# Feeding Growth

## AI Opportunities in the Agri-Food Tech Sector

Danny O'Brien | Nov 4th

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## AI Opportunities in the Agri-Food Tech Sector

"$1.5T Open AI Investment in compute power"
(Financial Times, Nov 3rd)

OpenAI

"Worldwide spending on AI is forecast to total $1.5T in 2025 alone"
(Gartner, Sep 17th)

Gartner

**$1.5 Trillion**

"JP Morgan launches 10-year $1.5T fund aimed at strategic investments including AI"
(JP Morgan Oct 13th)

J.P.Morgan

"Food loss and waste is predicted to top 2.1 billion tons per annum by 2030, costing $1.5 trillion annually"
(WRAP & BCG, Oct 30th)

WRAP BCG BOSTON CONSULTING GROUP

# SVG Ventures|THRIVE at a glance

## Our Vision

Advancing food, agriculture, and energy sectors for a more sustainable future

**#1**
Most Active Agtech Investor Pitchbook, 2022

**50+**
Corporate & Government Clients

**100+**
Countries reached

**5,000+**
Jobs created

**200+**
Mentor network

**300+**
Companies Accelerated

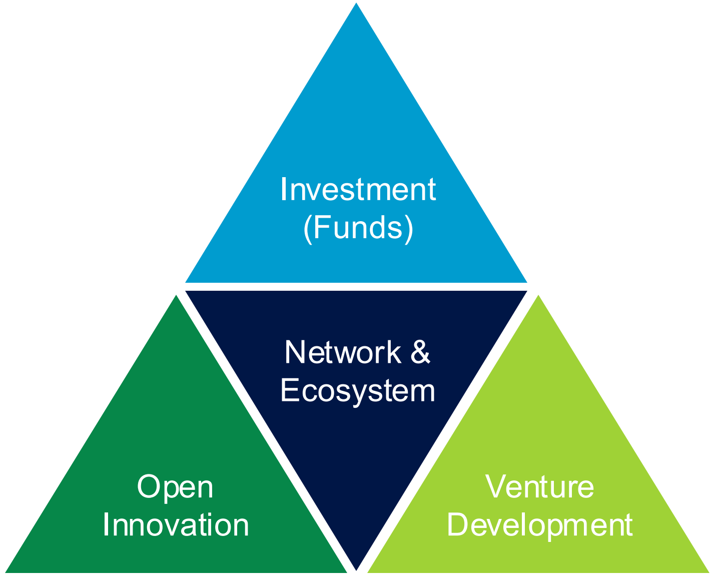
**100+**
Investments

**2+ billion**
Value created

**14,000+**
Startups & Scaleups globally in our private network

## Our Platform approach

Creating value on multiple layers based on deep ecosystem understanding and know-how



# Our Partners

## In the Agrifood Chain

| Farm Inputs | Ag Machinery & Automation | Ag Retail & Services | Livestock & Dairy | Supply Chain & Ingredients | CPG & Retail Brands |
|---|---|---|---|---|---|

Government & Associations

Impact

Research

Technology

# Investment

## SVG Ventures $100M Venture Capital Funds

### Pioneer Fund

SVG Ventures is managing a $50 million Venture Capital fund, anchored by Farm Credit Canada (FCC), with active investments underway since 2023.

The Pioneer Fund targets early-stage startups with breakthrough technologies and leadership focused on reshaping food systems and addressing climate challenges.

### Sunrise Fund

SVG Ventures is managing a $50 million Corporate Venture Capital fund for Kagome initiated in 2nd half 2024.

The Sunrise Fund focuses on early-stage startups relevant to Kagome and sustainable tomato and vegetable production.

# Market Trends & Investment Drivers

## Climate Adaptation

Weather volatility
Natural disasters
New pests & diseases

## Resilient Supply Chains

Global macro volatility
Supply chain shocks
Significant wastage

## Deep Tech

Rapid deployment of AI
Increase in available data
Convergence of AI & Biotech
Computational Biology

➢ *Allows to move faster, more cost efficient and achieve what wasn't possible before*

## Resource Scarcity

Arable land
Water & Energy
Labor

## Health & Nutrition

Obesity & Diabetes (GLP-1)
Epidemic of diseases
Consumer demand for healthy nutrition at scale

# Our Investment Themes

**AI-enabled game changing innovations that transform traditional industries.**
**Key criteria include:**

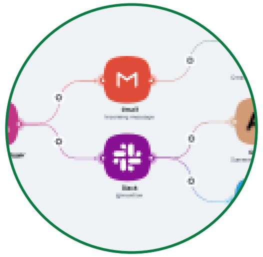
- Capital efficient, asset light business models that can scale quickly
- B2B or platform business models
- Leverage proprietary data and AI as an advantage
- Potential for significant positive impact on climate or society
- Multiple exit avenues

# Our Perspective:
# Macro AI Drivers for Agri-Food Tech

Compute + Model Breakthroughs

Explosion of Real-World Data & Omics base

Convergence of AI with other frontier technologies



Shift from generic tools to vertical applications

Edge AI & Robotics Revolution

**AI, data, biology and robotics are converging to reshape physical industries at an unprecedented speed.**

# Applying AI in Agri-Food Tech: 4 Dimensions

Data & Autonomy

Biology as Technology

Climate & Resource Resilience

Future of Food, Health & Supply Chains

# Data & Autonomy

## Data & Autonomy

- **Autonomous operations:** robotic tasks; vision QA in processing; automated controls on equipment.
- **Predictive maintenance & digital twins:** uptime, energy savings, cold-chain, & logistics.
- **Decision copilots for operators:** ERP/SCM embeds for procurement, scheduling, risk, compliance.

## Example: Halter (New Zealand)

Halter

- Uses AI-enabled smart collars and virtual fencing to autonomously guide, monitor, and manage dairy and beef herds
- AI algorithms analyze behavior and location to predict movement, health, and grazing patterns.
- Machine learning creates real-time “virtual fences” and audio cues that guide herds autonomously.
- Delivers 30–50 % labor-savings, improved pasture utilization, and better animal welfare

# Biology as Technology

### Biology as Technology

- **Trait discovery & predictive breeding:** active learning on genomics/phenomics + field data.
- **AI-guided bio-manufacturing:** yield optimization, QC anomaly detection.
- **Next-gen inputs & materials:** faster design cycles for biologics, biomaterials, diagnostics.

### Example: Heritable (USA)

HERITABLE AGRICULTURE

- Heritable uses generative AI to design, simulate, and optimize biological traits for crops, microbes, and ingredients.
- Applies deep-learning models to genomic datasets to predict high-value traits (yield, resilience, nutritional content).
- Uses AI to shorten breeding or strain-engineering cycles from years to months.
- Enables data-driven discovery of sustainable, climate-resilient food and ingredient inputs.

# Climate & Resource Resilience

### Climate & Resource Resilience

- **High-resolution climate risk & forecasting:** pricing/underwriting, operations planning.
- **Process optimization:** water, energy, fertilizer, waste valorization; carbon MRV stitched into workflows.
- **Market rails:** data-backed credits/commodities with auditability.


### Example: Völur (Norway)

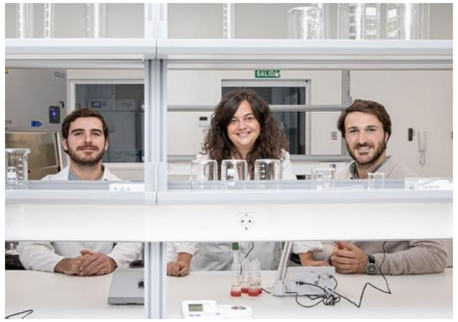
VÖLUR

- Völur's AI platform optimizes carcass cutting, production planning, and value utilization in the meat-processing industry.
- AI models analyze carcass data, demand forecasts, and plant constraints to generate optimal cutting plans.
- Reduces waste by 15% per carcass while delivering a 10% reduction in $CO_2$ emissions
- Working with JBS, world's largest meat processor, integrating into their legacy systems

# Future of Food, Health & Supply Chains

### Future of Food, Health & Supply Chains

- **Smart cold-chain & waste reduction:** sensing; routing; anomaly detection.
- **Precision nutrition & safety:** AI-enabled formulation, contamination monitoring, functional ingredients.
- **Fin/insure rails for supply chains:** risk scoring, working-capital, embedded finance.



### Example: MOA FoodTech (Spain)

- MOA FoodTech uses AI and biotech to convert agricultural by-products into high-value sustainable proteins and functional ingredients.
- Its platform applies machine learning to design and optimize fermentation conditions for upcycling by-products.
- Cuts R&D time from ~6 months to ~2 weeks for new ingredient development.
- Creates circular-economy value chains and reduces food-system waste.

# Ireland Can Lead in the AI-Driven Food Revolution


## Our Strengths:

1. World class Dairy & Meat value chains & ecosystem
2. Strong sustainability brand (Origin Green) and trust in international markets
3. Deep research infrastructure (Teagasc, Research Ireland & Top Universities)

## What's Needed:

1. More capital invested in Agri-Food Tech
2. Risk-appetite from corporates
3. Ambitious founders who can scale globally

THRIVE
by SVG VENTURES

# Thank You & Questions?

LET'S ADVANCE THE FUTURE OF FOOD, AGRICULTURE, AND ENERGY TOGETHER

THRIVE by SVG VENTURES

## Contact Me

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