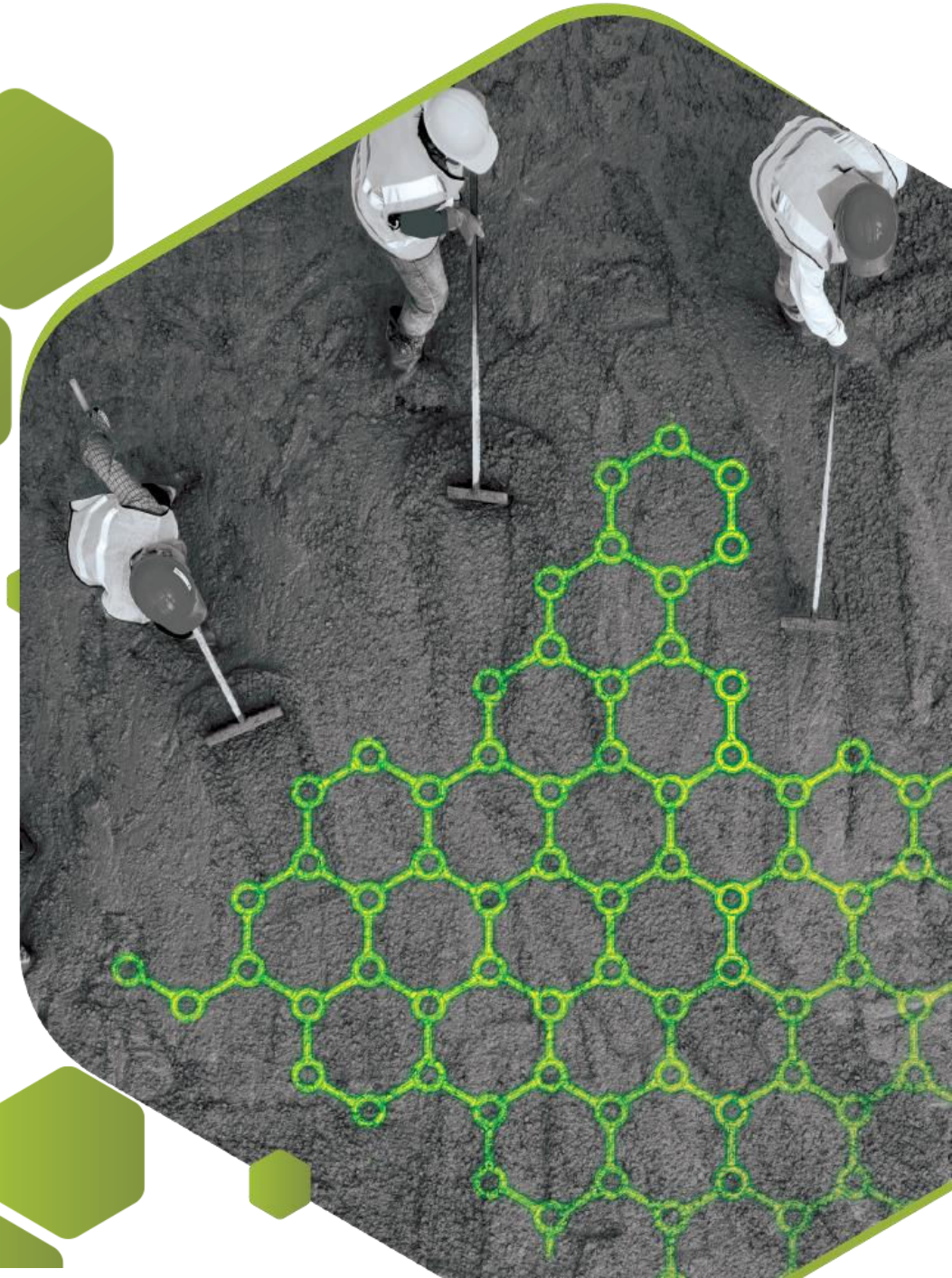
FIRSTGRAPHENE

Commercial scale graphene production

Revolutionising material performance for global technology and industrial markets



JULY 2026

What is graphene, and why now

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THE MATERIAL

Graphene is a form of carbon just one atom thick, the thinnest, strongest, most conductive material known.

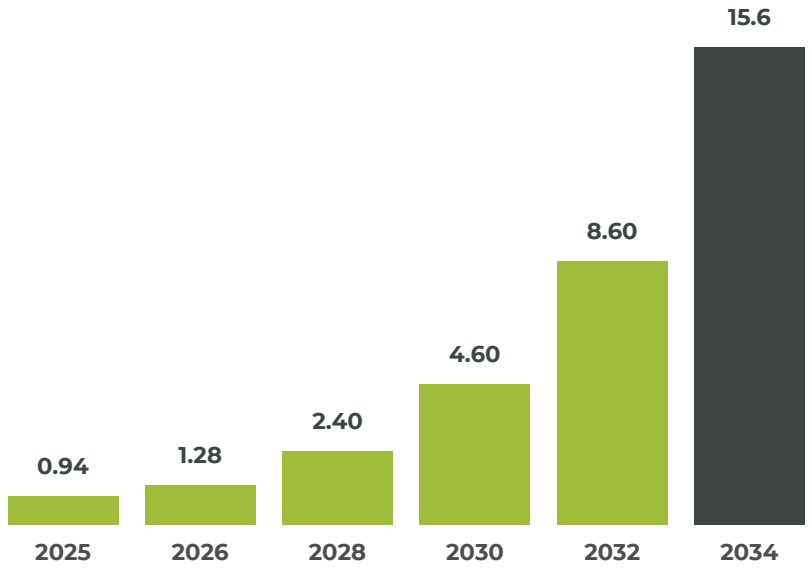
Added in tiny amounts to cement, plastics and coatings. It makes them stronger, lighter and more durable at very low cost per tonne of end product.

WHY INDUSTRY CARES

- **Small additive, large effect**
  Graphene can be incorporated at low loading levels to improve material performance.
- **Applies across large markets**
  Construction, composites, polymers, coatings, energy storage and textiles.
- **Commercial challenge**
  Industrial customers require repeatable quality, reliable supply and application-ready formats.

FGR is one of the few producers making it at industrial tonnage today, not in a lab.

A MARKET FORECAST TO GROW ~16x THIS DECADE



Global graphene market, US$ billion. ~36.6% CAGR 2026-2034.
Source: Fortune Business Insights, 2026

~US$15.6B
market by 2034

~36.6%
CAGR

Demand is scaling fast, but few producers can supply at tonnage

Industry-leading operating highlights

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- Established commercial-scale graphene production facility with proprietary processing capability of up to 100 tonnes per annum (tpa) – unmatched by any competitor globally
- Broadest product suite in the industry spanning graphene, graphene oxide and functionalised derivative additives
- Flagship **PureGRAPH®** range already deployed in real-world industrial applications – beyond lab-scale
- >35 active commercial clients generating revenue across broad industry segments
- Strategic acquisitions expanding platform into new international markets
- Global distribution network supplying customers across 20+ countries

01

INPUT

Mined and/or purified Graphite
CIRCA US$1,000 - $2,000/tonne

02

MANUFACTURING

Proprietary Electro Chemical Exfoliation converts to Graphene

03

HIGH QUALITY OUTPUT

Graphene, Graphene Oxide and Functionalised carbon-based materials
CIRCA US$9,000 - $10,000,000/tonne

Industry-first production at commercial scale

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- Proprietary electrochemical exfoliation process – a proven, scaled technology converting graphite into high-quality graphene nanoplatelets at industrial volumes
- Only graphene producer operating at genuine commercial scale, delivering lower unit cost and commercial viability for high-volume applications
- **PureGRAPH®** manufactured to deliver consistent morphology, purity and particle size – meeting the quality standards demanded by industrial buyers
- Regulatory approvals secured in key markets (REACH in EU/UK, AICIS in Australia, US EPA in progress) – well ahead of competitors in market access readiness

Proven high-value global applications with accelerating sector diversification

CEMENT & CONCRETE

- Concrete road base
- Structural elements
- Precast piping & roof tiles
- Shotcrete concrete

ELASTOMERS

- Mining sacrificial wear liners, abrasion resistant surfaces & fire-retardant urethanes
- Footwear

ENERGY GENERATION & STORAGE

- Perovskite solar cells for remote controls, electronic price display & drones
- Supercapacitor materials

COMPOSITIES

- Tanks, pipes, swimming pools
- Sports equipment
- Architectural structures
- High abrasion oil & gas drill collars

COATINGS & TEXTILES

- Powder coating for anti-corrosion
- Conductive geotextiles for smart sensing
- Textile coatings for thermal control
- Conductive printable inks

POLYMERS

- Transportation panels & structures
- Solar thermal roof tiles
- Fire retardant building materials

Most commercially advanced graphene

FIRSTGRAPHENE

FLEXIBLE

Stretches up to 20%

THIN

0.345nm or one carbon atom thick

TRANSPARENT

Absorbs only 2.3% of visible light

IMPENETRABLE

Impermeable barrier even to helium gas

STRONG

200 times stronger than steel

ELECTRIC CONDUCTIVE

1 million times more conductive than copper

THERMAL CONDUCTIVE

5,000 w/Mk in all directions (isotropic)

FIRE RETARDENT

Enhanced retardancy to fire and heat

Cement and concrete – validated at scale

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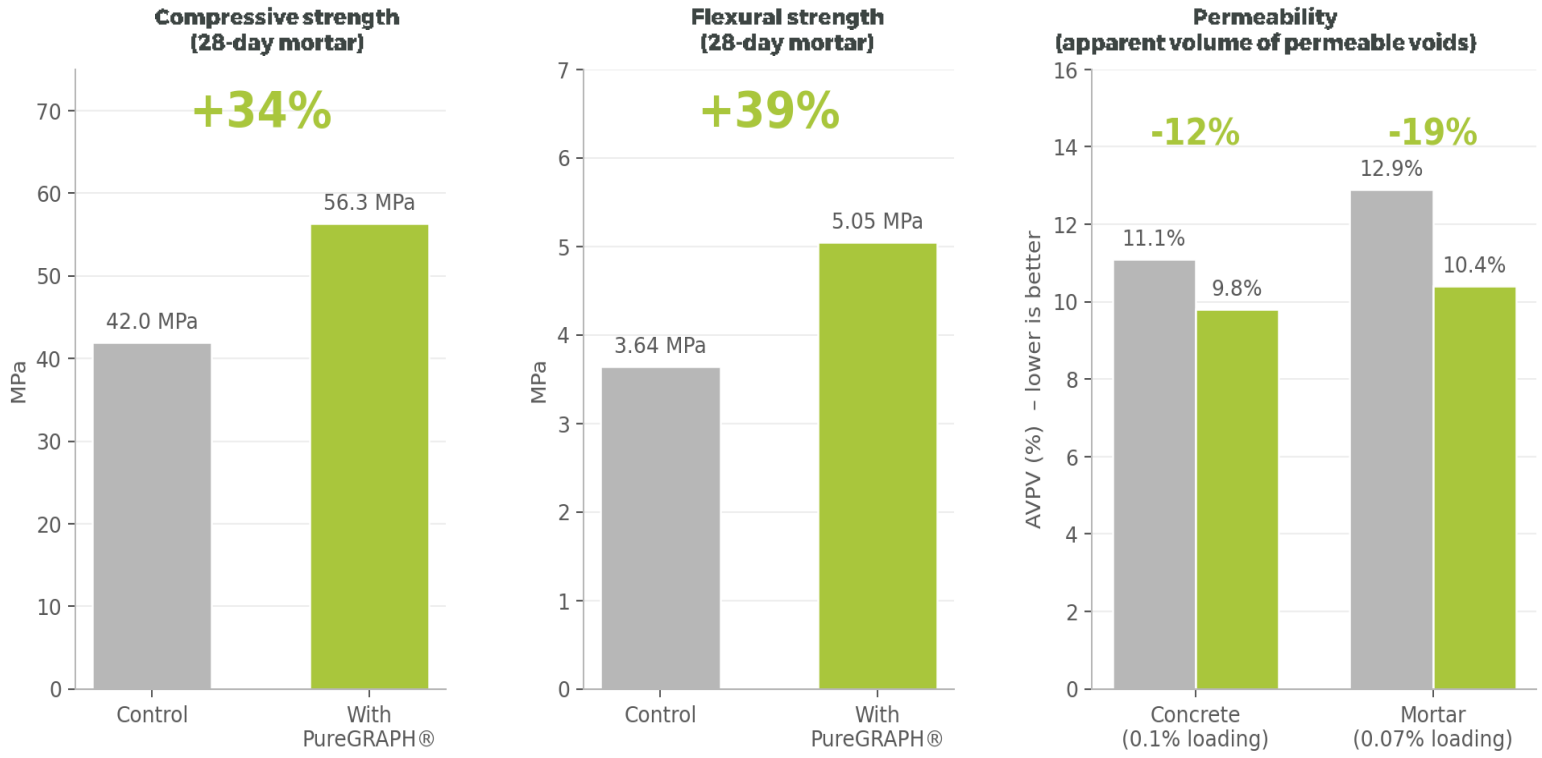
- Strength gains of 25–30% in cement and concrete at very low loadings (less than 0.1% of binder) – performance proven at commercial volumes, not just in laboratories
- Strength gains enable CO_2 reduction of 16-20% through clinker replacement while enhancing performance – a compelling sustainability value proposition
- Breedon Group partnership: >20,000 tonnes of **PureGRAPH®** enhanced cement deployed in UK projects – the largest graphene-enhanced concrete deployment globally
- FP McCann production trial: 10,000+ graphene-enhanced concrete roof tiles, up to 14% CO_2 reduction – demonstrating repeatability at production scale
- 12-19% lower permeability, reducing voids for water and oxygen penetration, extending infrastructure service life and reducing lifecycle costs

PureGRAPH® in cement and concrete – strength and permeability



MORGAN SINDALL

fpmccann

BREEDON

Composites/Polymers – proven performance

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- **PureGRAPH®** dispersed into resin or polymer before manufacture, integrating seamlessly into the composite matrix
- Weight reduction of more than 30% combined with strength gains of more than 30% at very low loadings – a step-change improvement no competitor has matched commercially
- Adds barrier properties, fire retardancy and toughness – multiple value drivers from a single additive
- Versatile across structural, automotive, aerospace, sports and protective applications – broadest deployment of any graphene in composites
- Already deployed across Carbon Fibre and Glass Fibre clients generating repeat orders

>140%
increase in ultimate tensile strength

>45%
increase in tensile modulus

>230%
increase in toughness

Clear path to revenue acceleration

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Near-term catalysts

- Conversion of ~50 active product launches and commercial agreements in **PureGRAPH®** pipeline representing >US$10m near-term revenue opportunity
- Integration of recent acquisitions opening inorganic sales channels and immediate market access
- Expansion of direct US commercial platform, leveraging into defence and aerospace markets
- Further commercial leverage of UK-based cement & concrete success into Europe, Australia, China and North America – backed by validated, large-scale deployment data

Significant direct addressable market revenue opportunities in proven, revenue-generating applications

CEMENT & CONCRETE

~US$360m
United Kingdom

~US$1.8B
United States

>US$70B
China

ELASTOMERS

>US$150m
Mining wear protection

>US$2B
Global work boot

ENERGY GENERATION & STORAGE

~US$12m
Perovskite solar cells

~US$75m
Supercapacitor additives

COMPOSITIES

~US$60m
Sporting equipment

>US$1B
Architectural structures

COATINGS & TEXTILES

~US$75m
Anti-corrosion powder coatings

~US$16m
Conductive printed inks

POLYMERS

>US$6B
Transportation segment

>US$1B
Fire-retardant building materials

Note: Figures are estimates based on publicly available information

Acquisition – MITO® Accelerating US market

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- **Technology:** Expands beyond **PureGRAPH®** into graphene oxide and functionalised nanomaterial additives by adding market ready E-GO®, LIGRA™, OMEGA and DELTA product lines across composite fibres, coatings, resins and additives
- **Revenue:** Provides access to established customers, revenue-generating formulations and technology validation
- **Pipeline:** Comes with established commercial pipeline of opportunity across defence, aerospace, transportation and sporting equipment advanced materials markets
- **Presence:** Establishes Toll Manufactured supply and commercial platform to directly address the US market

mito® MATERIAL SOLUTIONS

US Platform
Direct operational and commercial presence in the US

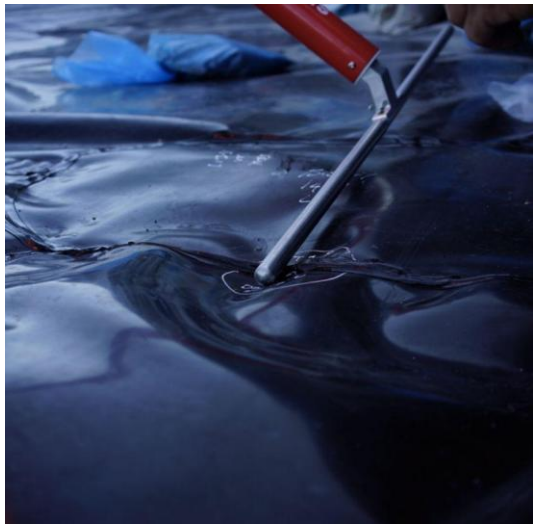
Strategic markets
Defence, aerospace, transportation and sporting equipment advanced materials

Revenue generating
Establish revenue generating clients

Acquisition – Ionic Industries Expanding IP

FIRSTGRAPHENE

- **Technology:** Expands FGR beyond **PureGRAPH®** into coatings and dispersion technologies for geotextiles, water containment, landfill barriers and construction materials
- **Pipeline:** Provides access to established go-to-market ready formulated products with historical supply chain and commercial pipeline opportunities
- **Positions** FGR with a market ready solution for growth across geotextile applications
- **Significant additional Intellectual Property in Battery and Supercapacitor materials**



ionic industries

Expanded capability
Direct operational and commercial presence in the US

US $11B
Estimated global geotextiles market by 2030

Strategic markets
Mining geotextiles – specifically Australia

Industry's broadest product portfolio

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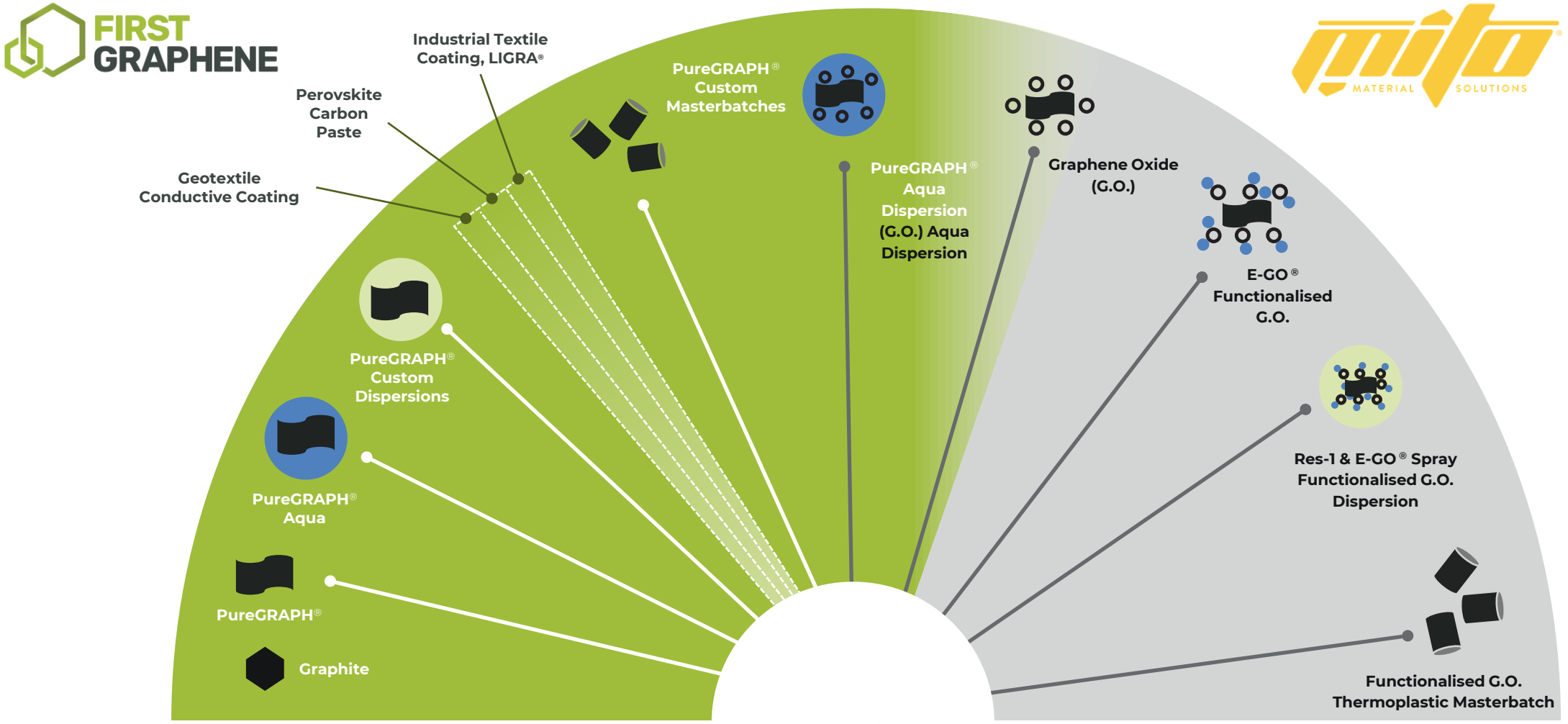

US market expansion – growth platform

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MITO® acquisition positions First Graphene as the only graphene company with direct US commercial operations and an active defense/aerospace pipeline

DEFENSE & AEROSPACE PLATFORM

- Direct US operational base with toll manufacturing – positioned for ITAR-compliant defense supply chains
- Active pipeline across advanced composite armour, next-gen vehicle structures, and protective coatings for military applications
- Graphene-enhanced materials deliver 30%+ weight reduction with 30%+ strength gains – critical for aerospace fuel efficiency and payload capacity
- No competing graphene company has an equivalent US defense/aerospace commercial pipeline nor commercial client base
- US EPA registration in progress

US ADDRESSABLE MARKET

>US$1.8B

US Infrastructure (cement & concrete) est.

>US$1B

Aerospace advanced composites est.

>US$2B

Transportation (auto, rail, EV) est.

>US$1B

Defense advanced materials est.

First Graphene: The only graphene company with a direct US platform, defense-grade products, and active DoD supply chain engagement

US market catalysts driving demand

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Multiple structural tailwinds converge to create an unprecedented window for graphene commercialization in the US

INFRASTRUCTURE INVESTMENT & JOBS ACT

$1.2 trillion infrastructure program demands stronger, lighter, more durable materials. **PureGRAPH®** enhanced concrete delivers 25 – 30% strength gains and 16-20% CO_2 reduction – directly aligned with federal sustainability mandates.

BUY AMERICAN & SUPPLY CHAIN DE-RISKING

US policy mandates domestic sourcing for critical materials. China dominates global graphene supply. First Graphene's US manufacturing base via MITO® provides a non-China, ally-shored supply chain aligned with DoD requirements.

RECORD DEFENSE SPENDING ON ADVANCED MATERIALS

US defense budget exceeds $1T with growing allocation to next-gen materials. Graphene composites enable lighter armor, stronger airframes, and enhanced coatings – capabilities the DoD is actively seeking from domestic suppliers.

US EPA APPROVAL AS COMPETITIVE MOAT

US EPA registration creates a multi-year regulatory barrier for competitors. First Graphene is first-to-file among commercial graphene producers – once approved, new entrants face 3 – 5 years of regulatory process to compete.

Unrivalled global distribution reach

FIRSTGRAPHENE

The most extensive graphene distribution network globally, driving commercial uptake of PureGRAPH® at scale

- Actively working with 11 distributors across the globe – the widest distribution network of any graphene company
- Distribution network provides robust pathways to major industrial markets and qualified customer bases
- Unlocks commercial channels at scale with distributor-led sales drive to international customers
- Partnerships under consideration in South Korea, UK, South America, Middle East, SEA, China and Canada – significant expansion runway
- Validated use cases and performance data support distributor-led customer engagement – de-risking adoption

REGION	NORTH AMERICA	EUROPE	BRAZIL	SOUTH AFRICA	INDIA & MIDDLE EAST	VIETNAM	CHINA	AUSTRALIA	NEW ZEALAND
DISTRIBUTOR(S)	SUPERGRAFENO (Canada)	KEYSER & MACKAY	SUPERGRAFENO	▪ NANOPROOF ▪ ACT GRAPHENE SOLUTIONS	▪ REINSTE NANO VANTURES ▪ SYRON GREEN THRUST DYNAMICS	GSL HOLDINGS	GRAPHENE-RICH	▪ FGR (WA) ▪ BISLEY	▪ BISLEY ▪ GTM ACTION

Opportunities and outlook

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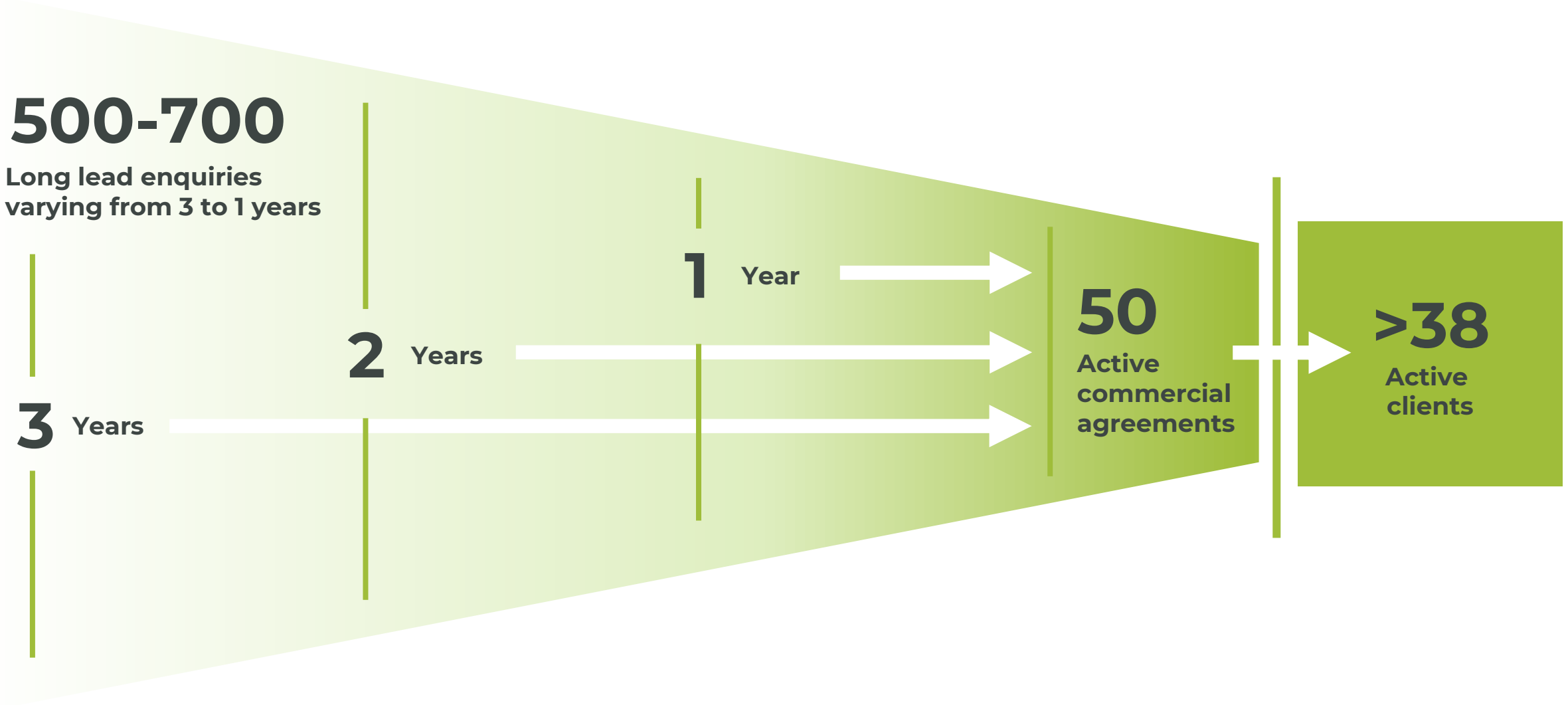

Financial performance

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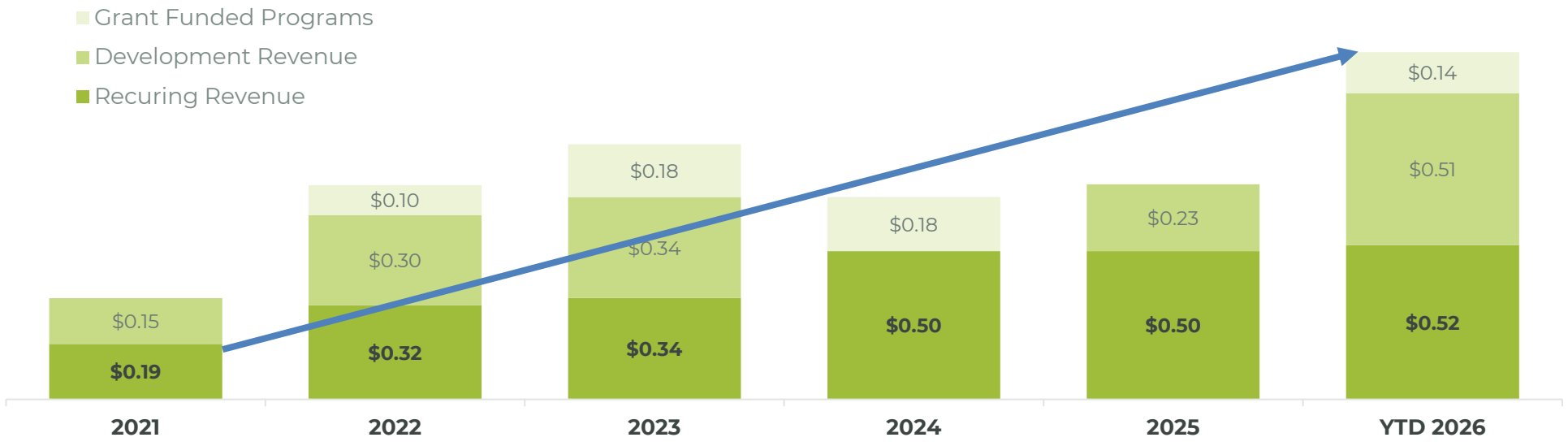
Commercial momentum

- Ongoing increase in approved applications and sales opportunities
- Cement and concrete segment approaching a 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
- Continued reduction in cash burn plotting towards breakeven

Recurring/Development/Grant revenue ($million)



Capital structure and valuation

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Corporate details

- ~$4.0m cash[1]
- Shares on issue: ~880m
- Options on issue: ~80m listed @ $0.085 exp 06/27 (Listed)
- Share price A$0.06[2]
- Market capitalisation: ~A$50m

Listing and US access

ASX (primary): **FGR**

OTCQB (US): **FGPHF**

FSE (Germany): **M11**

DTC eligible - supports US electronic clearing

A simple listed route into commercial graphene exposure

Note: Refer to 2024 Annual Report for more details, including reclassification of 2024 Grant Income to "Other Income". Also note YTD 2026 Financials are unaudited as at 4 June 2026 given this is Year To Date.
1: As at 31 March 2026 from 4C
2: Current 29 May 2026

Investment opportunity

FIRSTGRAPHENE

Commercial scale graphene production operating with >100tpa capacity and revenue across >35 active clients

High-value advanced materials platform across graphene, graphene oxide and functionalised additives

World-first cement roof tile results – up to 14% CO_2 reduction validated with listed UK partners Breedon Group and FP McCann

Global distribution network and customer pipeline expanding across 20+ countries

Growing application revenues across cement, composites, polymer, energy, and coatings with >US$10m near term pipeline

Acquisitions accelerate US market entry, defence, aerospace, transportation and sporting goods exposure

Key catalysts: >US$10m PureGRAPH® pipeline conversion, new acquisitions & expanding US/global market access

Forward looking statements & disclaimer

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FIRSTGRAPHENE

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