech startups grew fastest in India, while the US, Europe & China contracted. With \$4.6B raised in Q1 2022, food delivery is the most funded category, followed by online supermarkets and alternative protein. Pet food was the fastest-growing segment, while online supermarket funding retreated from pandemic-driven highs.

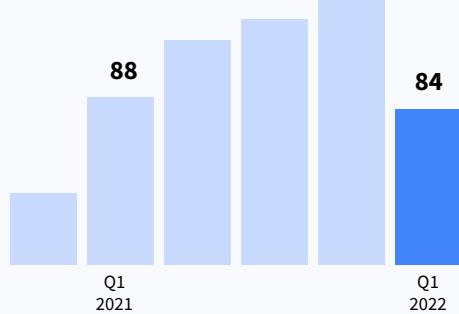
Global VC investment by year



M&A activity has cooled, while IPOs have all put frozen.

With only 84 exits, this quarter saw fewer exits than any quarter of 2021. With many companies putting their planning public debuts on hold, there were only 4 traditional IPOs and no SPACs in Q1 2022, the fewest of any quarter since Q1 2020.

Number of exits by year





Ivan Farnetti
General Partner
& co-founder at
Five Seasons Ventures



“

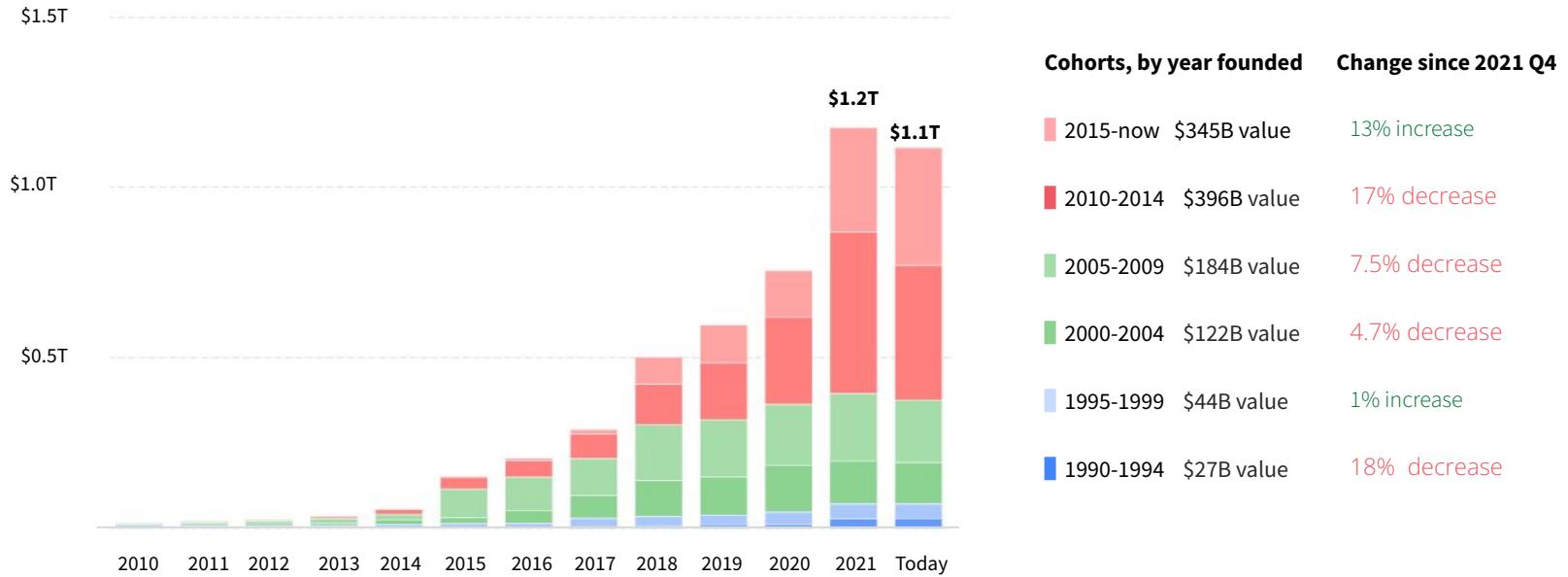
2021 has been an exceptional year for innovation in the food supply chain.

More capital went to fund more entrepreneurs than ever at all stages. Some of the ways capital found its way into these companies was more opportunistic (i.e. SPACs) while others were structural, with the arrival of more and larger specialised funds investing in this sector. Food delivery, Quick Grocery services and D2C in general have been growing strong in Europe and attracted the lion's share of investments at ambitious valuations, but also healthier and more sustainable food and beverage products getting investor's trust and commitment at good scale.

As we entered 2022 however, increased geopolitical uncertainty and concerns on key food commodities, has added a layer of risk onto an already inflationary environment. The demand/supply balance of capital in the foodtech sector may well readjust, following what we have seen in public markets, to a more conservative level. The institutional capital will continue to back quality companies and entrepreneurs, while we might see a shift away of the less focused investors, or opportunistic asset manager players, like what we have seen happening during periods of high uncertainty in the past 20 years.”

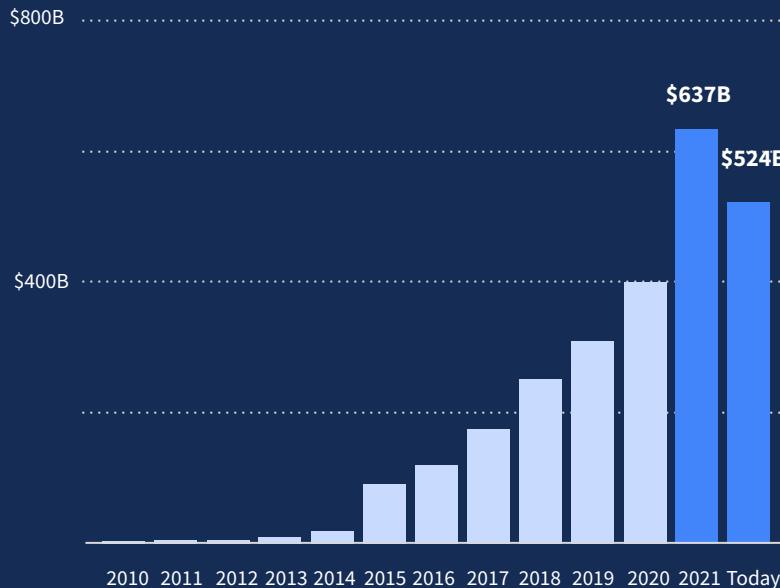
After early 2022 public market volatility, the combined value of foodtech companies is down 8.3% since December to \$1.1 trillion, but is still up +45% since 2020.

Combined enterprise value of foodtech companies by launch year [» view online](#)

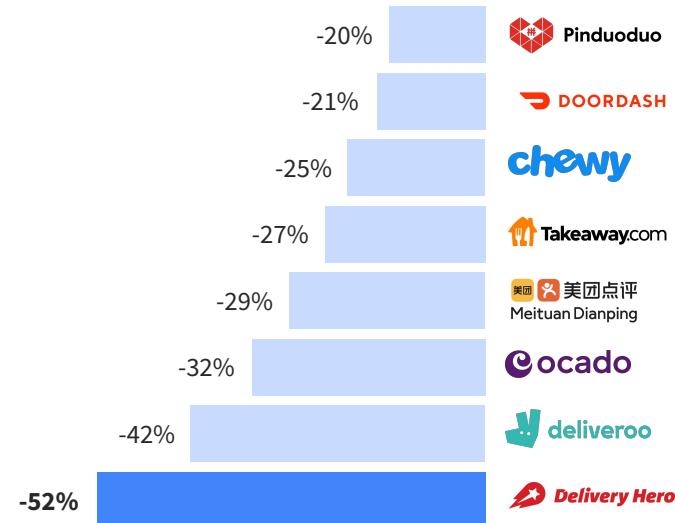


The 2022 drop in foodtech value is driven by public foodtech, particularly within the delivery space.

Combined enterprise value of public foodtech companies » view online



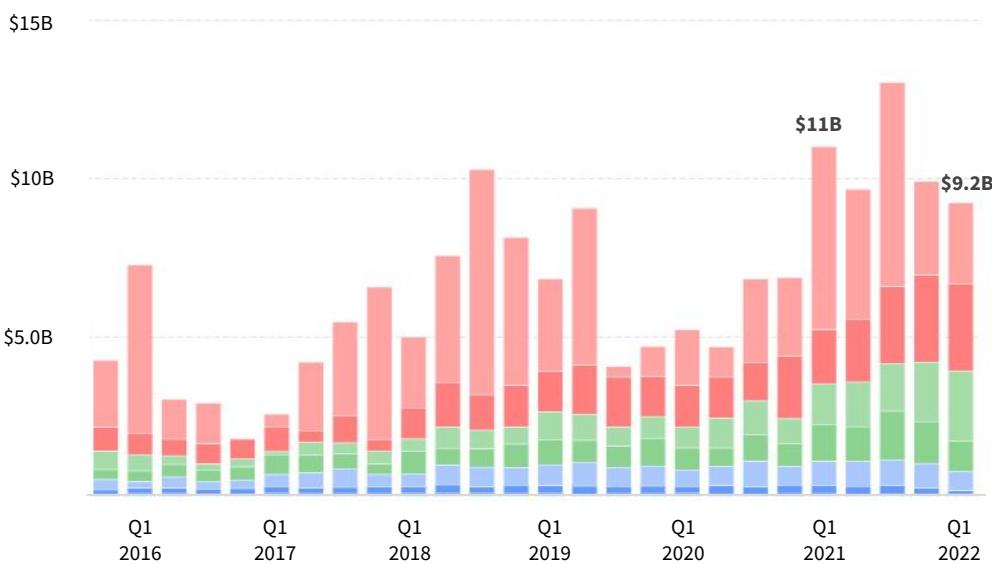
Change in share price since Q4 2021 of selected public foodtech companies



Global VC investment in foodtech reached \$9.2 billion, down 16% year on year.

Global VC investment in foodtech by quarter [» view online](#)

■ \$0-1M (pre-seed) ■ \$1-4M (seed) ■ \$4-15M (series A) ■ \$15-40M (series B)
■ \$40-100M (series C) ■ \$100-250M ■ \$250M+



The biggest VC rounds of Q1 2022

[» view online](#)



Food delivery app

\$700M



Super app

\$628M



Online grocery retailer

\$768M



Vertical farming

\$400M



Plant based meat

\$135M



Plant-based diary

\$120M



Plant-based protein

\$100M



Meal kits

\$100M

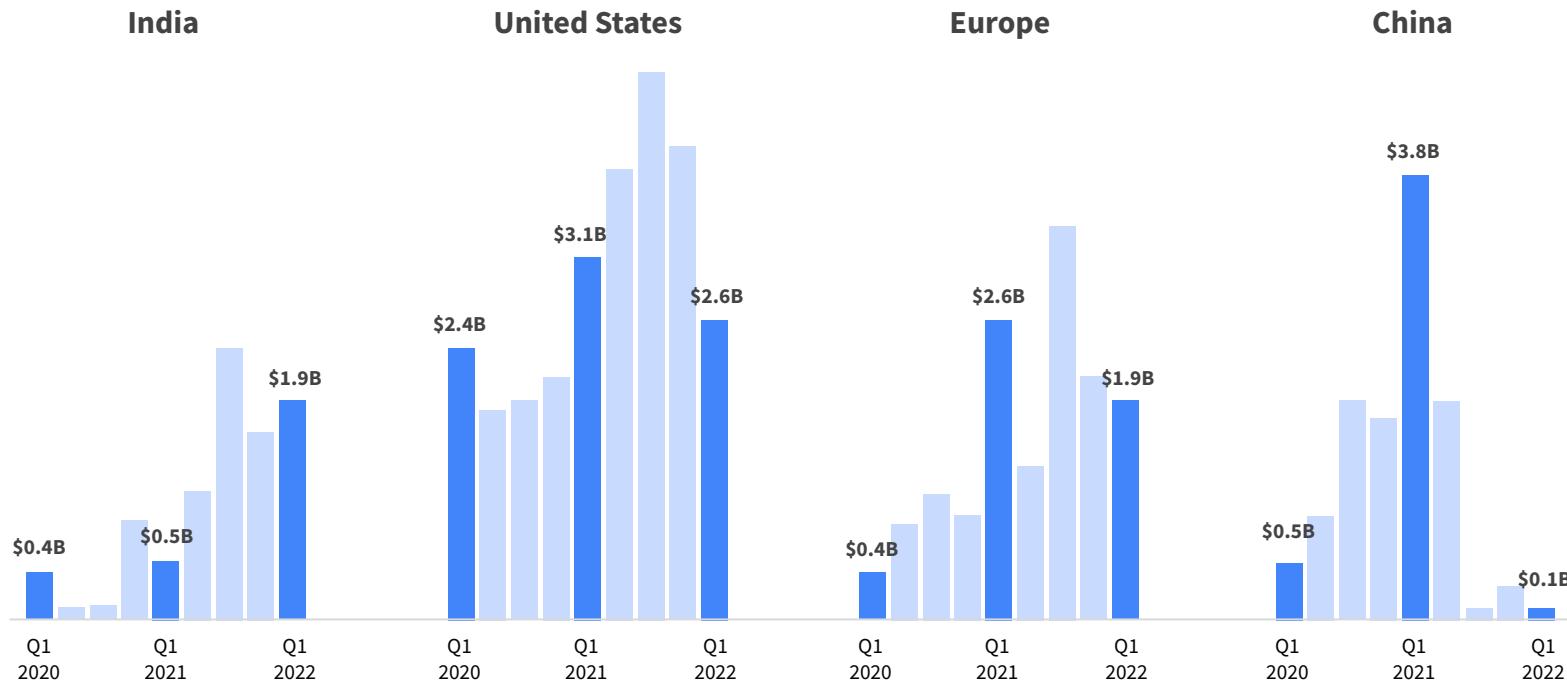


Restaurant ordering tool

\$96M

In Q1 2022, foodtech VC investment grew fastest in India among major markets, while the US, Europe and China saw varying levels of contraction.

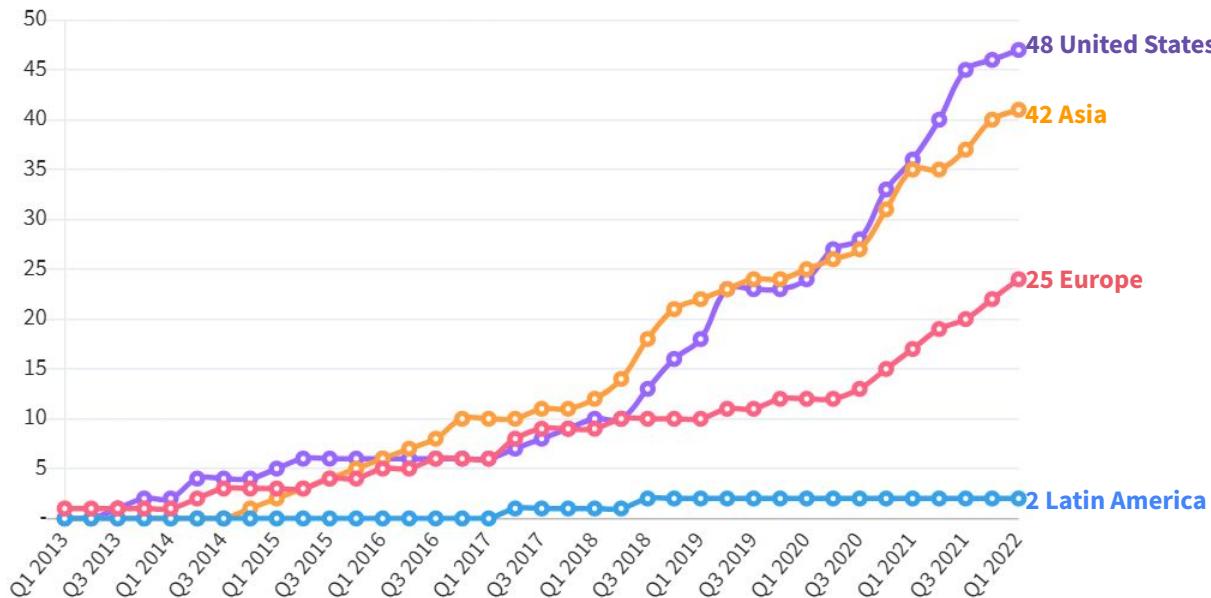
VC investment in foodtech by region (\$B) » [view online](#)



There are now 119 foodtech unicorns, 5 of which were created in Q1 2022. The US leads with 48 unicorns, followed by Asia (42) and Europe (25).

Cumulative number of foodtech unicorns: » [view online](#)

5 New Unicorns in Q1 2022



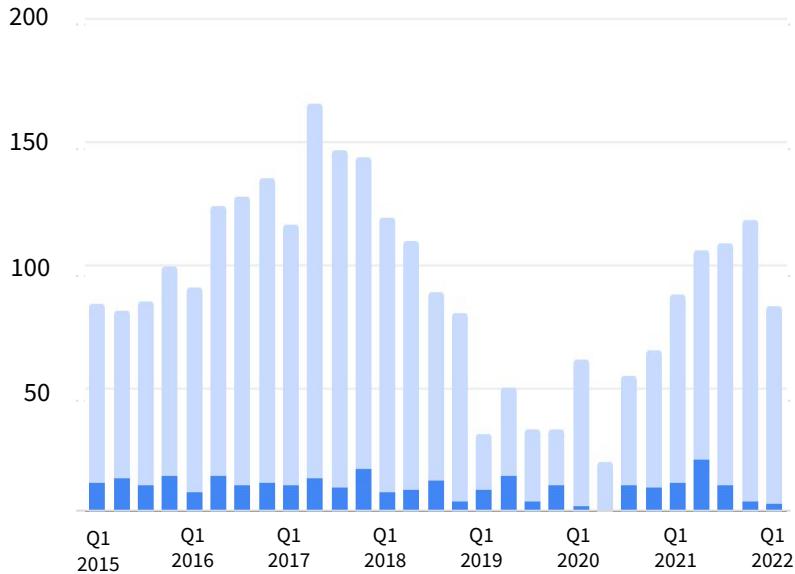
AthleticGreens.



M&A activity has cooled off, while IPOs have frozen almost entirely.

Number of foodtech exits

IPOs and SPACs M&A

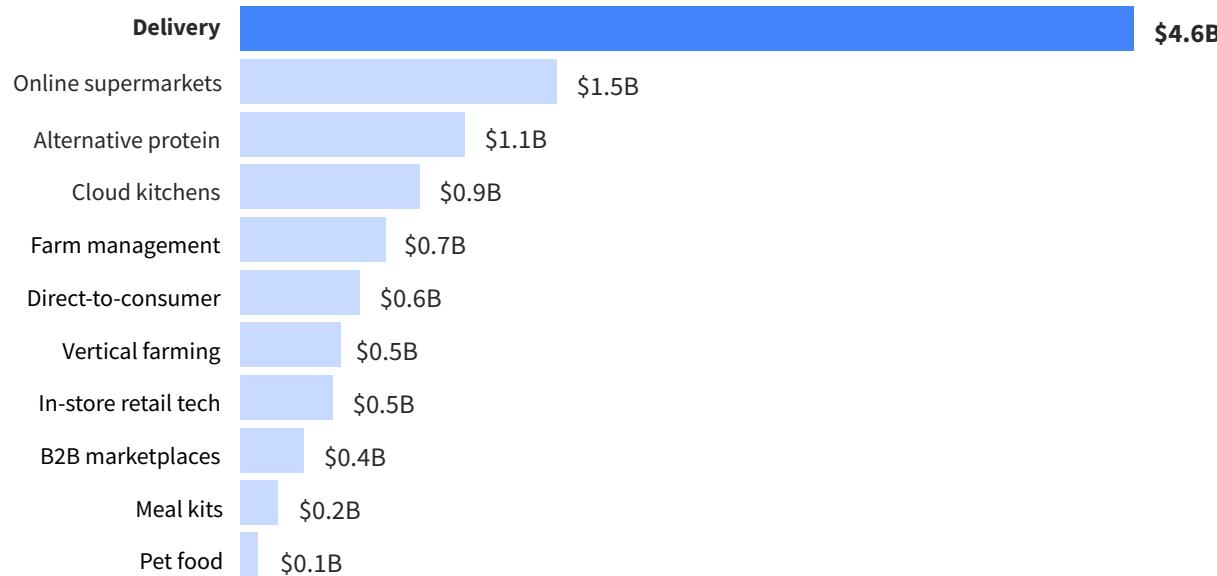


BIGGEST FOOD TECH EXITS IN Q1 2022: [» view online](#)

NAME	BACKERS	ACQUIRORS	MARKET	ENTERPRISE VALUE	JP
Gavilon	NGL Energy Partners General Atlantic	Viterra	food agtech	\$1.1b	\$1 source: vit...
NomNomNow	Headline Greycroft Partners CircleUp Tandem Capital Bullish	Mars	food home living kitchen & cooking tech	\$1.0b	\$1 source: bla...
Ruchi Soya Industries	-	Patanjali Ayurved	food in-store retail & restaura...	\$575m	\$5 source: yo...
Marrone Bio Innovations	Point Financial Ospraise Ag Science Valley Oak Investments Checkmate Capital Group Syngenta Group Venture...	Bioceres S.A.	health food	\$236m	\$2 source: bla...
Pete's	Mosaic Capital Partners	Local Bounti	food	\$123m	\$1 source: pr...
Deroose Plants	-	Agriforce growing systems Ltd.	logistics & delivery agtech	\$69m	\$6 source: fin...
Real Foods	Kleoss Capital	Virgin Active (Pty)	food	£29m	£2 source: vir...

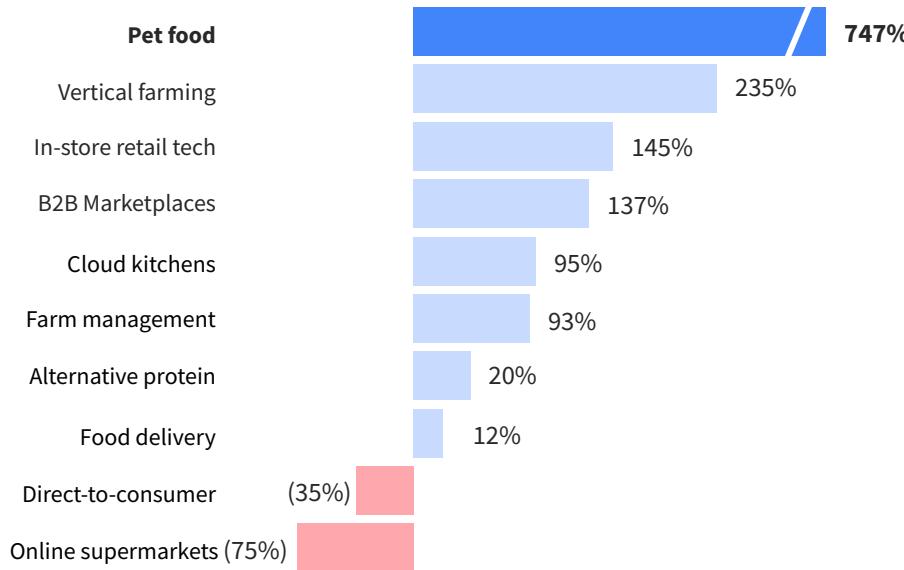
With \$4.6 billion raised globally in Q1 2022, VCs are still bullish on food delivery, despite the public share prices in the space being squeezed.

VC investment by category



Pet food startups saw the biggest funding uplift year on year in Q1, while online supermarket funding retreated.

VC investment Q1 2022 vs. Q1 2021



The pet food market is expected to grow at 5.4% CAGR by 2029, reaching \$164B.



Our research concluded that the humanisation of pets is following the trend of human preferences being projected on pet nutrition choices (think plant based, organic, functional food), and the trend towards food supplements is also growing stronger rapidly (6.1% CAGR for functional snacks vs. 5.4% for regular pet food). Pet parents want to offer their dog all the nutrients they need, and often have the perception that most of the current food offerings fall short on that front. Our portfolio company Mammaly, which is selling functional treats for pets, was only launched commercially in 2020 and has since then been growing almost 40% MoM with no signs of slowing down.”



Saskia Hoebée

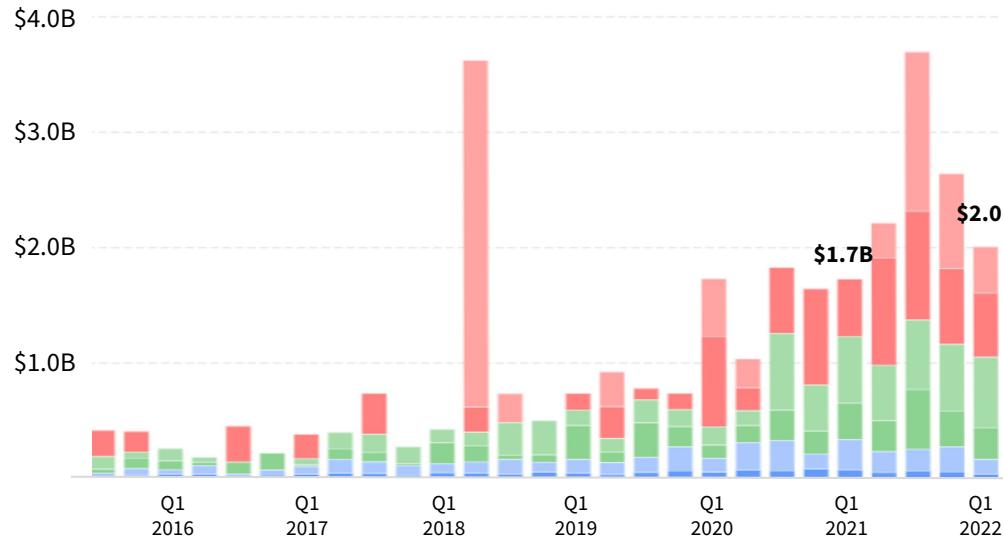
Senior Associate at
Five Seasons Ventures



Global VC investment in impact-focussed foodtech startups increased 18% year on year.

Global VC investment in impact foodtech by quarter [» view online](#)

■ \$0-1M (pre-seed) ■ \$1-4M (seed) ■ \$4-15M (series A) ■ \$15-40M (series B) ■ \$40-100M (series C) ■ \$100-250M ■ \$250M+





Benjamin Peri
co-founder at
Pyxo

Activity
Tech platform providing reusable packaging solutions for food service

Last round
€7m

Lead VCs
Five Seasons Ventures, Eurazeo

How is the regulation framework positively impacting your business and your industry?

There are really two ways to make people adopt a more sustainable lifestyle: economic incentives (like Too Good To Go or BackMarket) or a binding regulatory framework. Pyxo is benefitting from a binding regulatory framework by January 2023 and QSR will have the obligation to offer reusable packaging on site. By 2025, the French regulator has set an objective of reducing 30% of the use of disposable packaging. Germany is witnessing a similar trend, all restaurants have the obligation to offer reusable packaging, regardless of the channel of distribution. This new regulatory framework is a huge opportunity for startups, that have started to work on different pieces of the supply chain, from consumer facing solutions like Pyxo to operating washing centers.

What	is	your	main	impact	KPI?
We are monitoring the number of packages that were not thrown away thanks to Pyxo.					

What	is	the	vision	of	Pyxo?
Reuse. That's our magic word. This is the only option that our society has to grow sustainably. Even recycling is not enough. In the longer term, Pyxo has the ambition to help all industries reuse their resources, from food to fashion.					

What are the main challenges Pyxo is facing in its mission to reduce waste?

The main problem does not really come from corporates, even if reusable packaging is more expensive, because they know that ultimately they will have to change the way they operate. The main challenge is to convince consumers because it is less convenient for them. Pyxo is addressing this challenge by creating an enhanced experience for consumers through gamification and social features. The ambition is to create such an amazing experience that ultimately corporates will come to Pyxo because consumers are asking for it.

Plant-based future?

Due to disruptions of the supply chain, climate change and rising energy prices, food prices have reached the highest level since 2011 according to a UN index. Key ingredients for meat production and labor costs have been increasing, while the price of a plant-based burger has been declining. Still, plant-based meat is a premium product.

In Q1, Singapore-based Next Gen Food, the company behind the plant-based chicken burger TiNDLE, raised the largest ever Series A in that category.

There are now 175 startups working on plant-based meat alternatives. In addition, there are 244 startups developing plant-based fish and dairy consumer products. VC Investment in plant-based meat products increased 20% year-over-year to \$3.0 billion in 2021.

The first commercially viable plant-based protein products were introduced in the 1930s made out of soy and wheat, though taste and texture hardly resemble conventional meat, unlike today's generation of plant-based meat products. This is thanks to 160+ startups working on flavour and mouthfeel.

Open 420+ plant-based meat startups

NAME	TYPE	GROWTH SIGNAL 12 months growth	LAUNCH DATE	VALUATION
 InnovaFeed ★ 🌱 ❤️ Leading insect farmer producing n...	selling own inventory manufacturing	 190	2016	\$616–924m
 Anuvia Plant Nutrients Manufactures an enhanced efficie...	selling own inventory manufacturing	 57	2005	\$412–618m
 JOYN Bio Designs microbes that provide cer...	manufacturing	 84	Sep 2018	\$400–600m
 Sound Agriculture ★ 🌱 Alternative fertilizer company	manufacturing	 85	2013	\$180–270m
 Camporico ❤️ Offers high quality services to cust...	manufacturing	 77	2014	\$160–240m
 Ostara Nutrient Recovery Technologies 🌱 ❤️ Ostara develops technology to re...	manufacturing	 54	2005	\$44–66m
 N2 Applied ★ 🌱 ❤️ Improving global food production ...	hardware commission manufacturing	 37	Jun 2010	\$40–60m
 Pro Farm Ltd Pro Farm Technologies, we're an a...		 23	2014	\$32m
 Sistema.bio ★ Hybrid reactor biodigester that tra...	manufacturing	 113	2010	\$31–47m

Fertilizer and food security

Ukraine, known as “the breadbasket of Europe”, is the world’s largest producer of sunflower seeds. It also ranks among the top 10 producers of corn, barley, rapeseed, wheat and soybeans. 25% of the world’s “black soil”, ideal for growing crops like wheat, cotton, oilseeds, but also cereals, fruit and vegetables, is in Ukraine, and agriculture accounts for 9.3% of the country’s GDP. The invasion of Ukraine by Russia has prompted new concerns and discussion around food security and international reliance on production.

Beyond the direct disruption the crop production, the Russian invasion of Ukraine is set to have cascading knock-on effects for global food security and production.

Globally, Russia accounts for 23% of ammonia, 14% of urea, and 21% of potash, as well as 10% of processed phosphate exports, according to The Fertilizer Institute. In Europe, Russia supplies about a third of natural gas which is a main source of input for nitrogen fertilizers.

Globally, there are 154 startups working on smarter, tech-enabled fertilizers production, with a combined enterprise value of \$3.0 billion.

Open 150+ smart fertilizer startups

NAME	TYPE	GROWTH SIGNAL 12 months growth	LAUNCH DATE	VALUATION
InnovaFeed	selling own inventory manufacturing	190	2016	\$616–924m
Anuvia Plant Nutrients	selling own inventory manufacturing	57	2005	\$412–618m
JOYN BIO	manufacturing	84	Sep 2018	\$400–600m
Sound Agriculture	manufacturing	85	2013	\$180–270m
CampoRico	manufacturing	77	2014	\$160–240m
OSTARA Nutrient Recovery Technologies	manufacturing	54	2005	\$44–66m
N2 Applied	hardware commission manufacturing	37	Jun 2010	\$40–60m
Pro Farm Ltd		23	2014	\$32m
Sistema.bio	manufacturing	113	2010	\$31–47m

Explore the key themes driving Foodtech.

Find more in our landscapes:

» Online groceries

» Food waste

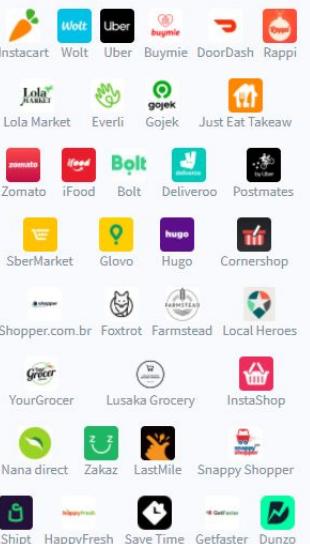
» Alternative protein

» Insects

» More ...

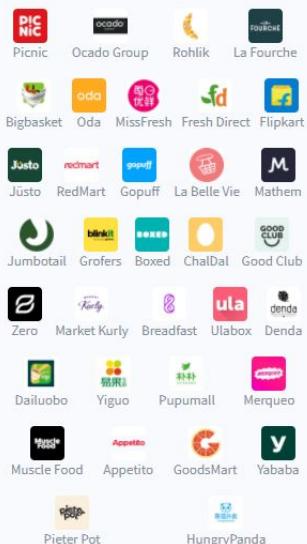
Personal shoppers

Combined funding \$ 33.7B



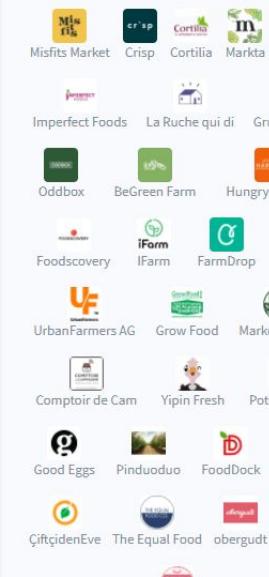
Online grocery retailer

Combined funding \$ 21.4B



Farm-to-table / fresh food

Combined funding \$ 4.9B



10 minutes delivery

Combined funding \$ 5.6B



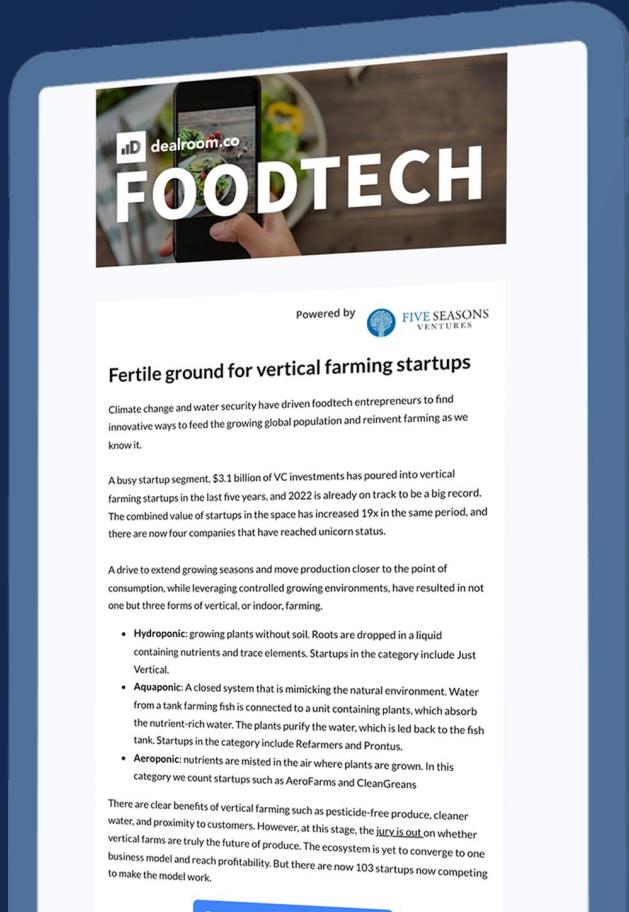
Community shopping

Combined funding \$ 3.9B



Warehouse automation

Combined funding \$ 643M



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