

MesoMaterials

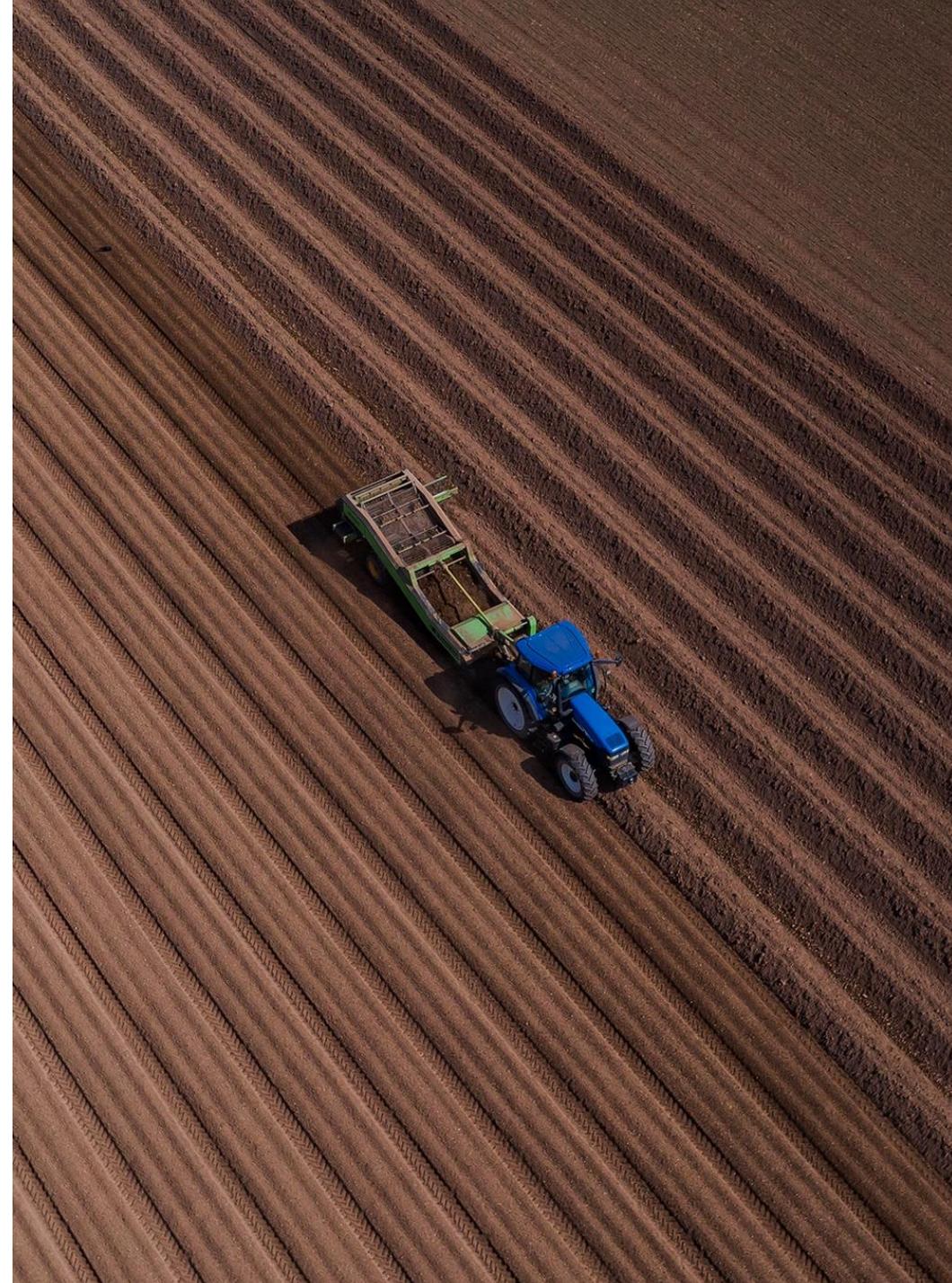
by Convergent Bioscience

Delivering a future of better food & agriculture.

Agriculture Today

We must grow more with less.

- UN FAO: need 2x more food by 2050.
- Increasing global uncertainty and volatility.
- Resource constraints.
- Declining productivities.
- Negative impacts from pollution.
- Some innovation around precision agriculture
- Big impediment is chemical inputs:
 - Low-efficiency (low UE) fertilizers
 - Pesticides leave poisonous residues
 - Bio-based inputs are not reliable



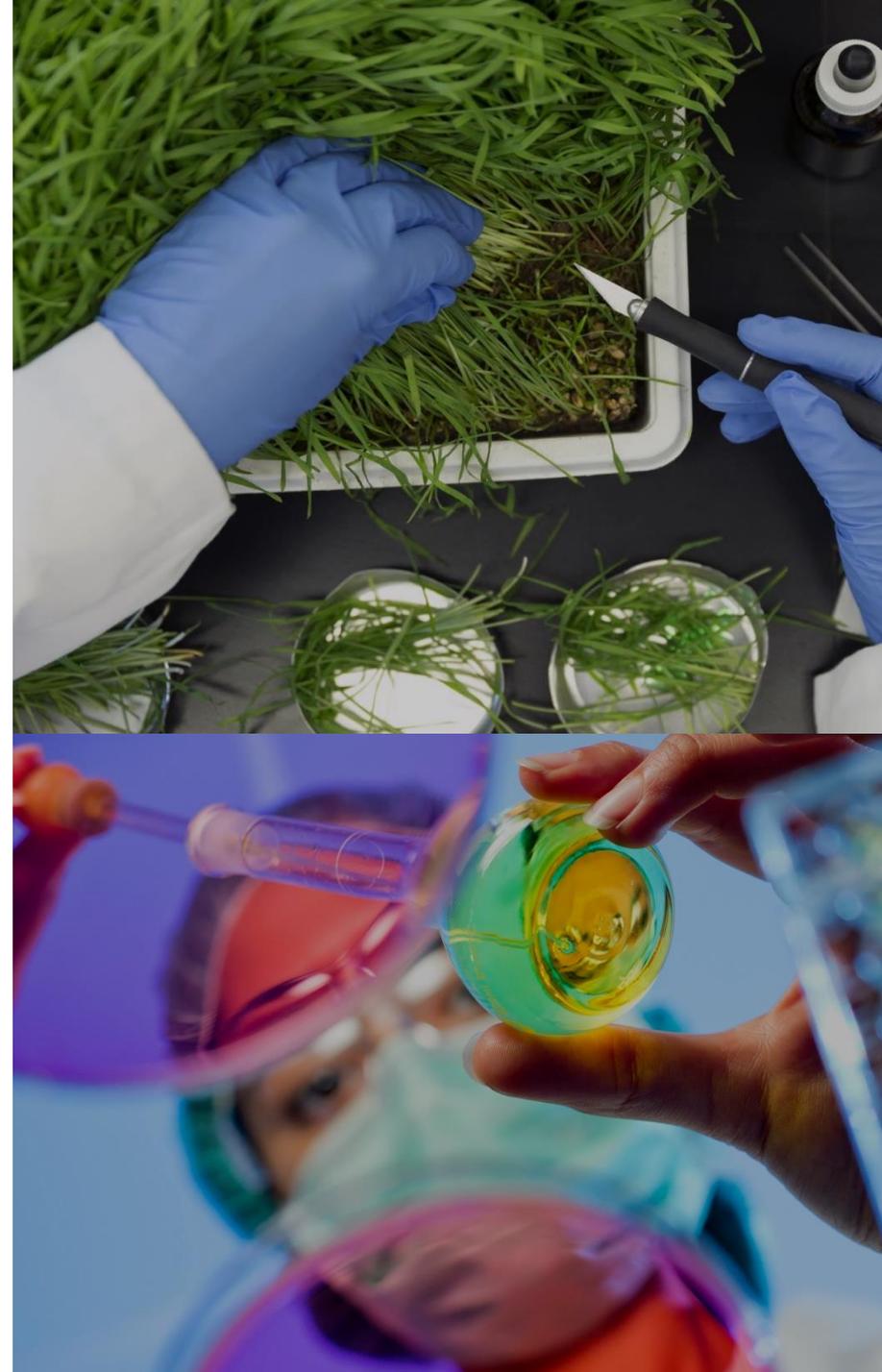
A Better Tomorrow

Next-gen solutions for global agriculture.

We have convened leading global technologists in small-world materials science and molecular agronomy to create a new category of plant health solutions.

- Translating bio-delivery technologies from human health into next-gen crop inputs
(i.e., pharma bio-delivery for plants)
- Improve input UE, reduce poisons and their residues, make bio-inputs reliable
- Improve performance, quality and yields; reduce pollution released to the environment; and reverse the damage to our health

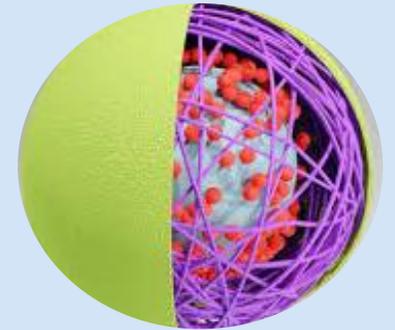
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Sustainable Bio-Delivery Tech

The future will be built with small and smart.

- advanced, sustainable, small-world materials enabling new breakthroughs
- generally .2 to 2 micron (near-nano)
- has been applied to human drug delivery for several years; now moving into plant health application
- provide great tunable benefits:
 - access
 - reactivity
 - integrity
 - release control
- 4D AI-enhancement:
 - discovery
 - design
 - development
 - delivery



Technology Platform

InPlanta: our proprietary AI-enabled platform to design functionalized mesoscale bio-delivery carriers for plants

1. MesoCore

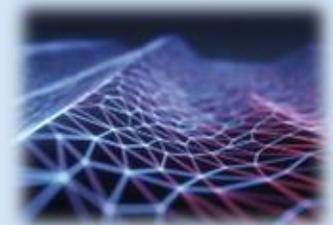
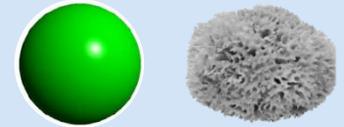
- “mesonized” solid payloads or loaded solids
- proprietary treatments for enhanced uptake
- bio-formulated for stability and usability

2. MesoCoat

- mesoscale functionalized bio-coating
- fortifying and stimulative versions
- long-duration, controlled delivery

3. MesoCap

- mesoscale biopolymer encapsulation
- protects integrity of bio-based payloads
- targeted and controlled delivery



Benefits

Reformulating the “how” in agriculture inputs.

A. next-gen “meso” fertilizers

- reduce the supply chain footprint **83%**
- reduce field use **50%**
- increase yields **25%**

B. next-gen “meso” protectants

- reduce disease losses **50%**
- reduce application footprint **50%**
- toxic residues **0%**
- organic, bio-based **100%**

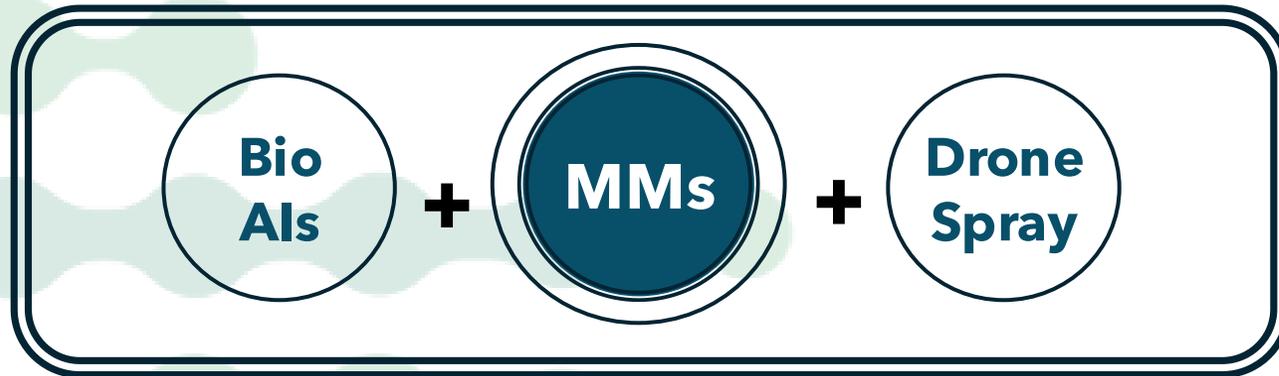
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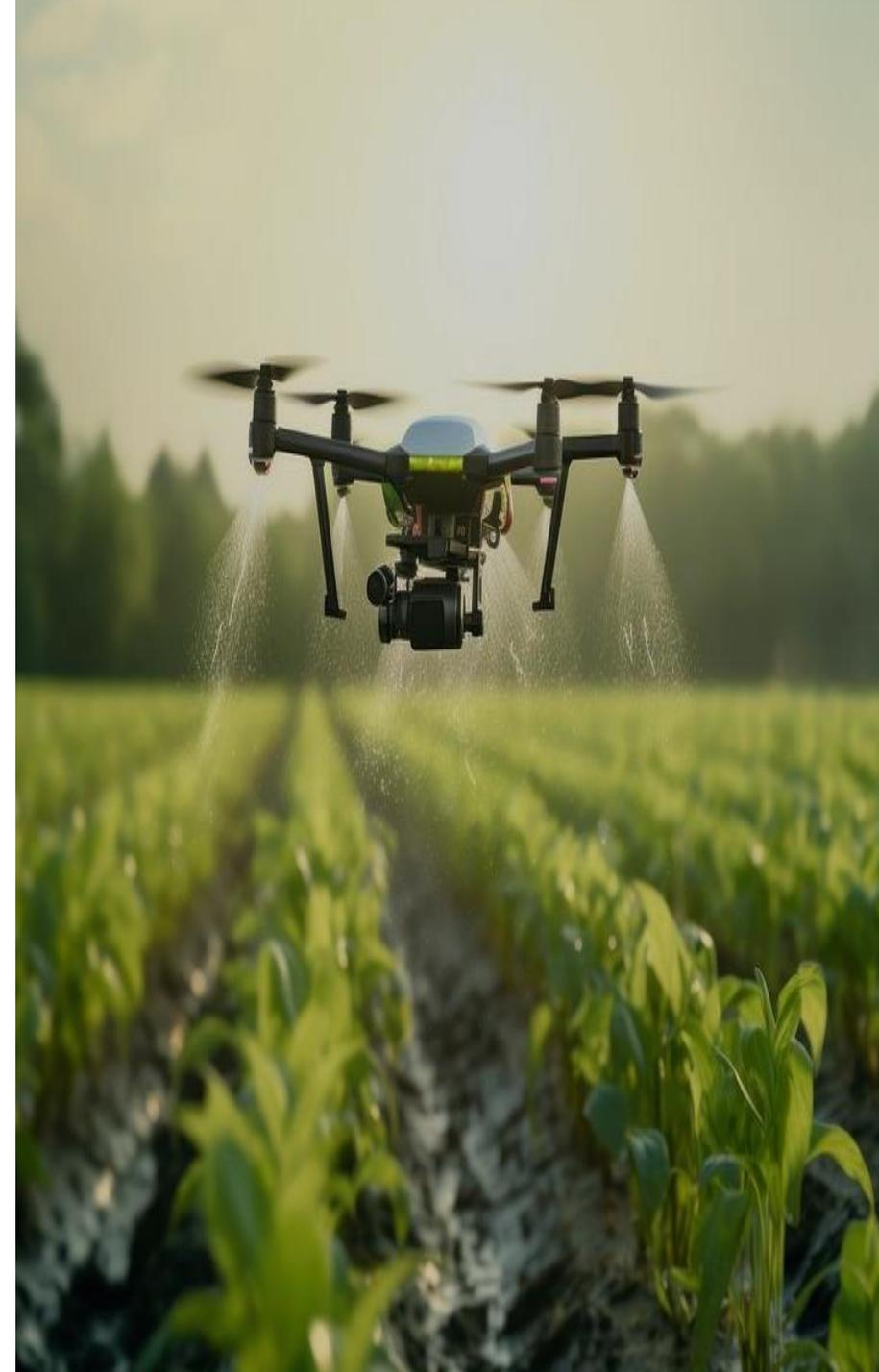
Making Bio-Inputs Work

Envisioning full-circle precision agriculture.

- MesoMaterials are the last piece necessary for proper, full-circle precision agronomy



Artificial Intelligence



Go To Market

Leveraging partners' capabilities for accelerated commercialization.

- Depends on capabilities of the partner.

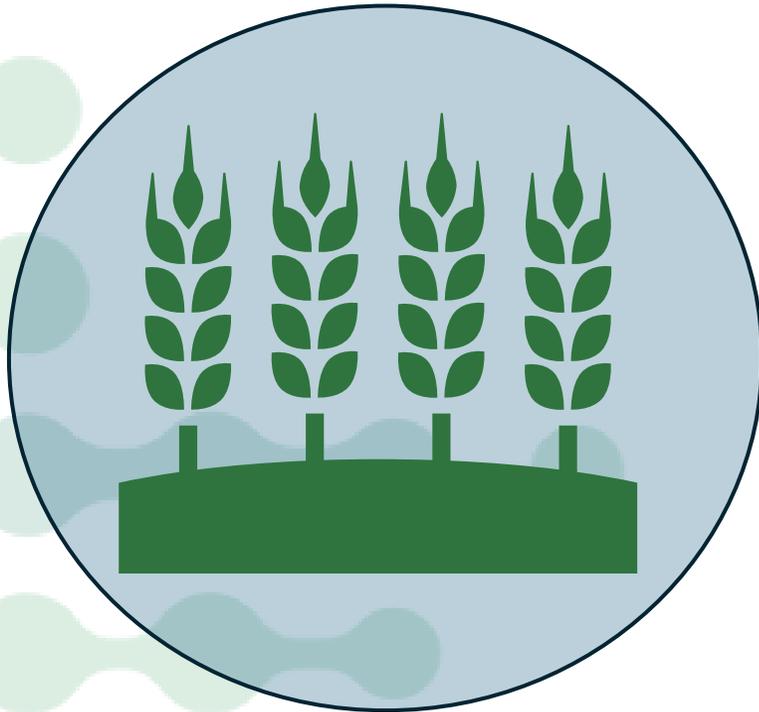


- Flexibility on business arrangement (i.e., license, co-mfg, white label, branded)
- Bias toward tech license end to increase operating leverage
- Dynamic IP strategy: Own IP plus Joint IP

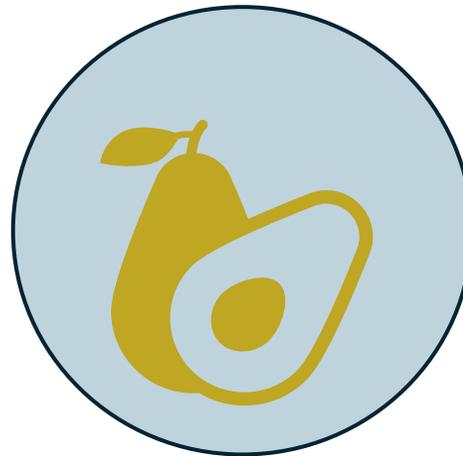


Market Size

A very large and critical global market.



Fertilizers: ~\$250 billion



Pesticides: ~\$150 billion

**Crop Inputs:
~\$400 billion**

Leadership

Partnering Leading Science with Strategic Commercialization.



Dr. Jason White
CIO



Dr. Christy Haynes
CSO



Mr. James Kirk
CEO



Mr. Diwa Ratnam
CTO



Dr. Chaoyi Deng
Tech Director



Dr. Warren Shafer
Advisory Board Chair

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New Haven, CT

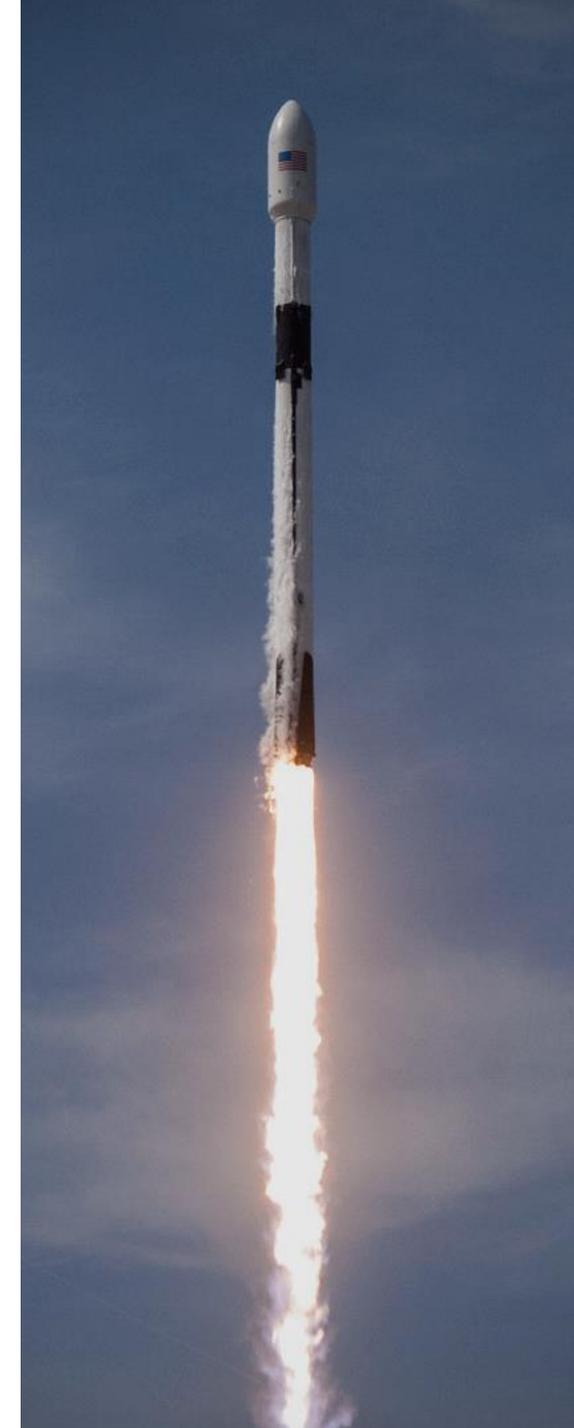


Mpls-St. Paul, MN

Traction

● Building a Strong Foundation with Tailwind Opportunities.

- Successful tech development with full platform (and a growing pipeline)
- Compelling field trials demonstrating delivery tech
- Commercial engagements with diverse set of partners
- Identification of strong foundational product lines
- Selective team and facilities building
- **Currently in testing programs with multiple corporate partners, including a market leader, with which the collaboration could represent hundreds of \$m.**

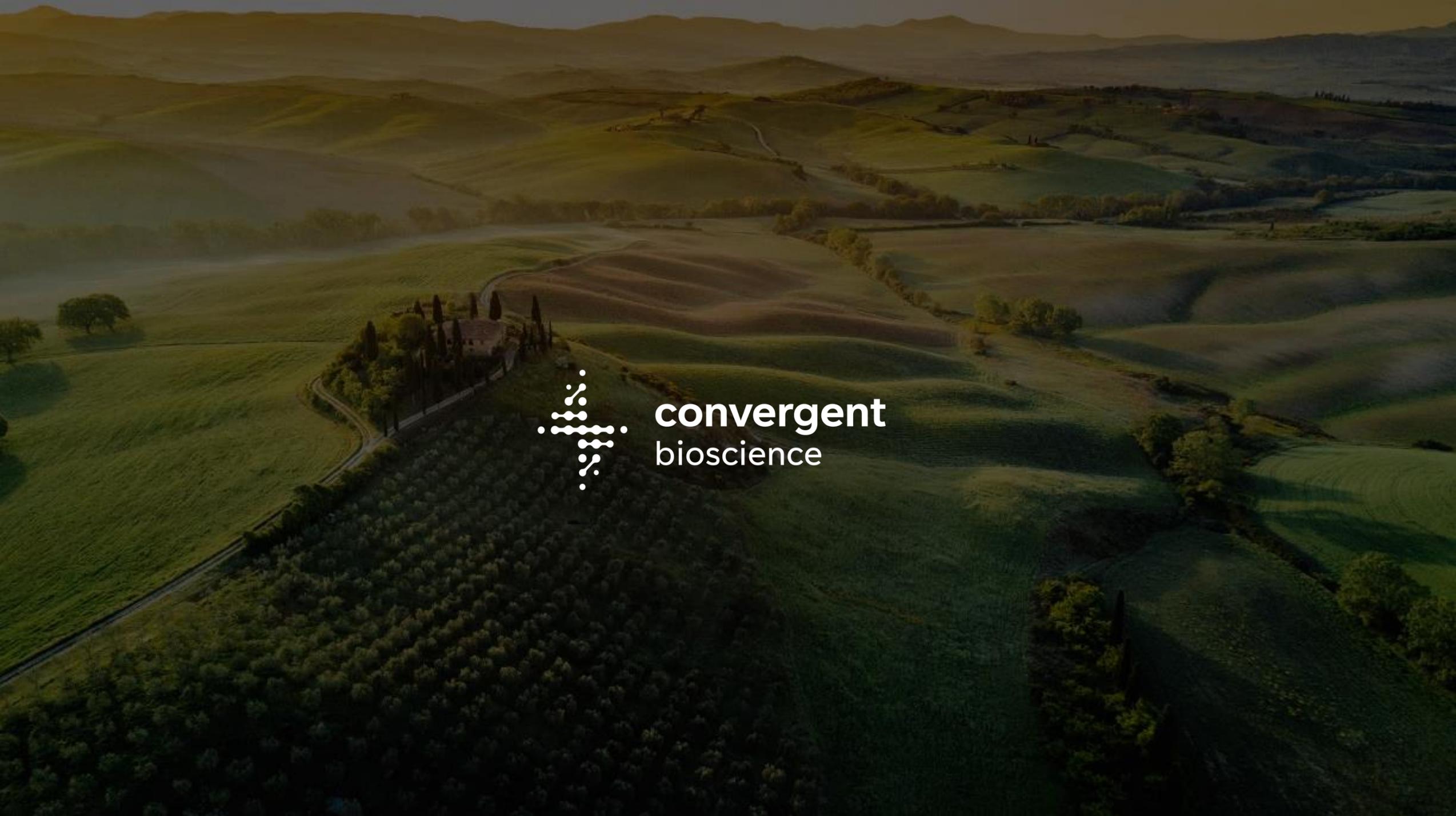


Capital Plan

Smart scaling aligned with capital availability.

- Internally supported as far as we can go.
- Bootstrapping has developed lean discipline.
- Now must raise Seed Round:
 - Build out pre-commercial team.
 - Add more technical capacity.
 - Have expansion opportunities available.
 - Initiating robust IP plan.
 - Establish corporate functions.
- **Seed Round: targeting \$3m on a \$10-15m enterprise valuation**





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