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VC activity across the agtech ecosystem





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Institutional Research Group

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Data

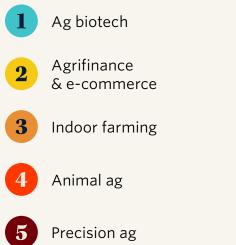
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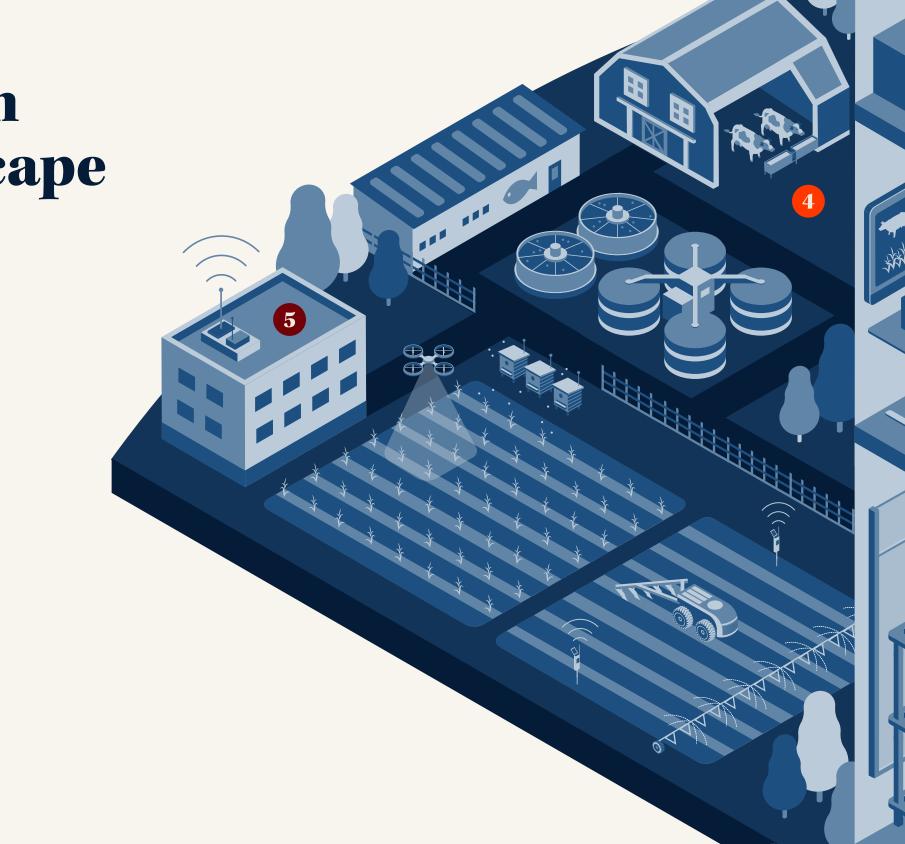
Report designed by Drew Sanders and Julia Midkiff

Published on January 24, 2025

Agtech landscape



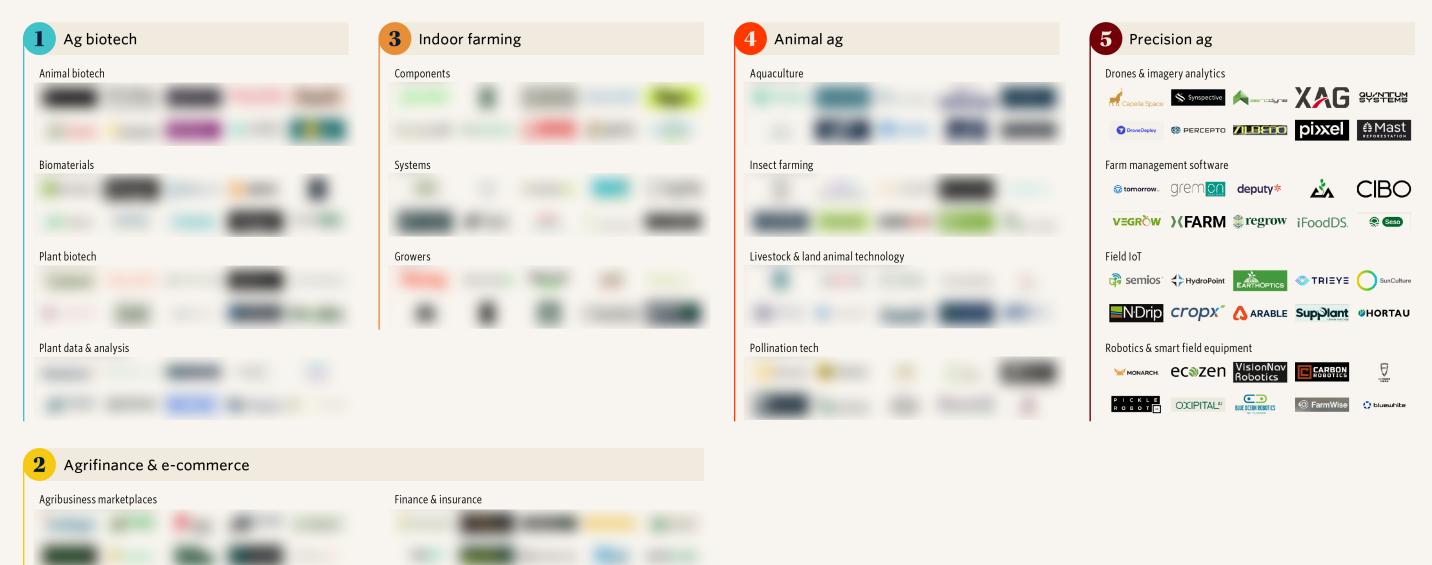
Q4 2024 Agtech VC Trends





Agtech VC ecosystem market map

This market map is an overview of venture-backed or growth-stage companies that have received venture capital or other notable private investments. Click to view the full map on the PitchBook Platform.





The agricultural technology (agtech) sector experienced a tumultuous year in 2024, marked by both challenges and opportunities. Despite facing significant headwinds, the industry demonstrated resilience and continued innovation across various segments.

Investment trends

The year concluded with a strong fourth quarter, as agtech VC deal activity grew to \$1.8 billion across 149 deals, representing an 8.9% increase QoQ. This growth built upon the momentum seen in Q3, with larger investments in more mature companies driving the trend. Consequently, the median deal value reached a record high of \$3.6 million in 2024, up 36% YoY.

However, the focus on late-stage startups led to a decline in early-stage investments, particularly in pre-seed/seed deals, which saw a 33.7% YoY decrease. This shift was evident in the quarter's top deals, such as Sound Agriculture's \$100 million Series D and Carbon Robotics' \$70 million Series D.

Despite the strong finish, annual agtech VC deal activity in 2024 experienced a significant decline. Deal value fell by 25.6%, while deal count dropped by 24.3% compared with the previous year. This downturn was primarily attributed to high interest rates, unfavorable trading conditions for public agtech companies, and a challenging exit environment.

Sector performance

Precision agriculture emerged as the leading segment, attracting \$2.1 billion across 238 deals in 2024. The increased demand for automation, robotics, and software solutions—driven by persistent labor shortages-fueled this trend. Remote crop health monitoring technologies, particularly those utilizing aerial imagery, saw substantial funding, with notable deals for companies like Pixxel, Muon Space, and EarthOptics.

The indoor farming sector faced significant challenges, with 28 companies ceasing operations or declaring bankruptcy. Bowery, once valued at \$2.3 billion, shut down in November 2024. However, the segment was not without its successes, as evidenced by Oishii's \$150 million Series B round, valuing the startup at \$615 million.

Global landscape

While the US maintained its position as the leading recipient of agtech VC, Asian countries made notable strides, accounting for three of the top 10 deals. The largest deal of the year was a \$200 million Series C investment in Malaysia's Aerodyne for industrial drones used in agriculture and other sectors.

Emerging technologies and themes

Throughout 2024, the agtech sector demonstrated remarkable resilience in several key areas, with AI and autonomous solutions, precision agriculture, gene editing, and biological inputs emerging as dominant themes. These technologies garnered significant attention from investors who recognized their potential to address critical global challenges such as food security and climate change. The continued focus on these areas underscored the industry's commitment to developing innovative solutions that could revolutionize agricultural practices and contribute to a more sustainable future.

Robotics and AI technologies showcased their ability to significantly enhance farm productivity while simultaneously reducing operational costs, making them increasingly attractive to farmers and agribusinesses alike. Precision agriculture solutions made substantial strides in addressing operational inefficiencies and improving sustainability metrics, offering farmers powerful tools to optimize resource use and minimize environmental impact. Gene editing technologies continued to show promise in boosting crop yields and enhancing disease resistance, although regulatory hurdles remained a challenge in some regions. Notably, biological inputs—particularly biofertilizers—gained traction as consumer demand for safer, healthier produce grew and the costs of traditional chemical inputs continued to rise. This shift toward more sustainable and environmentally friendly agricultural practices reflected a broader industry trend of balancing productivity with ecological responsibility.

Exit activity and acquisitions

Exit activity declined in 2024, with only 35 exits totaling \$1.1 billion. The most prominent exit came from veterinary therapeutic developer Invetx's acquisition via LBO by Dechra Pharmaceuticals for \$520 million. The year saw three public listings in the agtech sector: Synspective's IPO on the Tokyo Stock Exchange, Bolt Threads' public listing via SPAC, and Kweather's IPO on the Korea Stock Exchange.

Notable acquisitions highlighted the growing importance of AI and advanced imaging in agriculture, including Kubota Corporation's purchase of Bloomfield Robotics and GEA Group's acquisition of CattleEye. Ginkgo Bioworks' acquisition of AgBiome signified the adoption of biological alternatives to traditional chemicals and growing awareness of regenerative farming practices.

Looking ahead

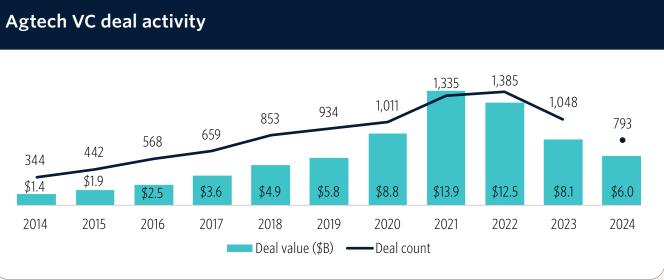
Despite the challenges faced in 2024, we anticipate a rebound in the agtech market—particularly for innovative companies with strong commercial traction—as the economy recovers and interest rates are cut. The industry's focus on capital-efficient solutions and sustainable growth, coupled with advancements in regenerative agriculture, ag biologicals, and robotics, positions it for potential growth in the coming years.

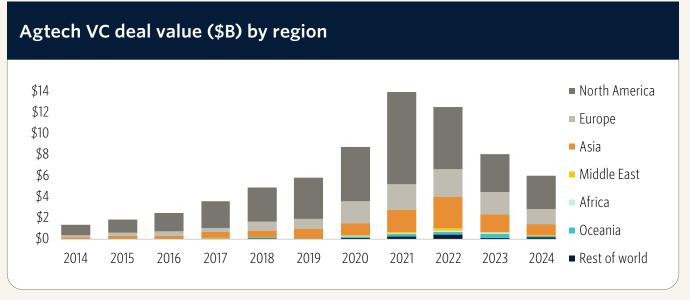
As the sector moves forward, it will continue to address critical global challenges, with increased emphasis on sustainability, food security, and climate change mitigation. The lessons learned from the challenges of 2024 will likely shape a more resilient and focused agtech industry in the future.

VC ACTIVITY



Source: PitchBook • Geography: Global • As of December 31, 2024





Source: PitchBook • Geography: Global • As of December 31, 2024

Agtech VC deal count by region



Source: PitchBook • Geography: Global • As of December 31, 2024

Source: PitchBook • Geography: Global • As of December 31, 2024

Key agtech pre-seed and seed VC deals in Q4 2024

| Company | Subsegment | Close date | Deal value (\$M) | Post-money valuation (\$M) | Deal type | Lead investor(s) | Valuation step-up (post to pre) |
|-----------------|----------------------------------|-------------|------------------|-------------------------------|-----------|---|------------------------------------|
| Atmo Al | Drones & imagery analytics | December 20 | \$17.6 | \$94.1 | Seed | N/A | N/A |
| Funga | Plant data & analysis | December 5 | \$5.1 | \$26.0 | Seed | N/A | 1.5x |
| Celleste Bio | Plant data & analysis | December 5 | \$4.5 | N/A | Seed | Supply Change Capital | N/A |
| NitroVolt | Plant biotech | November 9 | \$3.8 | N/A | Seed | BackingMinds, Denmark's Export and Investment Fund | N/A |
| Hoofprint Biome | Animal biotech | December 17 | \$3.8 | N/A | Seed | AgriZeroNZ | N/A |
| Crop Diagnostix | Plant biotech | December 19 | \$3.5 | \$10.5 | Seed | N/A | N/A |
| AgriRobot | Robotics & smart field equipment | December 11 | \$2.6 | N/A | Seed | Norminal Venture Finance | N/A |
| Arable | Indoor growers | November 1 | \$2.6 | N/A | Seed | N/A | N/A |
| Alvie | Field IoT | December 19 | \$2.2 | N/A | Seed | Tilia Impact Ventures | N/A |
| Oaken | Farm management software | October 7 | \$2.0 | \$9.0 | Seed | N/A | N/A |

Source: PitchBook • Geography: Global • As of December 31, 2024

Key agtech early-stage VC deals in Q4 2024

| Company | Subsegment | Close date | Deal value (\$M) | Post-money valuation (\$M) | Deal type | Lead investor(s) | Valuation step-up (post to pre) |
|-----------------------|------------------------------------|-------------|---------------------|-------------------------------|----------------|-------------------------------------|------------------------------------|
| Terradot | Drones & imagery analytics | December 12 | \$49.0 | N/A | Series A | John Doerr | N/A |
| Agtonomy | Robotics & smart field equipment | October 16 | \$32.8 | N/A | Series A | Autotech Ventures, Momenta Ventures | N/A |
| NetZero | Biomaterials | November 14 | \$27.0 | N/A | Early-stage VC | N/A | N/A |
| Klim | Farm management software | November 12 | \$23.8 | N/A | Series A | Autotech Ventures, Momenta Ventures | N/A |
| Inevitable Technology | Farm management software | December 11 | \$15.0 | \$70.5 | Series A1 | N/A | 1.3x |
| Cascadia Seaweed | Plant biotech | November 12 | \$7.2 | \$18.0 | Series A | N/A | N/A |
| Stockguard | Livestock & land animal technology | October 15 | \$6.0 | N/A | Early-stage VC | N/A | N/A |
| Solis Agrosciences | Plant data & analysis | December 1 | \$4.5 | \$11.0 | Series A | N/A | N/A |
| FruitScout | Farm management software | October 10 | \$3.8 | N/A | Early-stage VC | N/A | N/A |
| Singrow | Indoor growers | October 23 | \$3.0 | \$11.7 | Early-stage VC | N/A | N/A |
| Everest Carbon | Farm management software | December 3 | \$3.0 | N/A | Early-stage VC | N/A | N/A |

Source: PitchBook • Geography: Global • As of December 31, 2024

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Key agtech VC exits in Q4 2024

| Company | Subsegment | Close date | Exit value (\$M) | Exit type | Post-money valuation (\$M) | Acquirer/stock exchange |
|--------------------|----------------------------|-------------|------------------|----------------|-------------------------------|-------------------------|
| Synspective | Drones & imagery analytics | December 19 | \$274.0 | Public listing | \$341.2 | Tokyo Stock Exchange |
| Rezatec | Drones & imagery analytics | December 12 | N/A | Acquisition | N/A | N/A |
| Geora | Finance & insurance | December 4 | N/A | Acquisition | N/A | AgriProve |
| Leaf Trade | Agribusiness marketplaces | November 26 | N/A | Acquisition | N/A | LeafLink |
| Ferris Genomics | Animal biotech | November 20 | N/A | Acquisition | N/A | Solis Agrosciences |
| Databourg Systems | Farm management software | November 15 | N/A | Acquisition | N/A | Komunidad |
| Athenium Analytics | Drones & imagery analytics | November 6 | N/A | Buyout | N/A | Hale Capital Partners |
| AQUAOSO | Finance & insurance | December 19 | N/A | Acquisition | N/A | Growers Edge |
| ReCarbn | Biomaterials | December 19 | N/A | Acquisition | N/A | Skytree |

Source: PitchBook • Geography: Global • As of December 31, 2024

Agtech VC deal summary

| | Quarterly activity | | TTM activity | | | | |
|-------------------|--------------------|---------|--------------|---------|---------|--------------------|--------------------|
| | Q4 2023 | Q1 2024 | Q2 2024 | Q3 2024 | Q4 2024 | Q1 2023 to Q4 2023 | Q1 2024 to Q4 2024 |
| Deal count | 243 | 243 | 195 | 206 | 149 | 1,048 | 793 |
| QoQ change | 6.6% | 0.0% | -19.8% | 5.6% | -27.7% | N/A | N/A |
| Share of total VC | 2.4% | 2.3% | 2.0% | 2.4% | 2.1% | 2.4% | 2.2% |
| Deal value (\$B) | \$1.5 | \$1.4 | \$1.2 | \$1.6 | \$1.8 | \$8.1 | \$6.0 |
| QoQ change | -32.0% | -11.5% | -9.7% | 34.3% | 8.9% | N/A | N/A |
| Share of total VC | 1.9% | 1.6% | 1.3% | 1.9% | 1.6% | 2.3% | 1.6% |
| Exit count | 13 | 5 | 9 | 12 | 9 | 63 | 35 |
| Public listings | 4 | 1 | 0 | 1 | 1 | 7 | 3 |
| Acquisitions | 6 | 3 | 9 | 9 | 7 | 47 | 28 |
| Buyouts | 1 | 1 | 0 | 2 | 1 | 9 | 4 |

Source: PitchBook • Geography: Global • As of December 31, 2024

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Our Industry and Technology Research provides detailed analysis of established industries and nascent tech sectors from the perspective of private market dealmaking, helping you stay current on market trends and providing the insights you need to pursue new opportunities with confidence.

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