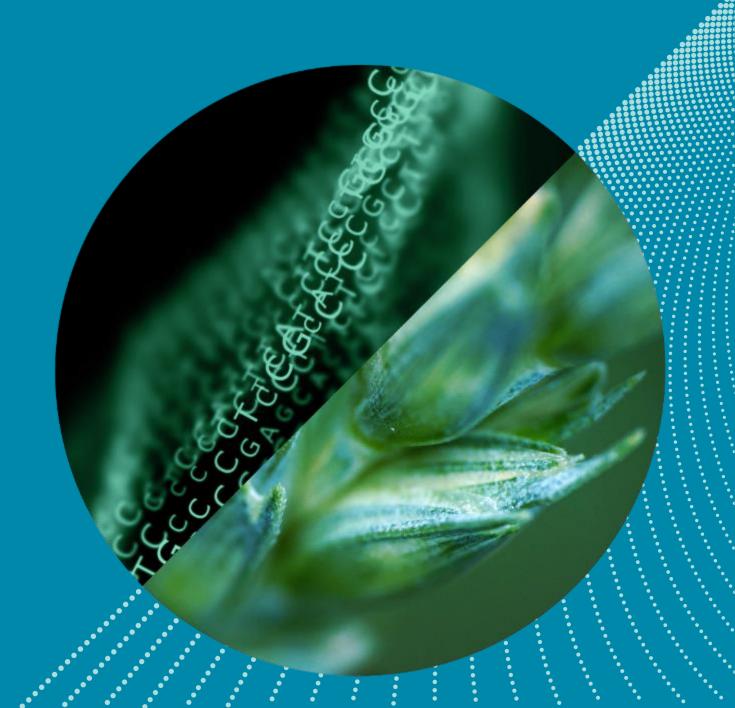
nrgene

Capital Markets Presentation



Disclaimer

- The objective of this presentation is to present the activity of **NRGene Technologies Ltd.** (the "**Company**") and to provide preliminary and basic information regarding its activities. In accessing this presentation, you agree to be bound by the following terms and conditions.
- This presentation does not constitute and should not be interpreted as an offer or an invitation to purchase and/or an issuance of securities of the Company. This presentation is intended for informational purposes only. This presentation does not constitute an offer of the Company's securities to the public.
- The information included in this presentation is a summary only and does not exhaust or include all of the information regarding the Company and its business, nor is it a substitute for careful inspection of the prospectus and the Company's financial reports which are published on the Israeli Securities Authority's website (MAGNA) and/or the need for professional advice before purchasing the Company's securities.
- The information presented in this presentation does not constitute a recommendation or an opinion nor is it a substitute for the collection and analysis of independent and additional information of any potential investor. Every potential investor should take independent advice and guidance in connection with its potential investment, including tax advice that takes into account its tax status.
- The data presented in this presentation is based on the Company's financial statements as of December 31, 2022, unless otherwise stated.
- This presentation includes, inter alia, forward-looking information, as defined in the Securities Law, 5728-1968, pursuant estimations of the Company's management, based on information and data which were known to the Company's management at the time of preparation of this presentation (including by relying on information published by various bodies, which have not been independently reviewed by the Company, and therefore the Company is not liable to its correctness). Such information includes, inter alia, forecasts, objectives, estimates, and/or assessments pertaining to future events and/or matters whose materialization is uncertain and cannot be estimated in advance by the Company. Such forward-looking information is uncertain, cannot be estimated accurately in advance and its materialization or non-materialization will be affected, inter alia, by risk factors characteristic of the Company's activity, as well as by developments in the economic environment and in external factors affecting the Company's activity, which cannot be estimated in advance and which are beyond the Company's control. More specifically, the presentation includes information regarding an estimated growth in the Company's revenues and business transactions, pursuant estimations of the Company's management, based on its past experience, assumptions regarding the Company's growth rate, completion of negotiations and execution of binding agreements, state of markets and the demand for the Company's products, whose materialization is subject to successful development and commercialization processes of the Company's products.
- This presentation shall not be relied upon and shall not be construed as any representation or obligation, including with regard to the completeness or accuracy of the information included herein. The Company, its employees, its officers and its shareholders will not be liable for damages and/or losses that may be caused as a result of the use of the information presented in this presentation. The Company is not responsible for any future change in the economic, financial or legal situation concerning the Company and its business. The Company does not undertake to update and/or change any such forecast and/or assessment to reflect events and/or circumstances postdating this presentation.



Agenda

- About NRGene
- The Company's Technology and Activities
- Business Models
- Innovative End-Products Development
- IP Development Projects in Return for Royalties
- Global Trends Impacting the Company's Activities
- Financial Results' Highlights



About NRGene

NRGene Technologies Ltd. is an AgTech company engaged in research and development of IP-based technological products. The company develops varieties and traits of crops and animals, using its technology in the field of artificial intelligence (AI), to analyze genetic information based on Big Data, in order to accelerate and improve the natural development of crops and animals in the global agriculture and food industry.

2009

Company founded

2015

Product launch

2021

IPO on the Tel-Aviv Stock Exchange (TASE)

+300

Projects completed between 2015-2022

30

Countries

\$46M*

Total bookings

^{*} As of the reporting date (from commencement of commercialization); An amount of \$3M is included in the backlog as of the reporting date.





NRGene's Artificial Intelligence (AI) Technology was Validated by Leading Companies Worldwide

A proven technology that has been successfully implemented in over 300 projects across various industries

Accelerated

Significantly reduces the development time of new varieties



WYFFELS

HYBRIDS





Reliable

Successful product implementation in the world's leading breeding companies







Unique

Unique technological solution that enables identification of the most relevant genetic composition, based on proprietary databases







2015

Launch of genomics analysis solutions (services)

2017

Multi-year subscription agreements of the AI-based technology solution (genomic platform)

2021

Strategic decision to focus on the IP development projects of varieties and traits of crops and animals

2022

Commencement of IP development for new varieties (end-products) in emerging markets

2023

Expected revenues from royalties (varieties and traits)*

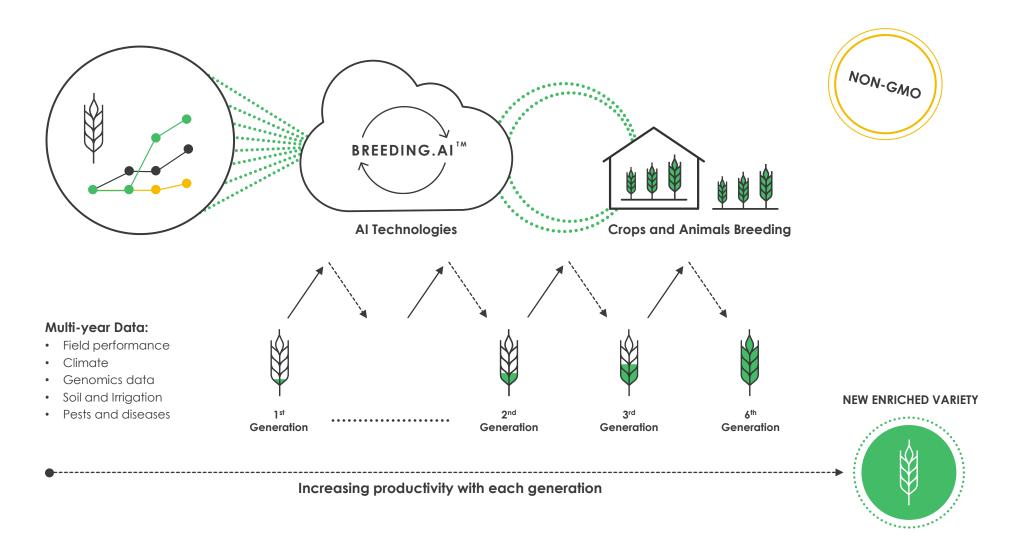
2024

Expected end-product commercialization (varieties and traits)*



* The estimation of the products' commercialization date (varieties and traits) is based on the Company's experience and may occur in a different way than expected, or not occur due to factors beyond the Company's control.

NRGene's Technology



The benefits

- ✓ Reduces development time
- ✓ Reduces costs
- ✓ Increases likelihood of success



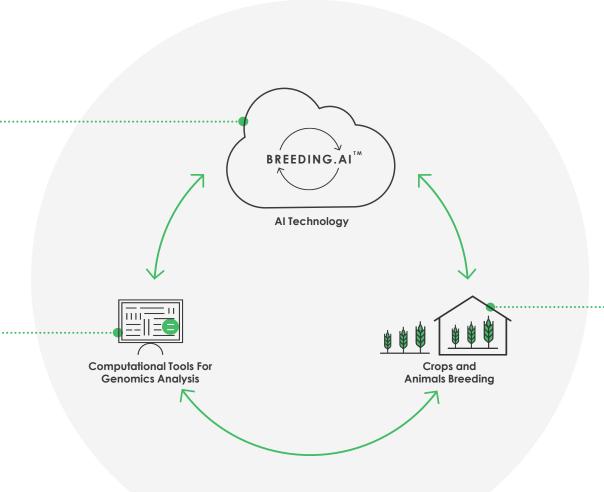
The Company's Activities

Al Technology

A cloud-based analytical platform with proven results in hundreds of projects across dozens of species (crops and animals). The system predicts improved genetic combinations and provides optimized and accurate natural breeding programs.

Computational Tools For Genomics Analysis

Utilizing AI and Big-Data solutions to analyze genetic information to accelerate and improve the natural breeding of crops and animals in the global agriculture and food industries.



Crops and Animals Breeding

Natural breeding activities in experimental greenhouses/fields to improve varieties and traits of crops and animals based on computational predictions and according to the project's goals.



Business Models

Subscription agreements and genomics analysis services

• Strategic Collaborations





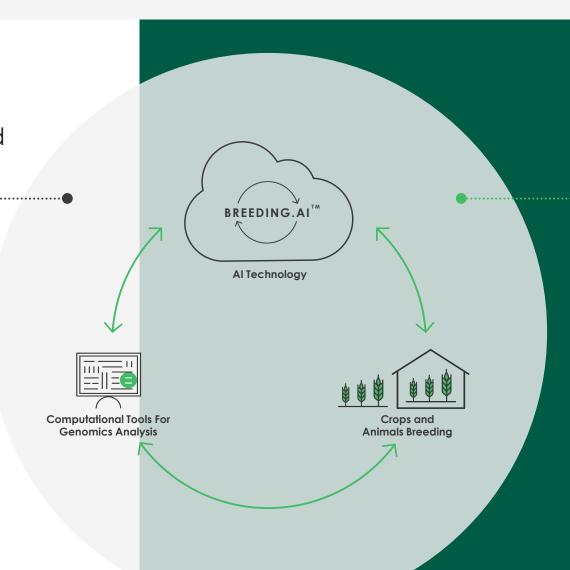
Genotyping (DNA tests)





Wheat

Tomato



IP development of traits and varieties



Revenues from royalties and/or end-product sales



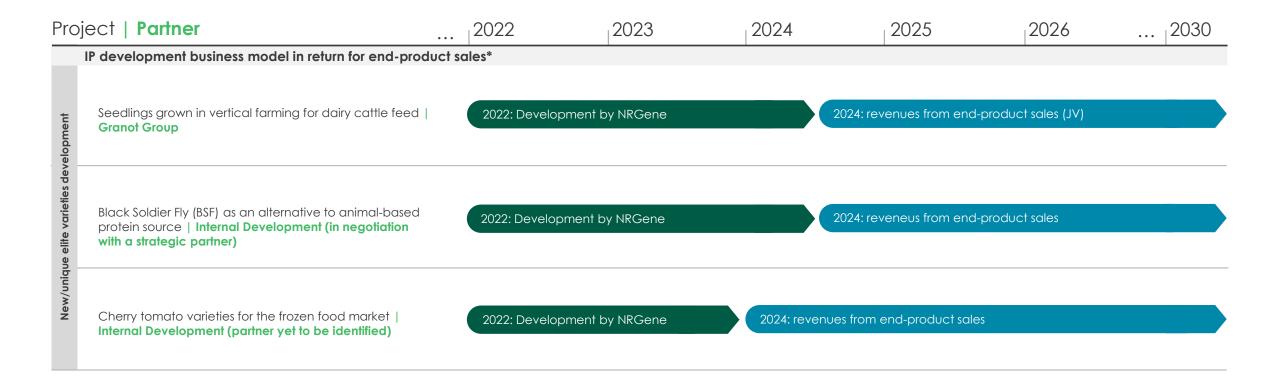
NRGene Engages in Partnerships to Develop Varieties and Commercialize End-Products

Strategic collaborations ensure a complete presence in the agriculture value chain and maximizing value creation for the end-customer





Innovative End-product Development in Emerging Markets



^{**} The Company is evaluating additional projects and partners in this business model, which may not occur, due to factors beyond the Company's control.



^{*} Revenues from end-product sales are subject to successful completion of a project's development, collaboration with partners, implementation, market conditions, and customers' demands.

Seedlings Grown in Vertical Farming for Dairy Cattle Feed

Strategic collaboration with the Granot Group to develop and commercialize elite wheat varieties*



Dairy cattle feed market**

\$68.5B in 2021 expected to grow to \$78.3B by 2026



A dairy cow's daily feed cost

\$6 to \$9



Seedlings can replace up to 30% of cow's feed



Potential cumulative revenues of the JV until 2030

Main goals:

- ✓ Reducing dairy cattle feed cost
- ✓ Improving cow's nutrition and health
- ✓ Minimizing the environmental footprint



^{*} By the Company's subsidiary in Canada. ** https://www.marketdataforecast.com/marketreports/dairy-cattle-feed-market

**** The dairy cows daily feed cost, the percentage of feed replacement, the successful development of the elite varieties, the establishment of the equally owned company, the products' commercialization date, the Company's entitlement for revenues from end-product sales, the potential market size and the partnership's revenues from the products' commercialization, are based on the Company's estimations and forecasts, based on market research and assumptions of the market size and market penetration rate, and may occur in a different way than expected, or not occur, due to factors beyond the Company's control.

August 2022

Collaboration agreement with Granot Group

First milestone: identification of wheat varieties that are optimal for seedling growth***

Evaluation of additional crops suitable for vertical farming

Expected establishment of a JV (50%-50%) for worldwide wheat grains production and commercialization

Expected launch of the first elite varieties for commercialization

©2023 ALL RIGHTS RESERVED 11

^{***} In comparison to hundreds of commercial elite varieties tested by the Company.

Black Soldier Fly (BSF) as an Alternative to Animal-Based Protein Source

Increasing the efficiency of the BSF for commercial scale manufacturing as a key driver of circular economy and sustainability



\$3.4B Estimated BSF market size by 2030*



34.7% CAGR



\$2,500 perton BSF protein's average price



Potential cumulative revenues until 2030

Main goals:

- ✓ Increasing larvae size and shortening the development and growth time
- BSF adaptation to different organic 🗸 agricultural byproducts
- Generating genetic database representing the BSF's wide genetic diversity
- Optimization of the feed conversion rate

** The successful development of the BSF varieties, the development of improved BSF variety date, the completion of genomic infrastructure establishment date and the products' commercialization date, the Company's entitlement for revenues from end-product sales, the potential market size and the revenues from the products' commercialization, are based on the Company's estimations and forecasts, based on market research and assumptions of the market size and market penetration rate, and may occur in a different way than expected, or not occur, due to factors beyond the Company's control.

2022

Development of BSF's genomics infrastructure

January 2023

Joining the BSF consortium of the Israel Innovation Authority

July 2023

Development of improved BSF variety expected to reach first milestone

September 2023

Expected completion of genomic infrastructure establishment

2024

Expected first elite varieties' commercialization for customers and partners

©2023 ALL RIGHTS RESERVED 12

^{*} https://www.globenewswire.com/en/news-release/2021/09/13/2295798/0/en/Black-Soldier-Fly-BSF-Market-is-Expected-to-reach-3-4-billion-by-2030-at-a-CAGR-of-34-7-During-the-Forecast-Period-of-2021-to-2030-Exclusive-Report-by-Meticulous-Research.html

nrgene

Cherry Tomato Varieties for the Frozen Food Market

Naturally Dried, Stored Frozen, Consumed Fresh



More vitamins (compared to common cherry tomato)



Chemicals



+ I year

Shelf life (stored frozen)



Potential cumulative revenue of the company (and/or partnership), until 2030

Main goals:

- ✓ Reducing production costs by implementing open field cultivation and mechanical harvesting
- ✓ Through improvement of the taste and texture, the product will remain fresh even after freezing
- ✓ Cost reduction of freezing, transportation logistics
- ✓ Reduced level of product loss across the supply chain
- ✓ Designed for the institutional market (such as caterings, restaurants and hotels) and the end-customer

February 2022 Project launch November 2022 Alpha hybrid varieties selection February 2023 Production of Alpha hybrid varieties 2024 **Expected** commercialization in Israel **Expected commercialization** in Europe Expected production of Beta hybrid varieties ©2023 ALL RIGHTS RESERVED 13



* The successful development of the elite varieties, the production of Alpha varieties date, the products' commercialization dates and the production of Beta varieties date, the Company's entitlement for revenues from end-product sales, the potential market size and the revenues from the products' commercialization, are based on the Company's estimations and forecasts, based on market research and assumptions of the market size and market penetration rate, and may occur in a different way than expected, or not occur, due to factors beyond the Company's control.

IP Development Projects in Return for Royalties

The revenue potential in significant projects (to date):

Project	Expected development period*	Commercialization status	Expected year of initial royalties	Potential annual market size (seeds/varieties)**	Expected royalties (throughout the project's lifetime)***
ToBRFV resistance in tomatoes	2020-2022 (Completed)	In commercialization (10 signed agreements)	2023	\$500M <	\$24M
High-quality cherry tomato varieties	2021-2023	Not started (A commercial arrangement with partner)	2026	\$25M <	\$10M
Alternative protein from Pea and Hemp	2021-2023	Not started (A commercial arrangement within the consortium in Canada)	2025	\$350M <	\$20M
Clubroot resistance in canola	2021-2025	Not started	2025	\$550M <	\$115M

^{*} Until the completion of an Alpha product for its commercialization.

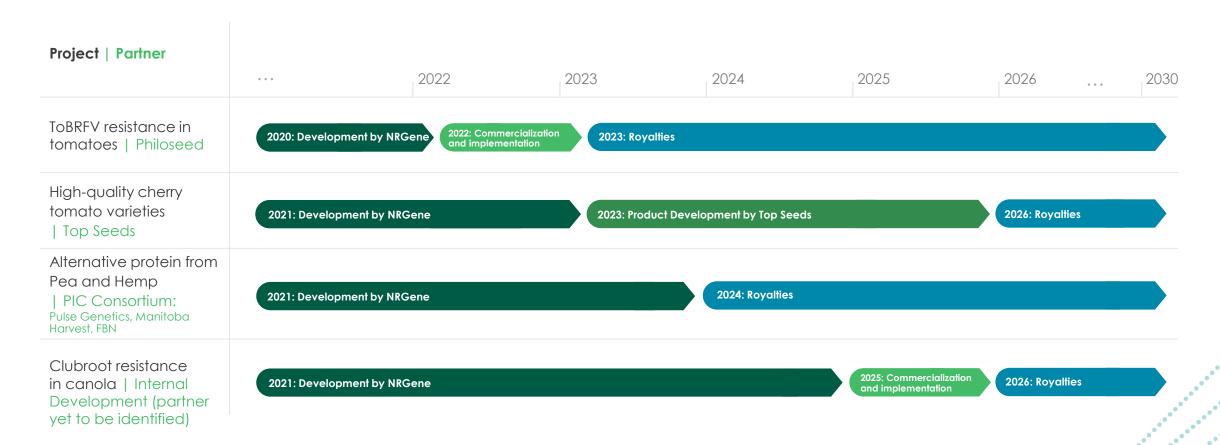
^{****} The Company is evaluating additional projects and partners in this business model, which may not occur, due to factors beyond the Company's control.



^{**} Based on the Company's estimation of market size, market penetration rate, market share potential and average royalties' rate.

^{***} Company's estimation is that the project's lifetime is at least 10 years from the commencement of commercialization. The expected revenues from royalties in the table are based on the above estimations.

IP Development Projects in Return for Royalties -Status



^{*} Revenues from royalties are subject to successful completion of a project's development, the Company's partners, implementation, market conditions, and customers' demands.

^{**} For additional information about other projects in this business model, also see chapter A of the Company's 2022 Annual Report.



Genotyping (DNA Tests)

Leveraging NRGene's technology to generate recurring revenue through long-term engagements with customers

Overview of genotyping's market penetration (starting in Q4, 2020)

\$3.2M Total booking*

个16%

Increase in bookings (signed agreements) since 2021

180%

Customers growth since 2021*

1 30-70%

Customer and partner's savings**

Expected cumulative revenue until 2026**

Key crops:

maize, soy, canola, wheat, pea, tomato, and more

^{**} Based on the Company's estimations and forecasts, based on the Company's experience, market research and assumptions of the market size and market penetration rate.





^{*} As of the reporting date, the Company has 11 agreements with customers for the provision of DNA tests services.

Food Security and Sustainability

Global Trends Impacting the Company's Activities



Increasing populations and rising living standards are driving an increase in the global demand for food.



Global wheat shortage

A continuous shortage of wheat, maize, sunflower oil, etc., is expected due to the war between Russia and Ukraine.



Climate change

Reduction in arable land and water resources for agriculture, combined with extreme climate changes, affecting global agricultural production.



Alternatives to meat and healthy food

The negative impact of animalbased industries on global climate change is fueling the rapid growth of plant-based food and alternative protein sectors.



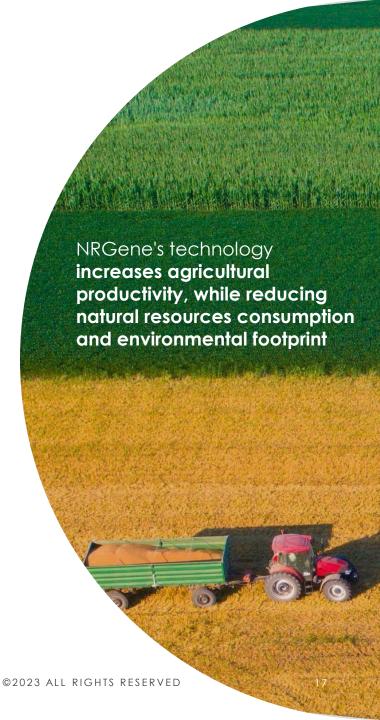
Diseases and pests

The expansion of agricultural crops increases the risk of disease outbreaks, which results in higher chemical use and lower yields.



Fuel substitutes for transportation

Significant increase in the use of fuel substitutes from soybean, corn, canola, and wheat as a result of increasing oil prices.





2022 Financial Results Highlights* (US Dollars in Thousands)

Financial data	2022	2021	Comments
Revenues	3,159	4,463	End of subscription agreement with Bayer (December 2021), partially offset by increase in revenues from genomic services; Focusing on long-term projects (DNA tests and strategic collaborations) and IP development projects of traits and varieties (crops and animals).
Adjusted Gross Margin	56%	60%	Decrease in portion of revenues from providing access to software (Bayer) out of total revenue mixture during the reporting period.
Adjusted EBITDA	(4,584)	(7,143)	Focusing on building infrastructure for medium/long-term growth in IP development projects and reducing sales and marketing expenses accordingly.
Total Backlog**	2,895	4,662	Decrease in one-time service-based projects, partially offset by commercialization of IP development projects and DNA tests.
Cash and short-term deposits	12,284	22,872	Decrease in cash and short-term deposits is mainly due to investment in building infrastructure for IP-based business model and DNA tests growth, and repayment of financial obligations (credit line and long-term loan).
Short-term and long-term loans	-	2,285	Repayment of a credit line and long-term loan to a banking institution.

^{*} The complete financial results (audited) are included in the consolidated financial statements as of December 31, 2022. For additional information, also see the Company's Board of Directors Report.

^{**} The total backlog as of the reporting date is approximately \$3 million dollars. This backlog excludes the payments that the Company is expected to receive under the scope of the collaboration agreement with Granot Group. For further details, see section 26.2.6 in chapter A of the Company's 2022 Annual Report.



nrgene

Questions?



NRGene Ltd.



@NRGene



nrgene.com



info@nrgene.com



