

CEMERGING TECH RESEARCH

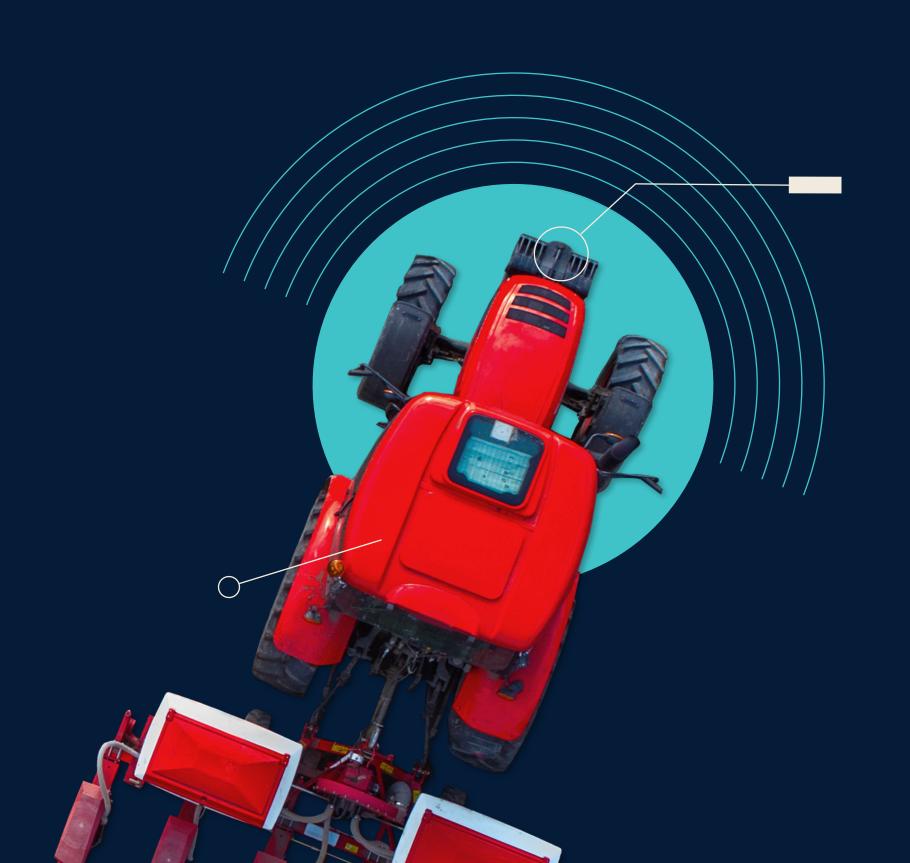
Agtech Report

VC trends and emerging opportunities



REPORT PREVIEW

The full report is available through the PitchBook Platform.





Contents

Vertical update	3
Q2 2023 timeline	5
Agtech landscape	6
Agtech VC ecosystem market map	7
VC activity	9
Emerging opportunities	26
Ag workforce management	27
Farm machinery retrofit	30
Biofertilizers	33
Select company highlights	36
eFishery	37
Invetx	39

What else would you like to see in this report?

Send your ideas to alex.frederick@pitchbook.com. We look forward to hearing from you.

We are adding PitchBook Exit Predictor probabilities to our Emerging Technology Research reports. PitchBook's proprietary <u>VC Exit Predictor</u> estimates the probability that a startup, or VC-backed company, will successfully IPO, be acquired, or merge. The tool is available exclusively to PitchBook subscribers.

Institutional Research Group

Analysis



Alex Frederick Senior Analyst, Emerging Technology alex.frederick@pitchbook.com pbinstitutionalresearch@pitchbook.com

Data

TJ Mei Data Analyst

Publishing

Report designed by Julia Midkiff

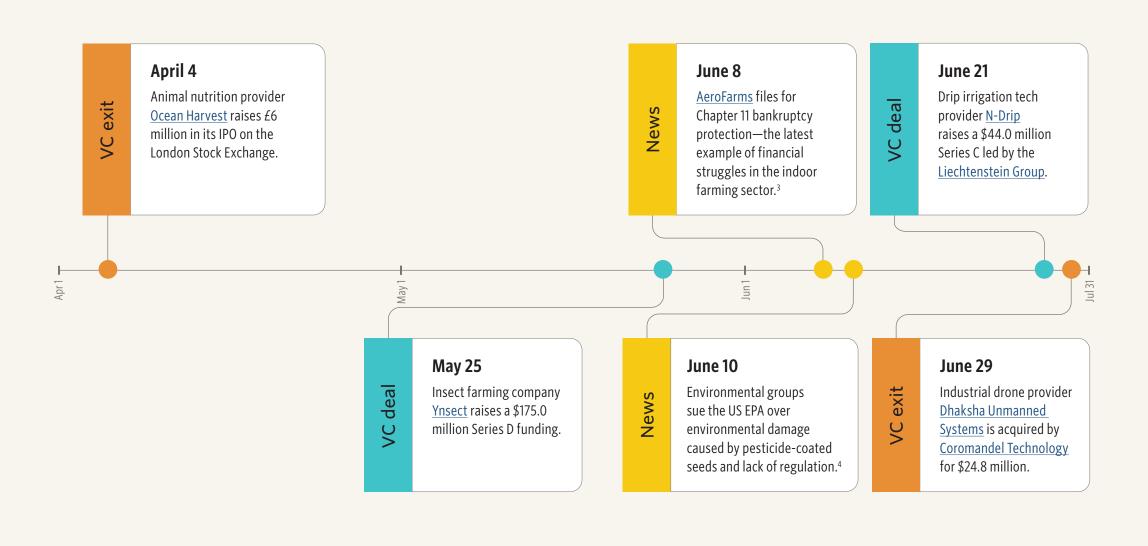
Published on August 15, 2023



For previous updates as well as our complete agtech research, please see the designated <u>analyst workspace</u> on the PitchBook Platform.



Q2 2023 timeline



3: "AeroFarms Announces Recapitalization Process to Concentrate Activities on its Danville Farm and its Highly Popular Microgreens Products," AeroFarms, June 8, 2023.
4: "EPA Sued Over Pesticide-Coated Seeds' 'Devastating Impacts' on US Wildlife," The Guardian, Tom Perkins, June 10, 2023.

Q2 VC deal count summary

210

total deals

3.4%

QoQ growth

\$1.8B

total VC raised

-8.7%

QoQ growth

TTM summary

986

total deals

-23.9%

YoY growth

\$9.2B

total VC raised

-31.4%

YoY growth



Agtech landscape

- 1 Ag biotech
- 2 Agrifinance & e-commerce
- 3 Indoor farming
- 4 Animal ag
- **5** Precision ag





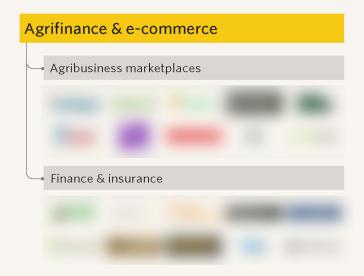
Agtech VC ecosystem market map

Click to view the interactive market map on the PitchBook Platform.

Market map is a representative overview of venture-backed or growth-stage providers in each segment. Companies listed have received venture capital or other notable private investments.





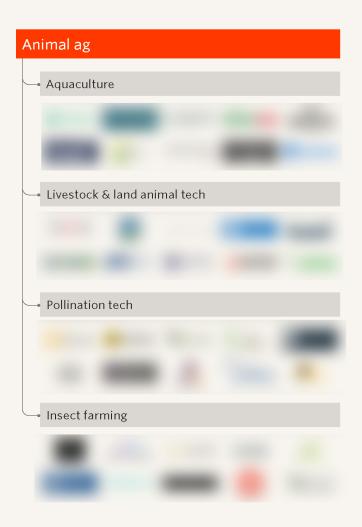


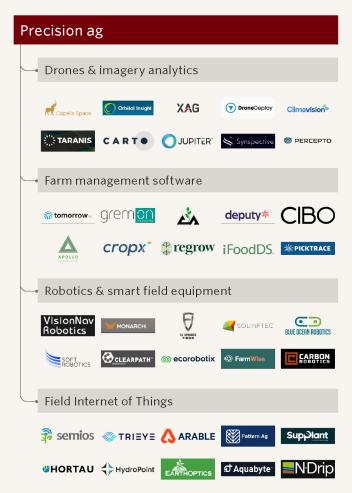


Agtech VC ecosystem market map

Click to view the interactive market map on the PitchBook Platform.

Market map is a representative overview of venture-backed or growth-stage providers in each segment. Companies listed have received venture capital or other notable private investments.





Q2 2023 Agtech Report CONFIDENTIAL. NOT FOR REDISTRIBUTION. PG 8



VC activity

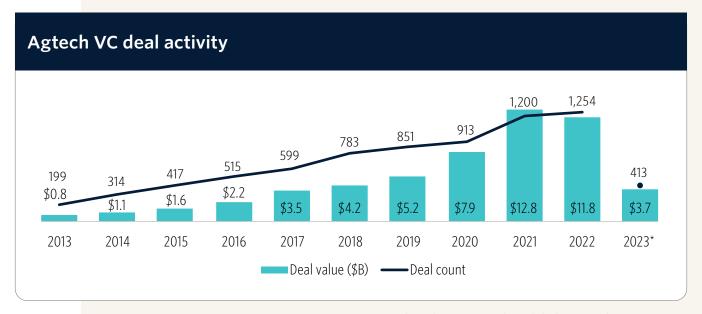
In Q2 2023, we recorded 210 agtech deals with a total value of \$1.8 billion. While there was a slight increase in the count compared with the previous quarter, the deal values slightly decreased, indicating a potential plateau in deal activity. The funding environment for agtech continued to be challenging, exacerbated by elevated interest rates. Despite this, notable deals were closed, including insect grower Ynsect's \$175.0 million Series D round and farm management platform AIS' \$117.0 million late-stage VC round.

2023 agtech's median pre-money valuation is \$17.0 million. This represents a significant rise of 33.1% YoY, which contrasts with our previous predictions of a decline due to market volatility. The trend can be attributed to a combination of factors, including a slowdown in deal activity and an emphasis on quality. GPs are now dedicating more time to due diligence and deal evaluation, resulting in longer closing times for deals. The ones that are being closed prioritize existing portfolio companies or those with lower risk and higher quality.

Exit activity has experienced a decline over the past year and this trend continued into Q2. Only 13 exits were recorded, with minimal deal value due to undisclosed M&A activity. The IPO market has been largely closed, however, we observed two companies navigate to the public markets in Q2. Animal nutrition provider Ocean Harvest registered an IPO, raising £6 million with its debut on the London Stock Exchange; and plant biotech company Cibus debuted on Nasdaq via a reverse merger with Calyxt. M&A opportunities have been limited due to rising interest rates. Notable acquisitions in Q2 include drone provider Dhaksha Unmanned Systems by Coromandel Technology for \$24.8 million, and imagery analytics provider Plantix by Helm for an undisclosed amount. It is anticipated that exit activity will remain subdued until interest rates decrease and the IPO market reopens.



Source: PitchBook • Geography: Global • *As of June 30, 2023



Source: PitchBook • Geography: Global • *As of June 30, 2023



VC ACTIVITY

Key agtech early-stage VC deals*

Company	Close date (2023)	Subsegment	Stage	Deal value (\$M)	Lead investor(s)	Valuation step-up
<u>Pixxel</u>	May 11	Drones & imagery analytics	Series B	\$29.5	Alphabet	1.6x
Source.ag	June 7	Indoor growers	Series A	\$27.0	Acre Venture Partners, Astanor Ventures	N/A
Waterplan	May 23	Drones & imagery analytics	Series A	\$18.4	Base10 Partners, Giant Ventures, Transition Global	N/A
<u>Inevitable</u>	May 15	Farm management software	Series A	\$14.7	N/A	N/A
<u>EniferBio</u>	April 19	Animal biotech	Series A	\$12.0	Aqua-Spark	N/A
Harpe Bio Herbicide	April 18	Plant biotech	Early-stage VC	\$10.5	Archer Daniels Midland	N/A
Carbonwave	April 6	Plant biotech	Series A1	\$7.0	Mirova	1.0x
TOWING	May 17	Indoor farming components	Series A	\$6.2	N/A	4.4x
Agriodor	May 2	Plant biotech	Early-stage VC	\$5.5	BNP Paribas Développement, CapHorn Invest, Capagro, SWEN Capital Partners, UI Investissement	45.1x
<u>Haber Technologies</u>	April 4	Robotics & smart field equipment	Series A	\$5.4	N/A	N/A

Source: PitchBook • Geography: Global • *As of June 30, 2023



VC ACTIVITY

Key agtech late-stage VC deals*

Company	Close date (2023)	Subsegment	Stage	Deal value (\$M)	Lead investor(s)	Valuation step-up
AIS	June 30	Farm management software	Late-stage VC	\$117.0	N/A	N/A
The Green Coffee Company	June 8	Agribusiness marketplaces	Series C	\$100.0	Legacy Group Investments	N/A
<u>Lemnature AquaFarms</u>	May 4	Aquaculture	Late-stage VC	\$58.5	N/A	N/A
<u>EcoRobotix</u>	May 9	Robotics & smart field equipment	Late-stage VC	\$52.0	Aqton, Cibus Fund	N/A
<u>FarmWise</u>	May 11	Robotics & smart field equipment	Series B	\$51.4	Fall Line Capital, Middleland Capital	N/A
<u>Mast Reforestation</u>	May 16	Drones & imagery analytics	Series B	\$30.0	Carbon Streaming	1.7x
ClimateAI	April 13	Farm management software	Series B	\$22.0	Four Rivers Group	2.2x
Nutrition Technologies	June 26	Insect farming	Late-stage VC	\$21.7	N/A	N/A
Stacked Farm	June 27	Indoor growers	Late-stage VC	\$21.4	Tayside Investments Australia	N/A
Guardian Agriculture	June 20	Drones & imagery analytics	Series A	\$20.0	Fall Line Capital	2.0x

Source: PitchBook • Geography: Global • *As of June 30, 2023



SELECT COMPANY HIGHLIGHTS: EFISHERY

eFishery

Founded 2013

HQ locationBandung, Indonesia

institutional round \$4.0M in a Series A round (November 2018)

First disclosed

Employees 2,000+

Total raised \$493.5M over six deals

Last disclosed financing Raised \$195.7M of Series D funding

Overview

<u>eFishery</u> is a technology company that provides integrated feeding solutions for fish and shrimp farming. The company was founded with the aim to revolutionize the aquaculture industry by providing smart, data-driven, automated feeding solutions. Their flagship product is a smart automatic feeder that can feed fish and shrimp automatically, adapt the feeding schedule based on the animal's appetite, and connect farmers to the cloud through the IoT technology. This helps farmers monitor and schedule feeding times, which can increase productivity, reduce waste, and improve profitability.

Leadership

eFishery's leadership team is comprised of key individuals who have made significant contributions to the company's success. The CEO and co-founder, Gibran Huzaifah, is an entrepreneur with a rich background in the aquaculture industry. His innovative vision and deep understanding of the sector have played a pivotal role in guiding the company's strategic direction and growth. Chrisna Aditya, Chief Internal Operations Officer and co-founder, brings valuable expertise in technology and systems design. His skills have been instrumental in crafting eFishery's unique smart feeding technology, positioning the company as a key player in the fusion of technology and aquaculture.



SELECT COMPANY HIGHLIGHTS: EFISHERY

Competitors

<u>eFishery</u> operates in a niche yet competitive field that blends aquaculture and technology. One significant competitor is <u>Aquabyte</u>, a company that applies machine learning to optimize fish feeding in aquaculture, mirroring <u>eFishery</u>'s dedication to using advanced tech in this sector. Another competitor is <u>XpertSea</u>, a technology firm leveraging AI and data analytics to bring

transformative solutions to aquaculture, underscoring the sector's increasing reliance on data-driven decision-making. <u>Umitron</u>, which provides technology solutions such as IoT and AI for aquaculture, is also a formidable player in the market. The dynamic nature of the industry implies that the competitive landscape may continue to evolve, with new entrants possibly disrupting the market with innovative solutions.

Financing history

Seed	Series A	Series B	Series C	Late-stage VC	Series D
September 8, 2015	November 13, 2018	September 3, 2020	January 10, 2022	March 6, 2023	May 25, 2023
Total raised: N/A	Total raised: \$4.0M	Total raised: \$19.8M	Total raised: \$90.1M	Total raised: \$150.0M	Total raised: \$195.7M
Pre-money valuation: N/A	Pre-money valuation: \$8.3M	Pre-money valuation: \$69.5M	Pre-money valuation: \$317.2M	Pre-money valuation: N/A	Pre-money valuation: \$1,222.7M
Investors: N/A	Investors: N/A	Investors: Argor Capital, Northstar	Investors: Peak XV Partners, SoftBank Investment Advisers, Temasek Holdings	Investors: N/A	Investors: G42 Global Expansion Fund

About PitchBook Industry and Technology Research

Independent, objective, and timely market intel

As the private markets continue to grow in complexity and competition, it's essential for investors to understand the industries, sectors and companies driving the asset class.

Our Industry and Technology Research provides detailed analysis of nascent tech sectors so you can better navigate the changing markets you operate in—and pursue new opportunities with confidence.

©2023 by PitchBook Data, Inc. All rights reserved. No part of this publication may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, and information storage and retrieval systems—without the express written permission of PitchBook Data, Inc. Contents are based on information from sources believed to be reliable, but accuracy and completeness cannot be guaranteed. Nothing herein should be construed as any past, current or future recommendation to buy or sell any security or an offer to sell, or a solicitation of an offer to buy any security. This material does not purport to contain all of the information that a prospective investor may wish to consider and is not to be relied upon as such or used in substitution for the exercise of independent judgment.

PitchBook Data, Inc.

John Gabbert Founder, CEO

Nizar Tarhuni Vice President, Institutional Research and Editorial

Paul Condra Head of Emerging Technology Research

Additional research

Eric Bellomo
eric.bellomo@pitchbook.com
Gaming
E-Commerce

Brendan Burke
brendan.burke@pitchbook.com
Internet of Things
Information Security
Artificial Intelligence & Machine
Learning

Aaron DeGagne aaron.degagne@pitchbook.com Medtech Digital Health

Alex Frederick alex.frederick@pitchbook.com Agtech Foodtech

Jonathan Geurkink jonathan.geurkink@pitchbook.com Supply Chain Tech Mobility Tech

Kazi Helal kazi.helal@pitchbook.com Biopharma Pharmatech Derek Hernandez derek.hernandez@pitchbook.com Enterprise SaaS

Ali Javaheri
ali.javaheri@pitchbook.com
Emerging Spaces

Robert Le robert.le@pitchbook.com Insurtech Crypto

John MacDonagh john.macdonagh@pitchbook.com Carbon & Emissions Tech Clean Energy Tech

Rebecca Springer
rebecca.springer@pitchbook.com
Healthcare Services
Healthcare IT

Rudy Yang rudy.yang@pitchbook.com Enterprise Fintech Retail Fintech