

# Bio-Gene Technology Limited | ASX: BGT

## Annual General Meeting

Developing new insecticides derived from nature to achieve high impact worldwide.

FY2024

## Presentation

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Managing Director & CEO



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# Company Highlights

Focused development of two new insecticides with strong commercial validation.

## 01. Two New Actives

Late-stage development: two insecticidal compounds **derived from nature with novel modes of action:**

- » **Flavocide®** and **Qcide®** are derived from a unique sub-type of eucalypt
- » effectiveness against some major insect pests with resistance to standard products
- » Strong drivers are increasing the demand for **safer and more environmentally friendly** products

## 02. Large Target Markets

**Crop Protection** (incl. Grain Storage), **Public Health**, **Consumer**, **Animal Health**, total addressable markets of \$31B, as **both stand-alone and combination** products<sup>1</sup>

## 03. Focused Pipeline

Pipeline of eight (formulated) product opportunities:

- » Public Health – vectors for disease
- » Crop Protection, Aquaculture, Professional Turf and Ornamentals
- » Grain Storage Protection
- » Consumer (home & garden)

## 04. Strong Partnering Progress

Three partnerships to date:

- » Clarke Mosquito (US), Evergreen Garden Care (EU, UK, AU & NZ), STK (Israel)

1. US EPA 2017, WHO 2017, Zoetis & Provue Market Research, Markets & Markets  
2. Qcide® and Flavocide® are registered trademarks of Bio-Gene Technology Limited.



# Our Unique Products Derived from Nature

01

## Qcide®

Qcide is an 100% natural oil extracted from the leaves of a specific cultivar of eucalypt (*Gypmie messmate*) currently farmed in northern Australia.

✓ *12<sup>th</sup> harvest in QLD completed in 2024*



02

## Flavocide®

Flavocide is based on flavesone, a naturally occurring plant compound synthesised via a proprietary process that allows production in large volumes for global demand.






✓ *Pilot-scale production completed at Rallis India Ltd*



Patent families owned by Bio-Gene include: (1) Control of resistant pests.(2) Use in synergistic combinations, (3) Control of specific pests e.g., aphids, (4) Ovicidal activity against insect pests e.g., mites, bed bugs. Territories: Australia & New Zealand, USA/Europe, Latin America (Brazil), Asia (China), Africa (RSA)

# Flavocide & Qcide – Multiple Market Segments

Bio-Gene is targeting five large well-developed global markets








Sectors					
	Crop Protection	Grain Storage	Public Health	Consumer Applications	Animal Health
	Food & Fibre	Stored Grain	Vector Control for Malaria, Zika & Dengue	Urban Pest Management, Oils, Lotions & Personal Repellents	Livestock & Pet-care Products
Size (US\$) & % of \$31.1B	\$16.1B 52%	\$1.0B 3%	\$4.0B 13%	\$4.1B 13%	\$5.9B 19%
Current Products & Challenges	<p>EU import restrictions (e.g. Omethoate for red-legged earth mite in Canola)</p> <p>Secondary regulation imposed by food chain (Aldi)</p> <p>Consumer and regulatory pressures</p>	<p>Pyrethroids, phosphine, organophosphates, etc.</p> <p>High levels of resistance in lesser grain borer, flat grain beetle, rice weevil</p>	<p>e.g. Bifenthrin, deltamethrin, pyrethrins, etc.</p> <p>Mosquito control market projected to grow by 38% between 2021-26<sup>1</sup></p>	<p>Mineral oils, toxic synthetics (e.g. malathion), pyrethum based products etc.</p> <p>Home and garden uses, Shift towards safe (especially to children &amp; pets) and eco-friendly products to protect the environment</p>	<p>Japanese Encephalitis outbreaks</p> <p>Prevalence of ticks</p> <p>Consumer concerns for pet health</p>

1. Global Mosquito Control Professional Survey Report 2021, Forecast to 2026)



# Flavocide & Qcide – Our Pipeline

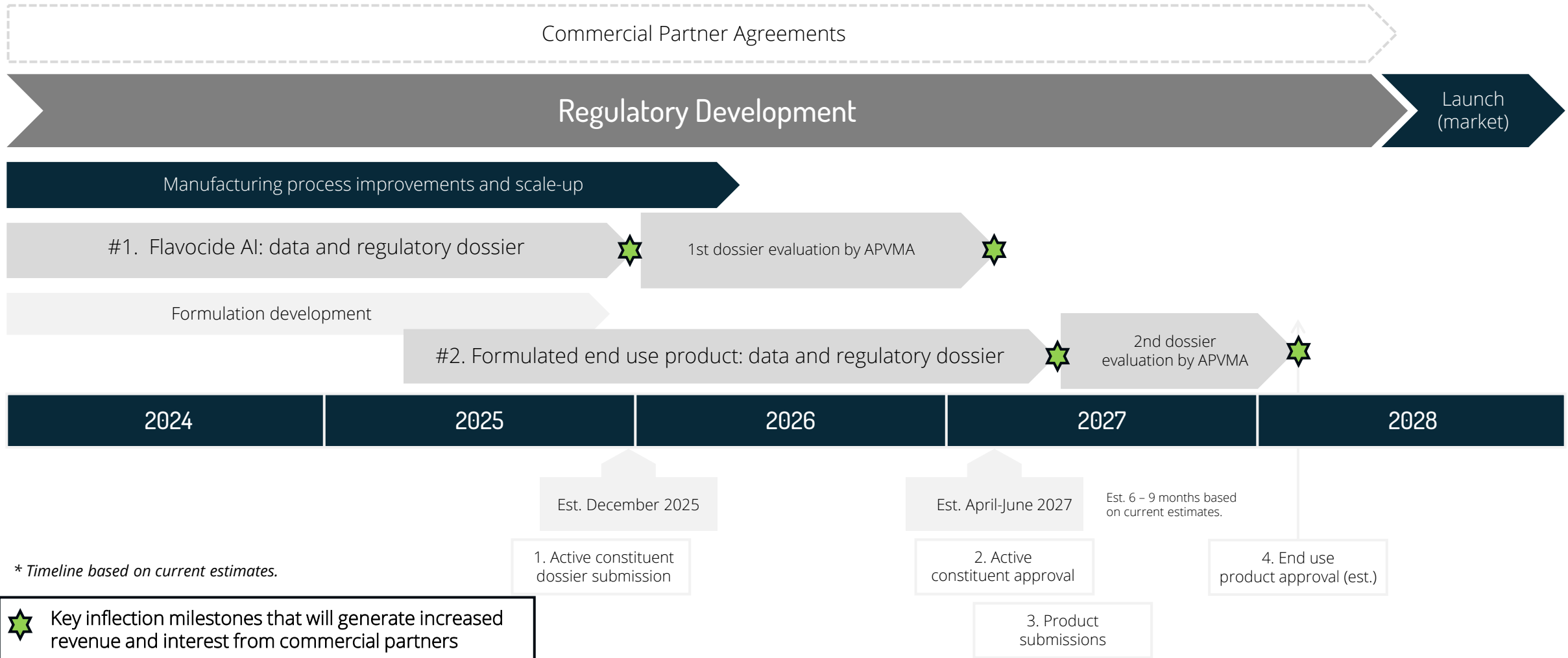
Bio-Gene is targeting five large well-developed global markets

Active constituent	Description		Sectors	Target uses	Partners & Collaborators
Flavocide	1	Grain Protectant	Crop protection	Admixture to grain	
	2	Outdoor Space Spray	Public health	Flying insects	
	3	Indoor Barrier Spray	Public health	Flying & crawling insects	
	4	Outdoor Barrier Spray	Public health	Flying & crawling insects	
	5	Indoor Space Spray	Consumer	Flying insects	
Qcide	6	Indoor Space Spray	Consumer	Flying insects	
	7	Outdoor Barrier Spray	Consumer	Flying insects	
	8	Outdoor Garden Spray	Crop protection & Consumer	Fruit & vegetables, ornamentals	 

BGT is also investigating other potential use patterns, product extensions and combinations with other active ingredients.

# Flavocide Development Path

Regulatory approval of a formulated product is a two-step process.





# FY24 & Recent Achievements

8 August 2024

Study plans for Flavocide on track following APVMA feedback

ASX ANNOUNCEMENT  
8 August 2024

**BIO-GENE**  
TECHNOLOGY  
LTD

**Bio-Gene's registration plans for Flavocide® on track following APVMA feedback**

**Highlights**

- Studies planned for the Flavocide® insect control active ingredient regulatory dossier are confirmed following feedback received from the Australian Pesticides and Veterinary Medicines Authority (APVMA)
- APVMA provides assistance on the regulatory requirements to facilitate registration of new active ingredients
- Flavocide is a novel insecticidal active ingredient derived from nature being developed by Bio-Gene for use in public health, agriculture and by consumers



**Australian Government**  
**Australian Pesticides and Veterinary Medicines Authority**

14 August 2024

Envu collaboration to evaluate Flavocide for mosquito management



ANNOUNCEMENT  
14 August 2024

**Bio-Gene and Envu collaborate to evaluate Flavocide™ for use in public and private sector mosquito management**

**Highlights**

- Joint collaboration evaluating Flavocide™ for mosquito management across a range of professional applications
- Flavocide complements the product pipeline of forward-thinking effective chemistries Envu offers for the global professional non-crop market
- Flavocide shown to effectively control mosquitoes

2 September 2024

Flavocide production successful at pre-commercial scale



ASX ANNOUNCEMENT  
2 September 2024

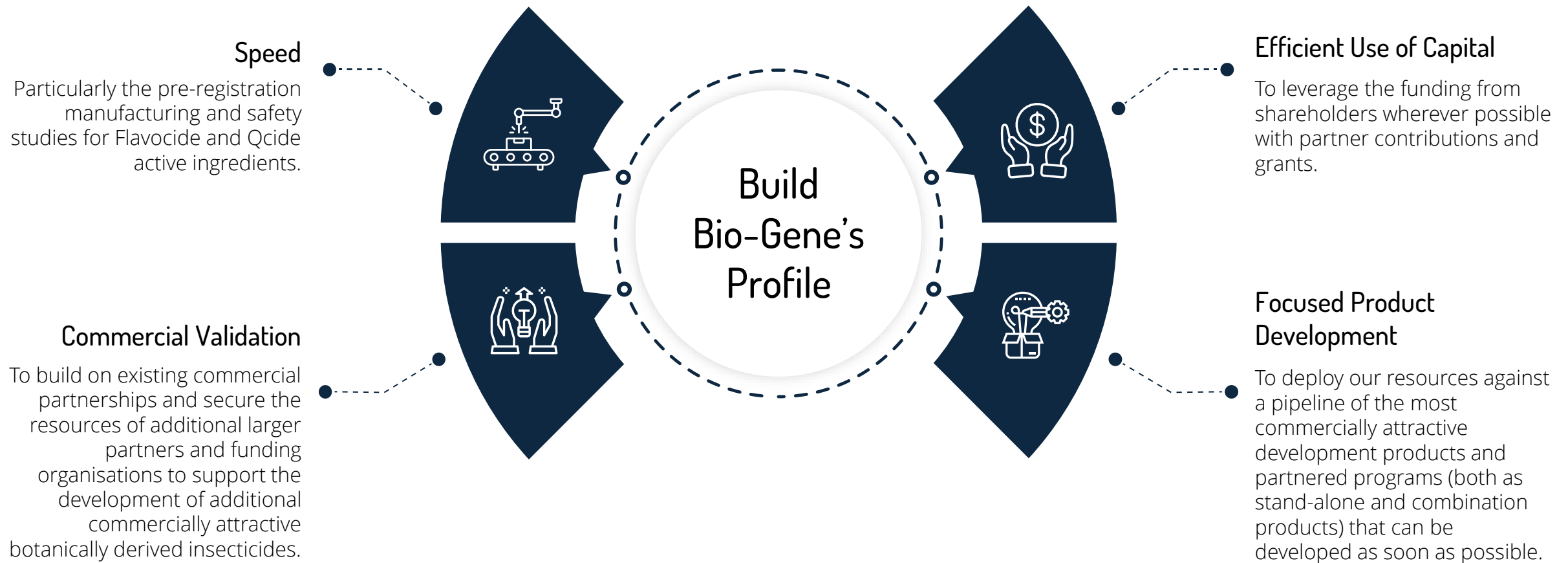
**Bio-Gene and Rallis India Limited achieve key Flavocide® production milestone**

**Highlights**

- Successful pilot-scale production of Flavocide® conducted by Rallis India Limited, one of India's leading Agri-sciences companies and a subsidiary of Tata Chemicals Limited
- Demonstration that Flavocide® can be produced at a consistent quality and yield at precommercial scale
- Flavocide® produced by Rallis India Limited to be used in planned testing activities to advance the registration process for Flavocide®
- Capacity to produce Flavocide® in sufficient quantities for future supply to Bio-Gene's commercial licensees

# Bio-Gene's Strategic Priorities

Strategy is focused on efficient development and approval of Flavocide and Qcide, with more commercial partnerships.



# Key Forward Milestones & News Flow

Bio-Gene has many catalysts to drive value over the next 18 months, with a strong pipeline of near-term news flow.

01

## Flavocide & Qcide development

- ✓ Flavocide regulatory studies (multiple)
- ✓ Submission of Flavocide regulatory dossier in Australia
- ✓ Flavocide scale-up milestones
- ✓ Qcide regulatory development milestones
- ✓ Qcide scale-up and harvest/processing progress
- ✓ Regulatory milestones

02

## Partnering & commercial

- ✓ New commercial partnerships
  - Crop & grain storage
  - Vector control
  - Consumer uses
- ✓ Expansion of current licenses
- ✓ Receipt of milestone payments
- ✓ Patents granted

03

## Funding & other support

- ✓ Grant funding successes
- ✓ Synergistic program/product opportunities
- ✓ International funding support & validation

# Questions?



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Proxy Summary Report as at 27-Nov-24

