first graphene

The world's leading graphene company

WHAT DO COMPOSITES, RUBBERS, ENERGY STORAGE AND CONCRETE **ALL HAVE IN COMMON?**

CORPORATE PRESENTATION

JUNE 2021

‘The answer... Graphene’

A growing number of established products and applications globally that are related to these markets, are being significantly enhanced by applying ‘graphene’ as a chemical additive.

Market analysis

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What makes graphene compelling – current trends, facts and statistics:

Rubbers and elastomers show major improvements in tensile strength, elongation, abrasion resistance and tear strength with the **addition of graphene**

Independent studies found graphene can make selected products up to 30% stronger **and more resistant to wear**

Graphene is the thinnest material ever isolated, despite this, it is up to 300 times stronger than steel and the **most conductive material in the world**

Add just 0.01% of graphene into concrete - responsible for around 8% of the world's CO_2 emissions - **reduces its carbon footprint by approximately 30%**

Global markets ‘industry eco-systems’

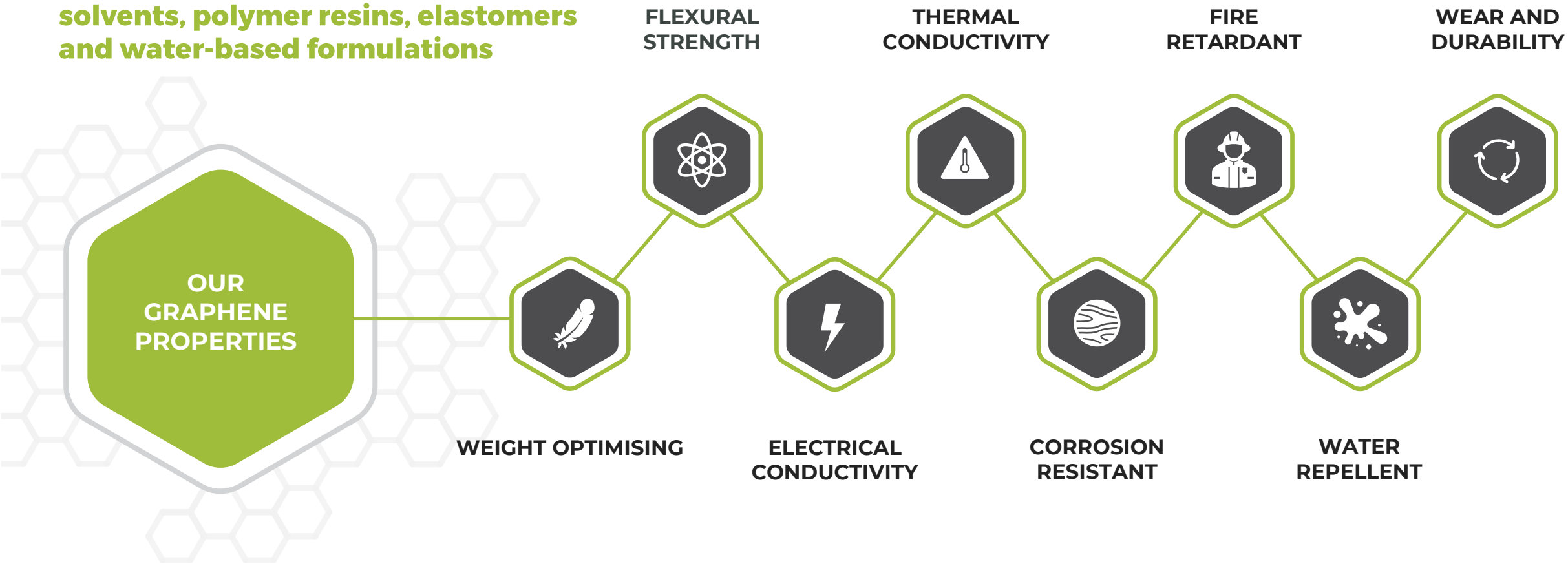
MINING
APPLICATIONS

EVERYDAY
APPLICATIONS

ENERGY STORAGE
APPLICATIONS

Graphene properties

Our graphene has a unique chemical fingerprint which makes it easy to use and **disperse in a multitude of solvents, polymer resins, elastomers and water-based formulations**



About FGR

WHO WE ARE

- First Graphene (ASX:FGR) is an Australian technology and manufacturing company.
- World leading graphene manufacturer based in Henderson, Western Australia.
- Tier 1 partner at the Graphene Engineering and Innovation Centre (GEIC), Manchester, UK.
- New substance registration in United Kingdom (UK-REACH), Europe (EU-REACH) and Australia (AICIS) in place.
- Active membership of ISO standards committee for graphene registration.
- Market capitalization: **AUD$133m**
- Share price 50-day average: **AUD$0.24**

WHAT WE DO

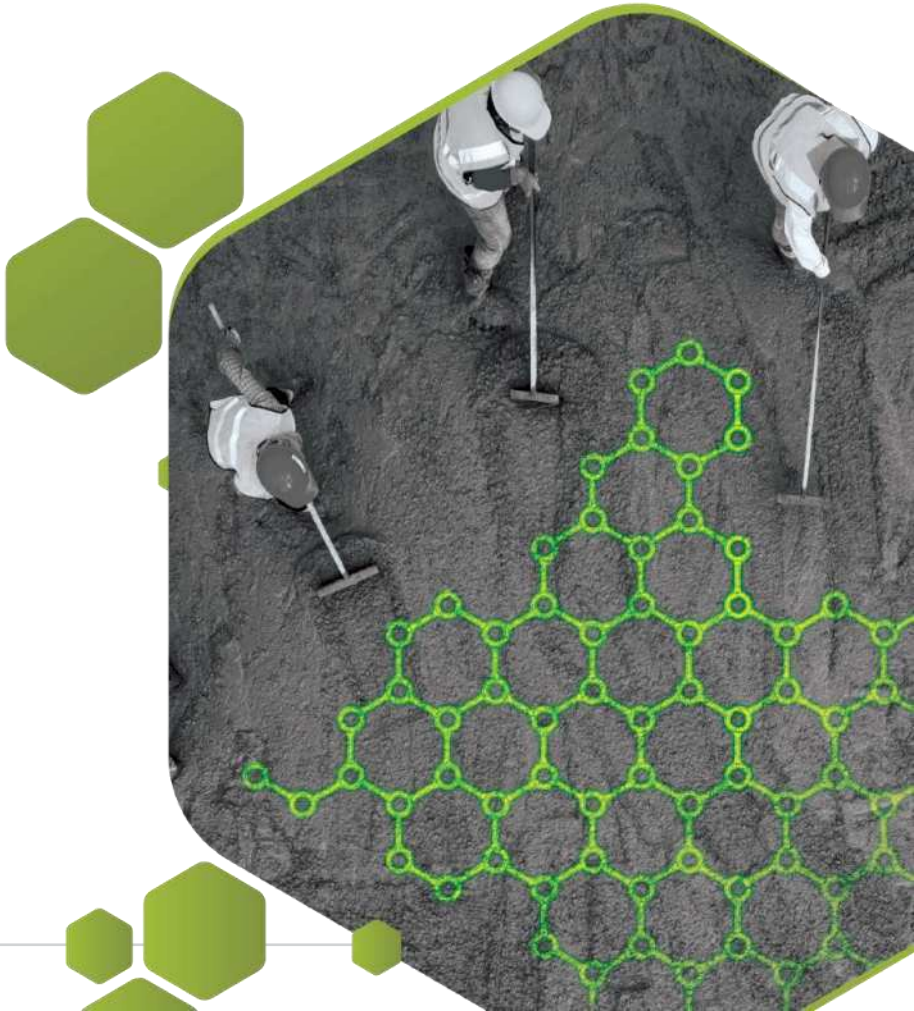
- Producer of high performing PureGRAPH® products creating value in key markets.
- Quality leader in graphene materials – acknowledged by our customers.
- Robust 100 tonne/year modular manufacturing facility - built and operational today.
- Developed IP to mass produce commercial scale graphene for multiple products and industries.

CORE MARKETS

- Rubbers and elastomers – automotive, industrial and leisure.
- Cement and concretes – recycled, precast panels, ready mix and grouts.
- Composites and plastics – plastic parts, carbon and glass fibre, including boats, surfboards and swimming pools.
- Coatings – thermal, antistatic and anti-corrosion.
- Energy storage – supercapacitors, battery anodes, petroleum feedstock derived green hydrogen.

OUTLOOK

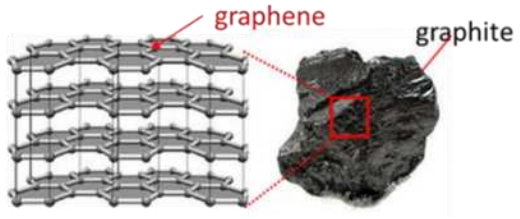
- With the production process and capacity “banked”, strongly focused on the commercialisation of PureGRAPH® and driving sales demand.
- Invest into new applications for emerging PureGRAPH® markets.



FGR – World Leading Supply Capabilities

VEIN GRAPHITE RM's

- Captive – ensures reliability
- No processing at mine
- In-house stock
- Low metals
- Large graphene plates

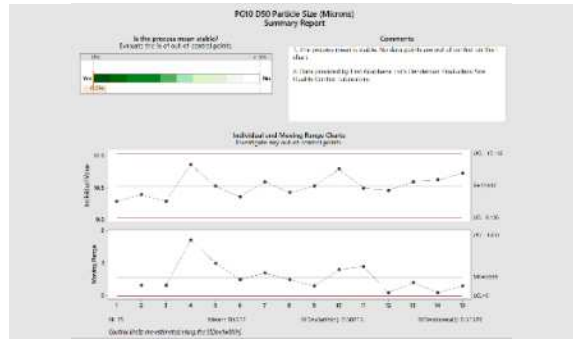


ELECTROCHEMICAL EXFOLIATION

- High Yield
- Single Step
- Unique to FGR
- Scalable/Low Cost
- Low waste

INDUSTRIAL FINISHING

- Well established
- Controlled Quality
- Finishing Options
- Scalable/Low Cost
- Low Waste

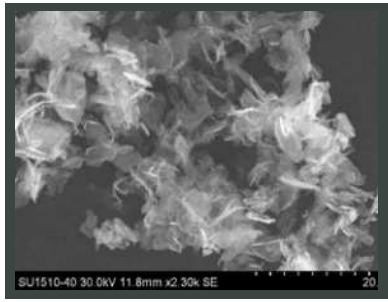


QUALITY ASSURANCE

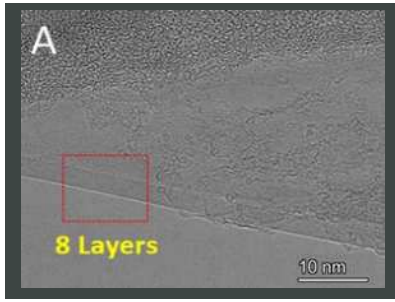
- 6-sigma approach
- Industry leading measurement techniques
- ISO/TC229 aligned
- At-line testing
- C of A for each batch

About PureGRAPH®

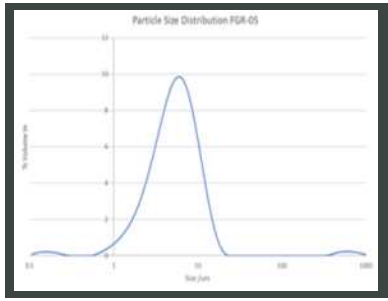
- Highest performing graphene additive available at tonnage quantities
- **PureGRAPH®** powders contain pristine, high aspect ratio platelets with typical thickness of 5-10 carbon atoms
- Lateral sizes are carefully controlled in the **PureGRAPH®** range at 5µm, 10µm, 20µm and 50µm ensuring consistent and repeatable performance
- Easily dispersed, delivering **multiple benefits** across a range of materials
- **PureGRAPH® AQUA** products allow easier dispersion into water and solvent-based formulations, beneficial for specific applications including coatings, cement and rubbers
- Continued **product development** to make tailored **PureGRAPH®** platelet sizes and functionalised platelets – to aid formulation and extend applications.



PureGRAPH® 5 Scanning Electron Microscopy (scale bar = 20µm): This analysis of dried product powder shows aggregated powders of high aspect ratio graphene platelets. These particles disperse readily in solvent and polymer media.



PureGRAPH® 5 Transmission Electron Microscopy image of platelet edges, showing 8 layers thickness. An average of 6 layers was reported - Courtesy of University of Adelaide.



PureGRAPH® 5 Malvern Mastersizer analysis showing $D_v(50)$ = 5µm and $D_v(90)$ = 11µm i.e no large particle tail is present. Laser light scattering is used as a powder size quality control tool. PureGRAPH® products have very reproducible $D_v(50)$ and $D_v(90)$.

Commercialisation process

Unrivalled production and scalable capacity
- Modular and scalable production process
- 100 tonnes per annum
- Low capital cost and short lead times to increase capacity

Positive cashflow
- Operational performance with cost base of 20 tonnes

Production efficiency
- Breakeven point at ~6 tonnes per annum

Existing agreements
- planarTECH – Graphene coated textiles and wearables
- Aquatic Leisure Technologies – Aqua Technics pools
- Steel Blue – work boots and safety footwear
- newGen Group – mining wear liners and abrasion resistant surface treatments

Global sales outlook and strategic appointments
- Recruitment of key Commercial Leads for material segments - Composites & Plastics, Rubbers & Elastomers, Cement & Concrete, Coatings and Energy Storage.
- Global reach through direct, distributor, reseller and structured channels.

Executives and Board of Directors

Michael Bell
Chief Executive Officer

- International sales, engineering and business leadership expertise across a diverse range of industries
- 20 years' experience in high growth across both SME and Corp. environments - former Senior Vice President of ST Engineering Group Singapore
- Bachelor of Science - Physics, Management Science University of Canterbury.

Paul Ladislaus
Senior Process Engineer

- Chartered Chemical Engineer with 20 years' chemicals experience in operational, design, project management and R&D roles
- Extensive particle manufacturing expertise with Huntsman and Thomas Swan.
- Master's Degree in Chemical Engineering from the University of Cambridge.

Aditya Asthana
Chief Financial Officer

- More than 15 years experience in finance and business across Australia and Asia
- Significant expertise in risk management, transformation and business turnarounds with Orica Ltd and its international subsidiaries
- Held a number of CFO and Director roles in Australia, Singapore and Indonesia.

Warwick Grigor
Non-Executive Chairman

- Respected and experience mining analyst
- Graduate of the Australian National University, with degrees in law and economics
- Former Chairman of Cannacord Genuity Australia Ltd.

Michael Quinert
Non-Executive Director

- Founding partner of Quinert Rodda Lawyers
- Focus on capital raising and listing rule compliance
- Over 20 years experience with ASX-listed companies in the capacity as legal counsel and director, in the mining and technology sectors
- Non-Executive Chairman of West Wits Mining Ltd.

Dr Andy Goodwin
Non-Executive Director

- Ph.D. scientist with extensive leadership experience in innovation and new business growth with specialty chemicals industry
- 35 years in pharma & specialty chemicals with Sanofi, Dow Corning Corporation and Thomas Swan.
- Business leadership in carbon nanomaterials since 2012.

Commercial sales team

Neil Armstrong
Commercial Manager – Composites & Plastics

- Chemical engineer with 10 years commercial experience
- Significant role in developing FGR's production facility and facilitating early adopters of PureGRAPH®
- Previously held roles with Wear Systems Solutions

Todd McGurgan
Commercial Manager – Cement & Concrete

- More than 25 years experience in the global cement industry
- Former leadership position at Holcim Australian & NZ
- Previous roles include BASF, Cement Australia, Sunstate Cement and Readymix

Matt Curthoys
Commercial Manager – Marine Composites & Windfarms

- More than 25 years experience in the Marine industry
- Chartered Naval Architect in Europe and Asia
- Expertise designing, engineering and producing composite structures for America's Cup and other boats

Recruiting
Commercial Manager – Rubbers & Elastomers

- TBC

Recruiting
Commercial Manager – Energy Storage

- TBC

Recruiting
Commercial Manager – Coatings

- TBC

Financials

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Share price (12 MAY 2021)	**A$0.24**
Issued shares – fully paid	**535m**
Listed options (25c) August 2021	**101m**
Unlisted options – (18c) – expiry February 2022	**2.0m**
Unlisted options (25c) – expiry November 2023	**15.0m**
12-month price range (A$)	**0.06c – 0.33c**
Market capitalisation	**~A$128**
Cash – June 2021	**A$7.0m**

One year share chart – Source ASX and Westpac

Progress and recent FGR accomplishments

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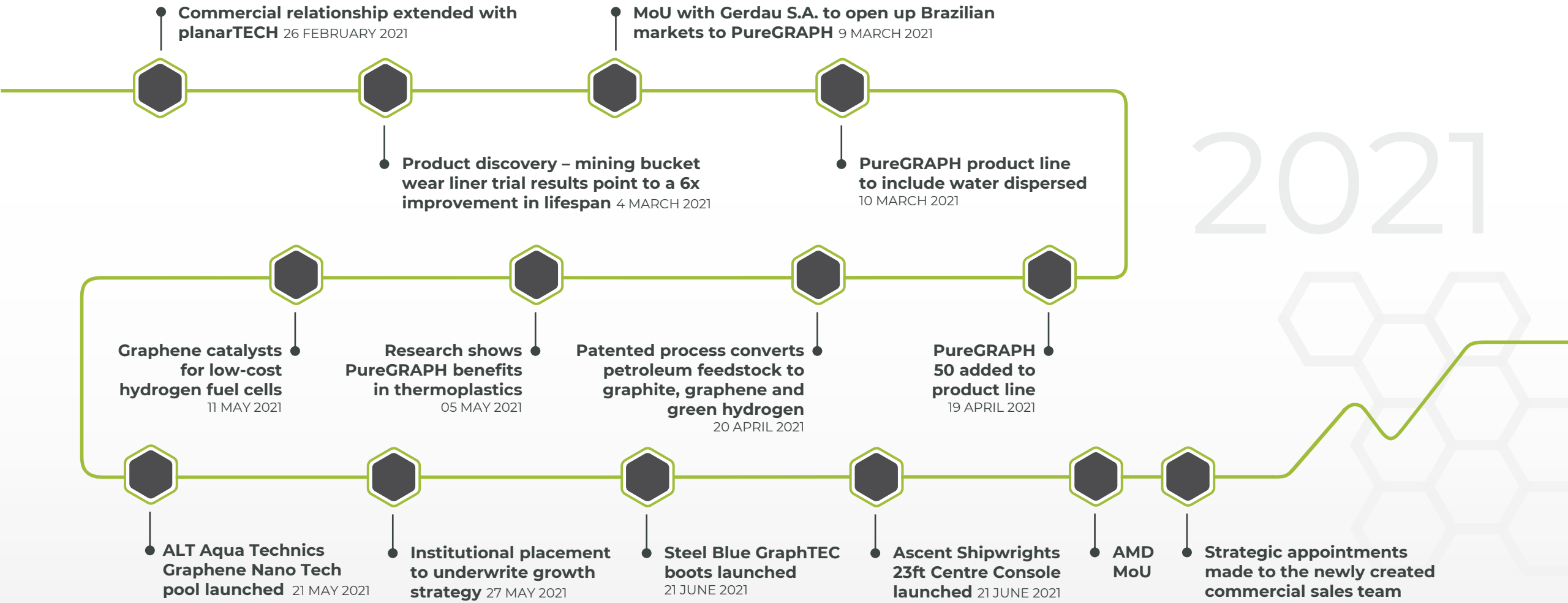

Sales and growth strategy

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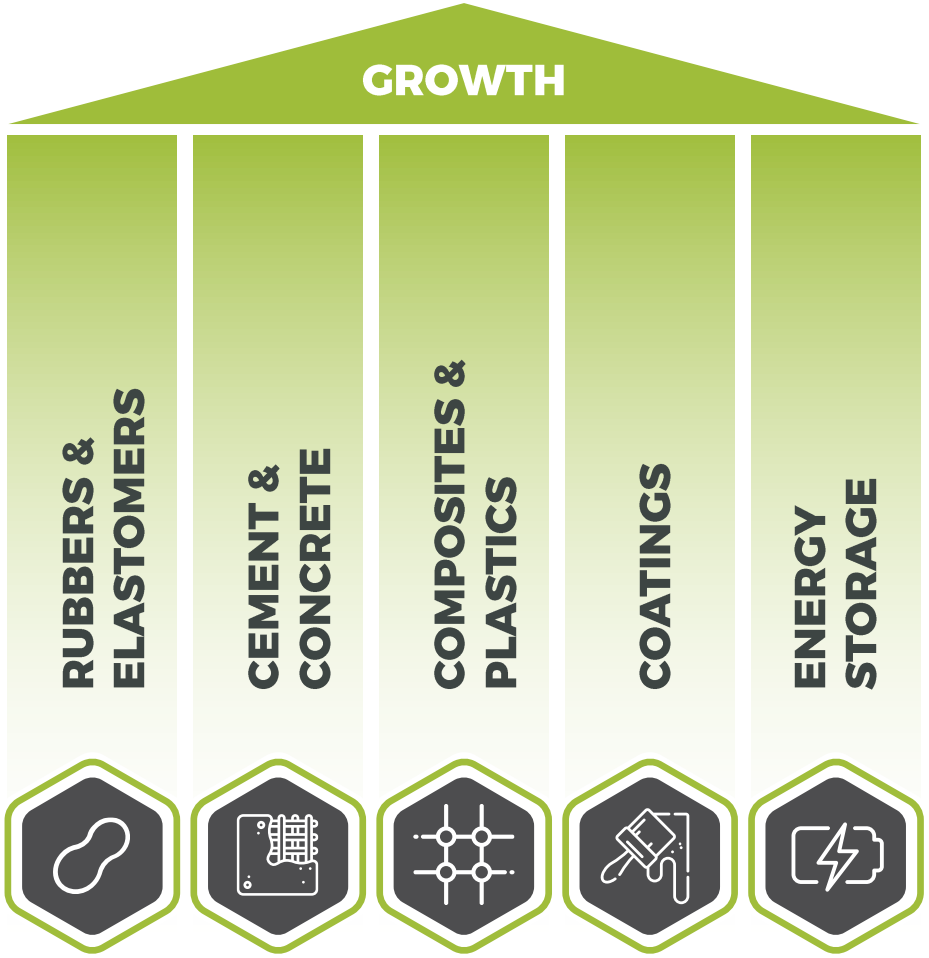
1. Global markets

Clear sales focus on immediate sectors include:

- **Rubbers & Elastomers**
- **Composites & Plastics**
- **Cement & concretes**
- **Coatings**
- **Energy storage**

2. New & innovative solutions

- Discovered new hydrodynamic cavitation process to convert petroleum feedstock into high-grade graphite and graphene.
- Applicable in lithium-ion battery anodes for electricity storage devices, also produces ‘green' hydrogen’ - appealing to oil producers looking to enter the green energy market.
- Successful tonnage sales in polymer strengthening and wear resistance.
- Qualifying trials with composites and concrete.
- Progress in novel supercapacitor and battery materials.



Investment highlights

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1.

COMMERCIAL GRADE PRODUCTION SCALE

FGR is the world's largest producer of commercial grade graphene – PureGRAPH® is a commercial grade, high volume and high quality/repeatable specifications adaptable to many products and industries

2.

EXPANDING GLOBAL SALES CAPABILITY

We're on an aggressive sales campaign to secure global market share – given the capability of our production facility we're ready to diversify our client base and grow

3.

COMMITTED TO RESEARCH AND PRODUCT DISCOVERIES

Ongoing research of new applications for driving greater demand of graphene led products and technologies – Green Hydrogen and process to convert petroleum feedstock (crude oil) into graphite/graphene materials

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