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IN FOOD
INGREDIENTS

Institutional Deck

September 2024

CONFIDENTIAL

NASDAQ:MLEC



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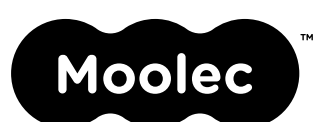
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The Summary

Moolec Science
in a nutshell: our
company described
in eleven simple
words.



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Moolec™ produces animal proteins in plants
to heal the meat production system.

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

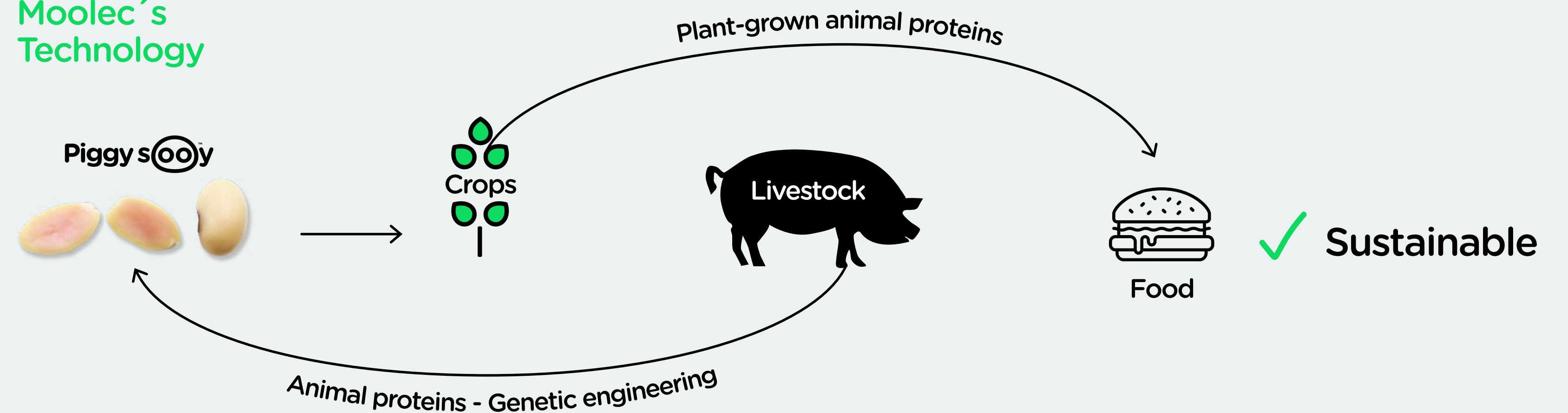
Moolec genetically engineers soybeans with pig proteins to tweak the meat value chain.



Traditional



Moolec's Technology



The Technology

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



Standard Soy

Soy proteins only



Piggy sooy™

Soy proteins + Pig proteins



✓ High Yields Achieved

~25% of targeted molecule over total soluble proteins.¹

✓ Less Water & Carbon Footprint²

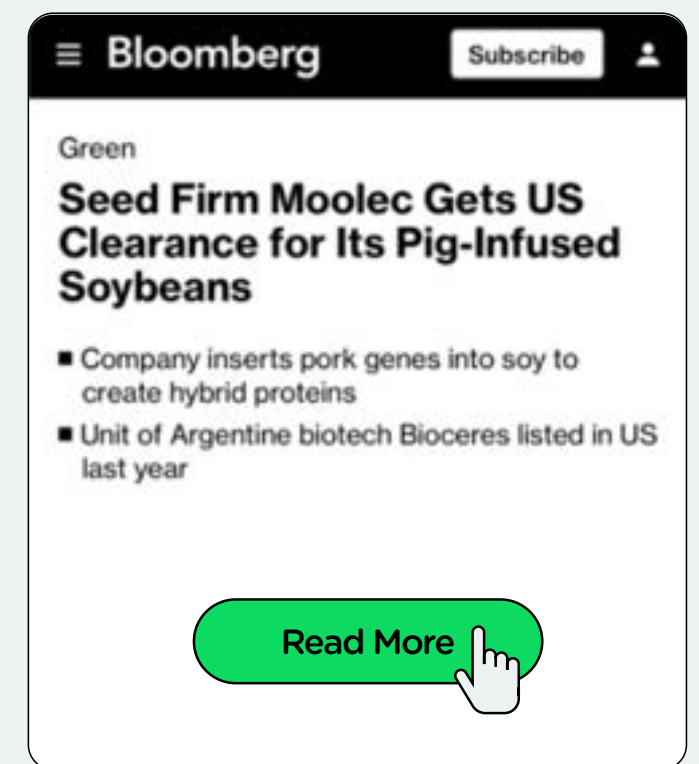
One acre of Piggy Sooy™ could potentially save ~60,000 litres of water and ~550kg CO₂e emissions.

✓ 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://ipcc.org/what-greenhouse-gases-are-emitted-by-pig-farms/#:~:text=The%20two%20areas%20where%20the,anc%20poultry%20in%20the%20US>

The Product

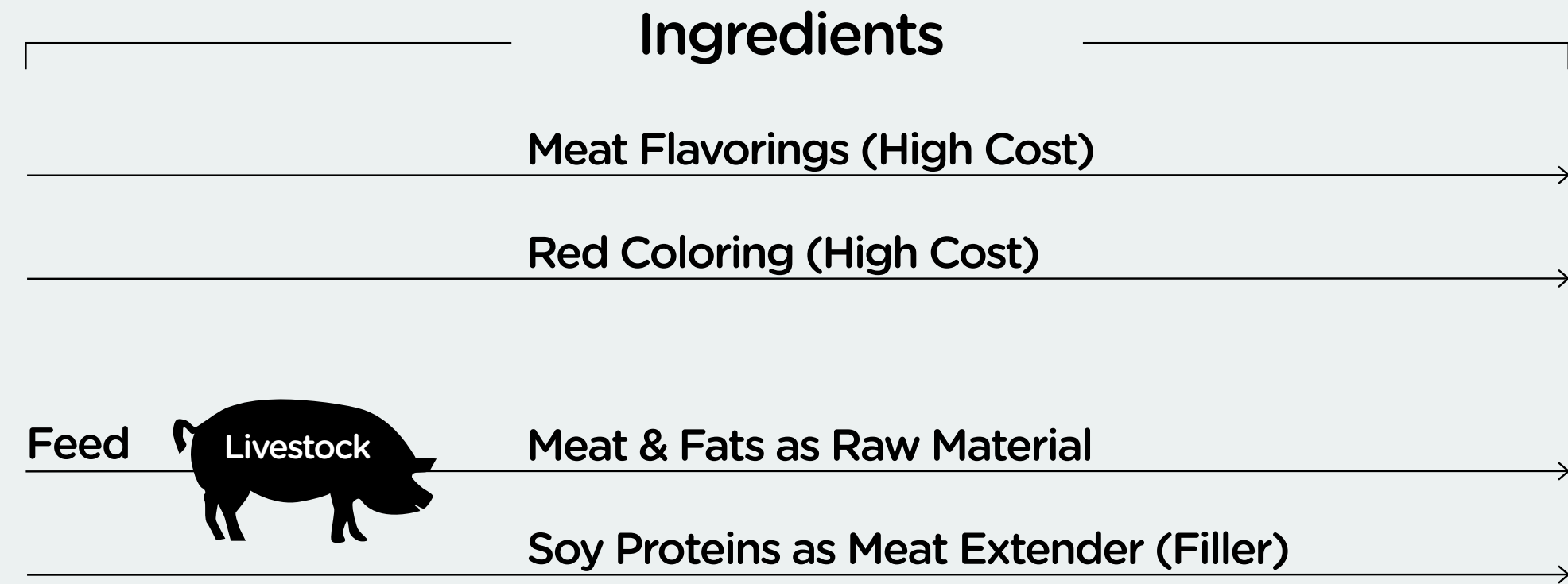
Moolec develops clean label ingredients to replace more meat and expensive additives.



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.



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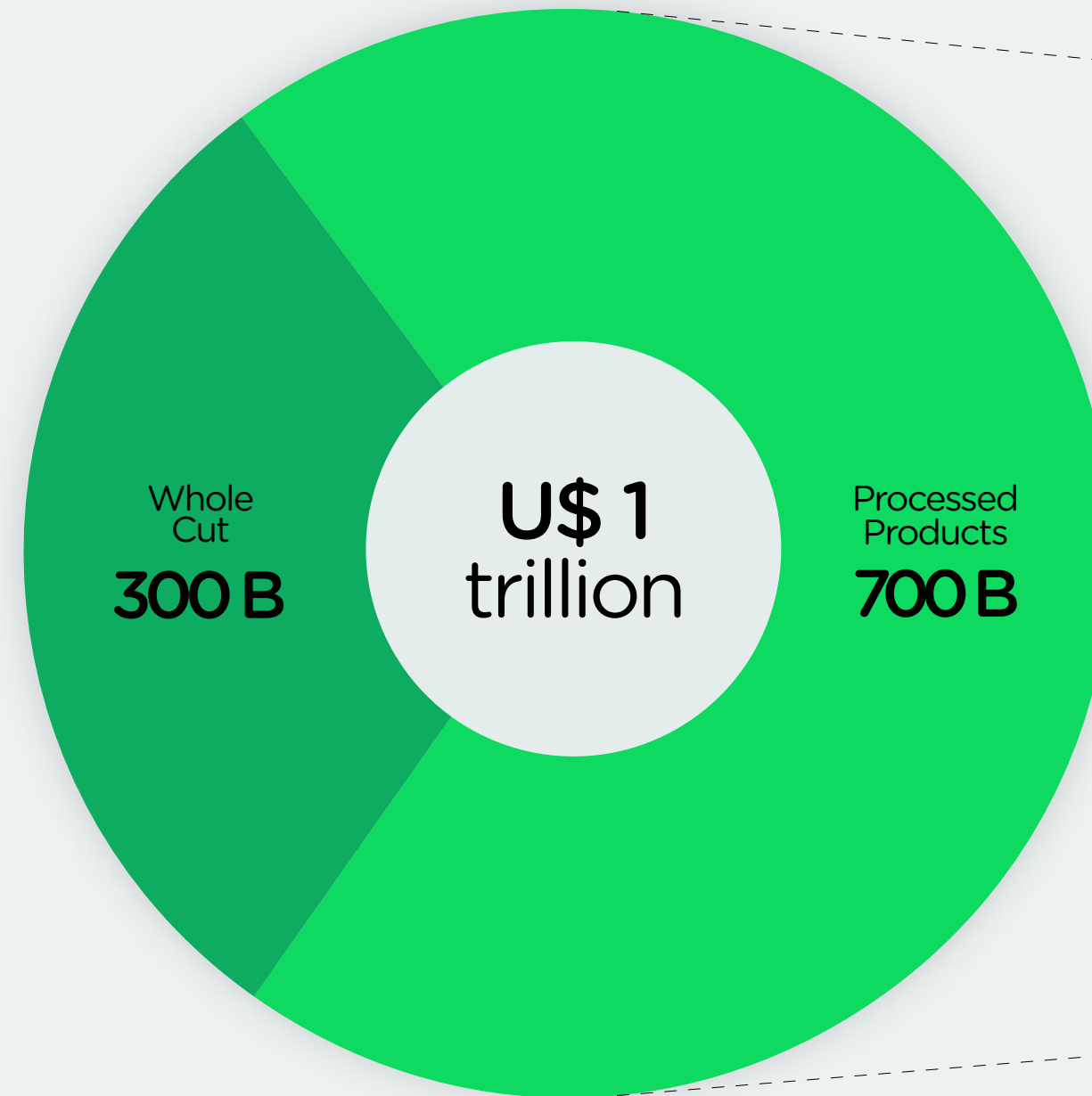
¹ Moolec's internal analysis based on publicly disclosed information for the industry and management estimates
² Moolec's technology is more friendly to the environment when compared to traditional protein production systems using -35x less land, generating -8x less water footprint and -60x less CO₂ 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

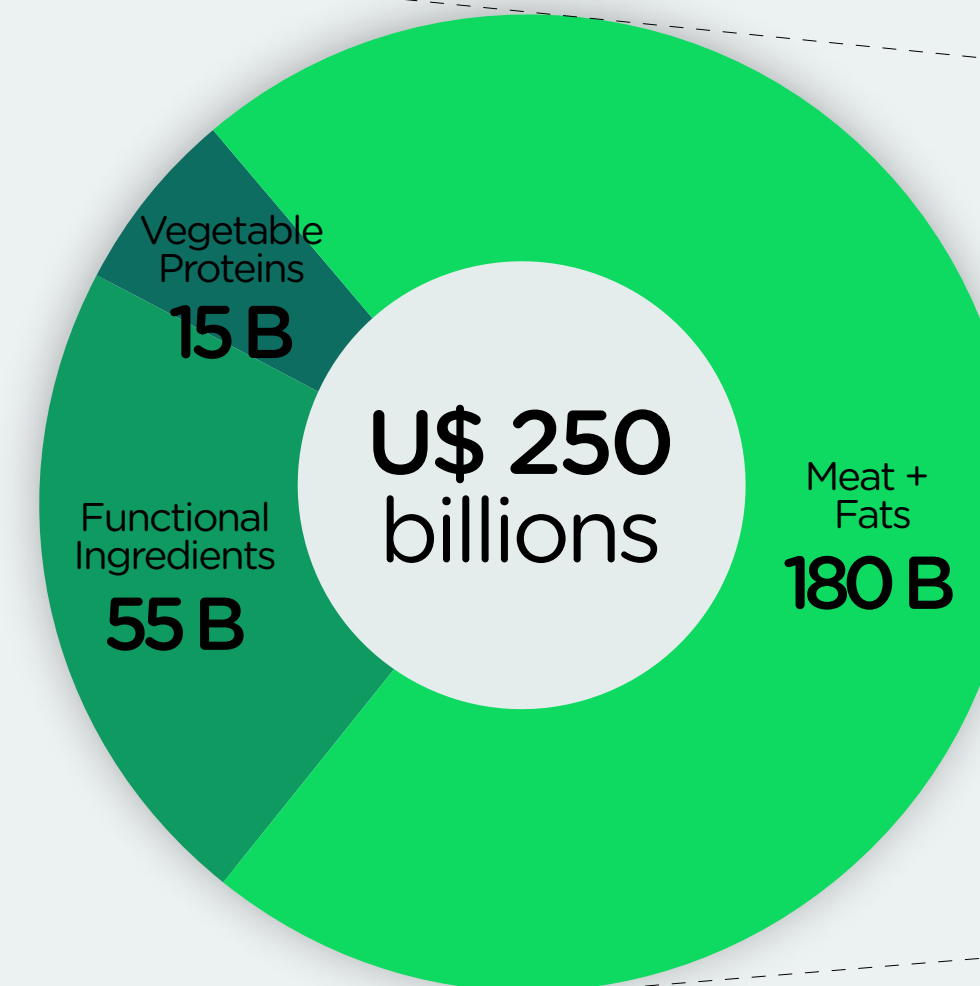


Global Meat Industry-Retail
(B2C)



TAM
(Total Addressable Market)

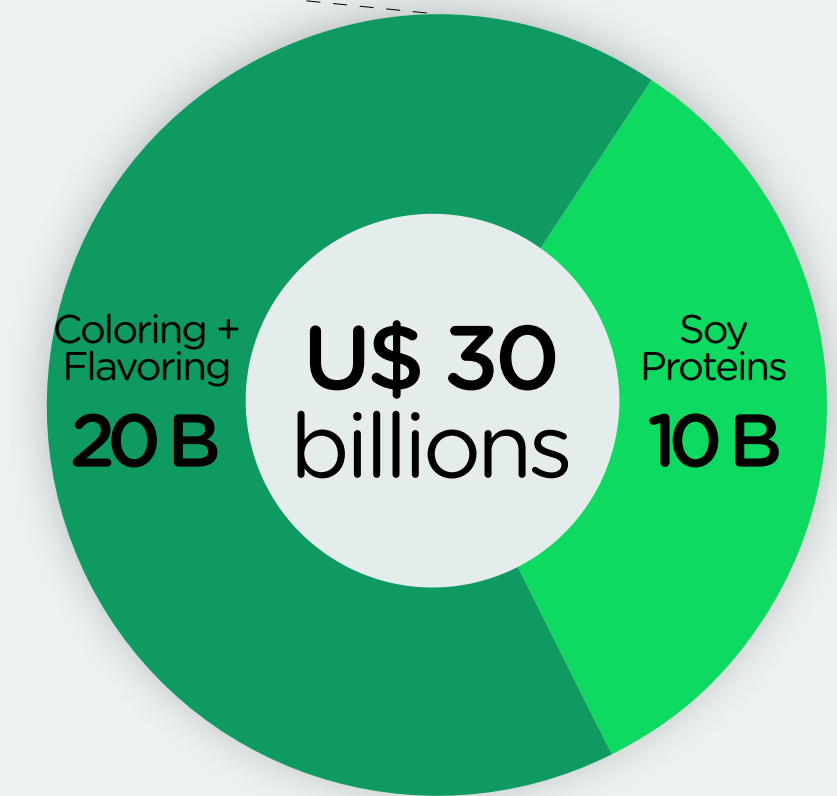
Global Processed Meat Products Ingredients
(B2B)



CAGR ~7%
(2023)

SAM
(Serviceable Addressable Market)

Target Countries and Applications
(B2B Ingredients)



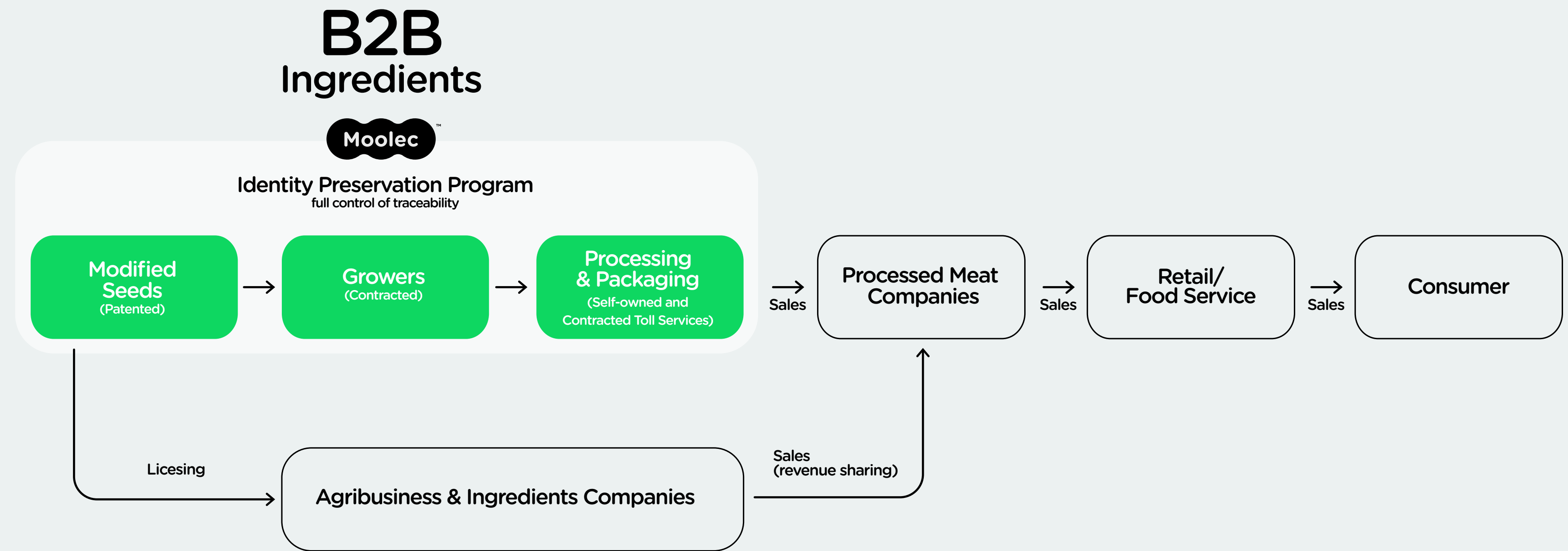
SOM
(Serviceable Obtainable Market)

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

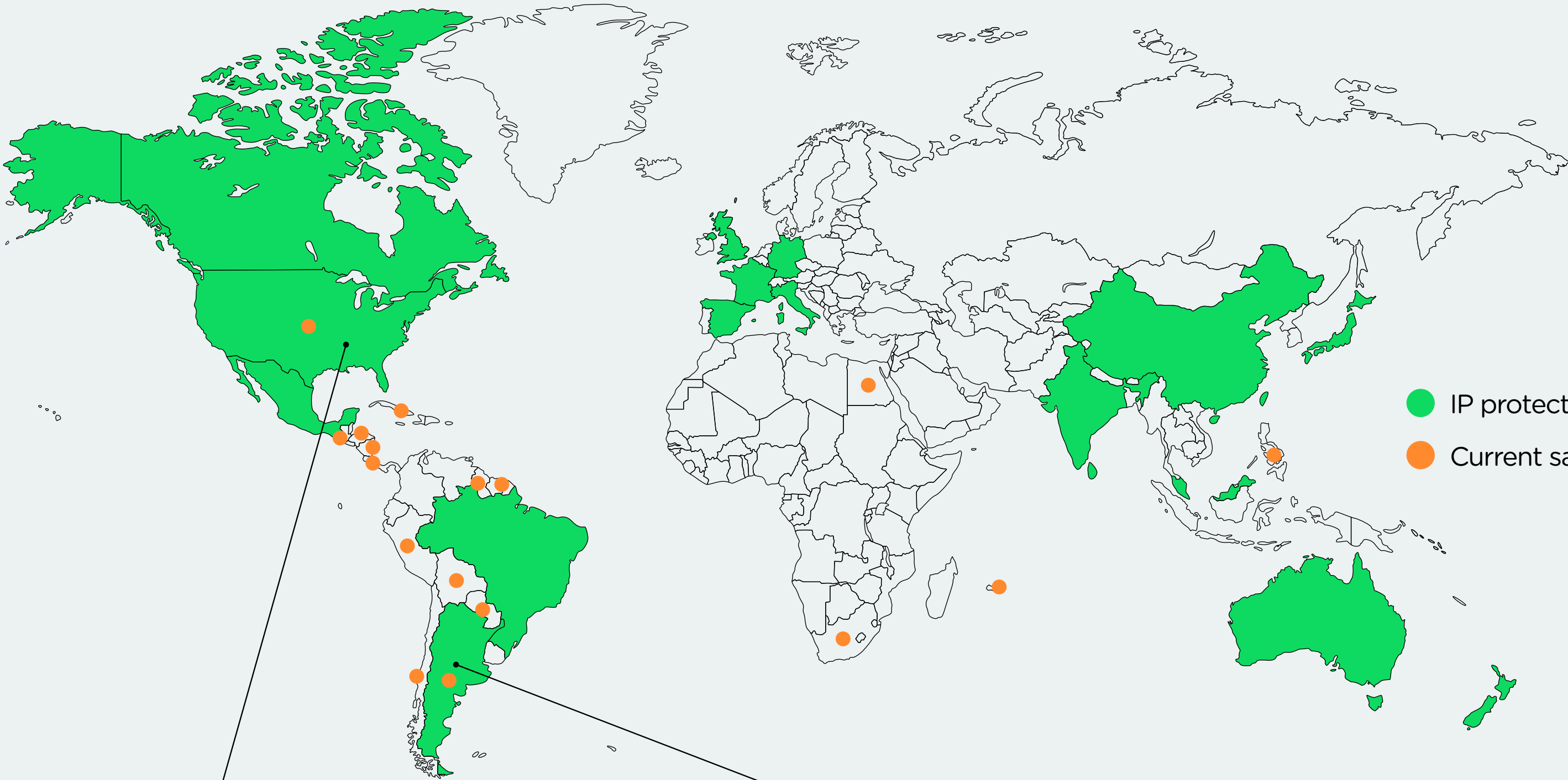
The Business Model

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.



● IP protected countries
● Current sales & customers

Crop Science, Production & Cultivation

Idaho, Iowa, Missouri, Ohio, Texas & Wisconsin (US)







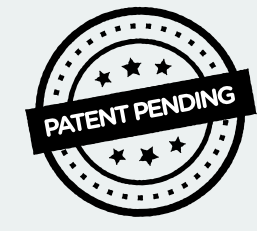

Back Office, Production & Cultivation

Buenos Aires, Córdoba & Rosario (ARG)



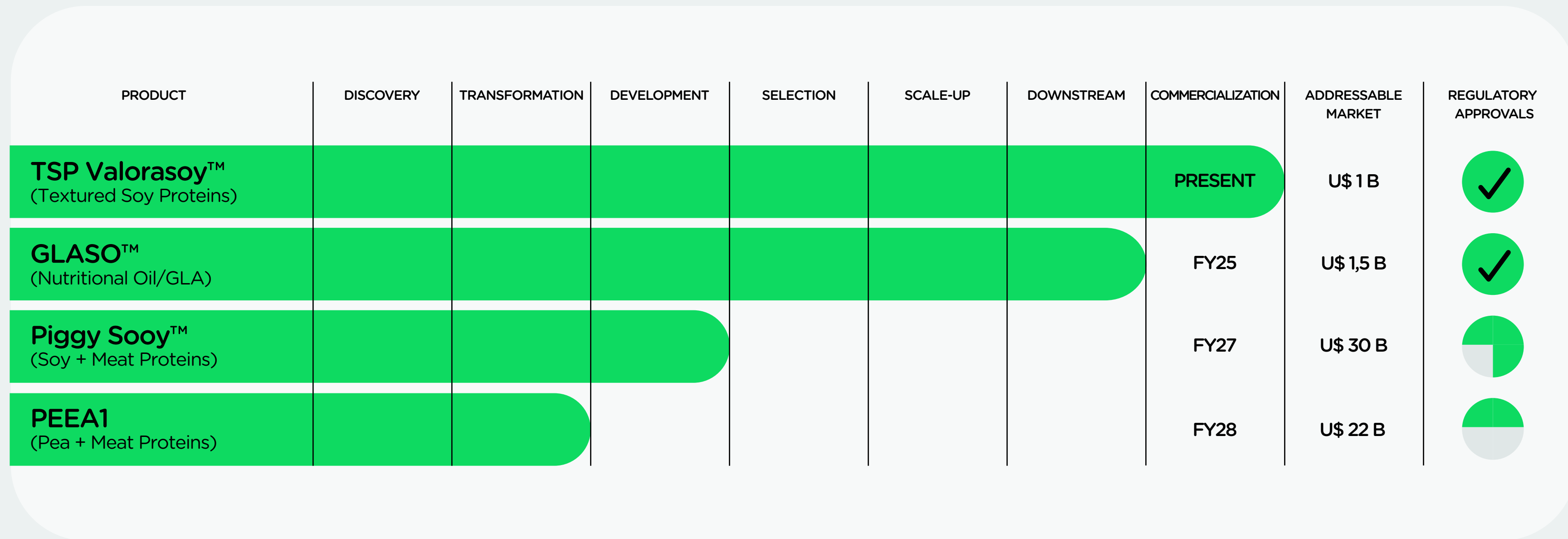


+25 Patents

The Product Pipeline

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



Other Science-based Projects →

SPC2
(Chymosin in Safflower)

YEAA1
(Iron Supplement)

The Team

Moolec is led by a fourth-generation member of one of Latam's largest pork and meat producers.



Gastón Paladini, MBA
CEO & Co-Founder



MATT REYNOLDS SCIENCE JAN 2, 2024 7:00 AM

For Gastón Paladini, pork is a family affair. In 1923, his great-grandfather Don Juan Paladini moved from Italy to Santa Fe, Argentina, where he started putting a South American twist on classic Italian sausage recipes. Eventually, Don Juan's company became one of Argentina's largest meat producers. It still bears the family name: Paladini.

[Read More](#)

Henk Hoogenkamp, Ph.D
CPO & Co-Founder

20+ years in food and bio-materials applications with special focus on animal and plant-based proteins

Martín Salinas, Ph.D
CTO & Co-Founder

20+ years in Ag-biotech space leading the world's first industrial production of animal protein in plants for the food industry

José López Lecube, MBA
Chief Financial Officer

20+ years in strategic roles for multinational companies in agribusiness and tech with expertise in finance, strategy, and partnerships

Amit Dhingra, Ph.D
Chief Science Officer

30+ years in genomics and plant biotechnology. Prof. and Head, Department of Horticultural Sciences, Texas A&M University

Catalina Jones, B.A.
Chief of Staff & Sustainability

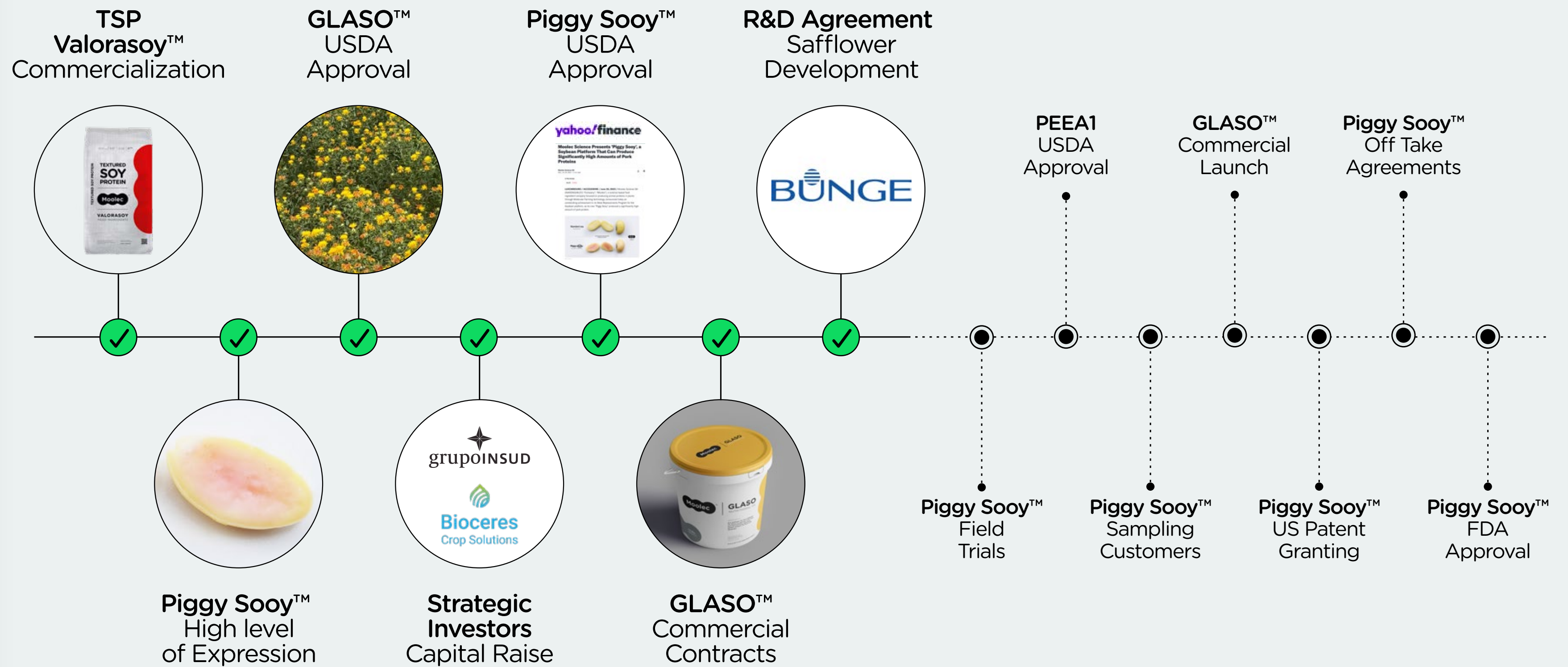
20+ years in communications and sustainability strategy for financial, agribusiness, packaging and food industry

David Heron, Ph.D
Global Regulatory Affairs Advisor

40+ years in the biotechnology regulatory program of USDA-APHIS focused on policy development and agricultural capacity building

The Key Milestones

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



The Numbers

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



In millions of U\$\$	FY2022 (Full Year)	FY2023 (Full Year)	FY2024 ¹ (1 st Semester)
Revenue & Other Income	0.00	0.91	3.41
Cost of Sales	0.00	(1.05)	(2.14)
R&D Expenses	(0.99)	(1.35)	(0.90)
Marketing Expenses	(0.11)	(0.26)	(0.34)
Admin Expenses	(2.52)	(4.81)	(3.63)
Other	(0.04)	(0.09)	(0.04)
Loss from ops.	(3.65)	(6.65)	(3.64)
Common Shares² (in # MM)	31.00	34.46	37.81
Cash flow operations	(1.89)	(7.51)	(5.65)

Revenue & COGS

- Revenues increase overtime delivering commercial footprint in 14 different countries
- Current client base supports molecular farming products adoption

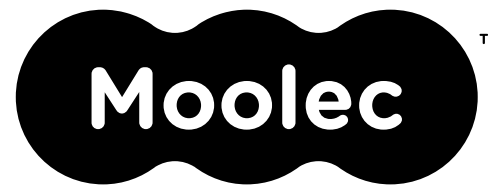
R&D, Admin & Other expenses

- 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 FY 2024 excludes IAS29 effect in Argentina subsidiary
² Weighted average number of shares



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

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