Bringing precision to medical cannabis
Safe harbor

This presentation contains “forward-looking statements” relating to future events, and we may from time to time make other statements, regarding our outlook or expectations for future financial or operating results and/or other matters regarding or affecting Evogene Ltd. or its subsidiaries (collectively, “Evogene” or “we”), that are considered “forward-looking statements” as defined in the U.S. Private Securities Litigation Reform Act of 1995 (the “PSLRA”). Such forward-looking statements may be identified by the use of such words as “believe,” “expect,” “anticipate,” “should,” “planned,” “estimated,” “intend” and “potential” or words of similar meaning. For these statements, Evogene claims the protection of the safe harbor for forward-looking statements contained in the PSLRA.

Such statements are based on current expectations, estimates, projections and assumptions, describe opinions about future events, involve certain risks and uncertainties which are difficult to predict and are not guarantees of future performance. Therefore, actual future results, performance or achievements, and trends in the future of Evogene may differ materially from what is expressed or implied by such forward-looking statements due to a variety of factors, many of which are beyond Evogene’s control, including, without limitation, those described in greater detail in our Periodical and Annual Reports, including our Registration Statement on Form F-1, Annual Report on Form 20-F and in other information we file and furnish with the Israel Securities Authority and the U.S. Securities and Exchange Commission, including under the heading “Risk Factors.”

All written and oral forward-looking statements attributable to us or persons acting on our behalf are expressly qualified in their entirety by the previous statements. Except for any obligations to disclose information as required by applicable securities laws, Evogene disclaims any obligation or commitment to update any information contained in this presentation or to publicly release the results of any revisions to any statements that may be made to reflect future events or developments or changes in expectations, estimates, projections and assumptions.

The information contained herein does not constitute a prospectus or other offering document, nor does it constitute or form part of any invitation or offer to sell, or any solicitation of any invitation or offer to purchase or subscribe for, any securities of Evogene or any other entity, nor shall the information or any part of it or the fact of its distribution form the basis of, or be relied on in connection with, any action, contract, commitment or relating thereto or to the securities of Evogene.

The trademarks included herein are the property of the owners thereof and are used for reference purposes only. Such use should not be construed as an endorsement of the products or services of Evogene.
About us

• Canonic is a fully owned subsidiary of Evogene Ltd* targeted to develop medical grade cannabis through a revolutionary approach utilizing disruptive genomic, big data and artificial intelligence technological platform

• Focused on improving yield and metabolite stability, and cannabis varieties for the main medical indications: PTSD, severe chronic pain and cancer

• Harnessing more than 10 years of Evogene’s experience and reputation in plant genomics, including collaborations with international ag companies - Bayer, Corteva, Monsanto, Syngenta, and others

• Exclusive access to Evogene’s CPB platform technology, IP and infrastructure for its cannabis R&D program including regulatory approvals for the establishment of a cannabis research facility

*Evogene Ltd. – Publicly traded in TASE and NASDAQ (EVGN); Cash balance of > $50 Million (31/12/2018)
Agenda

Mission, Market & Challenges

Solution & Technology

Target Products & Business Plan

Assets & Capabilities

Summary
To develop and bring to market medical grade cannabis through a revolutionary genomic approach
The cannabis market

A fast growing market

Vast medical applications

Source: New frontier data (US only)

Source: Leafly Holdings
KEY CHALLENGES

**METABOLITE YIELD**

Low yields burden growers and patients with higher product and manufacturing costs.

**VARIETY STABILITY**

Substantial variations within varieties produce inconsistent products that have become unreliable as a medical treatment.

**MEDICAL TAILORED PRODUCTS**

Specific medical indications require tailored metabolite profiles. To date, breeding mainly pushed THC levels.
Agenda

Mission, Market & Challenges

Solution & Technology

Target Products & Business Plan

Assets & Capabilities

Summary
Our solution

Using computational power (AI, Big Data) to decode the cannabis genome and overcome market challenges.
Disruptive technology- the CPB Platform

Evogene’s Computational Predictive Biology (CPB) platform

Understand plant genetics

High quality data

Interconnected information hub

Artificial intelligence tools

Plant validation

Developed over >10 years

Collaborations over the years with:

And more...

10 | All rights reserved to Canonic Ltd. ©
Agenda

Mission, Market & Challenges

Solution & Technology

Target Products & Business Plan

Assets & Capabilities

Summary
Target products

**MetaYield⁺**
Increased **METABOLITE YIELD**

**Unican⁺**
Verified **VARIETY STABILITY**

**Precise⁺**
Tailored **METABOLITE PROFILES**
- Precise⁺ Chronic pain
- Precise⁺ PTSD
- Precise⁺ Cancer care

Innovative products to address key market needs

+ For illustration purposes
Business plan

Canonic will develop elite cannabis varieties for commercialization of medical products directly or via partnerships.

Varieties dev.

Seed production

Cannabis growth

Formulation

Clinical validation & regulation

Distribution

Unique varieties

Seeds

Flowers

Potential partnerships
### Milestones Roadmap

**2019**
- Establishment of R&D growing facility
- Complete two cannabis growth cycles
- Establish agronomic protocols
- Build cannabis core collection
- Establish initial cannabis database

**2020**
- First product trait demonstrated
- Complete three cannabis growth cycles
- Complete establishment of proprietary cannabis database
- Expand core collection of cannabis varieties

**2021**
- Finalize development of first improved variety
- Pre-commercial stage
- Seed increase to allow production
- Finalize formulation process
Agenda

Mission, Market & Challenges

Solution & Technology

Target Products & Business Plan

Assets & Capabilities

Summary
Innovative technology implementation

Understand plant genetics
Select desired traits, avoid undesired effects

High quality data
Proprietary and public data, relevant for cannabis

Interconnected information hub
3x10^9 data points on 62 plant species

Artificial intelligence tools
Novel genes and markers discovery capabilities

Plant validation
Greenhouses, tissue culture, molecular lab, phenotyping, statistics

Validated & patented genes for traits of interest
(e.g. trichomes density, growth rate, flowering time)

Science
IP
Integrated data hub
Plant systems
Predictive biology
Proprietary advantage

Classic breeding

Computational assisted new breeding technology

- Design genetics
- Modify varieties
- Selected genetic profile
- Validate variety

Canonic

ADVANTAGES

- Fast & efficient
- Can target any gene
- Non GMO, non genome editing

Proven success - up to 30% improvement in other crops*

*In greenhouse
KEY CHALLENGES

METABOLITE YIELD
Low yields burden growers and patients with higher product and manufacturing costs.

VARIETY STABILITY
Substantial variations within varieties produce inconsistent products that have become unreliable as a medical treatment.

MEDICAL TAILORED PRODUCTS
Specific medical indications require tailored metabolite profiles. To date, breeding mainly pushed THC levels.
Cannabis metabolites are produced in small hairs (trichromes). We have proprietary IP for trichrome enhancement.

Trichomes in cannabis

Cannabis yield is determined by its trichome population

Evogene has discovered genes for the improvement of **trichomes density and/or length**

>15 genes exhibited a **significant impact on trichome traits** in model plant systems

Most of the genes are under **granted patents**

Improved trichomes in tomato
KEY CHALLENGES

METABOLITE YIELD
Low yields burden growers and patients with higher product and manufacturing costs.

VARIETY STABILITY
Substantial variations within varieties produce inconsistent products that have become unreliable as a medical treatment.

MEDICAL TAILORED PRODUCTS
Specific medical indications require tailored metabolite profiles. To date, breeding mainly pushed THC levels.
Assets & capabilities from Evogene:
Variety stability example

THE CHALLENGE

Current medical products are unreliable due to large fluctuations in active compounds levels

- Underground breeding
- High genome heterogeneity
- Confusing varieties nomenclature

THE SOLUTION

Development of stable cannabis varieties using advanced plant genomics capabilities

- Advanced breeding - superior performance
- Homogenous genome
- Hybrid seeds

Smart selection process – identify genotypes using computational tools

Conducted by Evogene subsidiary on Castor
Assets & capabilities from Evogene:
Variety stability example

THE CHALLENGE

Current medical products are unreliable due to large fluctuations in active compounds levels

THE SOLUTION

Development of stable cannabis varieties using advanced plant genomics capabilities

Smart selection process – identify genotypes using computational tools

Conducted by Evogene subsidiary on Castor
**KEY CHALLENGES**

**METABOLITE YIELD**
Low yields burden growers and patients with higher product and manufacturing costs.

**VARIETY STABILITY**
Substantial variations within varieties produce inconsistent products that have become unreliable as a medical treatment.

**MEDICAL TAILORED PRODUCTS**
Specific medical indications require tailored metabolite profiles. To date, breeding mainly pushed THC levels.
Connecting specific metabolites to clinical indications for precision medical cannabis products
The team

Chairman

Ofer Haviv
Evogene CEO and President

Management

Dr. Inbal Dangoor
R&D
Biotech Trait Manager, Ag seeds division
Evogene
PhD Plant science

Dr. Arnon Heyman
CEO
VP and GM Ag seeds division Evogene,
CTO BondX technologies
PhD Biotechnology, MBA

Ofir Hazut
Strategy & BD
Director of business development Evogene
MEway Pharma, DiagnosticAid Medical,
PeriTech Pharma
MSc Neuroscience, MBA
Agenda

Mission, Market and Challenges

Solution & Technology

Target Products & Business Plan

Assets & Capabilities

Summary
Summary

• Canonic’s mission is to develop and bring to market medical grade cannabis through a revolutionary genomic approach

• The cannabis market is growing at a rapid pace, while the main market challenges are – yield, stability and tailored products for specific indications

• Harnessing more than 10 years of Evogene’s experience and reputation in plant genomics, including collaborations with international ag companies - Bayer, Corteva, Monsanto, Syngenta, and others

• Exclusive access to Evogene’s CPB platform technology, IP and infrastructure for its cannabis R&D program including regulatory approvals for the establishment of a cannabis research facility
Bringing precision to medical cannabis