



# A world-leading material technology company

PureGRAPH® - Revolutionising material performance

SEPTEMBER 2025



ersonal use only

# About First Graphene

- **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

## 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

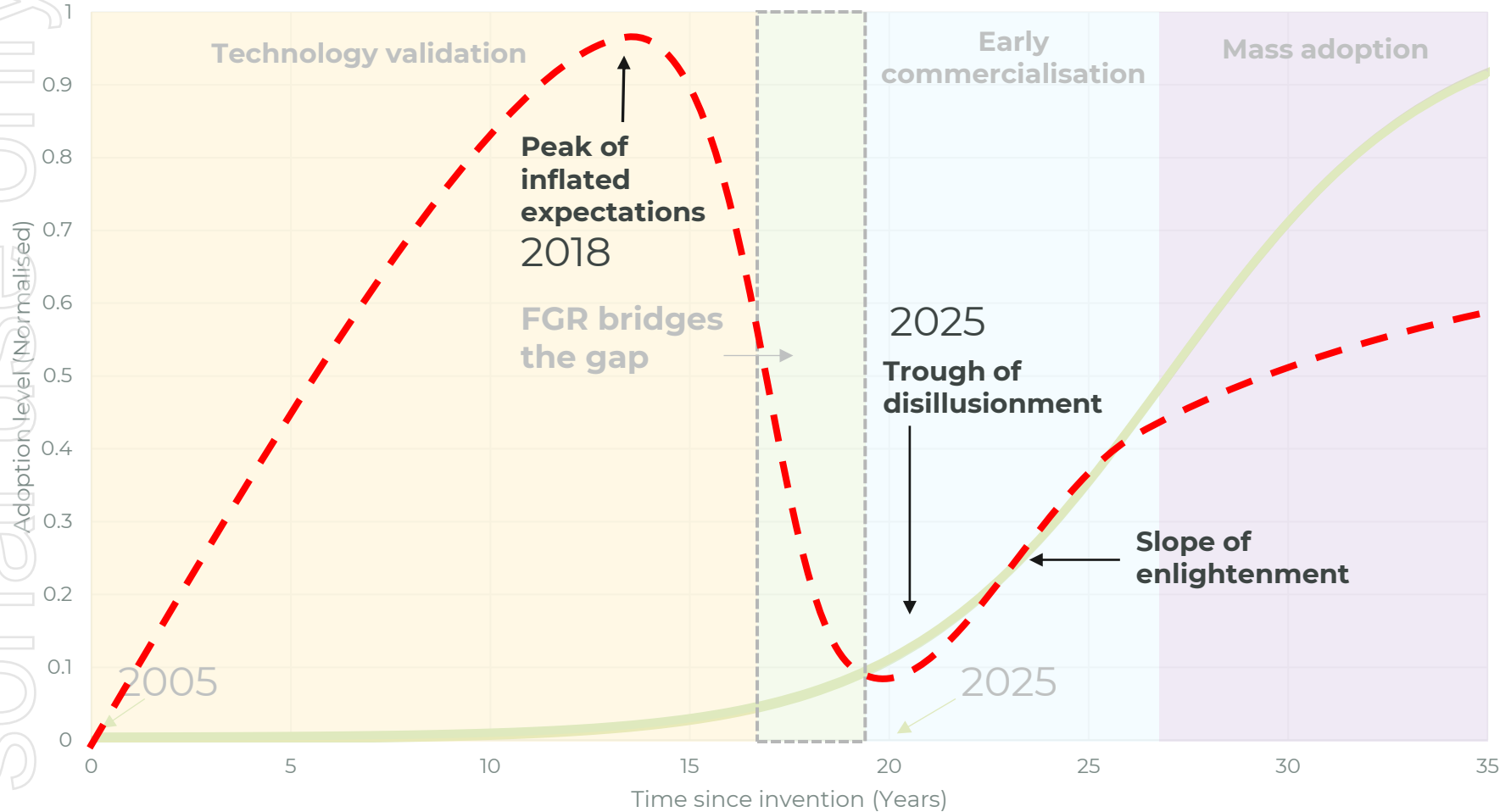


Flexible printed circuit boards

# Discovery to deployment

## 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 <b>commercial production facility in Australia with 100tpa capacity</b>
Cost	<b>Industrial-scale</b> production <b>reduces unit costs</b> , making <b>PureGRAPH®</b> commercially viable for high-volume applications
Quality and consistency	<b>PureGRAPH®</b> product line delivers <b>consistent morphology, purity and particle size</b> due to <b>rigorous quality control</b>
Regulatory approval	Reach registration in the <b>EU and UK</b> , and <b>AICIS approval in Australia</b> , with <b>EPA registration</b> underway



# Key growth opportunities and pathway

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

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

# Expanding distribution network

## 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"> <li>NANOPROOF</li> <li>ACT GRAPHENE SOLUTIONS</li> </ul>	REINSTE NANO VANTURES	GSL HOLDINGS	GRAPHENE-RICH	<ul style="list-style-type: none"> <li>FGR (WA)</li> <li>BISLEY</li> </ul>	<ul style="list-style-type: none"> <li>BISLEY</li> <li>GTM ACTION</li> </ul>

# Pipeline of opportunities

**350-500**

Long lead enquiries  
varying from 3 to 1 years

**2** Years

**1** Year

**3** Years

**25**  
Active  
commercial  
agreements

**30**  
Active  
clients

ersonal use only

# Financial performance



## 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

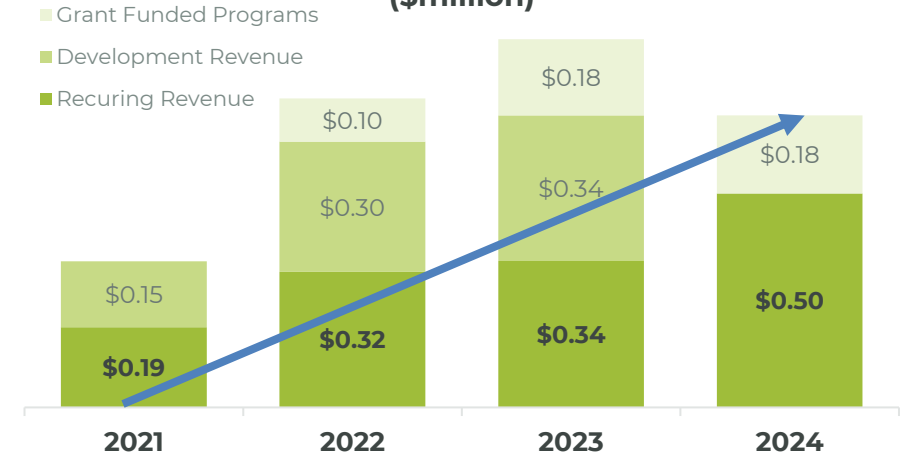
- Forecast income of circa A\$1.5m from existing client base, current development and grant programs
- Pipeline of opportunity over 18 – 24 months has potential of >A\$10m



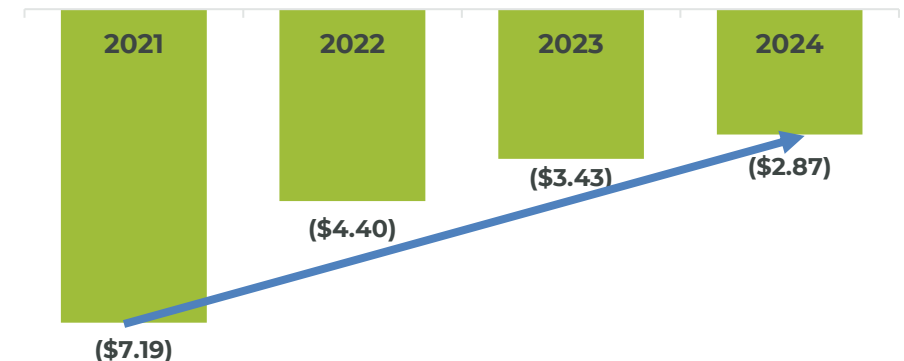
## Corporate details

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

Recurring/Development/Grant revenue (\$million)



Operating & investing cash-outflow (\$million)



# Future growth for graphene

- **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.

# Forward looking statements & disclaimer

- This presentation has been prepared by First Graphene Limited (ACN 007 870 760) ("Issuer") for the sole purpose of providing an overview of its current prospects and proposed development strategy to recipients ("Recipient"). This presentation and its contents are provided to the Recipient in confidence and may not be reproduced or disclosed in whole or in part to any other person, without the written consent of the Issuer.
- The presentation is based on information available to the Issuer as at the date of the presentation. The information contained in this presentation has not been verified by the Issuer nor has the Issuer conducted any due diligence in relation to that information. The presentation contains selected information and does not purport to be all inclusive or to contain all information that may be relevant to the Recipient. The Recipient acknowledges that circumstances may change and this presentation may become outdated as a result. The Issuer accepts no obligation to update or correct this presentation.
- This document includes forward-looking statements. When used in this document, the words such as "could," "plan," "estimate," "expect," "intend," "may," "potential," "should," and similar expressions are forward-looking statements. Although the Issuer believes that the expectations reflected in these forward-looking statements are reasonable, such statements involve risks and uncertainties, and no assurance can be given that actual results will be consistent with these forward-looking statements.
- No representation or warranty, express or implied, is made as to the fairness, accuracy, completeness or correctness of the information, opinions and conclusions contained in this presentation. To the maximum extent permitted by law, none of the Issuer, its directors, employees or agents, advisers, nor any other person accepts any liability for any loss arising from the use of this presentation or its contents or otherwise arising in connection with it, including, without limitation, any liability arising from fault or negligence on the part of the Issuer or its directors, employees or agents. Nothing in this Presentation is a promise or representation as to the future. Statements or assumptions in this presentation as to future matters may prove to be incorrect and differences may be material. The Issuer does not make any representation or warranty as to the accuracy of such statements or assumptions.
- The information in this presentation does not take into account the investment objectives, financial situation and particular needs of any Recipient. The Recipient should not make an investment decision on the basis of this presentation alone and the Recipient should conduct its own independent investigation and assessment of the content of this presentation. Nothing in this presentation constitutes financial product, investment, legal, tax or other advice. Nothing in this presentation should be construed as a solicitation to buy or sell any security or to engage or refrain from engaging in any dealing in any security.
- Photographs, maps, charts, diagrams and schematic drawings appearing in this presentation are owned by and have been prepared by or commissioned by the Issuer, unless otherwise stated. Maps and diagrams used in the presentation are illustrative only and may not be drawn to scale. Unless otherwise stated, all data contained in charts, graphs and tables is based on information available at the date of this presentation. By accepting this presentation, the Recipient agrees to be bound by the foregoing statements.



## Corporate Headquarters & Manufacturing Plant

1 Sepia Close, Henderson  
Western Australia 6166

**P.** +61 1300 660 448

## Global R&D & Marketing Facility

Empress Business Centre,  
380 Chester Road,  
Old Trafford,  
Manchester  
M16 9EA

**P.** +44 (0)161 826 2350

FIRSTGRAPHENE.NET  
info@firstgraphene.net

