

SCIENCE
IN FOOD
INGREDIENTS

Institutional Deck

CONFIDENTIAL

NASDAQ:MLEC



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The Summary

Moolec Science
in a nutshell:
our company
described in
a sentence.



MoolecTM is a science-based ingredient company
that engineers animal proteins in food crops
through Molecular Farming technology.

The Problem

Livestock production is widely considered to be unsustainable and unstable with increasing costs and risks.¹



1. CO₂ Emissions

~20% of world's GHG emissions come from livestock, land use and crops destined for feed.

2. Water Consumption

15,400 liters of water are used to produce 1kg of meat.
~10% of the global water supply is destined for livestock production.

3. Antibiotics & Hormones

66% of antibiotics are used in farm animals to prevent diseases.
Estrogens or androgens are often administered intended to promote growth.

4. Food Insecurity

Mainly caused by global conflicts, environmental degradation, and non derisking management of supply chains.

5. Pests and Diseases

Present risk in confined animals such as the African Swine Pig Flu and the Avian Influenza.

¹ Sources:

• <https://ourworldindata.org/food-ghg-emissions>
• <https://www.thecattlesite.com/news/49594/how-much-water-does-it-take-to-produce-meat/>
• <https://pubmed.ncbi.nlm.nih.gov/21309458/>
• <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7766021/pdf/antibiotics-09-00918.pdf>

• <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9142037/>
• <https://extension.sdstate.edu/hormones-beef-myths-vs-facts>
• <https://www.feedingamerica.org/gro-intelligence.com/insights/how-african-swine-fever-in-china-is-shaking-up-world-trade-flows>

The Solution

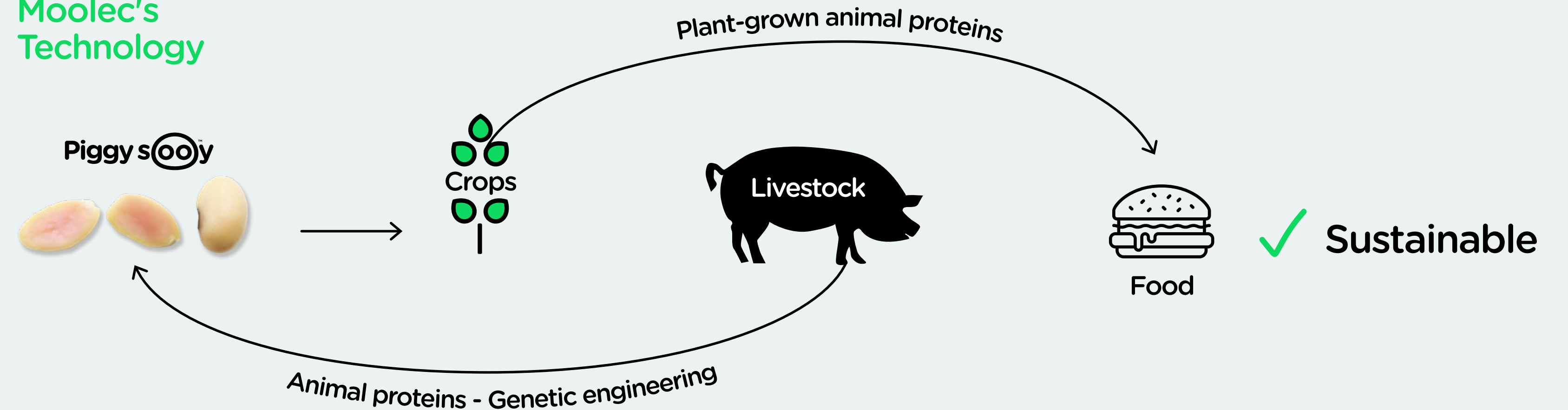
Moolec genetically engineers soybeans with pig proteins to tweak the meat value chain.



Traditional

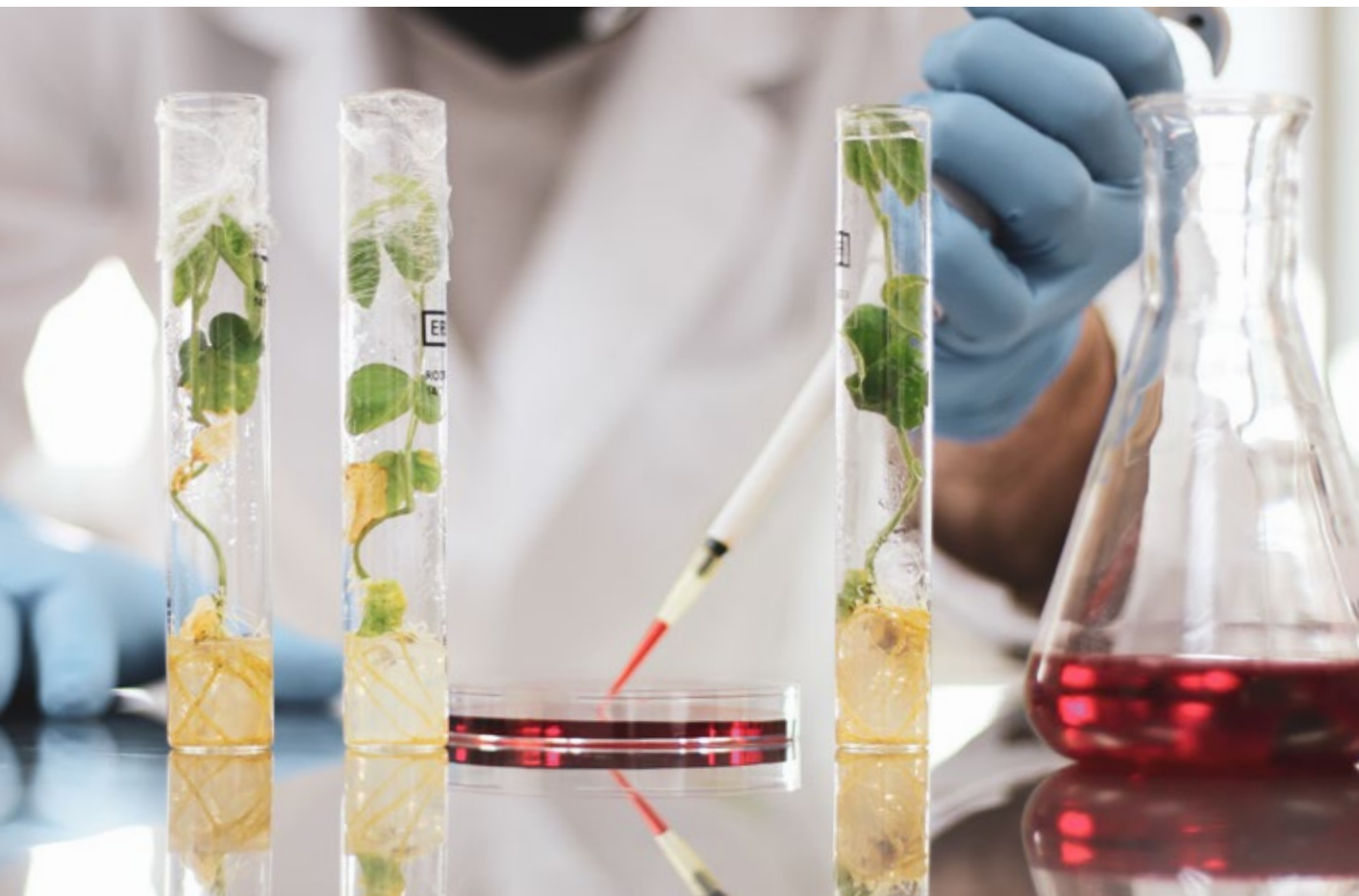


Moolec's Technology



The Technology

Moolec can replicate the same protein DNA from animals in plants by using science.



Standard Soy

Piggy s@ooy™

Soy proteins only

Soy proteins + Pig proteins

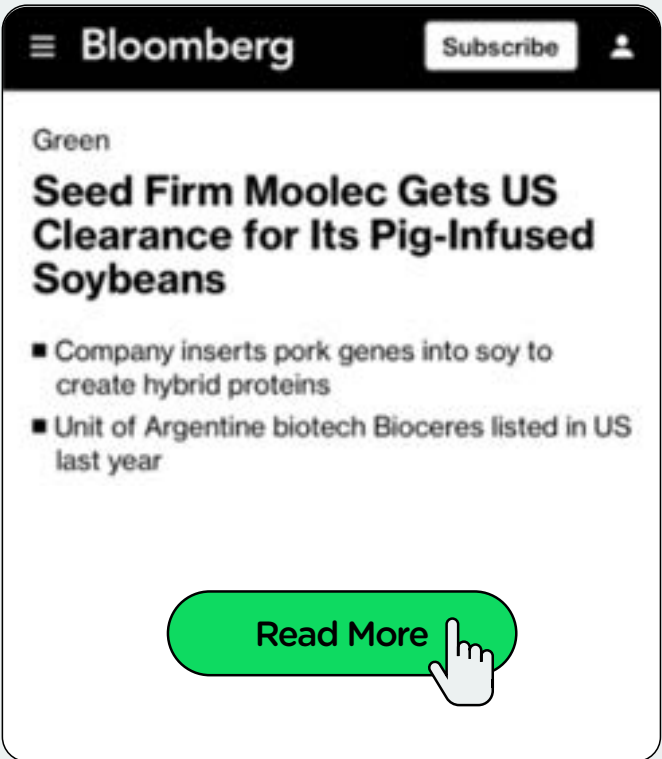


✓ **High Yields Achieved**
~25% of targeted molecule over total soluble proteins.¹

✓ **Less Water & Carbon Footprint²**
One acre of Piggy Sooy™ could potentially save ~60,000 litres of water and ~550kg CO₂eq emissions.

✓ **USDA Regulatory Approved**
First company in history to achieve USDA-APHIS approval for plant-grown animal proteins.

✓ **Patented Technology**
Method of high level of expression in plants protected (Patent pending)



¹ Total pig protein content per seed varies based on the obtained total soluble protein (TSP) parameter.
² One acre of traditional soybeans can feed ~10 pigs. Sources:
• <https://www.unitedsoybean.org/hopper/driving-demand-from-the-field-to-the-feed-trough/#:~:text=Hogs%20consumed%2018%25%20of%20U.S.hog%20farmers%20or%20animal%20nutritionists>
• <https://fas.usda.gov/data/production/commodity/0813100>

• <https://meatfacts.eu/home/activity/campaign-updates/how-much-water-for-1kg-of-meat/>
• <https://pubmed.ncbi.nlm.nih.gov/38231615/#:~:text=The%20carbon%20footprint%20of%20the,4.52%20kg%20CO2e>
• <https://pelc.org/what-greenhouse-gases-are-emitted-by-pig-farms/#:~:text=The%20two%20areas%20where%20theand%20poultry%20in%20the%20US>

The Product

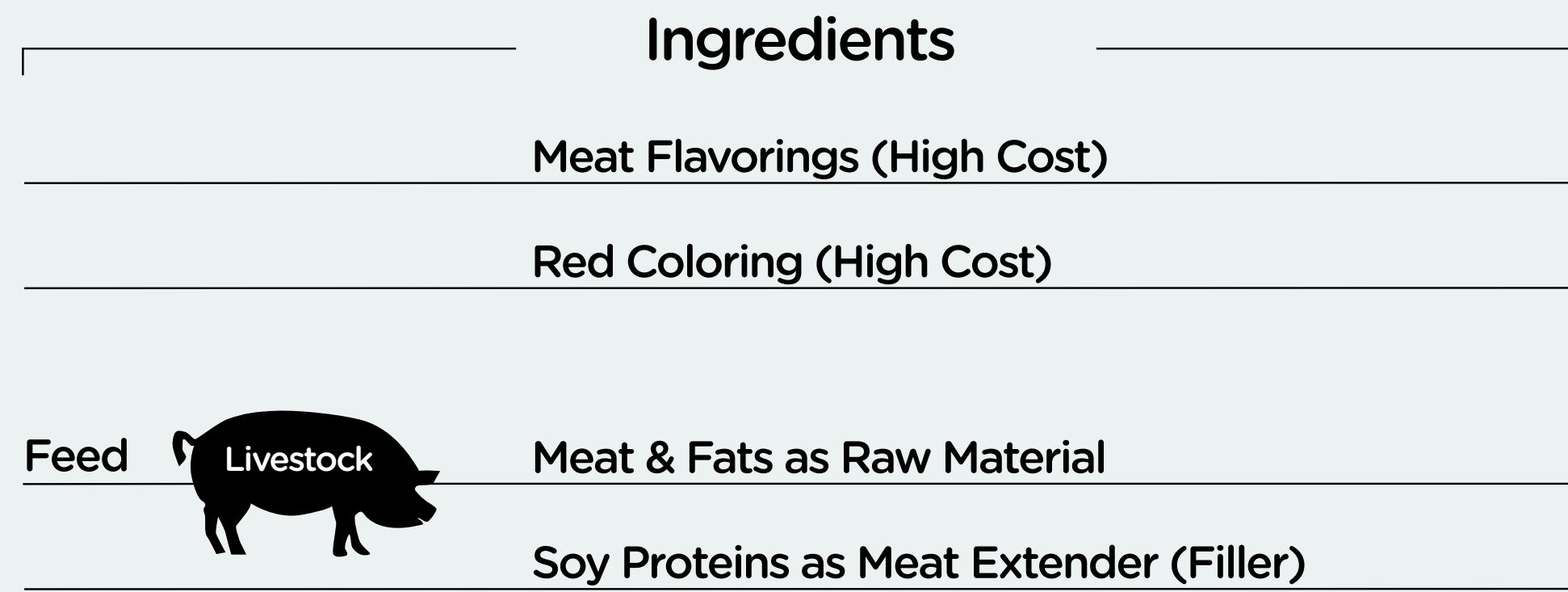
Moolec develops clean label ingredients to replace more meat and expensive additives.



How Industry Works

Flavor Houses
Producing
Functional Ingredients

Agribusiness
Companies
Processing Soybeans




Food Producers
of Sausages,
Burgers, Nuggets,
Dumplings, etc.

What Moolec Can Offer



→ Meat
Replacement



Same Iron, Flavor
& Color as Meat¹

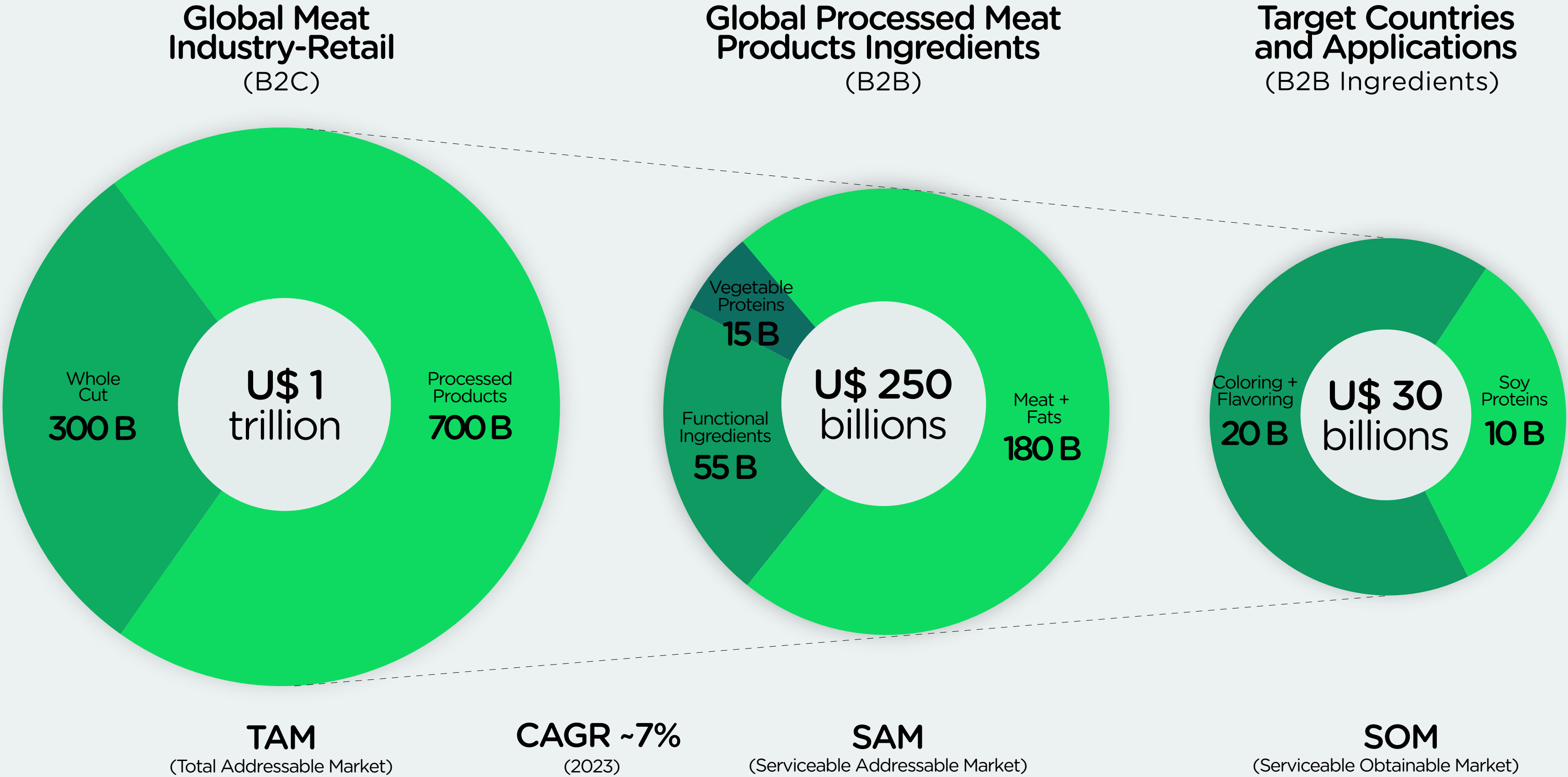
Less Carbon & Water
Footprint than Livestock²


Food Producers
of Sausages,
Burgers, Nuggets,
Dumplings, etc.

¹ Moolec's internal analysis based on publicly disclosed information for the industry and management estimates
² Moolec's technology is more friendly to the environment when compared to traditional protein production systems using ~35x less land, generating ~8x less water footprint and ~60x less CO₂ emissions. Sources:
• <https://ourworldindata.org/agricultural-land-by-global-diets>
• <https://waterfootprint.org/en/water-footprint/product-water-footprint/water-footprint-crop-and-animal-products/>
• <https://ourworldindata.org/food-choice-vs-eating-local>

The Market

Moolec tackles the processed meat ingredient market of commodities and specialities.¹

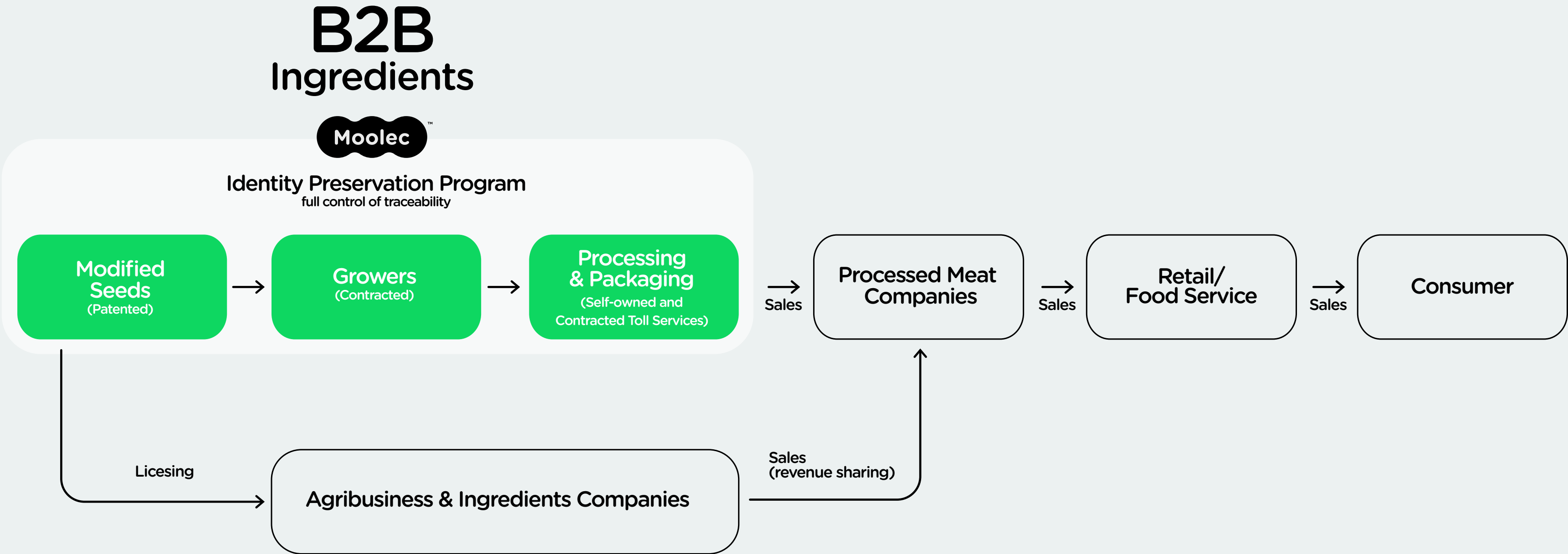


¹ Sources:
• <https://www.imarcgroup.com/processed-meat-market>
• Moolec's internal analysis based on publicly disclosed information for the industry mainly the GFI State of Industry Report 2021 (March 2022)
• Moolec's internal analysis based on Global Gamma Linolenic Acid Market - Market size, status and forecast to 2028 - Verified Market Research
• Moolec's internal analysis based on Global Rennet Market 2022-2027 - Mordor Intelligence

• Moolec's internal analysis based on Iron Supplements Market, Growth, Future Prospects and Competitive Landscape 2017-2030 - Credence Research
• Moolec's internal analysis based on Non-meat ingredients market - Global forecast to 2027 - Markets & Markets
• Moolec's internal analysis based on Plant-based protein market - Global forecast to 2025 - Markets & Markets
• Moolec's internal analysis based on publicly disclosed information for the industry and management estimates

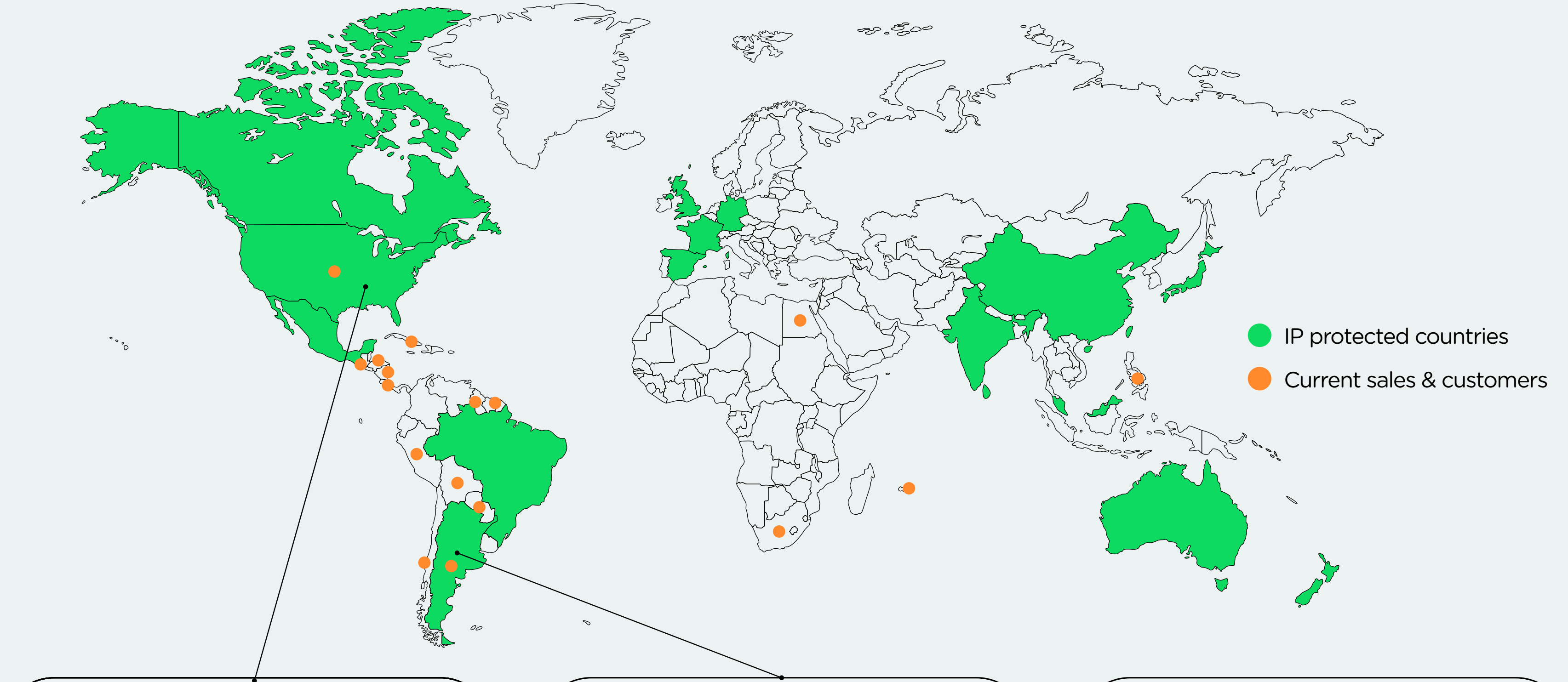
The Business Model

Moolec uses current supply chain and industry practices to produce and sell its unique ingredients.



The Capabilities

Moolec operates in the United States & Argentina, commercializes and protects its IP worldwide.



Operational Hub, Crop Science, Production & Cultivation

Idaho, Iowa, Missouri -St. Louis-, Ohio, Texas & Wisconsin (US)





Back Office, Production & Cultivation

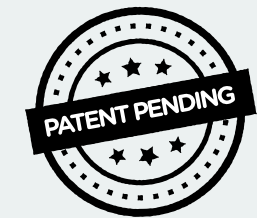
Buenos Aires, Córdoba & Rosario (ARG)





+25 Patents





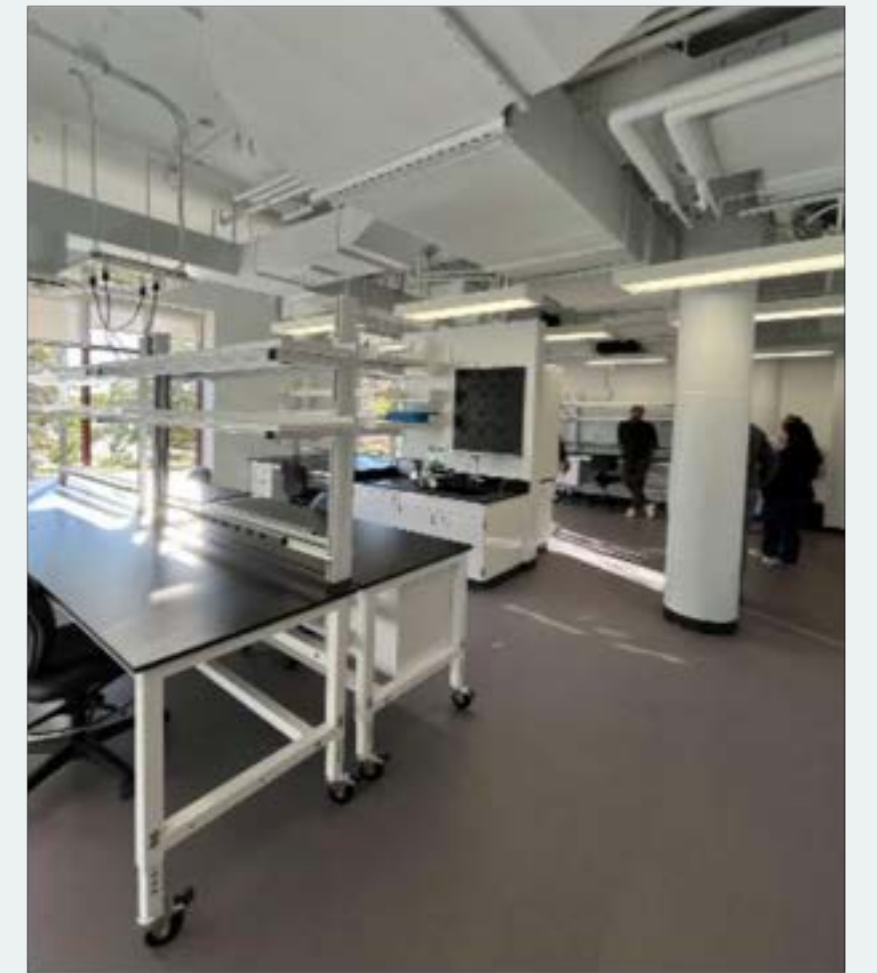
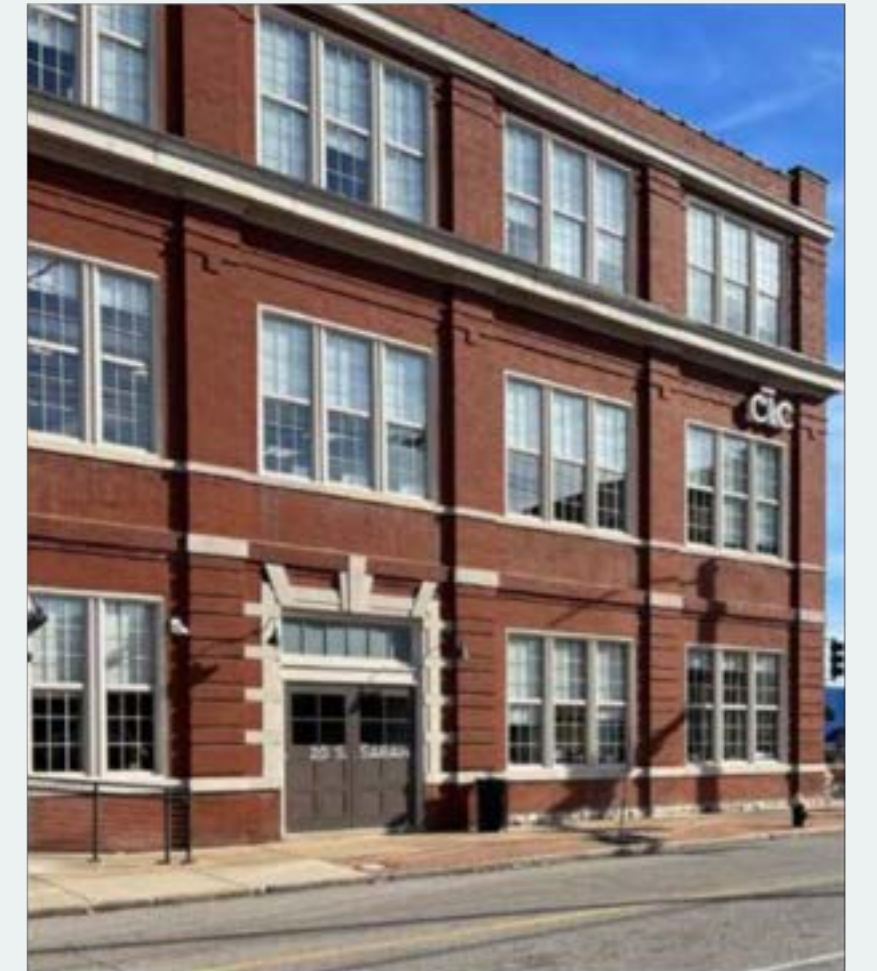
The St. Louis Hub

Moolec opened its first full operational U.S. Hub at CIC located in St. Louis, Missouri.



Why St. Louis as Operational Hub?

- **Strategic location:** At the heart of the U.S. agri region, it has direct access to key players in the agri-biotech sector.
- **Robust Agri-biotech ecosystem:** Home to world-class agri-tech companies, research institutions, and biotech incubators that align with Moolec's trait development and breeding programs.
- **Industry leverage:** Proximity to leading agricultural and biotechnology firms for stronger collaboration, knowledge sharing, and technology transfer opportunities.
- **Industry connections:** Direct access to key associations that strengthens Moolec's positioning in regulatory and industry advocacy efforts.



The Product Pipeline

Moolec builds its revenue streams with progressive stages based on added value, technology and market demands.



PRODUCT	DISCOVERY	TRANSFORMATION	DEVELOPMENT	SELECTION	SCALE-UP	DOWNSTREAM	COMMERCIALIZATION	ADDRESSABLE MARKET	REGULATORY APPROVALS
TSP Valorasoy™ (Textured Soy Proteins)							PRESENT	U\$ 1 B	
GLASO™ (Nutritional Oil/GLA)							PRESENT	U\$ 1,5 B	
Piggy Sooy™ (Soy + Meat Proteins)							FY27	U\$ 30 B	
PEEA1 (Pea + Meat Proteins)							FY28	U\$ 22 B	

Other
Science-based
Projects

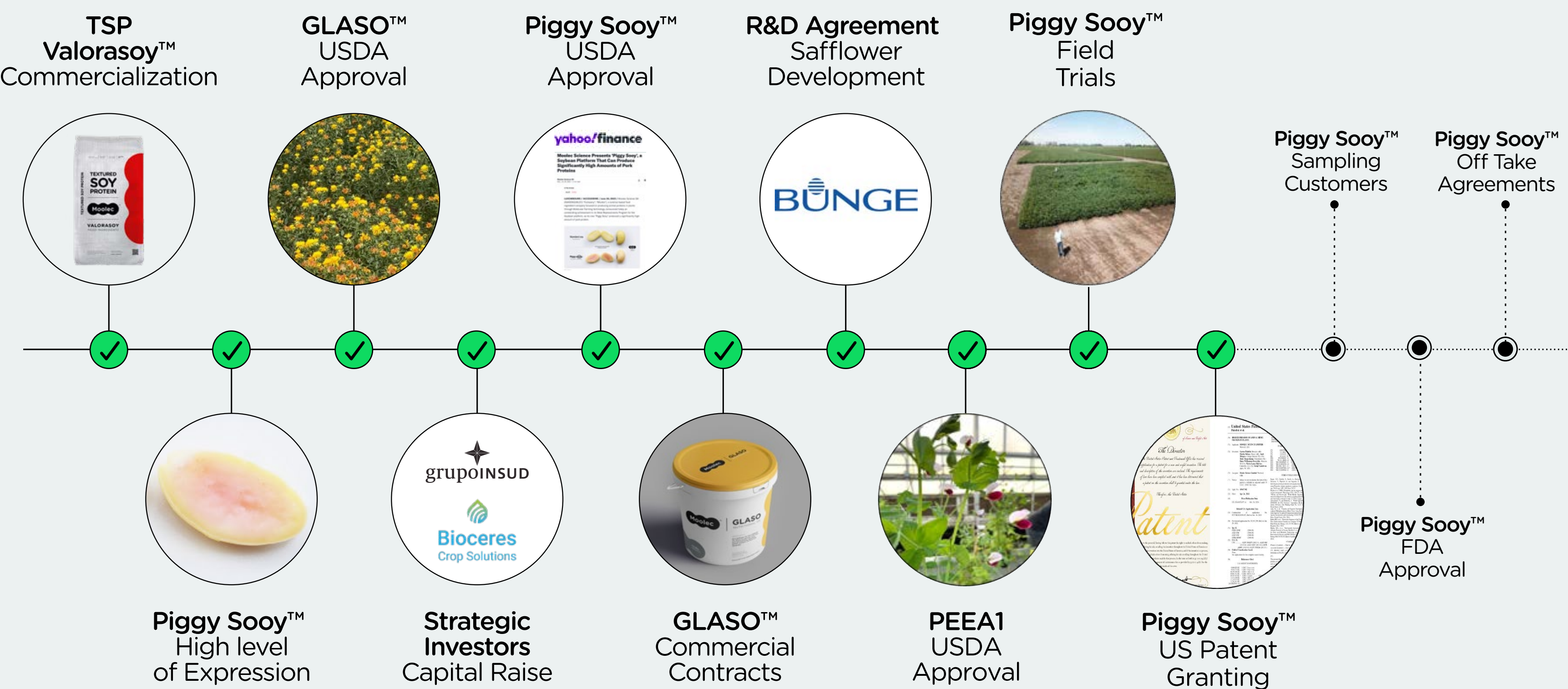


SPC2
(Chymosin
in Safflower)

YEAA1
(Iron
Supplement)

The Key Milestones

Moolec has been delivering unprecedented milestones focusing on results and commitment to value creation and purpose.



The Identity Preservation Program

IPP ensures the complete segregation and traceability of Moolec's GM crops, maintaining their integrity from seed to product.



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This Program is critical for:

Regulatory Compliance

Quality Assurance

Stakeholders' Expectations

1. Supervision and Traceability	End-to-End monitoring Digital documentation Chain of custody
2. Stewardship & Environmental Responsibility	Closed-loop procedures Chain of custody Sustainable practices
3. Contracts and Compliance	Service contracts with IP protocols Facility inspections
4. Quality Control and Testing	Seed quality analysis Continuous monitoring Detection methods
5. Stages	1. Seed Multiplication 2. Seed Processing 3. Grain Processing
6. Communication and Control	Clear communication Strict protocols Transparency



The Numbers

Moolec promotes controlled expenses and efficient cash utilization while delivering sustained company growth.

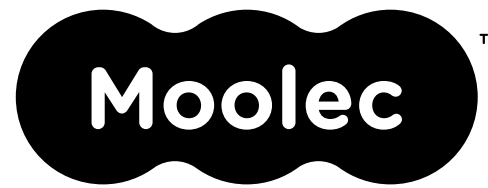


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In millions of U\$S	FY2023 (Full Year)	FY2024 (Full Year)
Revenue & Other Income	0.91	6.12
Cost of Sales	(1.05)	(5.15)
R&D Expenses	(1.35)	(1.77)
Marketing Expenses	(0.26)	(0.64)
Admin Expenses	(4.81)	(7.52)
Other	(0.09)	(0.07)
Loss from ops.	(6.65)	(9.03)
Common Shares ¹ (in # MM)	3.45	3.79
Cash flow operations	(7.51)	(9.33)

Revenue & COGS	• Revenues increase overtime delivering commercial footprint in 14 different countries • Current client base supports molecular farming products adoption
R&D, Admin & Other expenses	• R&D expenses increase slightly with constant delivery of scientific, regulatory and product dev milestones • Admin expenses increase gradually while supporting adequate structure for company building
Cash utilization	• Low operational cash burn remains in line with historical track record after listing • FY'23 and FY'24 burn includes non recurring payments associated to transaction expenses for the listing of the Company

¹ Weighted average number of shares (Accounts for Reverse Stock Split executed on May 14, 2025).



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Let's redefine the
way we produce
animal proteins
for the good
of the planet.



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