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# Animal-protein production crisis on top of global food security concerns<sup>1</sup>



#### Environmental Pressure

From consumers and governments due to climate change: CO<sub>2</sub> and water footprint.



## Pest and Diseases

In confine animals like the "African Swine Pig Flu" and the current "Avian Influenza"



## Feed-to-Meat Innefficiency

Due to the significant amount of grains, water and land needed to produce 1 kg of meat.



## Animal Cruelty

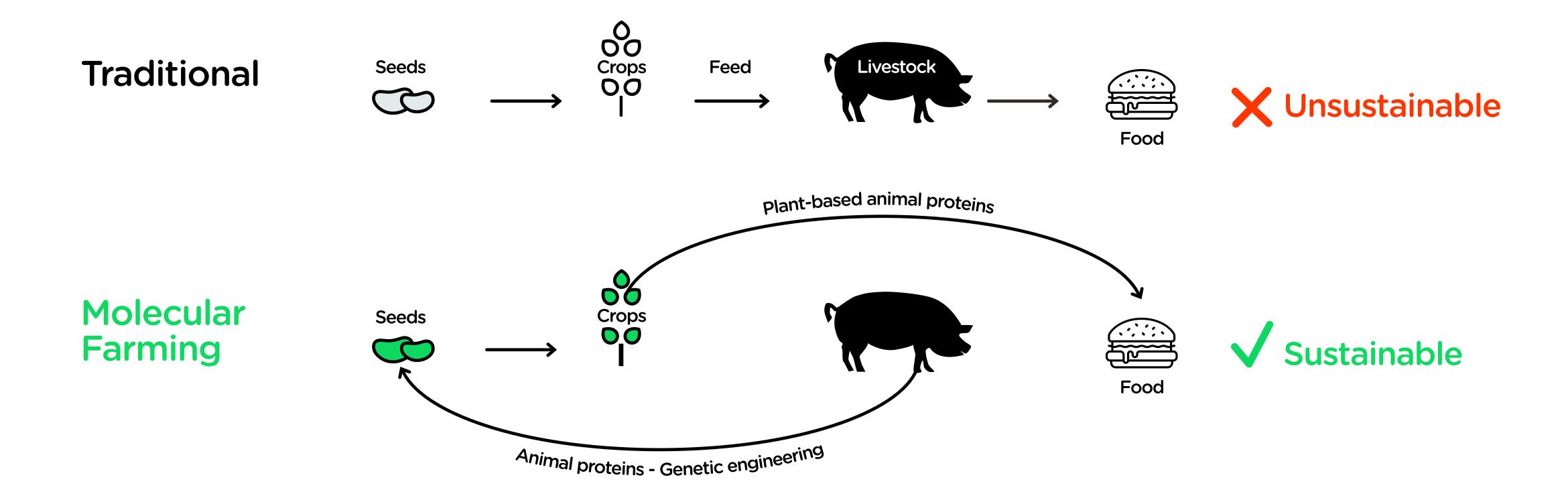
Claimed to be one of the most important problem for young consumers.

The emerge of new technologies for food is the result of a world demanding more sustainable answers.



### **Animal Proteins in Plants**

Moolec introduces animal meat protein genes in the plants genome to give real taste and nutrition to food.





## Moolec vs. Animal-based Production System

Molecular Farming is more friendly to the environment when compared to traditional protein productive systems.

35X less<sup>1</sup>



Land Usage

8X less<sup>2</sup>



Water Footprint

60X less<sup>3</sup>

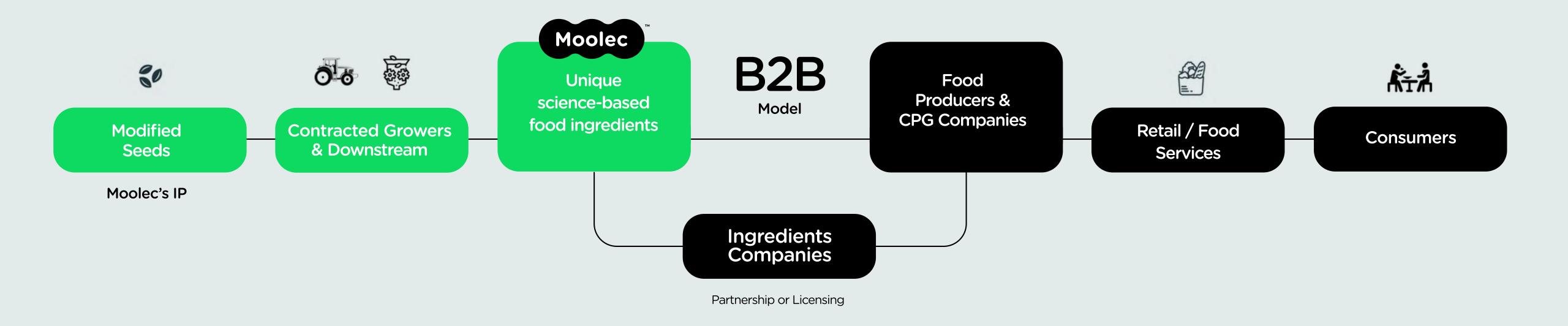


CO<sub>2</sub> Emissions



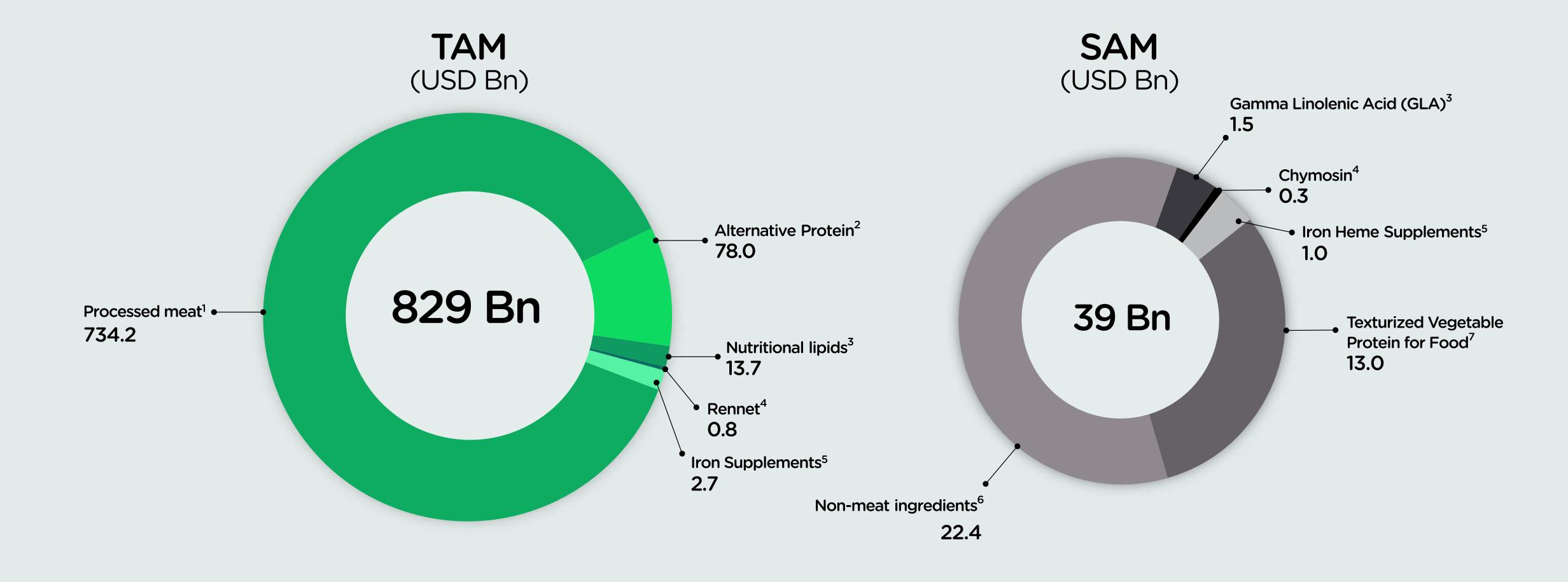
#### **Business Model**

Moolec's innovation starts at the beginning of the food value chain, provinding our customers traceability from seed-to-fork.





## Market size opportunity (2025E)





SCIENCE

IN FOOD

INGREDIENTS

<sup>1</sup> https://www.imarcgroup.com/processed-meat-market

Moolec's internal analysis based on publicly disclosed information for the industry primarly 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

<sup>&</sup>lt;sup>6</sup> Moolec's internal analysis based on Non-meat ingredients market - Global forecast to 2027 - Markets & Markets <sup>7</sup> Moolec's internal analysis based on Plant-based portein market - Global forecast to 2025 - Markets & Markets

## World Class C-Suite & Management Team

Top Ph.Ds, Agri-food insiders, and recognized professionales that come from all over the world conform Moolec's team.



Gastón Paladini, MBA
Chief Executive Officer
15+ years in the traditional food industry, being Director of Paladini Group, of one of the largest players for meat production in Latam



Henk Hoogenkamp, Ph.D
Chief Product Officer
10+ years in food and
bio-materials applications with
special focus on animal and
plant-based proteins



Amit Dhingra, Ph.D
Chief Science Officer

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



José López Lecube, MBA
Chief Financial Officer
15+ years in strategic roles for
multinational companies in
agribusiness and tech with expertise

in finance, strategy, and partnerships



Chief of Technology

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

Martín Salinas, Ph.D



Catalina Jones, B.A.
Chief of Staff & Sustainability
10+ years in communications and sustainability strategy for financial, agribusiness, packaging and food industry



Agustin Barbieris, MBA
Head of Operations

15+ years in agribusiness for
Operations Planning and new
businesses development
throughout Latin America



Valeria Falottico, MBA
Head of Accounting & Compliance
15+ years in capital markets,
loading IROs and 144As





Corporate Counsel

10+ years in corporate counseling, risk legal management, and compliance assessment for biotech public companies

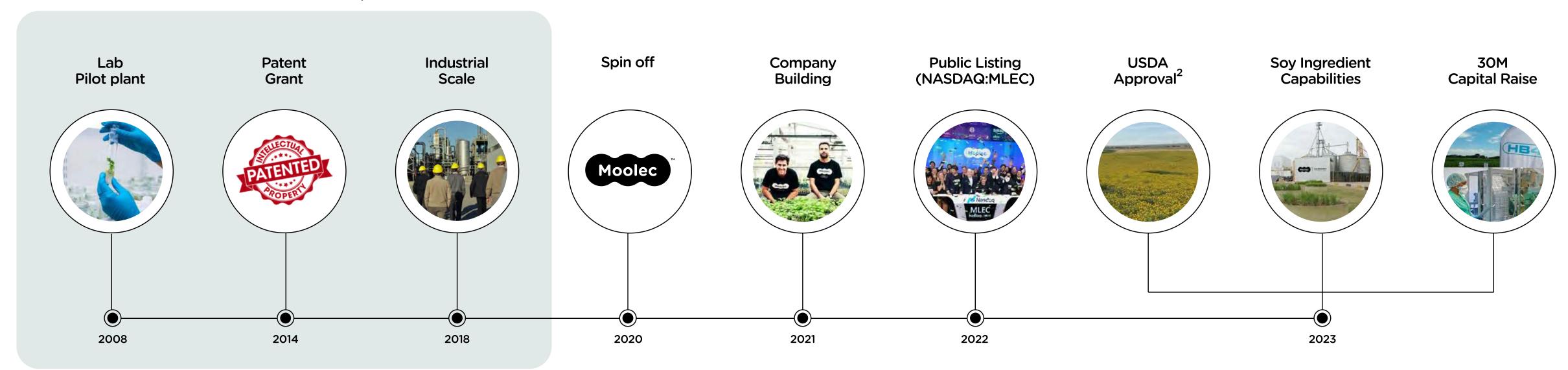
Florencia Bottero



## Moolec's Pathway

Our Molecular Farming platform has been incubated in our parent company Bioceres and spun-out into Moolec.

#### **Proof of Concept**







INGREDIENTS



## Moolec's Products and Science-based Pipeline in Food Ingredients and Supplements

#### In the Market



#### **Meat Replacements**

Soy

Soy-based ingredients for hamburgers, sausages, meat balls, ground-meat, and other plant-based products

# In Scale Up Molecular Farming

Safflower

#### **Nutritional Oil**

Gamma Linolenic Acid (GLA) engineered in safflower seeds to enrich dietary supplements nutritional beverages and pet food.

#### **Cheeese Ingredient**

Chymosin engineered in safflower seeds, a key ingredient for the clotting step in cheese production

Yeast-based ingredient, to use as food savory flavoring and/or nutritional animal-derived functions



#### In Product Development

Molecular Farming





#### Supplement '

YEEA 0

supplement in replacement of specific



#### **Meat Replacement 2.0**

Plant and animal science-based highly functional meat replacement ingredient, containing soybean and porcine proteins.

Plant and animal science-based highly functional meat replacement ingredient, containing pea and bovine proteins.

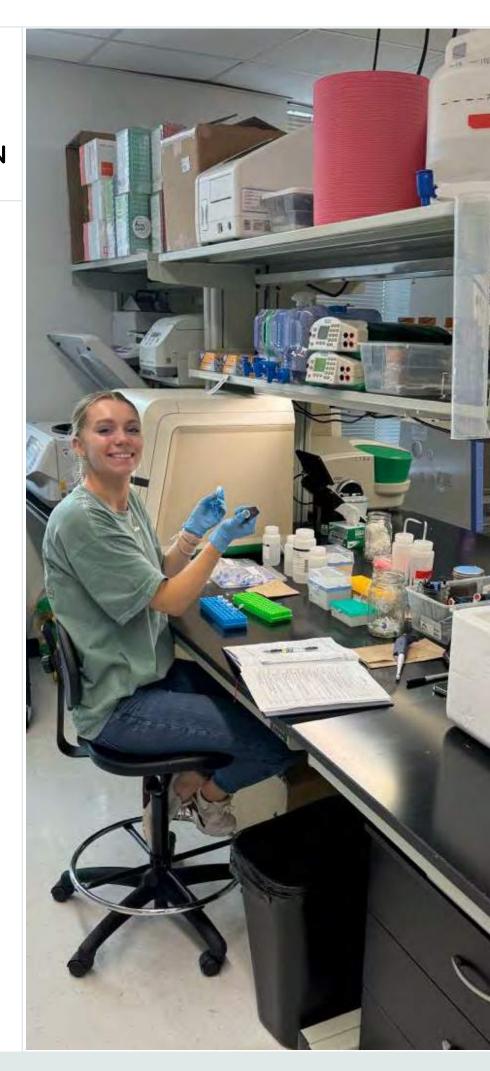




SCIENCE IN FOOD **INGREDIENTS** 

## Pipeline Evolution

PROGRAM	PLATFORM	PROJECT	R&D				OPER	PERATIONS	REGULATION
			DISCOVERY	TRANSFORMATION	DEVELOPMENT	SELECTION	SCALE-UP	DOWNSTREAM	STATUS
		GLASO							
Nutritional Supplements & Food Ingredients	Safflower	SPC2							
	Yeast	YEEA1							
		SOOY1							
Meat Replacements	Soybean  Piggy soo'y	SOOY2							
		SOOY3							
	Pea	PEEA1							





#### GLASO scaling up and starting commercialization

Gamma Linolenic Acid, commonly known as GLA, is a nutritional Omega-6 fatty acid. Properties are similar and complementary to those of DHA and EPA (Omega-3).

#### GLASO bioengineered product multiples almost 3x yield results

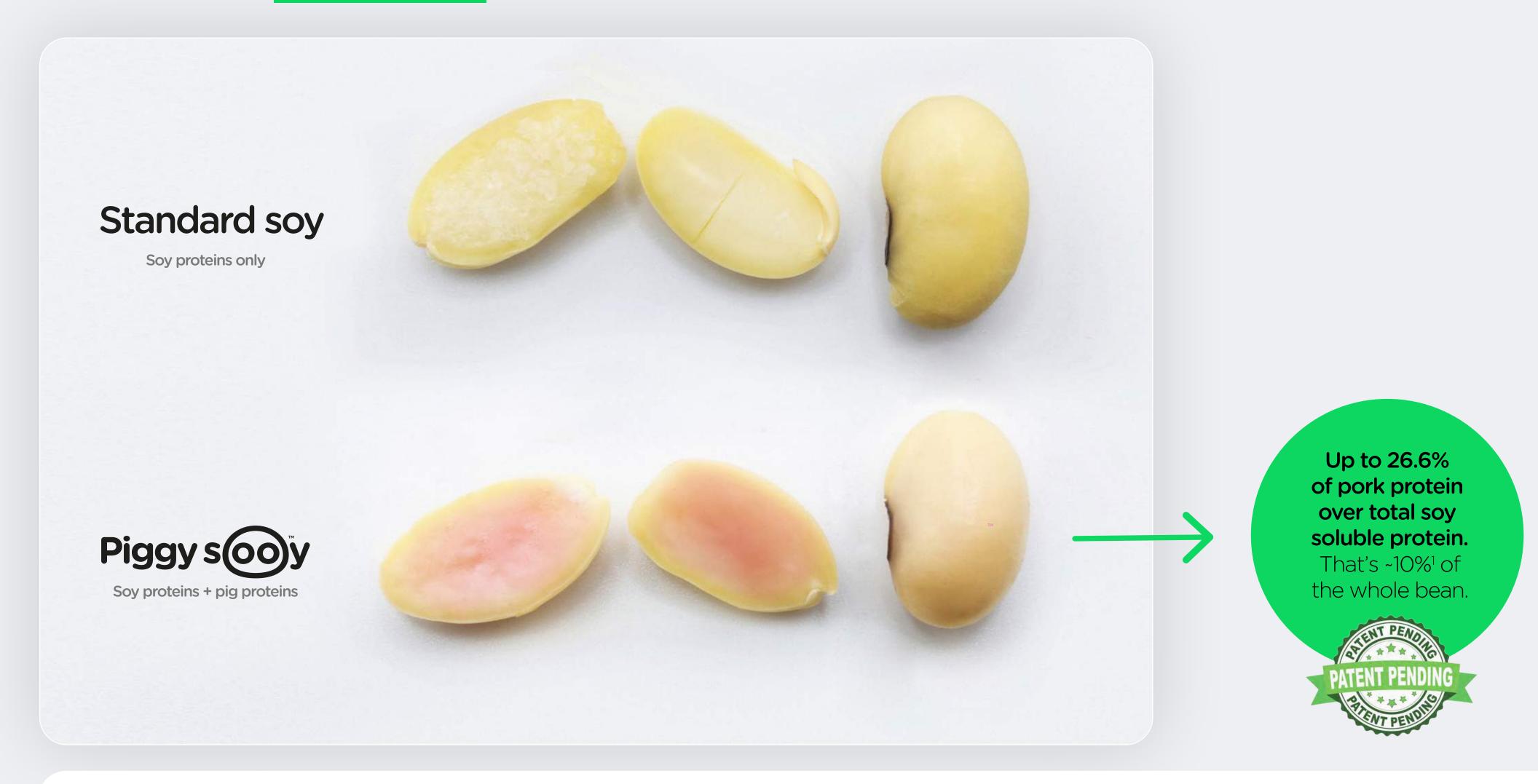


GLA is widely recognized for its health-promoting attributes and is primarily embraced as a valuable addition to various diets in the form of a dietary supplement.

Other important applications are: functional food, animal nutrition (pet food), and cosmetics.

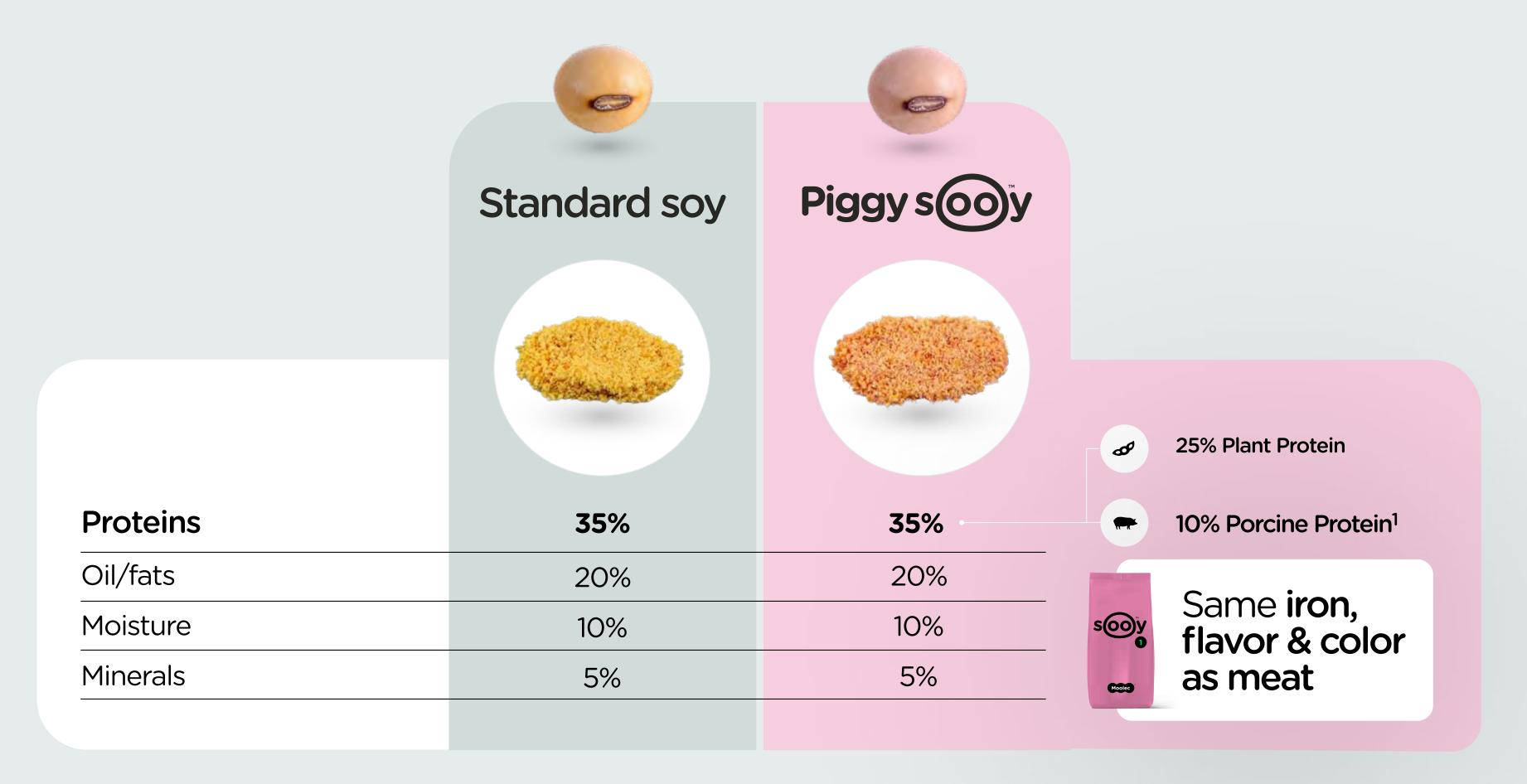


## SOOY1: High Level of Expression





# Enhanced Meat Replacement as a High Functional Food Ingredient





## Processed Meat Industry Products Contain Soy-Based Ingredients As a Filler<sup>1</sup>

As common practice, most burgers, sausages, nuggets, meat balls, ground meat and cold cut products have between 5% to 50% of soy-based ingredients to save costs.



SCIENCE

IN FOOD

**INGREDIENTS** 











Industry's Challenges

Moolec's Solutions

Not clean label. 20+ different ingredients

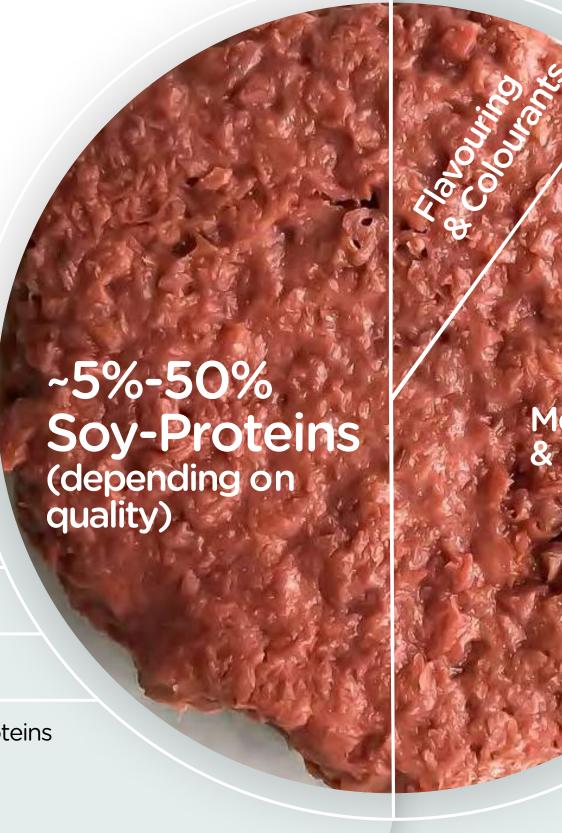
Clean label approach. One-stop-shop solution

Not fully natural. Chemical additives

Same native & natural protein replacing chemicals

Not assured supply (pests in livestock)

De-risk procurement providing same functional proteins





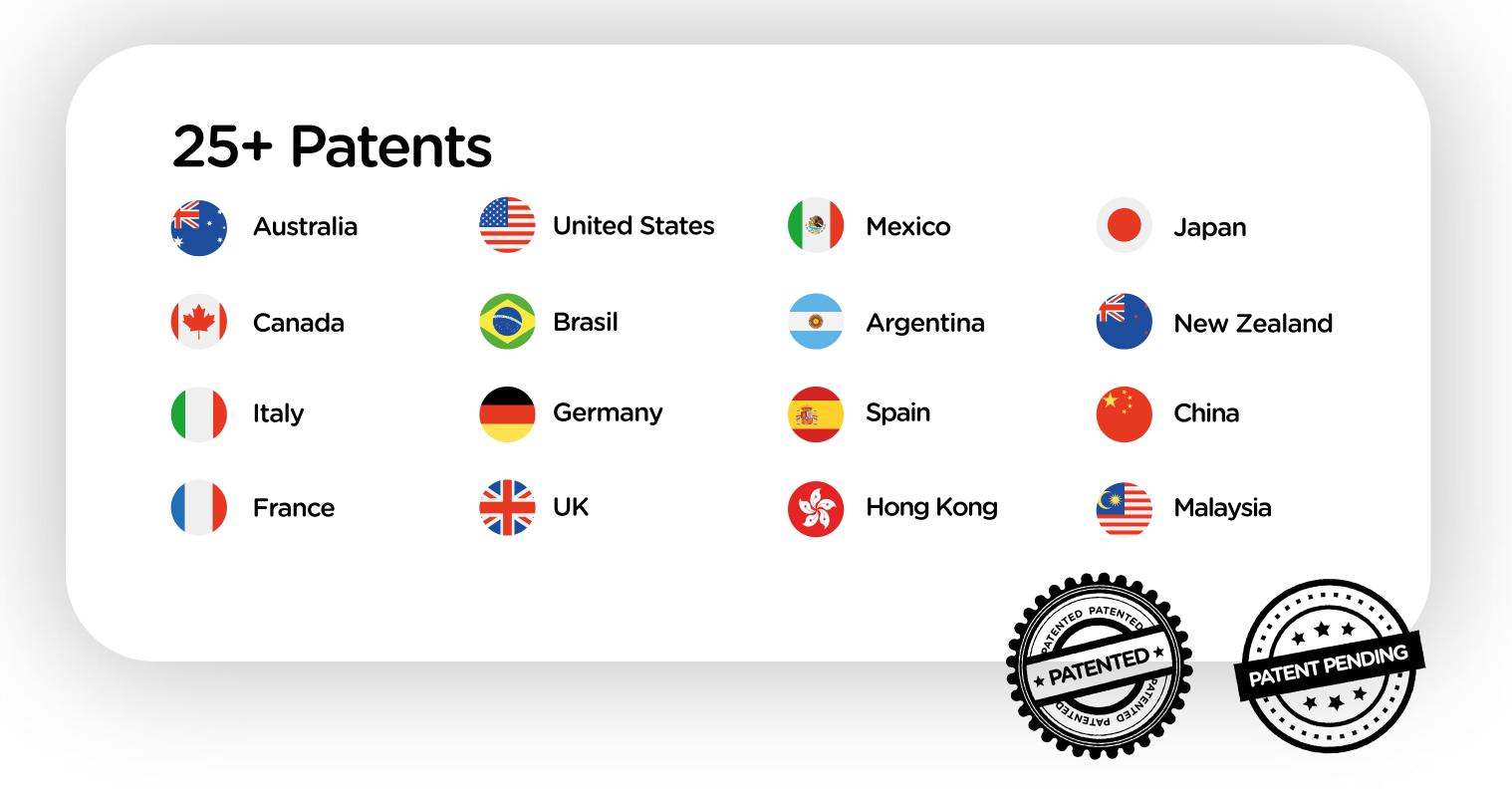
### **SOOY1** Process & Status





#### IP Power House

Moolec stands on a strong and growing IP strategy with great understanding of the biotech landscape offering a competitive advantage on its execution.

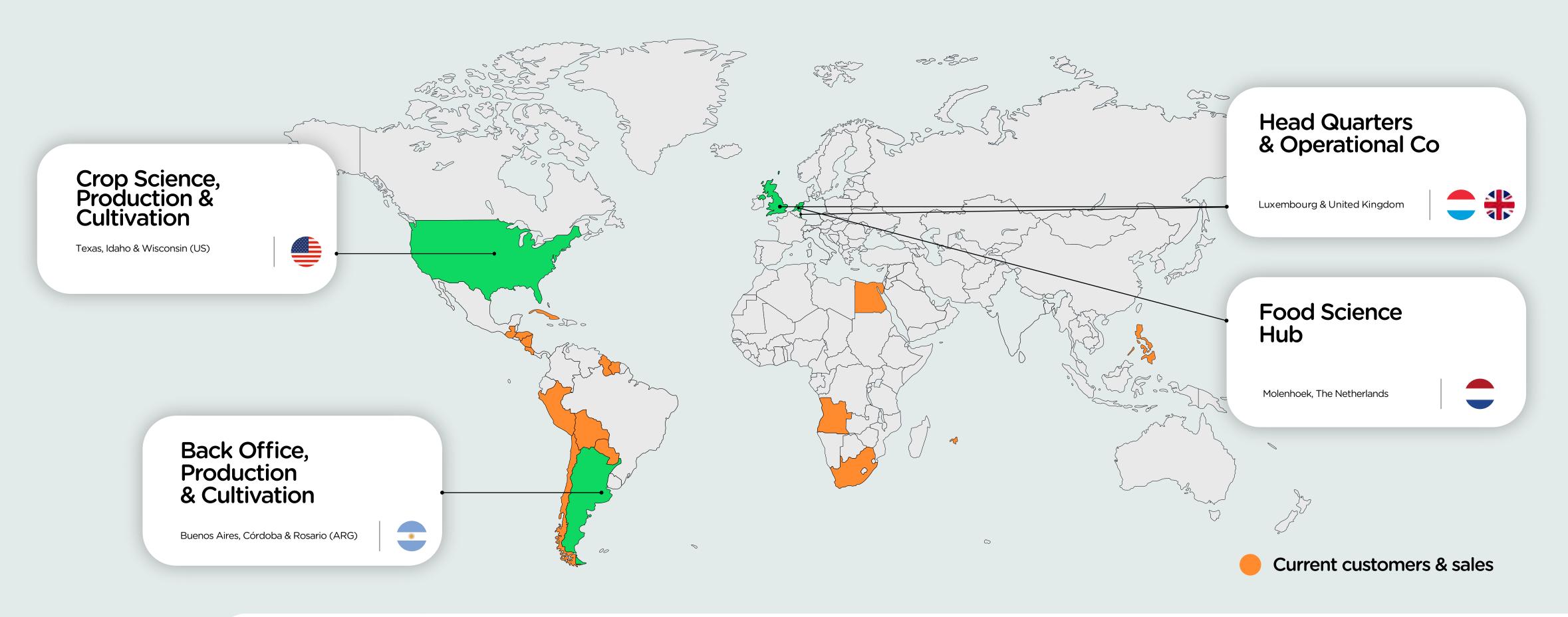






## Moolec's Operations

We create our products and IP with no territorial limits. Each operational hub co-works globally with a talent-oriented footprint.





## Moolec's Capabilities Build-Up

Moolabs 1

Moolabs 2

Microbiology Facilities Product Traceability & Growers Network

Industrial & Commercial R&D Center





Plant molecular biology laboratory in Texas A&M University (Texas, USA) Food application laboratory (Molenhoek, The Netherlands)

Access to Grupo Insud's R&D, operational services, and scale-up resources

Access to identity-preserved, drought-tolerance HB4® soybeans produced by 100+ growers

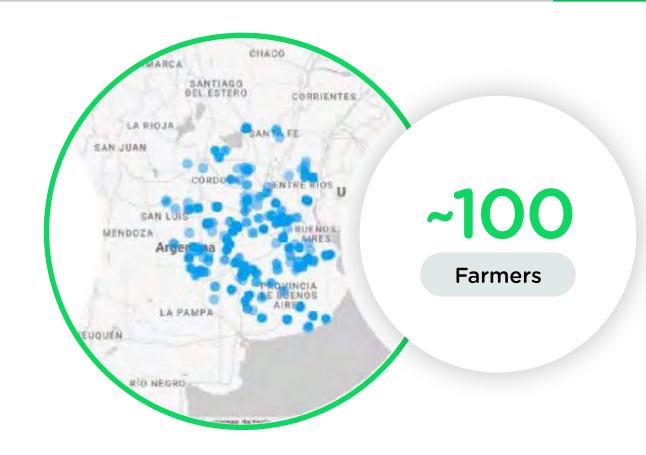
Food grade ingredient plant with 10,000tns/year of soybean crushing capacity. Industrial services, R&D and scale-up facility



## Identity Preserved Platform Access

Due to our strategic partner and shareholder Bioceres, Moolec has access to HB4® soybean technology and farmers<sup>1</sup>.

#### **Traceable and Sustainable Platforms**













SCIENCE

IN FOOD

**INGREDIENTS** 

The combination of Molecular Farming technology with HB4® platform will enable us to promote and include the best available farming practices for growers throughout our value chain. Our aim is to contribute to the transition towards carbon neutrality, agricultural regeneration, work inclusion, transparent value chain, and clear and cleaner end-product label information.



#### Moolec's Strategic Pillars to Unlock Value Creation



Disruptive integral solutions using innovative technology for the food and dietary supplement industry



## Intellectual Property

IP powerhouse with more than 25 patents (granted and pending) for our products and technology



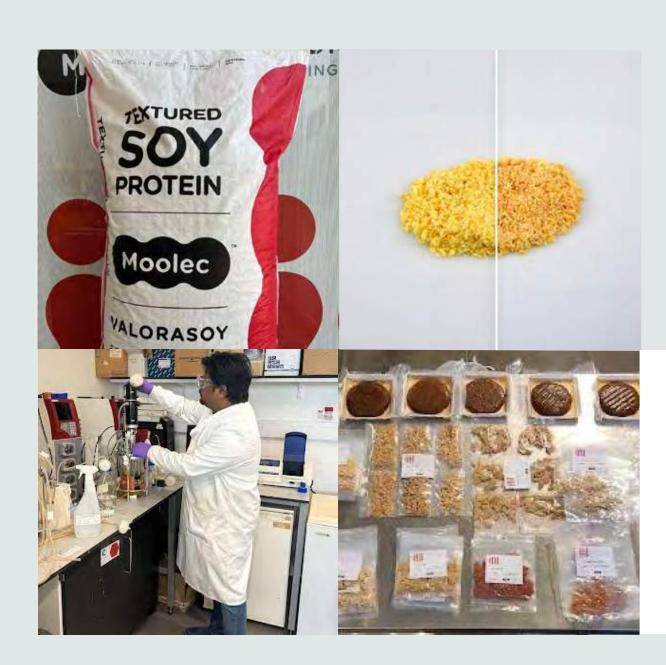
#### Regulatory Approvals

Strong understanding and expertise in regulatory clearance in the US and Argentina



#### Strategic Alliances

Partnerships with key players to strentheng science, operations and business











USDA
U.S. Department
of Agriculture



FDA
U.S. Food & Drug
Administration



SCIENCE IN FOOD INGREDIENTS

## Competitive Landscape

## Established Players

Companies with traditional animal-based versions of our target proteins or companies making traditional alternatives to target the meat replacement market.

## New Technologies for Food

Companies using different kind of technologies to develop science-based food ingredient that target the same or other molecules with similar applications.

## Other Molecular Farming Companies

Companies working on the same, similar and other proteins such as dairy, in similar or different production systems.

























<sup>&</sup>lt;sup>1</sup> https://www.givaudan.com/

<sup>&</sup>lt;sup>2</sup> https://www.iff.com/

<sup>&</sup>lt;sup>3</sup> https://www.dsm.com/corporate/home.html#

<sup>4</sup> https://www.adm.com

<sup>&</sup>lt;sup>5</sup> https://upsidefoods.com

<sup>&</sup>lt;sup>6</sup> https://impossiblefoods.com/

<sup>&</sup>lt;sup>7</sup> https://www.paleo-taste.com/

<sup>8</sup> https://www.ginkgobioworks.com/

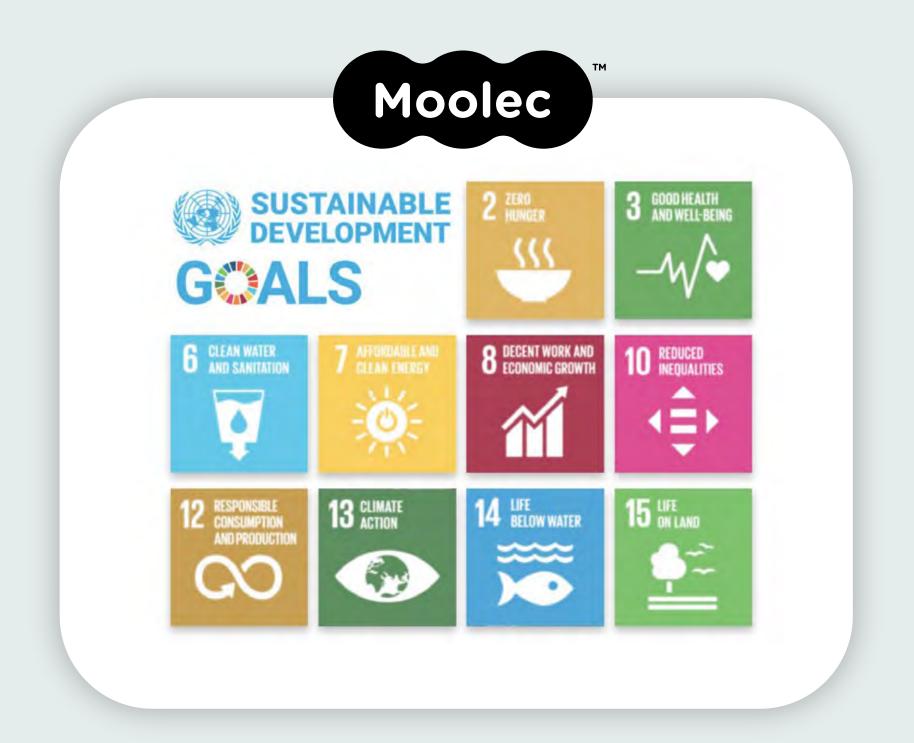
<sup>&</sup>lt;sup>9</sup> https://kyomei.co.uk/

<sup>10</sup> https://ingredientwerks.com/11 https://www.mozzafoods.com/

<sup>12</sup> https://www.nobellfoods.com/

## Moolec addresses directly 10 of the 17 SDGs

We use SDGs and 2030 Agenda as guidelines to strategically align our business in the search of the building of a more equitable, resilent and sustainable food system<sup>1,2</sup>.





From ending poverty,
hunger to responding to
climate change, food
and agriculture lie at the
very heart of the 2030
Agenda for Sustainable
Development.





### Backers & Partners

Moolec's shareholders and strategic partners bring key experience, advisory, scientific know-how, and access to facilities to strengthen the business.

#### **Science + Operations**



Provider of ag-tech solutions enabling the transition towards carbon neutrality

- Facilities, Fields & Farmers
- IP + Legal Team
- Tech Services

#### Finance

## UNION GROUP

 Union Group is a privately owned invest-ment and private equity management firm established in 2007. These cover the agricultural, energy, forestry, infrastructure, minerals, oil & gas and real estate sectors.

#### Molecular Biology + Scale Up



- Global presence
- Commitment in developing longterm, innovative, and sustainable projects.
- Business:
  - o Life Sciences
  - o Information & Culture
  - o Agribusiness
  - o Nature & Design



## Latest Capital Raise With Strategic Investors for ~\$30M



#### **Increased Liquidity**

Cash proceeds of \$10M combined with efficient cash burn ensures continuing delivery of R&D milestones.

In kind contributions will cover a significant portion of Moolec's working capital needs in the short and medium term.



#### **Enhanced Capabilities**

Access to state-of-the-art industrial facilities and operational services accelerates our product development.

HB4® soy tech incorporates sustainability and traceability to our products through an identity preserved platform.



#### Favorable Deal Terms

Flexibility to pay in shares or cash at conversion or maturity provides healthy financial optionality.

Payment deferment of 3 years and a strike at \$6/share, aligns financial commitments with the evolution of the R&D and product pipeline.



#### Track Record of Cost Efficiency and Low Cash Burn

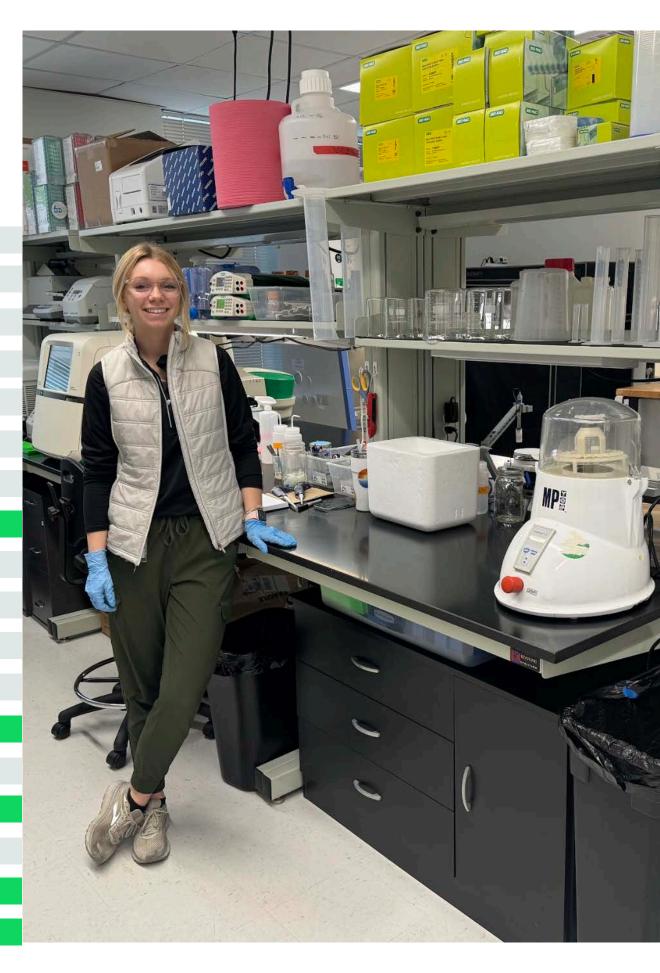
Controlled expenses and efficient cash utilization while delivering sustained Company growth achieving scientific milestones, product development, regulatory progress and commercial partnerships.

In millions of US\$	FY 2022 (Full year)	FY 2023 (Full year)	FY 2024 <sup>1</sup> (1st semester)	Revenue	<ul> <li>Revenues increase overtime</li> <li>14 different countries</li> </ul>	
Revenue & other inconme	0.00	0.91	3.41	& Cogs  • Current client base supports mo adoption	<ul> <li>Current client base supports r adoption</li> </ul>	
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)	SG&A scientific, regulatory and production of the scientific of th	<ul> <li>R&amp;D expenses increase slightly with constant scientific, regulatory and product dev mileston</li> <li>Admin expenses increase gradually while sup structure for company building</li> </ul>	
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 Utilization	<ul> <li>Low operational cash burn record after listing</li> <li>FY'23 and FY'24 burn included</li> </ul>	
Cash flow operations	(1.89)	(7.51)	(5.65)	Otilization	associated to transaction ex	



### Condensed Consolidated Statements of Operations

	ended December 31, 2023	ended September 30, 2023	Change %	For the six months ended December 31, 2023	For the six months ended December 31, 2022	Change %
Continuing operations	(In thousands unless other	of U.S. dollars, wise noted)		(In thousands of unless other	of U.S. dollars, wise noted)	
Revenue	252.1	1,740.1	86%	1,992.2	-	N/A
Other income	210.9	-	N/A	210.9	-	N/A
Cost of sales	(20.0)	(1,519.6)	(99%)	(1,539.7)	-	N/A
Research and development expense	(516.0)	(387.7)	33%	(903.8)	(404.5)	123%
Marketing expense	(13.7)	(219.3)	(94%)	(232.9)	(39.8)	485%
Administrative expense	(1,685.3)	(1,863.4)	(10%)	(3,548.8)	(725.4)	389%
Other operating expense	(20.9)	(17.9)	17%	(38.8)	(21.1)	84%
Loss from operations	(1,792.9)	(2,267.8)	(21%)	(4,060.9)	(1,190.8)	241%
Financial cost	(103.4)	(93.3)	11%	(196.7)	-	N/A
Other financial results	(123.1)	554.9	(122%)	431.9	(316.5)	(236%)
Transaction expenses	-	-	-	-	(4,470.0)	(100%)
Share-based payment cost of listing of shares	-	-	-	-	(42,705.1)	(100%)
Loss before Income tax	(2,019.4)	(1,806.2)	12%	(3,825.7)	(48,682.4)	(92%)
Income tax	236.0	215.3	10%	451.3	-	N/A
Loss of the period	(1,783.4)	(1,590.9)	12%	(3,374.4)	(48,682.4)	(93%)
Foreign exchange differences on translation of foreign operations	(882.9)	(30.7)	2,776%	(913.5)	-	N/A
Total comprehensive loss for the period	(2,666.3)	(1,621.6)	64%	(4,287.9)	(48,682.4)	(91%)
Basic and diluted loss per share	(0.05)	(0.04)	12%	(0.09)	(1.57)	(94%)





## Condensed Consolidated Statements of Financial Position

	As of December 31, 2023  (In thousands unless other	As of June 30, 2023 of U.S. dollars, wise noted)	Change %
Current assets	3,550.3	5,331.8	(33%)
Non-current assets	17,770.6	18,719.5	(5%)
Total assets	21,320.9	24,051.3	(11%)
Equity	6,684.0	10,105.9	(34%)
Current liabilities	8,281.4	12,599.2	(34%)
Non-current liabilities	6,355.5	1,346.2	372%
Total liabilities	14,636.9	13,945.4	5%
Total liabilities and equity	21.320.9	24.051.3	(11%)





### Condensed Consolidated Statements of Cash Flow

	For the six months ended December 31, 2023	For the six months ended December 31, 2022	Change %
Net cash (used) / generated in operating activities	(5,647.9)	(583.0)	869%
Net cash (used) / generated from investing activities	46.4	(66.4)	(170%)
Net cash (used) / generated from financing activities	4,692.5	10,000.0	(53%)
Net (decrease) / increase in cash and cash equivalents	(909.0)	9,350.6	(110%)
Cash and cash equivalents at beginning of the period	2,527.7	1,081.8	134%
Effect of exchange rate changes and inflation on cash equivalents	82.7	(3.1)	(2,768%)
Cash and cash equivalents at end of the period	1,701.4	10,429.3	(84%)





