

UPDATED COMPANY PRESENTATION – FEBRUARY 2023

Bio-Gene Technology Limited (ASX: BGT, “Bio-Gene”) is releasing the attached Updated Company Presentation in anticipation of a series of ongoing Company briefings which will take place over the next couple of weeks.

The Presentation is on the Bio-Gene website and attached.

Approved for release by the Board of Directors.

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About Bio-Gene Technology Limited

Bio-Gene is an Australian agtech company enabling the next generation of novel insecticides. Bio-Gene’s novel platform technology is based on a naturally occurring class of chemicals known as beta-triketones.

Beta-triketone compounds have demonstrated insecticidal activity (e.g., kill or knock down insects) via a novel mode of action in testing performed to date. This platform may provide multiple potential new solutions for insecticide manufacturers in applications across crop protection and storage, public health, animal health and consumer products. The Company’s aim is to develop and commercialise a broad portfolio of targeted insect control and management solutions.

ENABLING THE NEXT GENERATION OF NOVEL INSECTICIDES

BIO-GENE TECHNOLOGY LIMITED

Addressing the needs of an impending catastrophic problem of pest resistance through the development of unique chemistry

PRESENTED BY

Richard Jagger

CEO



BIO-GENE
TECHNOLOGY
LTD



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OUR VALUE PROPOSITION

Bio-Gene has a Compelling Value Proposition

VISION:

We want to contribute to a world that provides a viable future with enhanced quality of life for everyone. We will do so by creating solutions to address the impact of insects and other pests on food security and good health

MISSION:

Revolutionising the impact of insect damage in food security and public health settings by developing methods of dealing with insecticide resistance in a safe effective and environmentally friendly manner



Natural chemistry is significantly growing in demand by consumers and suppliers



Novel Mode of Action unseen before, proven efficacy



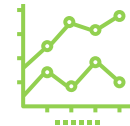
In late 2022 confirmed ability to manufacture at commercial scale



Third-party validation of technology by multiple tier-1 partners
Clark
Evergreen
STK



Strong IP Portfolio with patents out to 2038



Market Cap of \$18.0m (Dec 31st)



Cash at Bank of \$4.3m providing 12-month runway (plus \$443K R&D rebate)



\$31.1bn global opportunity for insecticides across five verticals

OUR STRATEGIC OBJECTIVE

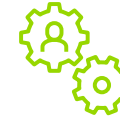
Bring our unique chemistry to market in partnership with major players and generate multiple revenue streams from technology licensing fees, milestone payments and royalties by



Securing the active ingredient product registrations



Working with strong commercial partners on product development; marketing and distribution



Developing proprietary manufacturing and production know-how



Potential partnership agreements across multiple geographies and different end-use markets, with collaboration programs now underway in two of our target segments

ADDRESSING SIGNIFICANT GLOBAL CHALLENGES

The effectiveness of current insecticides is diminishing due to resistance & concerns relating to safety profiles



“Without Crop Protection, crop losses would double each year”

CropLife



“No new public health insecticides have been developed for mainstream vector control for 30 years”

CDC⁴

Food Security & Public Health

Growing Population

Current global population is 8 billion, growing at 70 million p.a. It is anticipated that global population will reach nearly 10 billion by 2050¹.

Challenges Of Climate Change

Climbing average temperatures & other weather events impact food production per hectare, increase the habitable environment for mosquitoes

Financial Impact

Production

Currently 20-40% of food produced globally is lost to pests, valued at around US\$2000 billion p.a.^{2,3,4}.

Cost/Benefit

Direct costs due to Malaria infections valued at US\$12 billion p.a., with economic impact many times that⁵

Social Impact

Vector Borne Disease

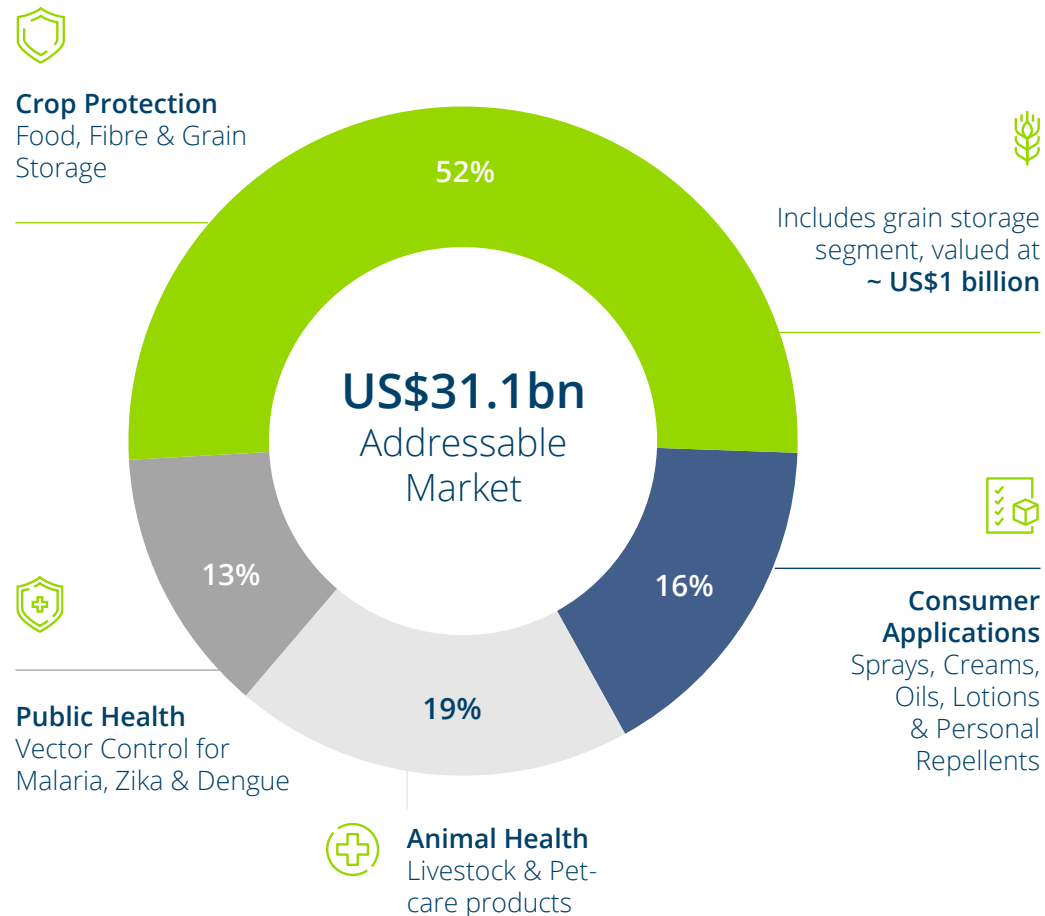
More than half the world is at risk⁶; account for 25% of infectious diseases & exacerbate poverty & economic hardship. Potential to grow beyond 50% under climate change scenarios⁷

Less Arable Land

Increased population puts pressure on available land & resources to produce food for today and tomorrow

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1. United Nations, “World Population Prospects 2019”
 2. Oerke EC, Crop Losses to pest J. Agri Sci 144: 31-43 (2005)
 3. Pimentel D Pesticides and Pest controls. In: Peshin R, Dhawan AK. (eds). Integrated pest management: innovation-development process, 1:83-87. Springer Science (2009)
 4. Food & Agriculture Organization of the United Nations, 2023
 5. CDC: Malaria's impact worldwide
 6. WHO report, 2015
 7. 6. IPCC6th assessment report: Climate Change 2022: Impacts, Adaptation and Vulnerability, February 2022

OUR TECHNOLOGY ADDRESSES THESE CHALLENGES AND TARGETS GROWING GLOBAL MARKETS



Bio-Gene's insecticide platform has potential application in large, global market segments estimated to represent a total addressable market valued at over US\$31.1 billion



OUR TECHNOLOGY PLATFORM

We are developing two products that allow entry into five key market segments



Qcide™

Natural Compound

An extract of a specific cultivar of eucalypt, the Gympie Messmate

Trees are farmed in concentration by sub-contractors in QLD

The leaves contain oil expressing high levels of Tasmanone, a natural compound that has shown evidence of insecticide efficacy



Flavocide™

Nature Identical Compound

BGT has developed a proprietary chemical process with CSIRO to deliver another Beta-Triketone; a nature identical compound that is able to be produced at commercial scale



Both of our products have potential application in all five of our target market segments

CURRENT PARTNERSHIP – PUBLIC HEALTH: CLARKE MOSQUITO CONTROL

Clarke is the largest vertically integrated company in public health mosquito control

Results of Phase 2 Testing

Very positive results indicated the suitability of Bio-Gene products as mosquito control technology

Target formulations identified for progression to Phase 3 field trials

Confidence for both companies to move forward with commercial development

Commercial Development Agreement Signed

Development of novel formulations

Phase 3 field testing

Agreement is for the U.S. market

Cost of studies borne by Clarke, with shared report of results

Next Steps

Clarke undertaking Phase 3 trials (somewhat weather dependent) using new formulations

Field studies designed to confirm suitability of laboratory developed formulations for field use & EPA registration

Excellent collaboration between the two companies

Market Opportunity

Initial Field of Use: US\$100m¹

Global market \$650m¹



¹ Global Mosquito Control Market, Research Report 2020, Forecast to 2026

CURRENT PARTNERSHIP – CONSUMER PRODUCTS: EVERGREEN GARDEN CARE

Evergreen is a market leader in consumer products across Europe and in Australia/New Zealand

Initial Field of Use

Fly & mosquito electric evaporator
Ant bait gel and ant spray
ROFR to negotiate additional applications within consumer market

Initial Territory

E.U., U.K., ANZ
ROFR to negotiate additional territories within consumer market



Other market opportunities

With Evergreen we are actively exploring additional market opportunities to add to our agreement

Revenue Model

Up-front licence fee
Milestone payments prior to registration
On-going royalties on end-use product sales
Development costs borne by Evergreen

Next Steps

Continue development of market opportunities
Collaborate on registration activities
Strong relationship is emerging between the two companies

Market Opportunity

Initial Field of Use:
US\$600m¹

Total European consumer insecticide market: US\$2b¹

NEW AGREEMENT SIGNED WITH STK BIO-AG

CROP PROTECTION, AQUACULTURE & PROFESSIONAL TURF

Key Value Points for Bio-Gene

Licensing arrangements

Bio-Gene grant STK a world-wide non-exclusive licence to develop Qcide for Crop Protection, aquaculture, & professional turf & ornamental markets

Key markets for Qcide are those that see true value in a 100% natural product – i.e. Public Health & Consumer, both driven by end user sentiment. These (and other markets) have been retained exclusively by Bio-Gene.

Significant market opportunity

Crop Protection globally is a US\$16.6 B p.a. business¹.

Flavocide offers the best opportunity for product solutions in this segment. Qcide can be offered to our partners where they identify specific opportunities

Registering Active Ingredient

Under the agreement, STK will fully fund registration costs for Qcide globally, & own A.I. registration

This creates a substantial saving to Bio-Gene on the road to market access.

Bio-Gene has full access to the registration to work with partners exclusively in public health, consumer, animal health etc, & non-exclusively in crop protection, aquaculture & professional turf & ornamental markets

Bio-Gene can focus resources on Flavocide registration

Where we have interest in Crop protection, the focus (& exclusivity) on Flavocide will give us an advantage

Bio-Gene retains IP relating to Qcide

Opportunities to expand manufacturing capabilities

STK & Bio-Gene will work together to expand production globally. Our strategy has always included multiple production facilities to manage risk and logistics.

Having STK fund a new facility creates substantial savings in money and resources

Agency Opportunity

Explore agency opportunities for STK products which can create an early revenue stream for Bio-Gene

¹ Fortune business insights, 2021: Crop protection chemicals market size... 2021-2028.



STK applies advanced botanical science and bio-ag technology in the development & commercialisation of natural crop protection solutions for growers worldwide.

Based in Israel & founded 30 years ago, STK has operations and product registrations in more than 30 countries.

OTHER ADDITIONAL OPPORTUNITIES STORED GRAIN PROJECT

Grains Research and Development Corporation (GRDC) Department of Agriculture and Fisheries - Queensland (DAF)

Results of Phase 3 testing

Data show the ability for Flavocide, when used in combination (at low rates) to control the full range of stored grain pests over 9 months for susceptible strains and 3-9 months for resistant strains (commercially acceptable time frame).

Further Discussions

Bio-Gene is discussing next steps with potential partners to progress the commercial development of Flavocide as a stored grain protectant

Bio-Gene is in discussions regarding further support from GRDC



Field testing completed
Nov/Dec 2021

Final reporting on these
results reported in
March 2022

Positive outcome allows
us to move forward

**Significant global
potential (A\$1b)¹**

EXPECTED KEY VALUATION CATALYSTS - NEXT 6 TO 24 MONTHS

STK signing & commencement

Likelihood of significant non dilutive financings

Additional IP filings

Publication of key efficacy & Mode of Action data

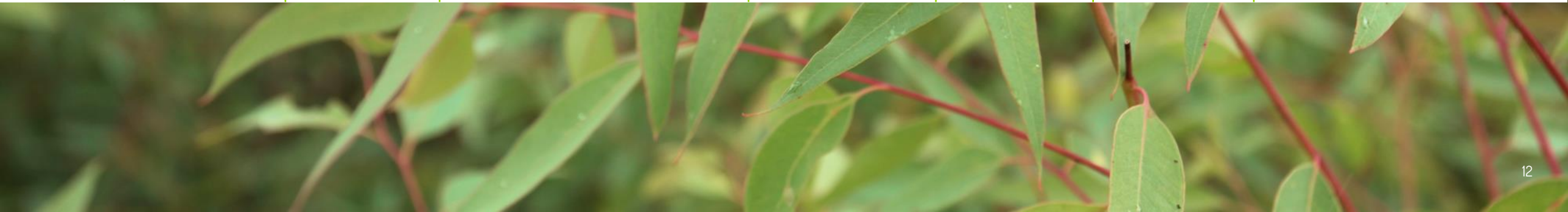
Additional commercial partnerships

Clarke results

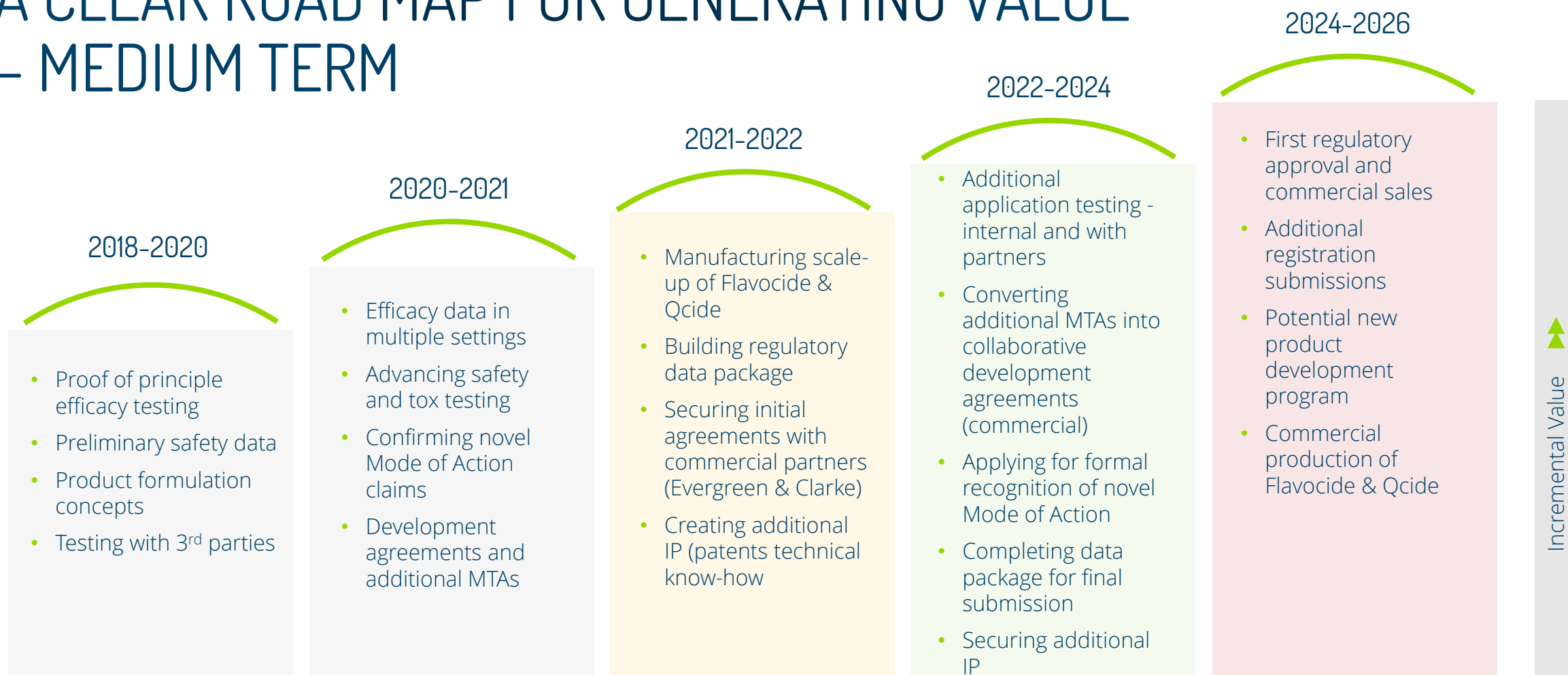
Advancing our regulatory applications with governing bodies

Manufacturing partnerships

Evergreen results



A CLEAR ROAD MAP FOR GENERATING VALUE – MEDIUM TERM



POTENTIAL UPFRONT AND MILESTONE PAYMENTS, LICENSING FEES



AND ROYALTIES

Incremental Value

SUMMARY

- New Mode of Action and “nature identical” technology that delivers solutions critical for pest management globally
- Business model based on controlling IP and registration / partnering with majors.
- Bio-Gene now has commercial validation from three key companies in different market segments – crop, consumer, public health
- Third deal with STK represents a significant milestone for Bio-Gene
 - Leaders in development of biological solutions for agriculture & applicable expertise
 - Significant financial commitments that allows Bio-Gene to focus on core opportunities – Flavocide (all markets) Qcide (Public Health & Consumer)
 - Potential for distribution rights in Australia/NZ of STK products could deliver early revenue streams
- Strong IP position with a strategy to grow
- Defined regulatory pathway
- Manufacturing capability which can now be applied to additional molecules of interest
- Strong news flow anticipated through 2023 to validate our strategy and deliver further inherent value

ENABLING THE NEXT GENERATION OF NOVEL INSECTICIDES

BIO-GENE TECHNOLOGY LIMITED

BIO-GENE
TECHNOLOGY
LTD



THANK YOU

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