



A world-leading material technology company

PureGRAPH® - Revolutionising material performance

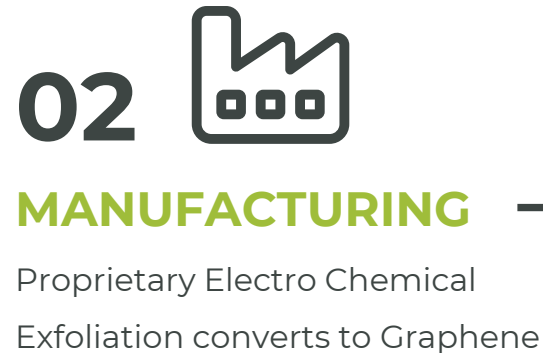
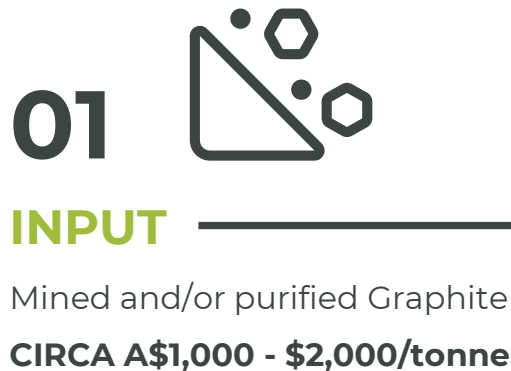
SEPTEMBER 2025



About First Graphene

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- **Materials technology** company – more accurately described as a value-add manufacturer
- Convert mined Vein Graphite, or purified Flake Graphite into Graphene, Graphene Nanoplatelets and Carbon-based nano material additives
- World-leading developer and manufacturer of **high-quality & commercial-scale** graphene, called **PureGRAPH®**
- **PureGRAPH®** is **an additive that enhances material performance and properties of customers' products**
- **Graphene** is an allotrope of carbon, in its purest form, consists of a single layer of atoms in a 2D honeycomb lattice



About Graphene

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Remarkable properties of graphene



Flexible

Stretches up to 20%



Thin

0.345nm or one carbon atom thick



Transparent

Absorbs only 2.3% of visible light



Impenetrable

Fully impermeable barrier, even to helium gas



Strong

200 times stronger than steel



Electrically conductive

1 million times more conductive than copper



Thermally conductive

5,000 W/mK in all directions (isotropic)



Fire retardant

Enhanced retardancy to fire and heat

Client applications using graphene



Cement and concrete



Polyurethanes



Perovskite solar cells



Composites



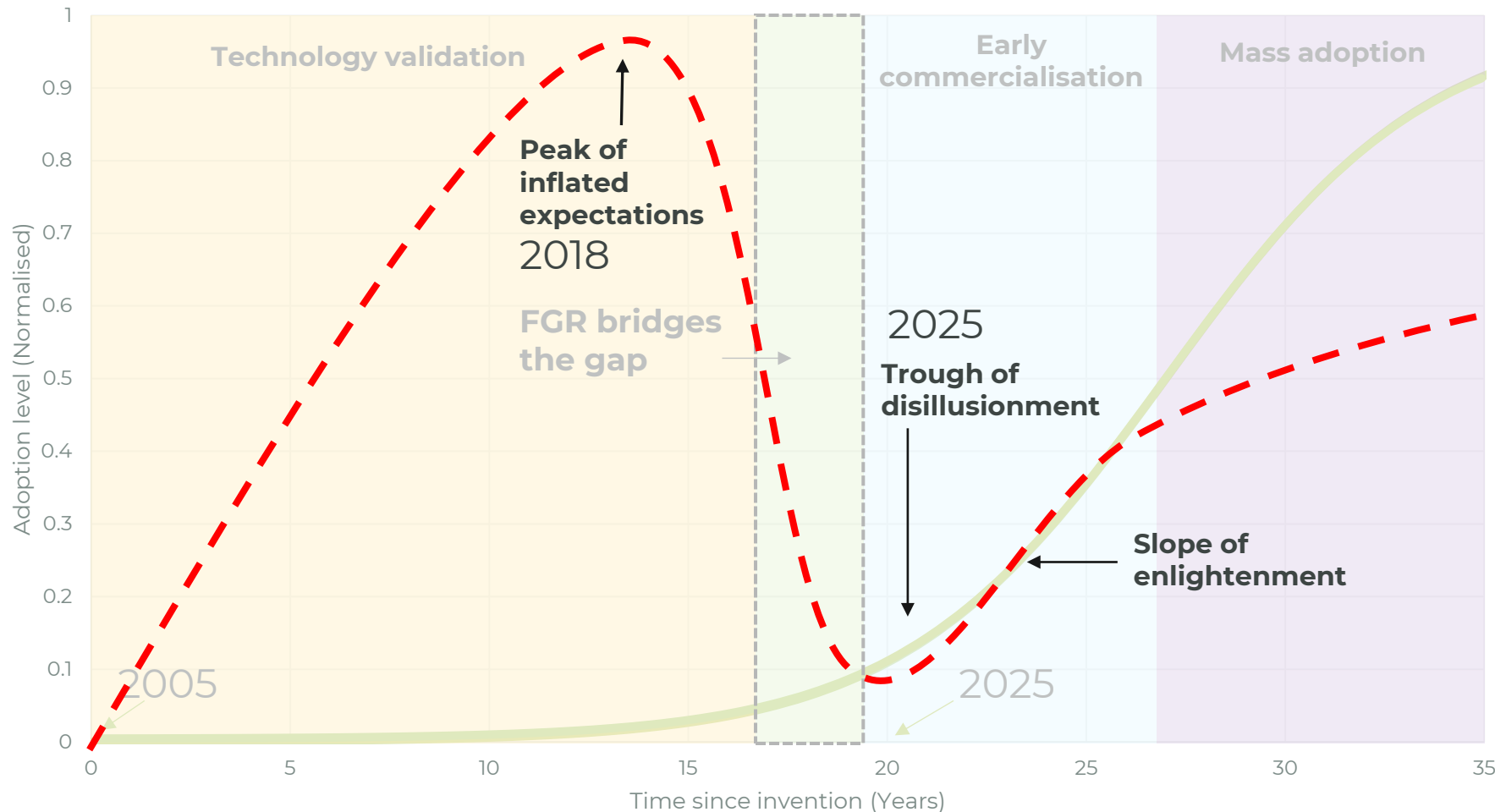
Flexible printed circuit boards

Discovery to deployment

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Commercial adoption of graphene

Discovery to deployment Commercialisation Gartner hype curve



Technology examples

Plastics

- Invented **1907** (first fully synthetic)
- Early adoption and **rapid growth** after 1945
- **~ 40 years** before significant growth

Carbon fibre composites

- Invented **1958** (ref)
- Early commercial adoption and **rapid growth** in mid 1980's
- **~ 25 years** before significant growth

Silicon microchip

- Transistor invented in **1947**
- **First commercial use** in 1961 (**military/aerospace**)
- Commercially available for **general purpose** in 1971 (Intel 4004)
- **~ Between 15 and 25 years** before significant growth

From validation to commercialisation

Challenge	First Graphene's strategic response
Scale of production	Developed and deployed a proprietary process at a commercial production facility in Australia with 100tpa capacity
Cost	Industrial-scale production reduces unit costs , making PureGRAPH® commercially viable for high-volume applications
Quality and consistency	PureGRAPH® product line delivers consistent morphology, purity and particle size due to rigorous quality control
Regulatory approval	Reach registration in the EU and UK , and AICIS approval in Australia , with EPA registration underway



Key growth opportunities and pathway

INDUSTRY APPLICATION	EXISTING ENGAGEMENTS	NEXT 12 - 18 MONTHS	OPPORTUNITY (\$)
CEMENT AND CONCRETE	<ul style="list-style-type: none"> UK Highways program to reduce CO2 emissions from national roads 	<ul style="list-style-type: none"> Move from trial to adopted technology within the UK cement segment. 	<ul style="list-style-type: none"> Opportunity pipeline in development and commercialization – circa \$500m
	<ul style="list-style-type: none"> UK Rail Project using precast panels. 		
	<ul style="list-style-type: none"> Commercialization of Graphene enhanced Cement with Breedon Group. 		
COMPOSITES / POLYMERS	<ul style="list-style-type: none"> Glass Fibre/Carbon Fibre composite additives – expand into parallel products including tanks, pressure pipes, drilling tools, prepreg carbon fibre etc. 	<ul style="list-style-type: none"> Complete development and launch commercially. 	<ul style="list-style-type: none"> Opportunity pipeline in development and commercialization – circa \$50m
	<ul style="list-style-type: none"> TPU masterbatch for use in outsoles for footwear. 	<ul style="list-style-type: none"> Build on existing work boot success to promote globally. 	
	<ul style="list-style-type: none"> Nylon friction wear pads to improve resistance and support sustainable operations. 	<ul style="list-style-type: none"> Supply agreement for friction wear pads. 	
	<ul style="list-style-type: none"> Thermal applications in automotive, energy, and industrial sectors. 	<ul style="list-style-type: none"> Expand into fire retardant polymers. 	
COATINGS / ELASTOMERS	<ul style="list-style-type: none"> Protective mining wear liners, screen media, conveyor belts and elastomer coatings with enhanced abrasion and corrosion resistance. 	<ul style="list-style-type: none"> Secure supply contract into conveyor belt, screen media and polyurethane coating applications. 	<ul style="list-style-type: none"> Australian market size of >\$50m in annual graphene sales
ENERGY GENERATION AND STORAGE	<ul style="list-style-type: none"> Industrial-scale production with Halocell Australia of lower-cost perovskite solar technology. 	<ul style="list-style-type: none"> Ramp period of first production units of cells and switch to roll-2-roll process. 	<ul style="list-style-type: none"> Global market size of \$10.5b

Note: this is a snapshot of key opportunities, with several others expected to mature in the near-term.

Expanding distribution network

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Extensive distribution strengthening global exposure and uptake of **PureGRAPH®**

- Actively working with **10 distributors** across the globe
- Distribution network provides robust **pathways to major markets**
- Unlocks channels and sales drive to **qualified and international customer base**
- Partnerships under consideration in **South Korea, UK, South America, Middle East, SEA, China and Canada**
- **Robust use case and data to back distributor type relationships...**



REGION	NORTH AMERICA	EUROPE	BRAZIL	SOUTH AFRICA	INDIA	VIETNAM	CHINA	AUSTRALIA	NEW ZEALAND
DISTRIBUTOR(S)	NEOGRAF	KEYSER & MACKAY	SUPER GRAFENO	<ul style="list-style-type: none">▪ NANOPROOF▪ ACT GRAPHENE SOLUTIONS	REINSTE NANO VANTURES	GSL HOLDINGS	GRAPHENE-RICH	<ul style="list-style-type: none">▪ FGR (WA)▪ BISLEY	<ul style="list-style-type: none">▪ BISLEY▪ GTM ACTION

Pipeline of opportunities

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350-500

Long lead enquiries
varying from 3 to 1 years

3 Years

2 Years

1 Year

25
Active
commercial
agreements

30
Active
clients

Financial performance

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Commercial momentum

- Ongoing increase in sales and consistent revenue growth
- Continued development sales to lead into recurring revenue
- Cement and concrete segment nearing to mature sales profile
- Diversified application opportunities expanding



Forward outlook

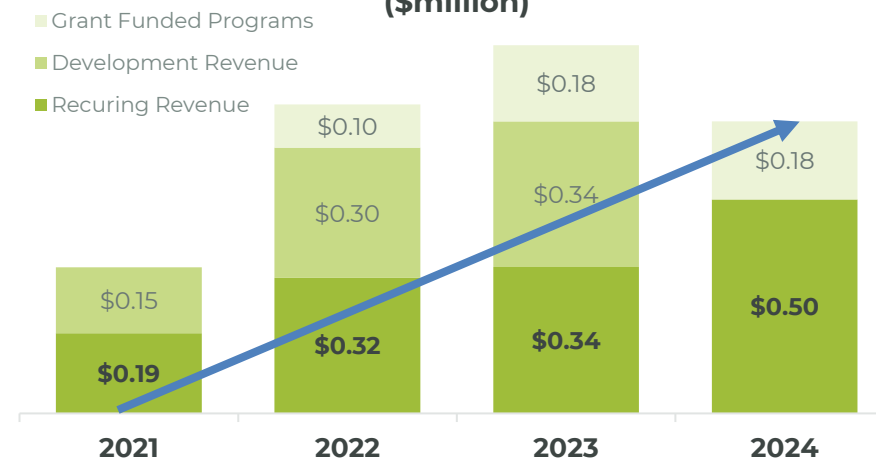
- Forecast income of circa A\$1.5m from existing client base, current development and grant programs
- Pipeline of opportunity over 18 – 24 months has potential of >A\$10m



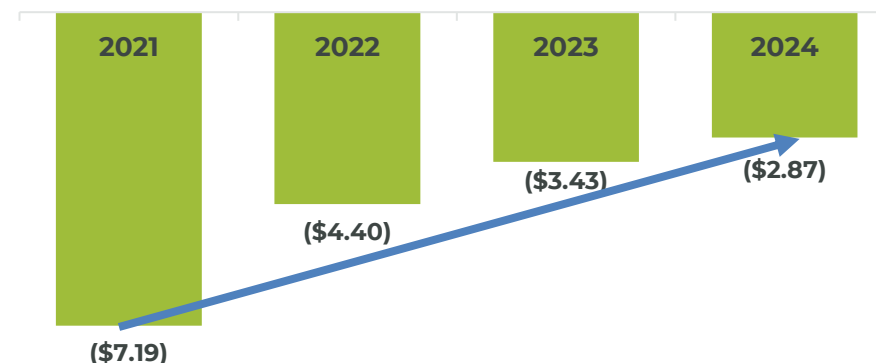
Corporate details

- Circa \$2.2m cash
- Shares on issue: 748.8m
- Share price A\$0.052⁽¹⁾
- Market capitalisation A\$41.54m

Recurring/Development/Grant revenue (\$million)



Operating & investing cash-outflow (\$million)



- **Broader commercial adoption of graphene is inevitable** - it's not a question of if, but **when**.
- As a **new materials platform**, graphene is following a **predictable adoption curve**.
- First Graphene has **bridged the critical gap** between validation and commercialisation.
- Graphene is entering the **early commercial growth phase as demand by industry grows**.
- First Graphene is **leading this transition**, with commercial adoption of **PureGRAPH®** underway.

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