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

01

INPUT

Mined and/or purified Graphite

CIRCA A$1,000 - $2,000/tonne

02

MANUFACTURING

Proprietary Electro Chemical

Exfoliation converts to Graphene

03

HIGH QUALITY OUTPUT

Graphene and carbon based

nanoplatelet materials

CIRCA A$50,000 - $1.2 million/tonne

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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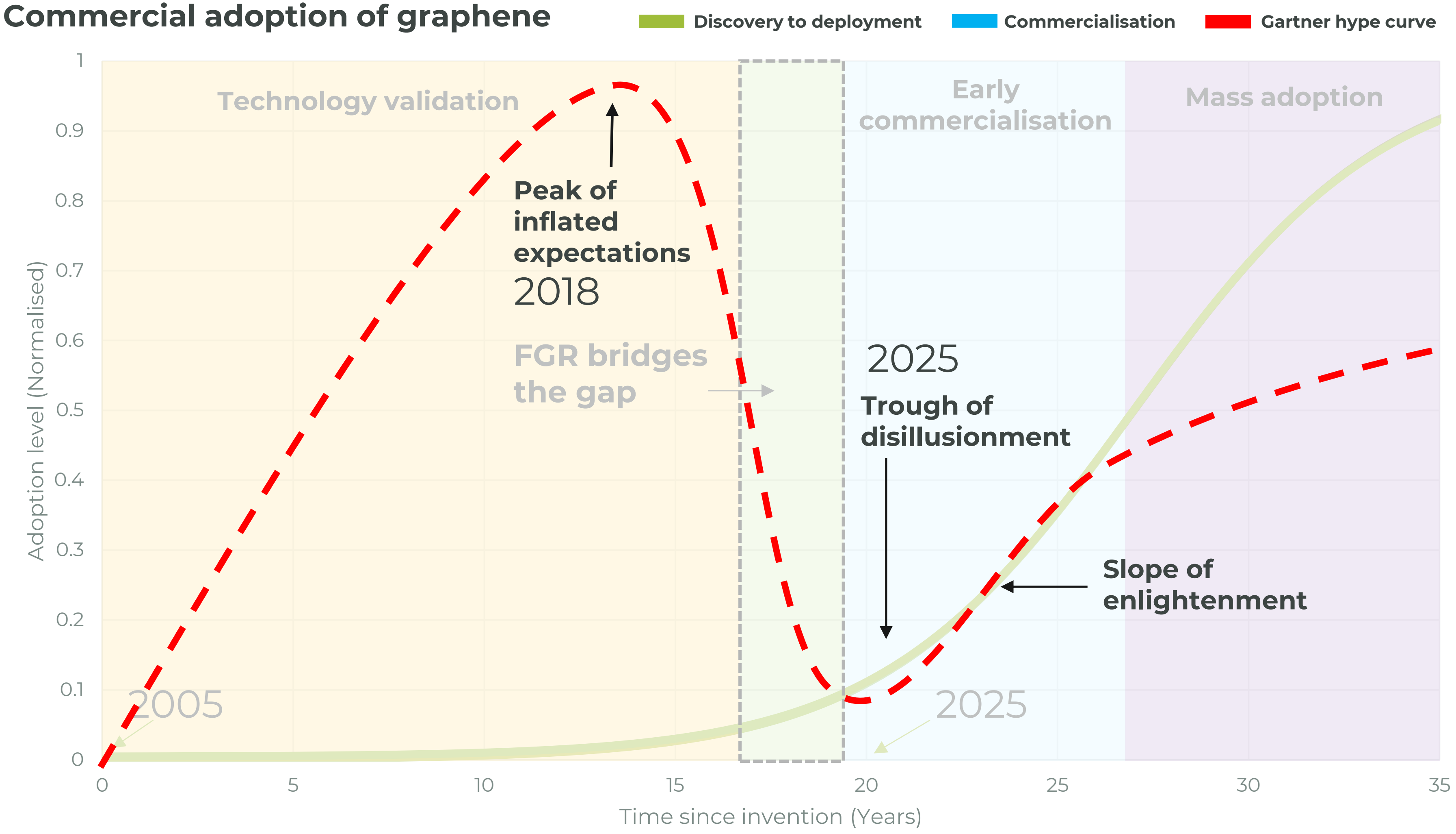
Commercial adoption of graphene



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

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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

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INDUSTRY APPLICATION	EXISTING ENGAGEMENTS	NEXT 12 - 18 MONTHS	OPPORTUNITY ($)
CEMENT AND CONCRETE	▪ UK Highways program to **reduce CO2 emissions** from national roads ▪ UK Rail Project using **precast panels**. ▪ Commercialization of **Graphene enhanced Cement** with Breedon Group.	▪ Move from trial to adopted technology within the UK cement segment.	▪ Opportunity pipeline in development and commercialization – circa $500m
COMPOSITES / POLYMERS	▪ **Glass Fibre/Carbon Fibre** composite additives – expand into parallel products including tanks, pressure pipes, drilling tools, prepreg carbon fibre etc.	▪ Complete development and launch commercially.	▪ Opportunity pipeline in development and commercialization – circa $50m
	▪ TPU masterbatch for use in **outsoles for footwear**.	▪ Build on existing work boot success to promote globally.	
	▪ Nylon friction **wear pads** to improve resistance and support sustainable operations.	▪ Supply agreement for friction wear pads.	
	▪ Thermal applications in **automotive, energy, and industrial** sectors.	▪ Expand into fire retardant polymers.	
COATINGS / ELASTOMERS	▪ Protective **mining wear liners, screen media, conveyor belts** and elastomer coatings with enhanced abrasion and corrosion resistance.	▪ Secure supply contract into conveyor belt, screen media and polyurethane coating applications.	▪ Australian market size of >$50m in annual graphene sales
ENERGY GENERATION AND STORAGE	▪ Industrial-scale production with Halocell Australia of lower-cost **perovskite solar technology**.	▪ Ramp period of first production units of cells and switch to roll-2-roll process.	▪ 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	▪ NANOPROOF ▪ ACT GRAPHENE SOLUTIONS	REINSTE NANO VANTURES	GSL HOLDINGS	GRAPHENE-RICH	▪ FGR (WA) ▪ BISLEY	▪ 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

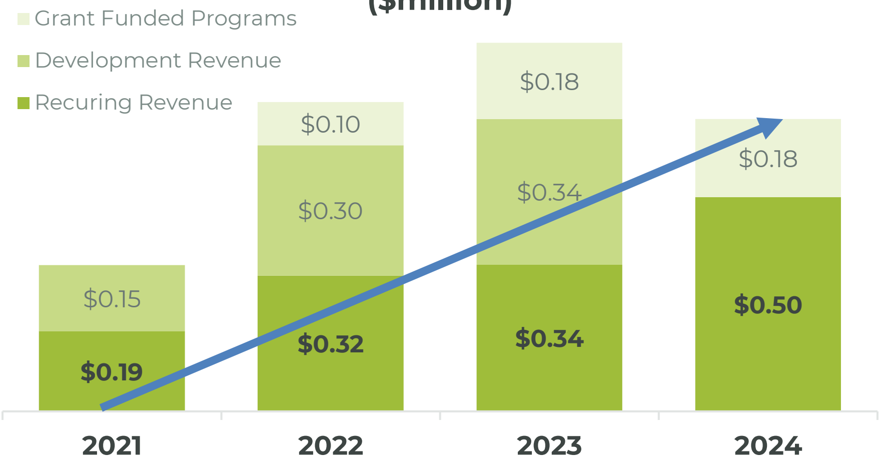
Forward outlook

- 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

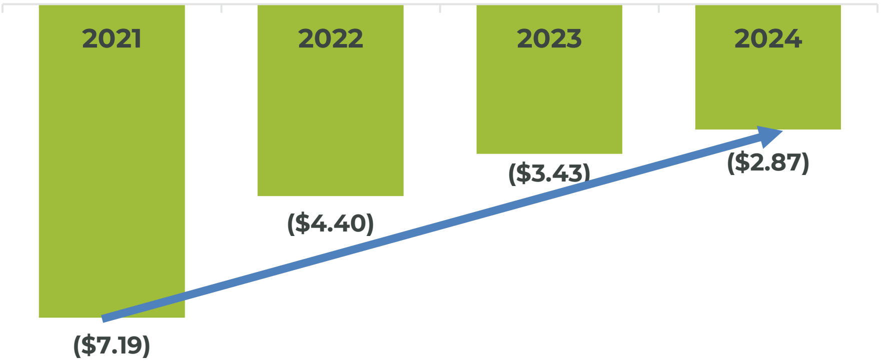
Corporate details

- 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)



Note: Refer to 2024 Annual Report for more details, including reclassification of 2024 Grant Income to "Other Income"
1: Current 29 August 2025

Future growth for graphene

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- **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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