



Nurturing the Seeds of Innovation

Steve Welker ● February 8, 2023 ● Kansas City



Outline



Agtech - VC Data & Drivers

Lewis & Clark Agrifood

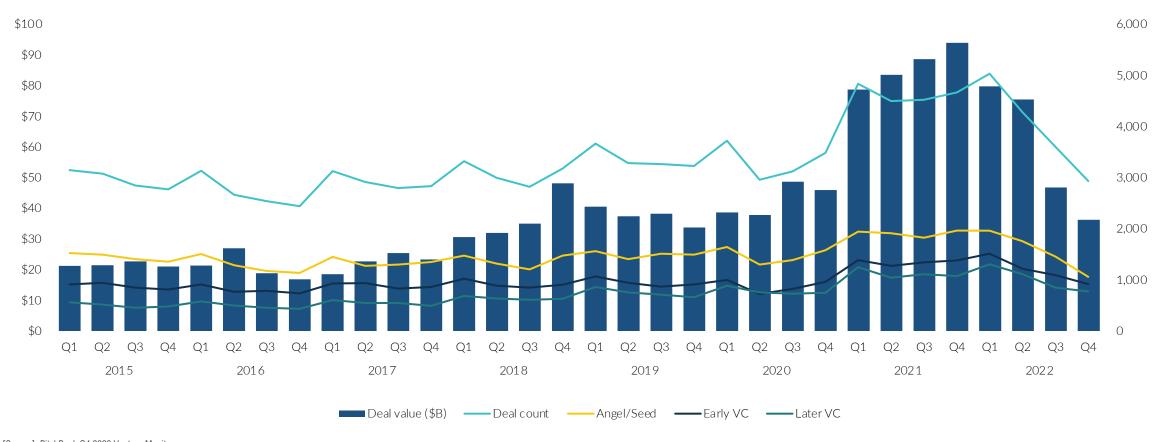
Key Trends

Venture Capital Deal Activity



VC deal activity continues to decline with a 37% decrease in deal count over the past year

US VC Deal Activity by Quarter (\$B)



[Source] PitchBook Q4 2022 Venture Monitor [Note] As of 12/31/22

2023: A Great Year to Invest in Ag-tech



Convergence of macro-economic factors will lead to exciting opportunities across ag-tech

Market conditions in 2022...

- Ag-tech and food-tech investment activity decreased from the peak of 2020 and 2021 but was more stable than the broader market.
- Ag-tech and food-tech valuations decreased with the most significant decline in late-stage venture.
- M&A ag-tech exit activity remained high with 32 agtech acquisitions in 2022, according to CropLife.

... are leading to strong investment opportunities in 2023

- In 2023, we will likely see the continuation of declining valuations.
- Investing activity will likely increase from the lull in 2022 as investors take advantage of the more favorable deal economics.

Ag-tech Venture Deal Activity



Ag-tech deal activity is declining slightly

Ag-tech VC Deal Activity by Quarter (\$B)

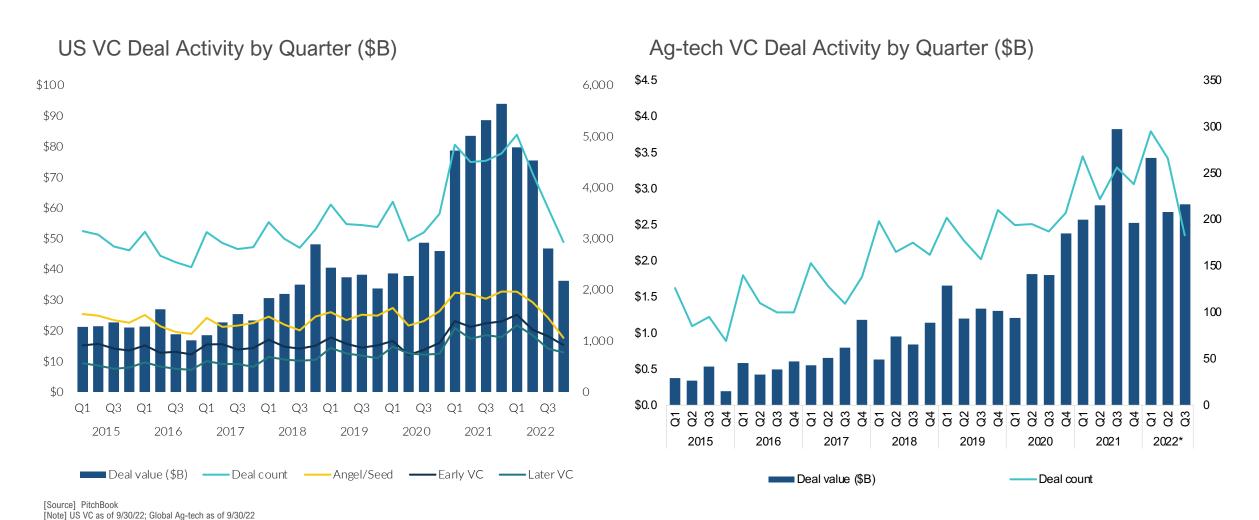


[Source] PitchBook Q3 2022 Agtech Report [Note] As of 9/30/22

Comparing Ag-tech to Overall Venture Activity



Ag-tech deal activity is declining but less than the overall market



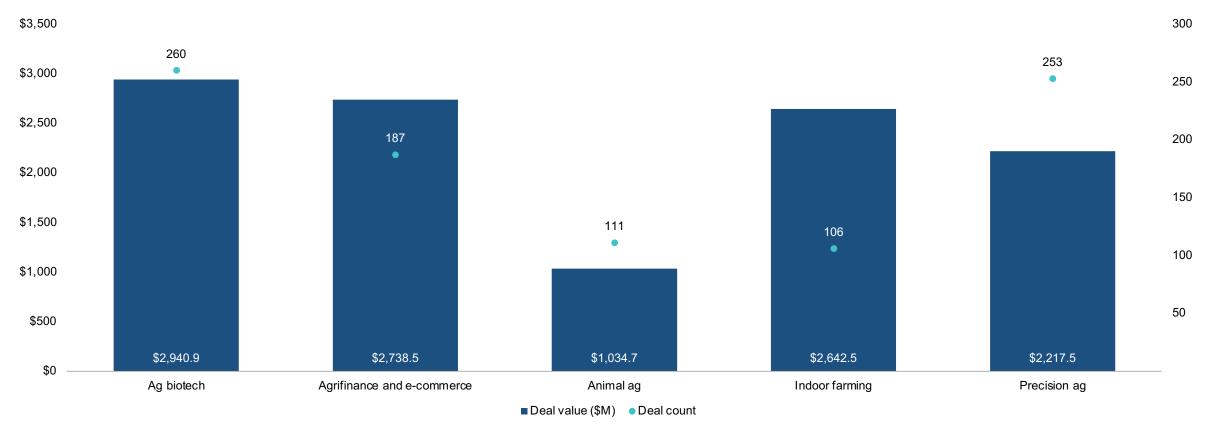
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Ag-Tech Investing by Sector

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Investing activity is strong across ag-tech sectors

Previous Year (4Q21 – 3Q22) Ag-tech VC Deal Activity by Segment (\$M)



[Source] PitchBook Q3 2022 Agtech Report [Note] As of 9/30/22

Drivers in Ag-tech



- Everyone is investing in ag-tech
 - Venture Capital 105 ag VC firms, 38% founded after 2015
 - Corporate Venture Capital ag (Bayer, FMC) & non-ag corporations (Goldman Sachs, more)
 - & More: Google, Microsoft, Walmart, including non-traditional ag investors
- Macroeconomic, Global factors population growth, global conflict, climate change, pandemics, supply chain ...
- "New" ag-tech companies Google (Mineral), Microsoft, Amazon, Chevron, more
- Data, Data, Data
 - "Mineral has already surveyed and analyzed 10% of the world's farmland and it says it will increase the number of data points pulled and analyzed from any one farm by more than 20 times by 2050, from an average of 190,000 data points per day in 2014."*
- Attitudes & Interest "Where did my food come from?"



INVESTING FOR HUMANITY

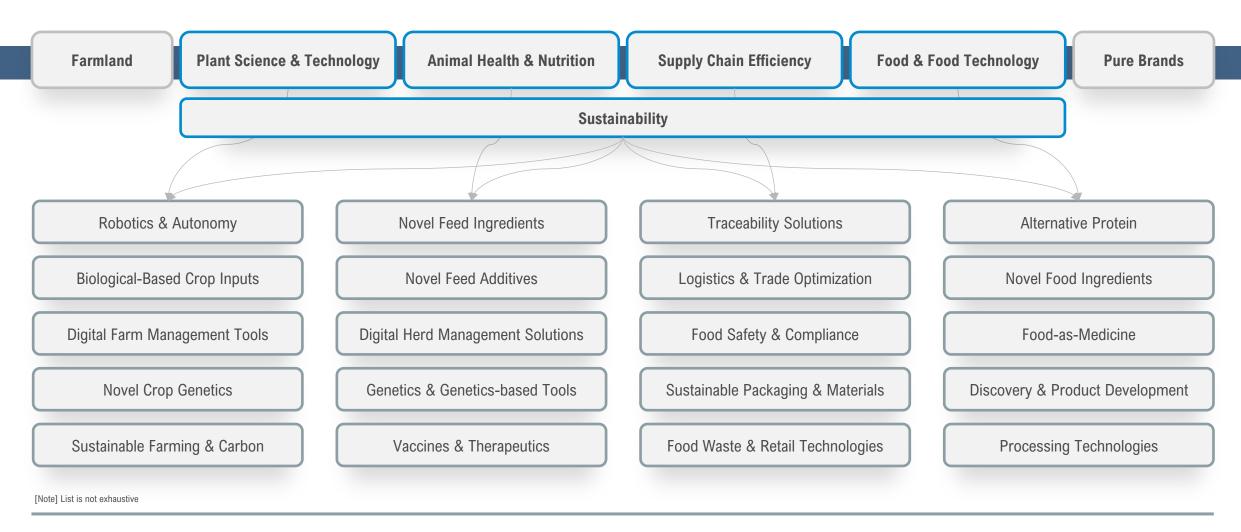
INVESTING WITH PURPOSE

INVESTING FOR IMPACT

Technology Enables Value Creation



Lewis & Clark focuses on technologies and trends that create value across the supply chain



Key Trends in AgriFood



Automation – Labor & Expertise Shortage

Green(er) Inputs

Convergence of Technology and Talent

Healthier & More Sustainable Foods



Trend 1: Automation – Labor & Expertise Shortage



Key Dynamics

- Ag is long on work and short on labor
- Decline in workforce availability demographics, shrinking piece of labor force
- Continued increase in hourly wages
- Expertise is important

Example Technologies & Companies

- Robot picking fruits and vegetables Tortuga, Muddy Machines
- Autonomous vehicles Sabanto, Monarch (tractors), EarthSense, Future Acres (wheelbarrows)
- Drones Rantizo, Agrispray
- Weeding Aigen
- Labor marketplaces SESO, HeavyConnect, AgButler





Trend 2: Green(er) Inputs



Key Dynamics

- Biologicals replace or reduce synthetic chemicals, reduce nitrogen, improve nutrient use efficiency
- New, greener chemistries
- GMO & gene edited crops less water, disease and pest resistance
- See and Act technologies

Example Technologies & Companies

- Soybeans Benson Hill
- Biologicals Sound Ag, Pivot Bio, Plant Response
- New chemistry modes of action Enko
- Seed traits Plastomics, Innerplant
- Natural products Stony Creek Colors
- Fertilizer production Nitricity
- See and Act John Deere, Innerplant





August 8, 2022 | Strategic Partnership to Serve Growing Demand for Alternative Protein by Leveraging Benson Hill's Proprietary Ultra-High Protein Soybeans and ADM's World-Class Production and Commercial Capabilities

Trend 3: Convergence of Technology & Talent



Key Dynamics

- No single solution to many problems
- Complex Problems Require Multiple Technologies Working Together
- Collaboration among companies large and small
- Mixing of technologies New skills
- Convergence of plant, human and animal health
- Interdisciplinary data scientists, engineers, statisticians, molecular biologists ...

Example Technologies & Companies

- Digital ag Climate Corp, Granular
- Human vaccines & plant health Greenlight Biosciences
- Enzyme development, sustainable chemicals Arzeda, DMC Biotechnologies, Gingko
- Digital tools for ag Microsoft + Bayer Partnership
- New crops CoverCress









August 1, 2022 | Bayer expands existing investment to acquire majority share in sustainable lower carbon oilseed producer CoverCress Inc.

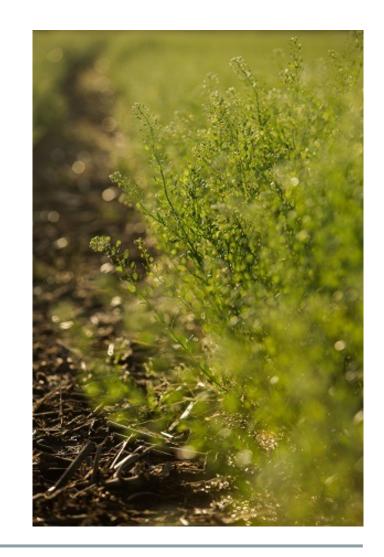
"Bayer has increased its stake to a 65 percent majority holding in CoverCress Inc. (CCI), a winter oilseed producer. The remaining 35 percent of the company will remain under the joint control of Bunge and Chevron."

A Great Example from Missouri - & CoverCress



Benefits of CoverCress

- Transforming a common weed into a novel rotational cash crop
- New crop, here in MO (& IL, IN, OH)
- Enables Midwest farmers to grow three crops in two seasons > more value from existing farmland and equipment
- New revenue for farmers +
 - Builds soil health...
 - And holds soil and nutrients in place over winter as a cover crop



Trend 4: Healthier & More Sustainable Foods



Key Dynamics

- Plant based products
- Cellular meat and seafood
- Natural ingredients sourced from plants
- "Designed foods" enzymes & proteins



- Plant based Impossible, Upside Foods, Meati
- Cellular based Blue Nalu, Air Protein, Wlldtype
- Natural Ingredients Brightseed
- Designed Foods DouxMatok, Joywell Foods
- Purple Tomatoes Norfolk Plant Sciences



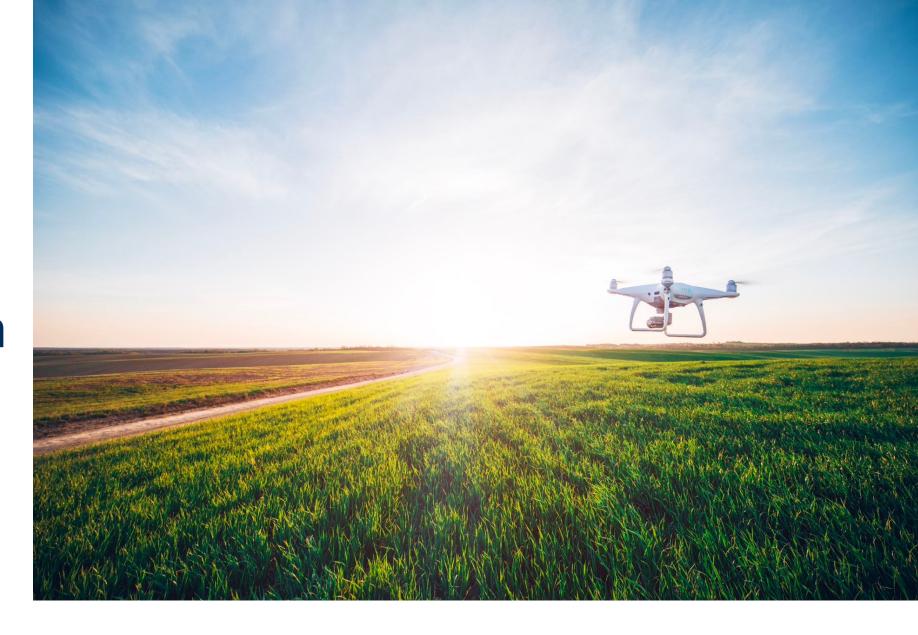








The Future in Ag is Bright!



Thank you!

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