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COMPANY PRESENTATION

Dr. Dan Gelvan, CEO

March 2025

Forward-Looking Statements

This presentation contains "forward-looking statements" relating to future events, and Ag Plenus Ltd. (the “Company”) and its parent, Evogene Ltd. (“Evogene”, and collectively “we”, “us”, “our”), 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 us that are considered “forward-looking statements” as defined in the U.S. Private Securities Litigation Reform Act of 1995 (the “PSLRA”) and other securities laws. 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. We are using forward-looking statements in this presentation when we discuss our value drivers, growing market’s expectations, challenges, business model and potential revenue stream, commercialization efforts and timing, product development and launches, estimated market sizes and milestones, as well as the capabilities of Evogene’s and our technology.

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Agenda

01// Company Overview

02// The Technology Platform

03// Business Strategy

04// Pipeline & Collaboration

05// Summary

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Our Vision

Novel and sustainable crop protection products

Design and develop novel and sustainable crop protection products allowing food security for the rapidly growing world population

Our Mission

AI and science to boost novel crop protection development

To direct and accelerate the development of target-based novel crop protection products, utilizing a revolutionary tech-engine based on AI, combined with a deep understanding of biology and chemistry

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Agro-chemical Market Growth Drivers

Market growth forecast for 2028 ~$92B

2023 Est., ~$75.6 B (E.CAGR 5%)*

10B

the world's population in 2050

5

Multinationals lead the field. Low levels of innovation

50%**

Yield loss to Wheat Blotch due to resistance is common in the UK

Agro-chemical pesticides

are a well proven economical approach for increase of crop yields

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*https://www.marketsandmarkets.com/Market-Reports/crop-protection-380.html?gad_source=1&gclid=Cj0KCQjwgL-3BhDnARIsAL6KZ68K193O_zl9dDCJOb5_8YDsg1Sh8FJb5M8hc3FrkKhRNR0UsfiqShsaAiQvEALw_wcB

**https://ahdb.org.uk/knowledge-library/septoria-tritici-in-winter-wheat

Agro-chemical Market Segments

Broad Spectrum Herbicide

Market opportunity

Total herbicide – Estimated at **$41.3B**[1]

Major markets

- North America, Latin America
- Needs in all major global regions

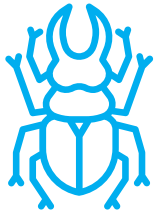
Fungicides for major diseases

Market opportunity

Total fungicide market – estimated at **$20.2**[3]

Major markets

- Europe, Asia
- Needs in all major global regions



Broad Spectrum Insecticide

Market opportunity

Total insecticide market – estimated at **$18.7B**[2]

Major markets

- Global

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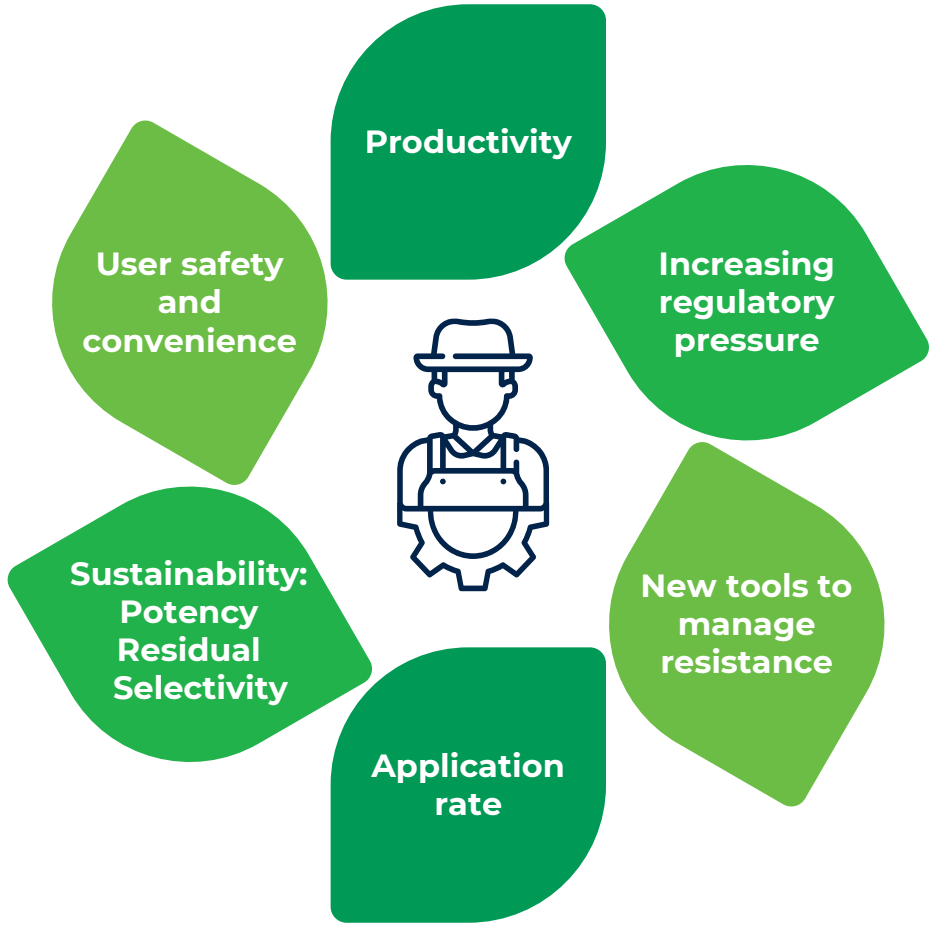
1) https://www.mordorintelligence.com/industry-reports/global-herbicides-market-industry?gclid=EAIaIQobChMIqL--hsHMgAMVoJODBx2ZLQeZEAAYAiAAEgLXqvD_BwE

2) https://www.databridgemarketresearch.com/reports/global-insecticides-market

3) https://www.fortunebusinessinsights.com/fungicides-market-103267

Agrochemical Market

Opportunities



Challenges

Increase of Pest Resistance & Regulatory Requirements

- Reduced tools due to regulatory requirements
- Resistant pests
- Increased application rate resulting in environmental damage

Long and Expensive Development

- Time to market 10-12 years
- Average cost of $286M
- 160K molecules synthesized

Lack of Innovation

- Decreased rate in discovery of new pesticides
- Lack of capabilities to identify protein targets

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Key Product Development Challenges

01

Target Protein Selection

Target Protein - an essential protein, that upon loss of its function compromises the organism.

The Challenge

To find a novel, safe, and druggable* *Target Protein* from the thousands of proteins in the relevant organism, with a new mode-of-action (MOA) that *will not* result in adverse cross-reactivity in beneficial species.

02

Small Molecule Inhibitor Identification

A small molecule inhibitor - is a chemical compound that effectively modulates or inhibits the activity of the target protein.

The Challenge

To find a novel molecule inhibitor out of the billions of potential chemical compounds, that both effectively and selectively affects the target protein.

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*Druggable: used to describe a biological target (such as a protein) that is known to or is predicted to bind with high affinity to a small molecule

Our Solution

AI and Science for Novel Crop Protection

Computational prediction of essential druggable proteins

Robust experimental biology and chemistry platform

Novel Modes of Action for sustainability and to overcome resistance

AI- based rapid virtual screening of >10^{10} compounds

Addressing **environmental safety** and selectivity early in discovery

Cost-effective, wet screening of only hundreds of compounds

Reduced time to market

Increase **probability of success**

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Our Pipeline

Broad Spectrum Herbicide

No. of programs

3

Fungicides for Major Diseases

No. of programs

3

Partnerships

CORTEVA™ agriscience

BAYER

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Our Impact – Sustainable & Novel Crop-Protection Solution

Highly potent products

Effective in low doses
Infrequent application
Spare the ecosystem

Low field residual

Environmentally degradable
Safe to farmers

Highly selective

Safe to environment
Safe to pollinators
Safe to humans

Overcome resistance

Effective in resistance management efforts

Suitable for modern agriculture

High ROI to farmer with limited environmental damage
Frequency of application
Convenience
safety

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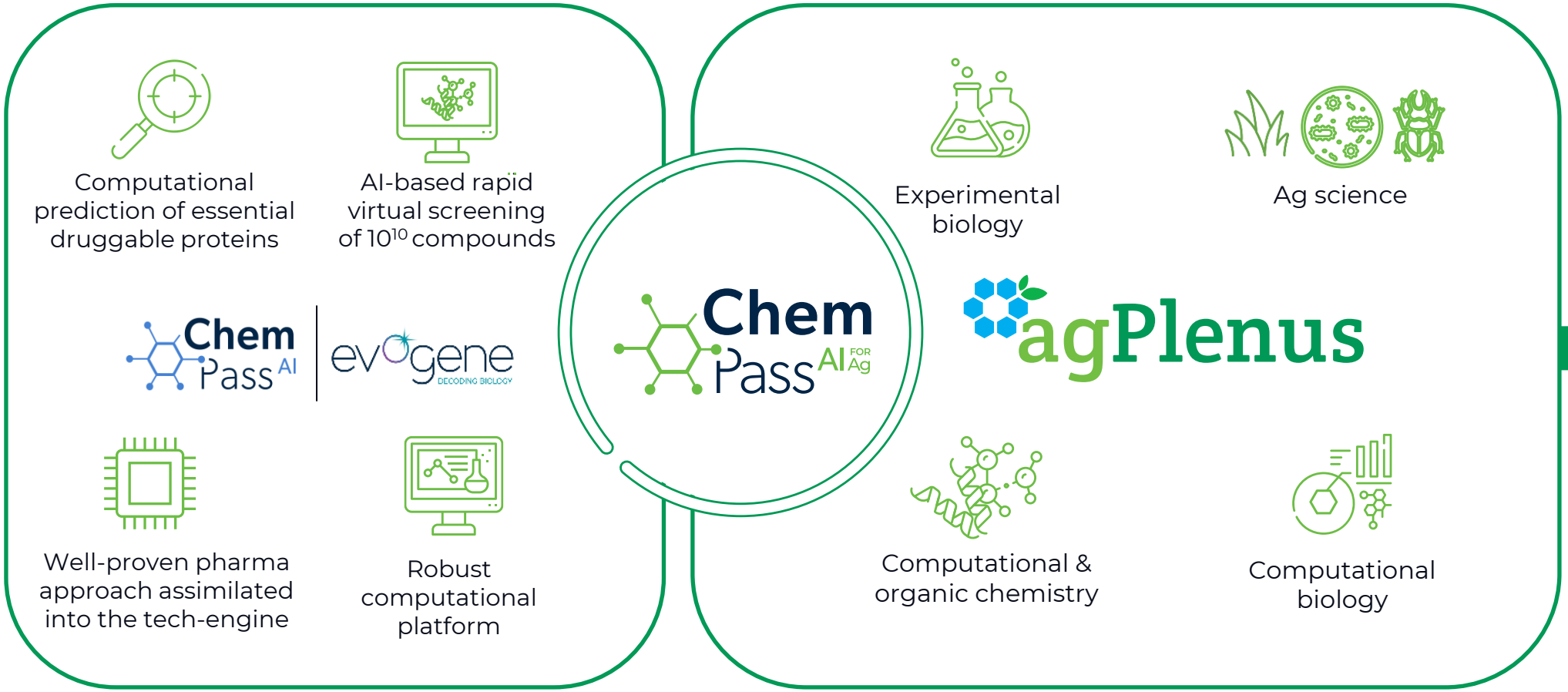
The Concept Behind our Platform -

Harnessing AI and Science for Novel Crop Protection Development



Computational platform and methodology

Experimentally validated predictions

ChemPass AI FOR Ag

Predictions verified by wet assays

Protein Target Selection

- 'TargetSelector'
- Target validation

Small Molecule Identification

- 'PointHit'
- in-vitro screening
- in-vivo screening

Small Molecule Optimization

- 'ActiveSearch'
- 'De-novo SAR'
- Tox & Ag models
- Greenhouse and field studies

Leading compounds for pre-development

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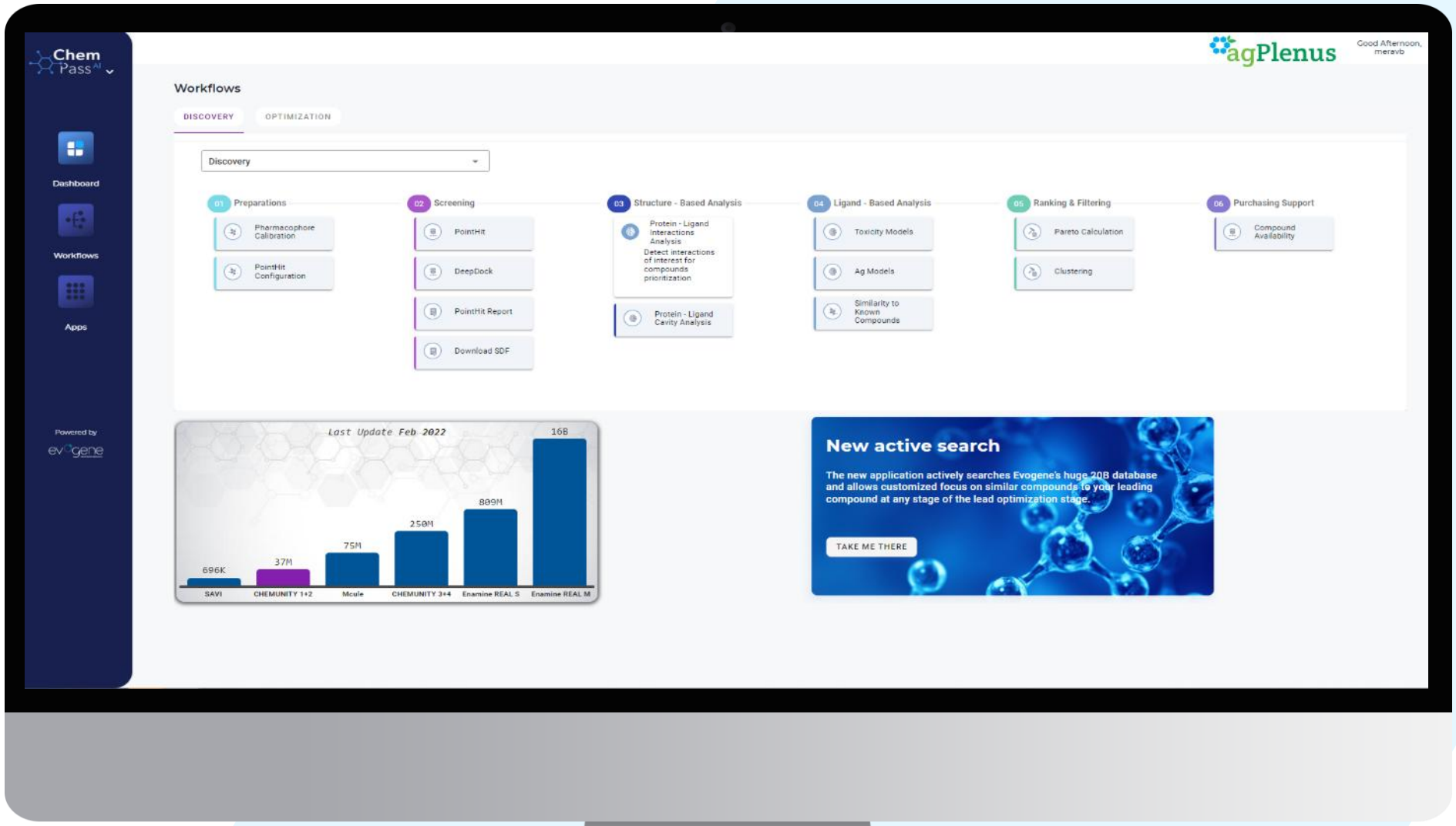
Simple user-friendly dashboard



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- **'TargetSelector'[1]**
- Target validation

Small Molecule Identification

- 'PointHit'
- in-vitro screening
- in-vivo screening

Small Molecule Optimization

- 'ActiveSearch'
- 'De-novo'[2]
- Tox & Ag models
- Greenhouse and field studies

Leading compounds for pre-development

Output: List of <10 Protein Targets

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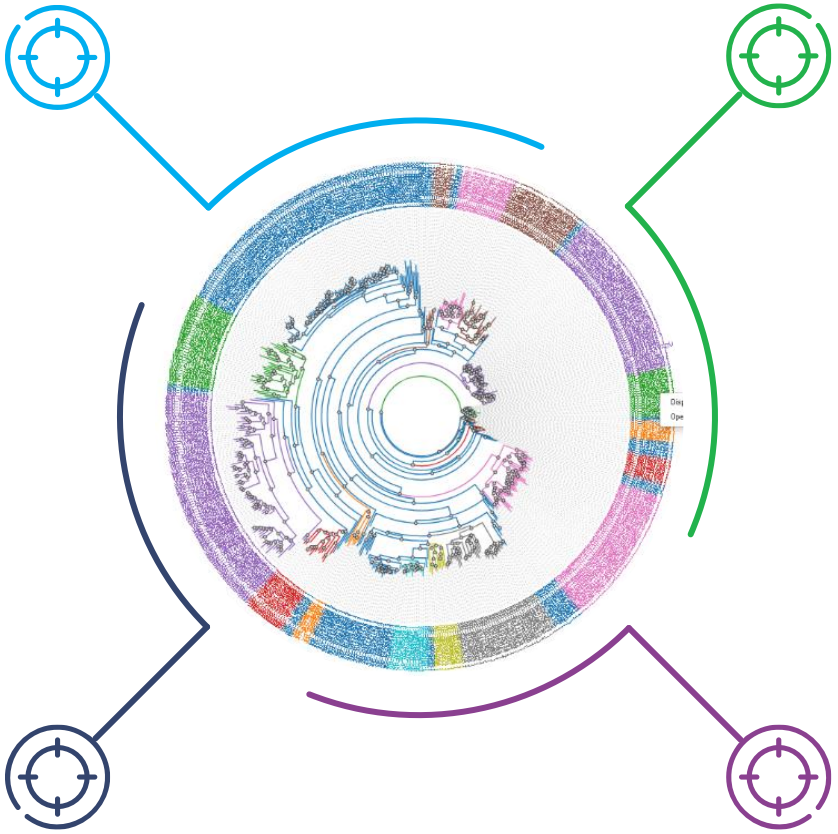
TargetSelector ™

Increasing Probability and Efficiency of Target Selection

Essentiality

Druggability



Cellular pathways

Target-related safety

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Computational platform and methodology

Experimentally validated predictions

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Protein Target Selection

- 'TargetSelector'
- Target validation

Small Molecule Identification

- **'PointHit'**
- in-vitro screening
- in-vivo screening

Small Molecule Optimization

- 'ActiveSearch'
- 'De-novo
- Tox & Ag models
- Greenhouse and field studies

Leading compounds for pre-development

Output: List of 200-500 purchasable compounds

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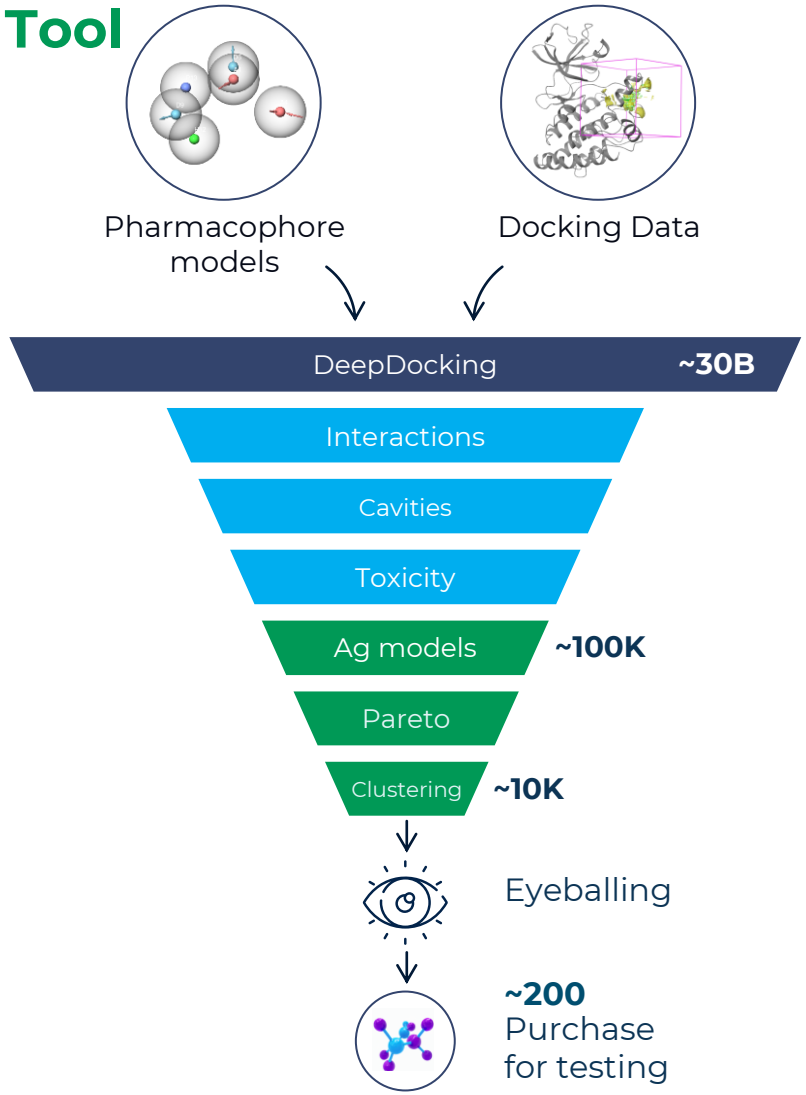
PointHit –
Virtual High Throughput Screening Tool



Massive parallel screening

Reduces the volume of downstream analysis - cost and time-effective

Increases structural variability and opportunity to find Hits

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Computational platform and methodology

Experimentally validated predictions

ChemPass AI FOR Ag

Predictions verified by wet assays

Protein Target Selection

- 'TargetSelector'1
- Target validation

Small Molecule Identification

- 'PointHit'
- in-vitro screening
- in-vivo screening

Small Molecule Optimization

- **'ActiveSearch'**
- **De-novo[2]**
- Tox & Ag models
- Greenhouse and field studies

Leading compounds for pre-development

Output: Better hits and novel chemistries

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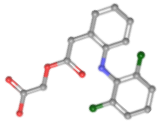
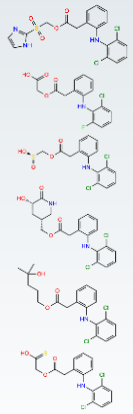
ActiveSearch - Optimization Tool

Input

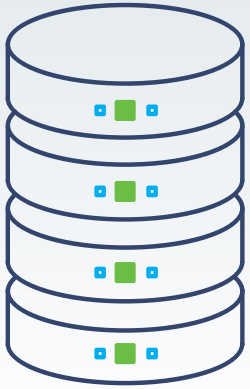
molecule/s



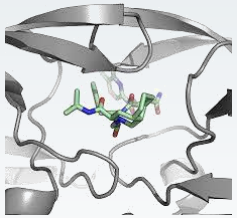
Bio-isosteres
generation



Ultra large DB
purchasable
compounds

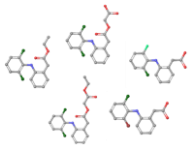


Structure based analysis
(Docking)



Output

List of top scoring purchasable compounds



Output: List of top scoring purchasable compounds

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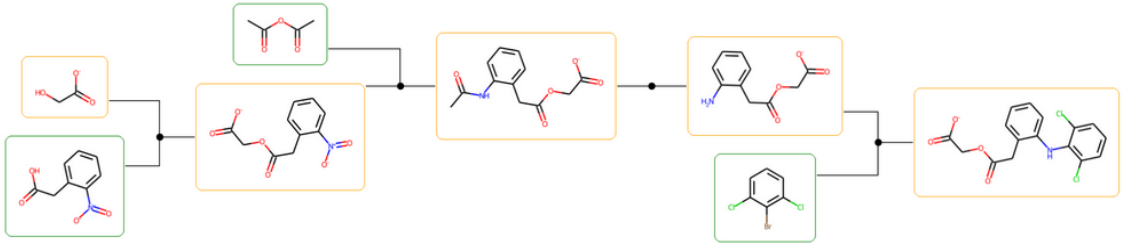
De-novo Design

Generative AI for entirely new chemistries

De-novo design of new chemical entities:

- Generative AI creating entirely **new chemistries** trained on deep learning of results from previous steps
- Results are not limited by existing chemistry or the training sets



Output: Entirely new chemistries

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Business Strategy

- AgPlenus is a collaborative company, building financial rights in a collaborative pipeline
- We focus on discovery of novel targets, generating active hits and optimizing them, while our partners focus on advanced optimization and development
- Through partnering, we leverage the development, regulatory and commercial capabilities of our partners to generate a significant pipeline of products
- We focus on broad scoped blockbuster products, with peak sales of no less than $750M in current terms

Partnership Opportunities

Full R&D capabilities companies	Interest in partnering for earlier innovation	Generic companies	Discovery companies
BASF, BAYER, CORTEVA agriscience, syngenta, FMC	UPL, Nufarm, SUMITOMO CHEMICAL	Gowan, Nutrien, KUMIAI, SIPCAM, ADAMA, Albaugh Your Alternative	biologicals, enko, moa
Opportunities New projects, identified targets, SAR, pipeline projects	**Opportunities** Pipeline projects	**Opportunities** Pipeline projects	**Opportunities** Target identification, hit ID, optimization

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Business Model

Collaboration and Licensing agreement

- Co-development utilizing AgPlenus' and partner's capabilities
- Flexible entry point along development path
- Revenue via upfront fee, R&D reimbursement, milestones, royalties

Licensing Agreement

- Development up to Lead optimization, by AgPlenus
- Hand off to partner
- Revenue via license, milestones, royalties

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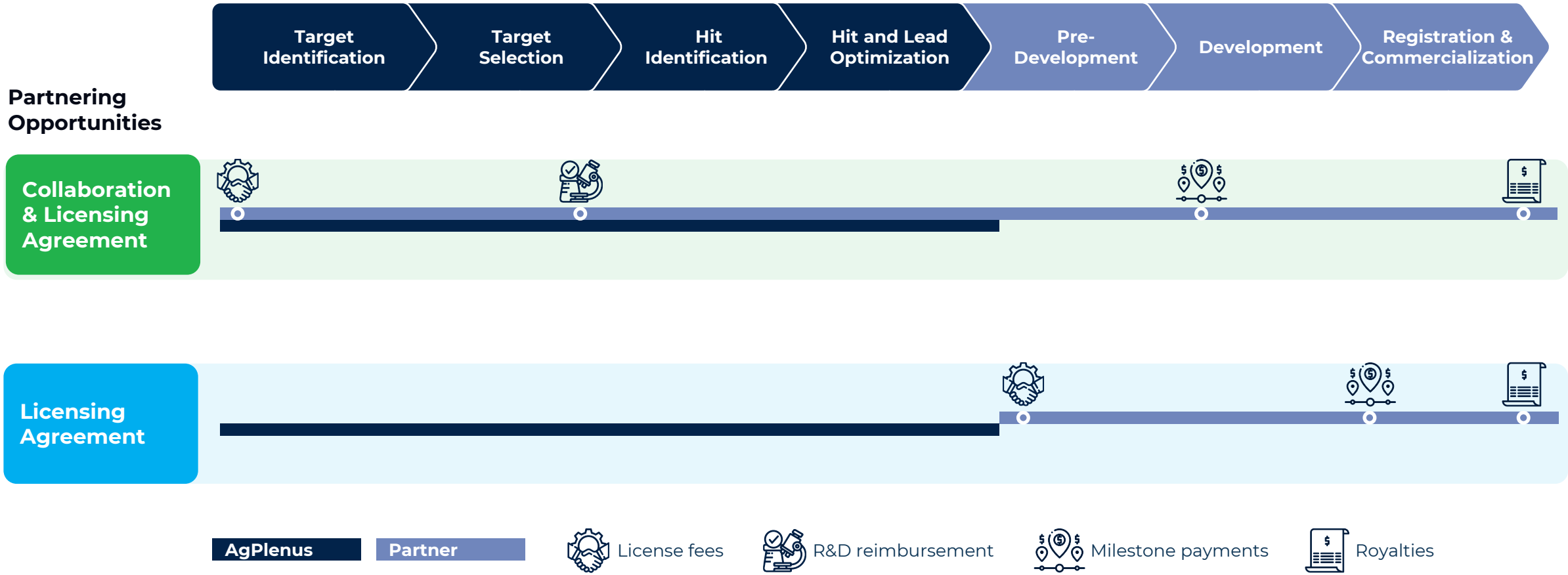
Revenue streams



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Our Focus - Blockbusters

Broad Spectrum Herbicides

Market opportunity

- Total herbicide - $42.8B[1]
- Resistance to current top products
- Regulatory and legal issues with Roundup®

Major markets

- North America, Latin America
- Needs in all major global regions

Wheat Blotch Fungicide

Market opportunity

- Total fungicide market - $20.8B[2]
- 70% of EU fungicide usage in wheat is for Wheat Blotch[3]
- EU market alone >$1.2B annually[3]
- Widespread resistance to current top products ('Strobilurins') with 2023 sales of $4.4B[4]

Major markets

- Europe, Asia
- Needs in all major global regions

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1) https://www.mordorintelligence.com/industry-reports/global-herbicides-market-industry?gclid=EAIaIQobChMIqL--hsHMgAMVoJODBx2ZLQeZEAAYAiAAEgLXqvD_BwE

2) https://www.databridgemarketresearch.com/reports/global-insecticides-market

3) TRESEARCH| SUMMER 2019| VOLUME 14 : NUMBER 2

4) Research Reports world: Global Strobilurin Fungicide Market Research Report 2024

AgPlenus Pipeline

Product Partner Type	Protein Name	Discovery: Protein Identification & Selection	Discovery: Hit Identification	Discovery: Hit & Lead Optimization	Pre-Development
HERBICIDES					
Broad Spectrum BAYER	APTH-1	*Stage confidential*	Licensed as hit		
Broad Spectrum CORTEVA™	APCO-12	*Stage confidential*	Milestone reached		
	Other	*Stage confidential*			
FUNGICIDES					
	APTF-1				
Wheat blotch	APTF-2				
	APTF-3				

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Completed | In process | Completed | In process

Collaboration and Licensing Agreement

Develop new MoA herbicides to target resistant weeds

- Started in March 2020
- AgPlenus to discover & optimize herbicide candidates
- Corteva to conduct testing & product development

License to Corteva

- Corteva has exclusive license to products of collaboration
- AgPlenus receives rights to research fees, milestones & royalties upon commercialization

Collaboration and Licensing Agreement

AgPlenus Announces Licensing & Collaboration Agreement with Bayer to Develop a New Sustainable Weed Control Solution

NEWS PROVIDED BY
AgPlenus Ltd. →
21 Feb, 2024, 07:00 ET

The collaboration will tap into the potential of artificial intelligence (AI) to design and optimize crop protection chemistry, developing a novel sustainable Mode-of-Action (MoA) broad-spectrum herbicide for farmers

Herbicide program -APTH1

APH1 demonstrated high weed control efficacy and good tolerance in Corn (Figure B)

Status

- **Significant agreement signed with Bayer in February 2024 for APTH1 program**
- The license and collaboration agreement indicates the vote of confidence in AgPlenus' computational approach to expedite the discovery and development of pesticides

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The Management Team

Innovative & Experienced Management Team

Dan Gelvan| CEO

Previous positions:
- t-syte, CEO
- Aurum Ventures, MD
- Biobeat, Chairman

Merav Beiman, PhD | VP R&D

Previous positions:
- ImmPACT-Bio, CEO
- Ferring, R&D
- Compugen, R&D
- QBI, R&D

Mirit Ram, MSc | VP Portfolio Management

Previous positions:
- Evogene, PM
- FMC, PM
- HP, R&D

Yaron Elad | CFO

Evogene, CFO
Previous positions:
- Yamba Group Int. Ltd, CFO
- Recoly NV, CFO
- e-Sim Ltd., CFO

Liat Foigel Wejgman | VP HR

Evogene, VP HR
Previous positions:
- Evogene, Director of HR
- Beta Media, HR

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Board

Board of Directors

Ofer Haviv | Chairman of The Board

- Evogene, President & CEO

Adrian Percy | Director

- North Carolina Plant Sciences Initiative (N.C. PSI), Executive Director
- Board of Directors: Evogene, BioLumic, Nufarm, FA Bio
- Previously: UPL, CTO
- Previously: Head of R&D, Bayer

Eran Kosover | Director

- Atera Networks
- Previously: AgPlenus Ltd., CEO
- Previously: Evogene, EVP & GM Crop Protection

Robert A. Woods | Director

- Former Chair of Marrone Bio Innovations,
- CEO and Chair of Targeted Growth Inc.
- Former Chair of Syngenta Corp, US

Scientific Advisory Board

Prof. Bill Jorgensen, PhD

Sterling Professor of Chemistry at Yale, renowned for his computational work on force fields, molecular recognition, protein-ligand binding, de-novo drug design and FEP calculation for lead optimization

Prof. Hanoch Senderowitz, PhD

Professor of Computational Chemistry at Bar-Ilan where he leads a laboratory focusing on molecular modeling, computer-aided drug design, and chemoinformatics.

Hans J. Santel, PhD

Herbicide expert, with extensive professional experience in development and marketing at Bayer CropScience. Hans holds a diploma and PhD from Albert Ludwig University of Freiburg with a focus on plant physiology and biochemistry

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Summary

- 6 novel pesticides in development, 3 herbicides & 3 fungicides
- Partner of two AgChem multinationals for developing broad-scope herbicides
- Revolutionary AI tech-engine, combined with advanced biology and chemistry platform
- Continuously evolving tech platform improvements
- Target-based design with new MoA for sustainable and resistance-breaking products
- Flexible business model
- Time and cost-saving discovery approach

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THANK YOU

www.agplenus.com