Investor Presentation

March 2021

ASX: SPN

Transformational Technology for Global Industries

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Investment Highlights

Sparc is pioneering new graphene technologies to disrupt and transform industry and science for a cleaner, greener and healthier world

1

World leading team and partners - cornerstoned by the University of Adelaide in collaboration with 5 leading universities in the ARC Graphene Hub

2

Profound opportunity to reshape multi billion dollar global markets underpinned by exclusive IP harnessing graphene as a new super material

3

Developing ground breaking technologies across our two core divisions in Environment & Sustainability and Bio-Medical & Health

4

Unique leverage to graphene's potential: well funded with commercialisation underway

** Cautionary Note: Access to markets is subject to the Company being able to successfully develop and commercialise the graphene technologies. Sparc does not have any distribution or offtake agreements in place at this stage. As with any entity seeking to enter into a global marketplace, any product developed by Sparc will have applications that are constrained by market segment, relevant regulations, industrial application and geographical barriers.*

Sparc Technologies - Snapshot

Corporate overview	
ASX Code	SPN
Market cap (at $0.28 per share)	$20m
Shares on issue	71.4m
Cash (as at 31 Dec 2020)	$4.9m
Debt (as at 31 Dec 2020)	$0.0m
EV	$16.5m
Major shareholders	**% held**
Adelaide University	5.5%
Hoperidge Enterprises	5.1%
Director's and Management	17.0%
Top 20 Shareholders	43.1%

SPARC TECHNOLOGIES BOARD

Stephen Hunt
Executive Chairman

Tom Spurling
Non-Exec Director

Daniel Eddington
Non-Exec Director

EXECUTIVE MANAGEMENT TEAM

Mike Bartels
CEO

Peter Wilson
General Manager, Engineering

Andrew Smith
Technical Manager – Coatings & Composites

Ben Yerbury
Technical Lead – Bio-Medical & Health

Don Darkin
Strategic Advisor - Commercialisation

Graphene: **A New Generation Supermaterial**

WHAT IS GRAPHENE?

Graphene is a 2D material made of carbon atoms arranged in a hexagonal lattice which creates unique and powerful properties capable of transforming and disrupting global industries.

PROPERTIES OF GRAPHENE

LIGHT
a football field weighs less than one gram

THIN
Just one atom thick

STRONG
200x stronger than steel

HYDROPHOBIC
separates toxins from water

ANTI-MICROBIAL
remarkable bactericidal activity

UNIQUE
Graphene's remarkable properties allow it to be applied to produce raw materials with superior properties and high value benefits

SUPER-CONDUCTIVE
possesses high electron mobility

ELASTIC
retains elasticity and flexibility despite strength

FUNCTIONAL
Not all graphene is the same – graphene must be "functionalised" for specific purposes

SPARC GRAPHENE DIVISIONS

ENVIRONMENT & SUSTAINABILITY

BIO-MEDICAL & HEALTH

Focusing on adding functionality to selected grades of graphene in order to deliver targeted market solutions

Source: Graphene-info.com, Australian Graphene Industry Association

Sparc's Graphene Divisions

Sparc aims to harness graphene as a new generation supermaterial to transform global industries in our two core divisions: Environment & Sustainability and Bio-medical & Health

Restoring the natural environment and removal of toxic substances

Reducing global carbon footprints and emissions

Working to enhance the energy revolution

More efficient, longer lasting, more durable and sustainable products

Improving human health outcomes

Early detection of disease and prevention of disease progression

Non toxic and long lasting sterilisation via graphene's anti-bacterial, anti-viral and anti-microbial functional applications

Initial Target Markets

Environment & Sustainability – Business Units

Coatings

- Our graphene products have been demonstrated under strict IOS standards to significantly enhance corrosion resistance in coatings
- Further work underway to test drag reduction in global shipping fleet, diesel fuel savings, carbon emission reduction and non toxic anti-fouling applications
- US$44 billion addressable market by 2025 and early engagements with key industry players underway
- Key applications in defence, aerospace and industry being explored
- Evaluation of the antibacterial properties of graphene based additives in coating systems with recent results showing significant improvement

Environmental Remediation

- Our graphene products have been demonstrated under strict testing standards to substantially improve PFAS and other chemical removal from waterways and soils
- US defence alone has contaminated PFAS sites exceeding US$2 billion in remediation costs
- Widespread contamination of sites continues to affect public health across the globe

Metals Recovery

- Utilising specialised graphene filters to separate specific metals from mine tailings to increase sustainability in environmentally conscious manner
- Initial focus on precious metals - exploration for carbon neutral energy metals recovery underway
- +US$1 trillion in unrecovered metals currently in mine tailings

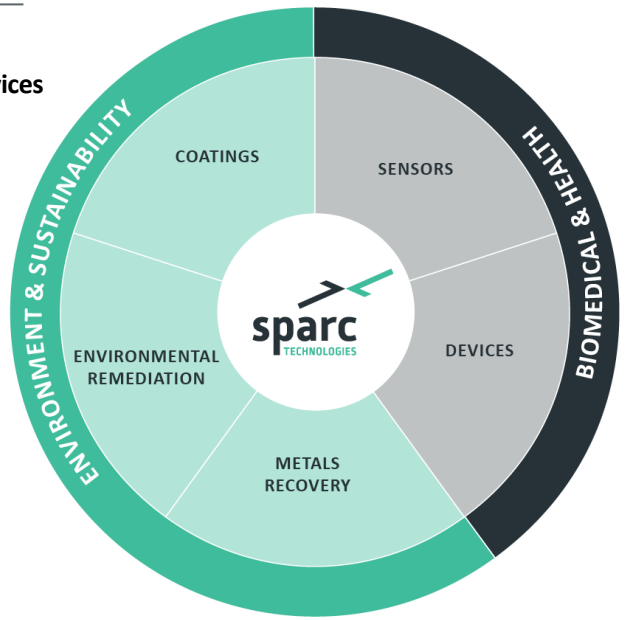
Bio-Medical & Health – Business Units

Biomedical Sensors

- Development of non-invasive biomedical sensors to detect specific markers of disease in breath
- Potential for profound global applications in the early detection and management of a wide range of disease
- Possible human and animal applications

Broader biotechnology applications and devices

- Work underway to consider utilisation of Graphene's unique properties for further biotechnologies
- Hospital, surgical, in-patient out-patient and community applications currently under consideration



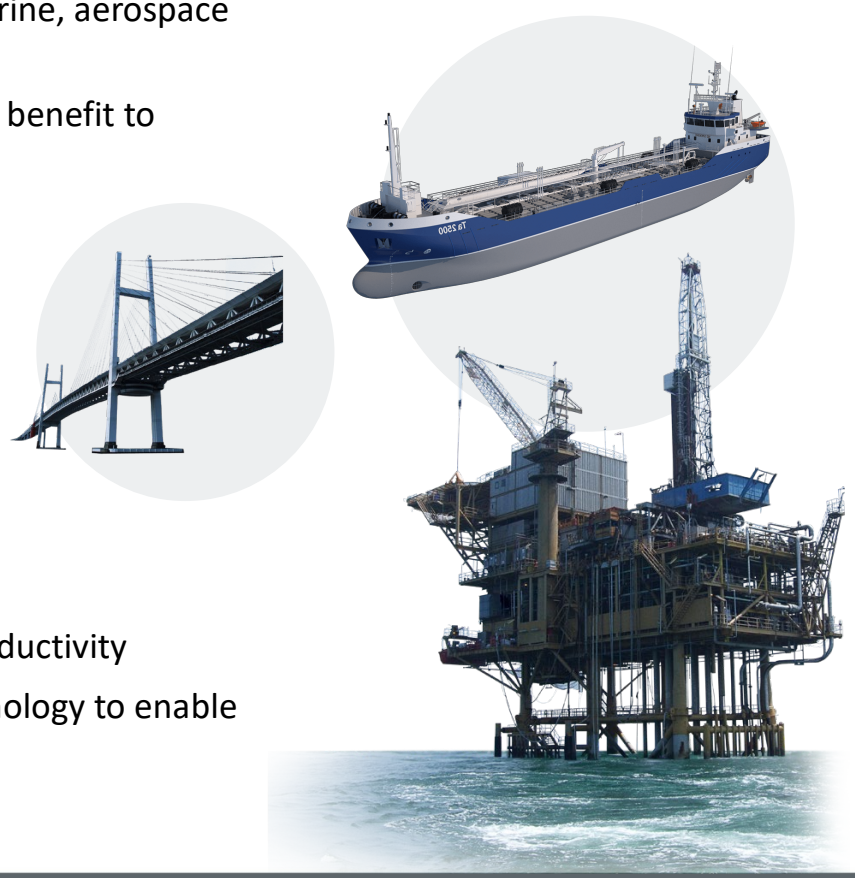
Coating Industries

Environment & Sustainability

Sparc TECHNOLOGIES graphene enhanced coatings have the potential to enhance billion dollar markets

Graphene and Coatings [1]

- Graphene as a performance additive in marine, aerospace and industrial applications of coatings
- Graphene's unique features provide added benefit to coatings;
  - ✓ **Unique anti-corrosion qualities**
  - ✓ **Improved drag efficiency**
  - ✓ **Anti-microbial benefits**
  - ✓ Superior hydrophobic qualities
  - ✓ Chemical repulsion
  - ✓ Exceptional UV protection
  - ✓ Fire-resistance
  - ✓ Improved electrical and thermal conductivity
- SPN has exclusive access to patented technology to enable targeting of the above markets globally



Andrew Smith
Technical Manager - Coatings

Andrew is a development chemist specialising in Heavy Duty Coatings, specifically, the development and testing of anti-corrosive coatings. Andrew has held senior regional technical management roles for AkzoNobel (world leader in coatings with brands including International, Chartek, Sikkens, Awlgrip, Devoe), in Australia, Asia and the Americas.

These roles involved responsibility for product development, testing and integrity, as well as Technical Support functions. Andrew most recently has been involved in implementing major restructuring initiatives for AkzoNobel, including rationalisation of manufacturing capability in the South Asia region.

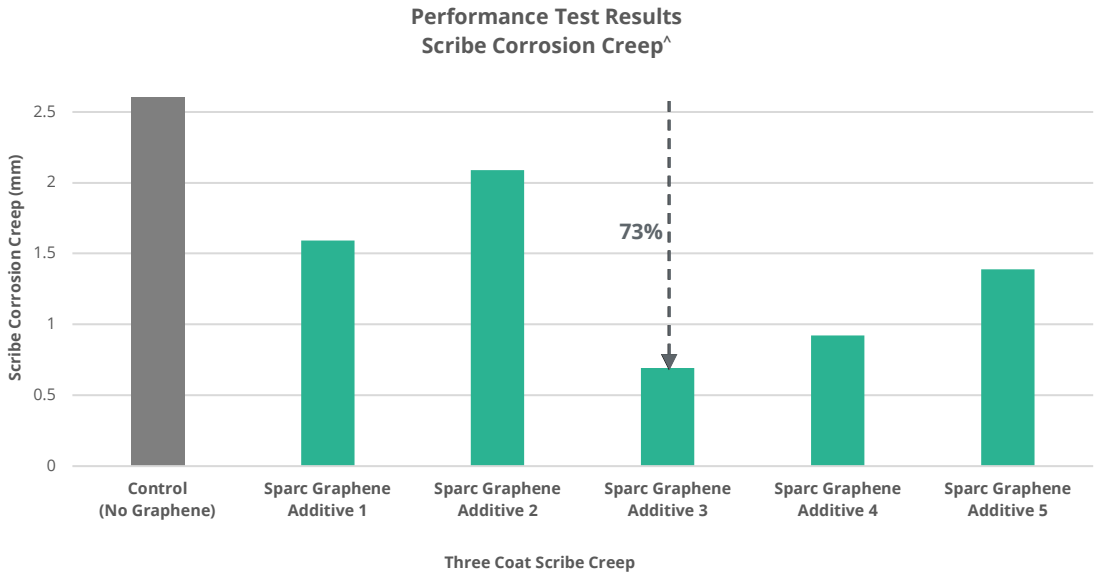
1. American Coatings Association

Coating Industries - SPARC Product Performance

Environment & Sustainability

- SPARC Graphene enhanced coating performs with a **73% improvement*** on industry standard coatings

SPARC enhanced coating has demonstrated the potential to improve the performance of a low cost commodity product with the addition of a Graphene based additive.



Test results showing anti-corrosion performance of coatings with a Sparc Graphene additive. Lower values demonstrate better performance

- SPARC Graphene enhanced coating showed **complete destruction of the E-Coli bacteria** when compared to the same coating type containing no graphene.

SPARC enhanced coatings have potential applications in areas for the control of bacterial growth on surfaces such as; hospitals, public areas, food preparation facilities, drinking water systems, antifouling for shipping and coating for wastewater systems.

Testwork included multiple coatings containing proprieatery graphene formulations. Coating with Graphene 3 formulation, Sample S0047, demonstrated the most significant improvement to the destruction of E-Coli.

* See ASX Announcement 14 January 2021

Water Purification and Soil Remediation

Environment & Sustainability

Proven application of water and soil remediation to be utilised at environmentally contaminated sites

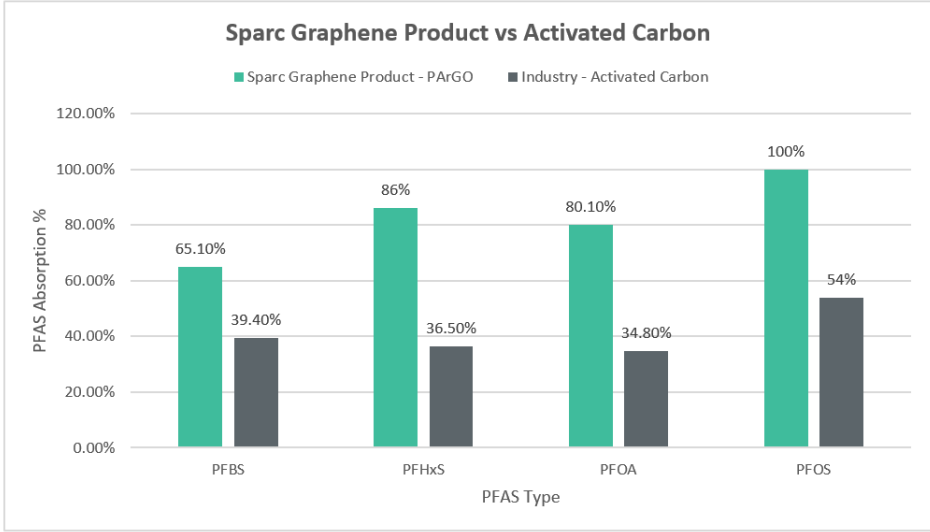
Pollution Remediation

- The potential applications of graphene in pollution remediation are adsorption, membrane separation, catalysis and environmental analysis
- The adsorption efficiency of graphene adsorbents largely depends on its surface area, porous structure, oxygen-containing groups and other functional groups, adsorption conditions, and also the properties of adsorbates[1]
  - SPN has identified potential applications of water purification and soil remediation
- Australia alone has an estimated 160,000 contaminated sites with as many as 75,000 different contaminants[2]

Global Patent Pending
PCT/AU2016/05041– **Water Purification and Soil Remediation** - water purification, oil removal from water, soil remediation

Progress

- SPN has demonstrated its graphene remedy is substantially more effective than the industry standard and is undergoing active development to prove the commercial application for:
  - Containment of PFAS using graphene
  - Destruction of PFAS using graphene, which is potentially transformational



Absorption rates of various forms of PFAS with Sparc graphene product versus Granulated Activated Carbon

1. Research Gate, Yang et al.
2. Sector Study on Environmental Services: Environmental Damage Remediation Services, Oct 2017
3. Please refer to the cautionary note re market access on slide 4

Metals in Tailings

Environment & Sustainability

Estimated US$1 trillion worth of precious metals sitting in mine tailings[1]

Graphene and Soil Remediation

- Sparc graphene based adsorbent testing demonstrates significant outperformance of commercially available adsorbents for gold (Au) and silver (Ag)
- Best Sparc results highlight 96.98% and 97.82% adsorption of gold and silver from solution into graphene based adsorbents
- Further test work underway including plans to include trials from gold and silver tailings from mine sites

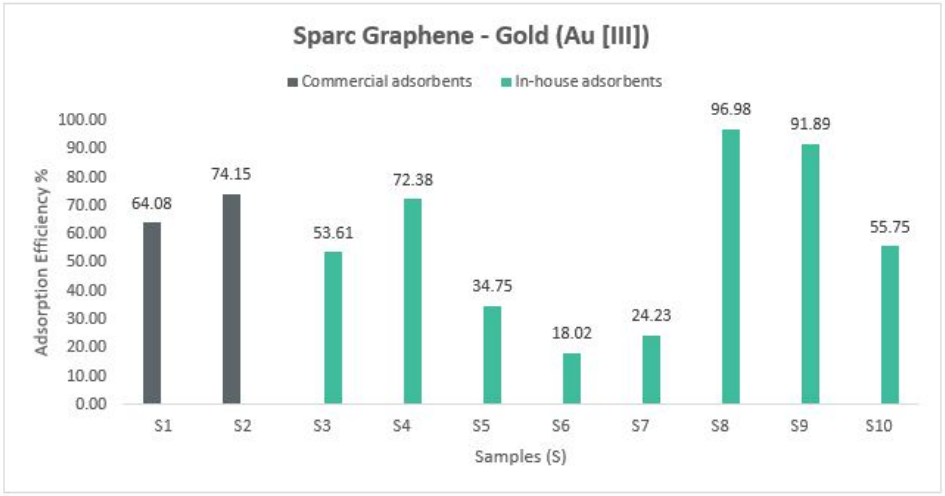


Chart 1 – Adsorption efficiency of different commercial and in-house adsorbents for Gold (Au [III]) ions. Adsorption conditions: Volume 20 mL; sample dosage: ~20 mg; pH (Au^{3}) = 4.20; $Au^{3+}{}_{i}$ = 1.2 mg L^{-1}, T= 21.0-22.0 °C; equilibration time: 5 hours at 200 rpm.

Market Size

- Estimates that there is approximately US$1T worth of precious metals already extracted from the ground, sitting at old mining sites globally[1]
- Opportunity to work with local mining industry
- Initial Focus on Precious and Base Metals
- Exploring potential for recovery of green energy metals

1. Mining [DOT] COM, Ana Komnenic

Bio-Medical Sensors

Bio-Medical & Health

Sparc TECHNOLOGIES' recently established bio-medical division aims to improve health outcomes and disease identification and management

Biomedical Sensors

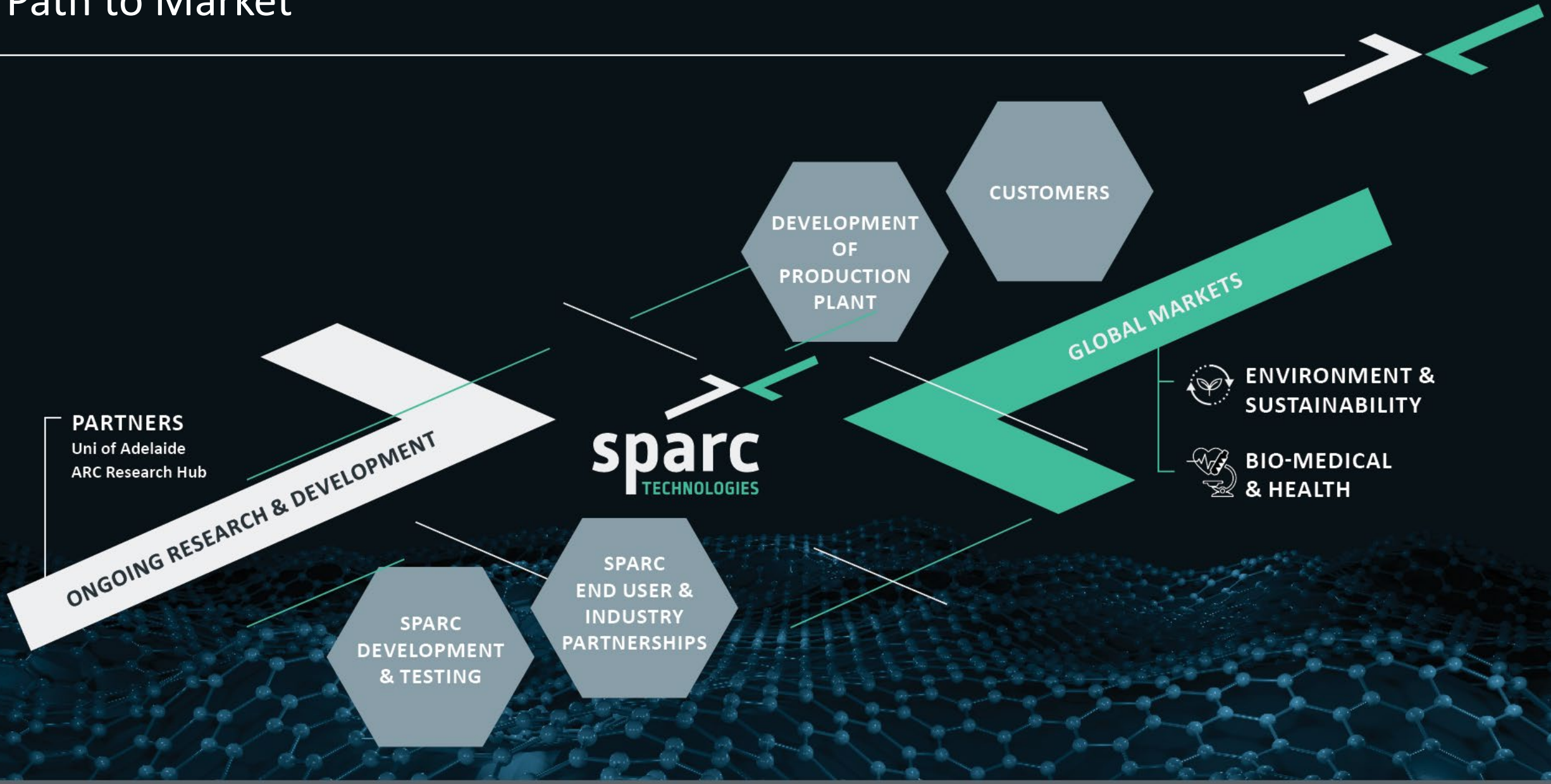
- Focus of the project will be on research and development of graphene-based sensing devices
- Initial work by Sparc, in collaboration with University of Adelaide, will include development/fabrication of lab-scale sensing devices

Ben Yerbury
Technical Lead – Bio-Medical

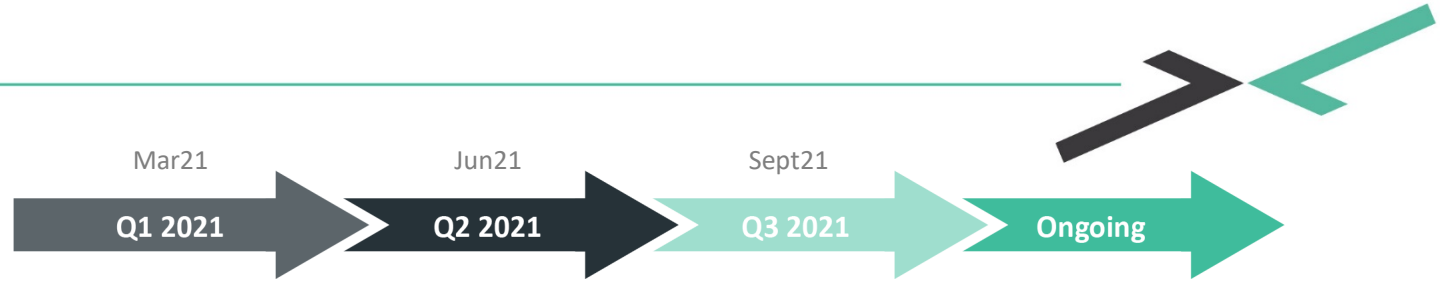
Mr Yerbury has over 20-years' experience in the global medical device industry with Fortune 500 organisations including ResMed, Baxter Healthcare, Boston Scientific and Zimmer Biomet. His experience spans a broad range of clinical specialties and technologies across the respiratory and cardiovascular fields to orthopaedics and general surgery, to infusion therapy and nephrology.

Mr Yerbury brings a wealth of experience across Australia and New Zealand, Asia Pacific and European markets and their respective reimbursement models and regulatory environments, which will be invaluable to Sparc's commercialisation and development strategies. Mr Yerbury has direct and wide expertise in launching new, disruptive, technologies and business models to accelerate business growth and build competitive advantages in the medical device industry

Path to Market

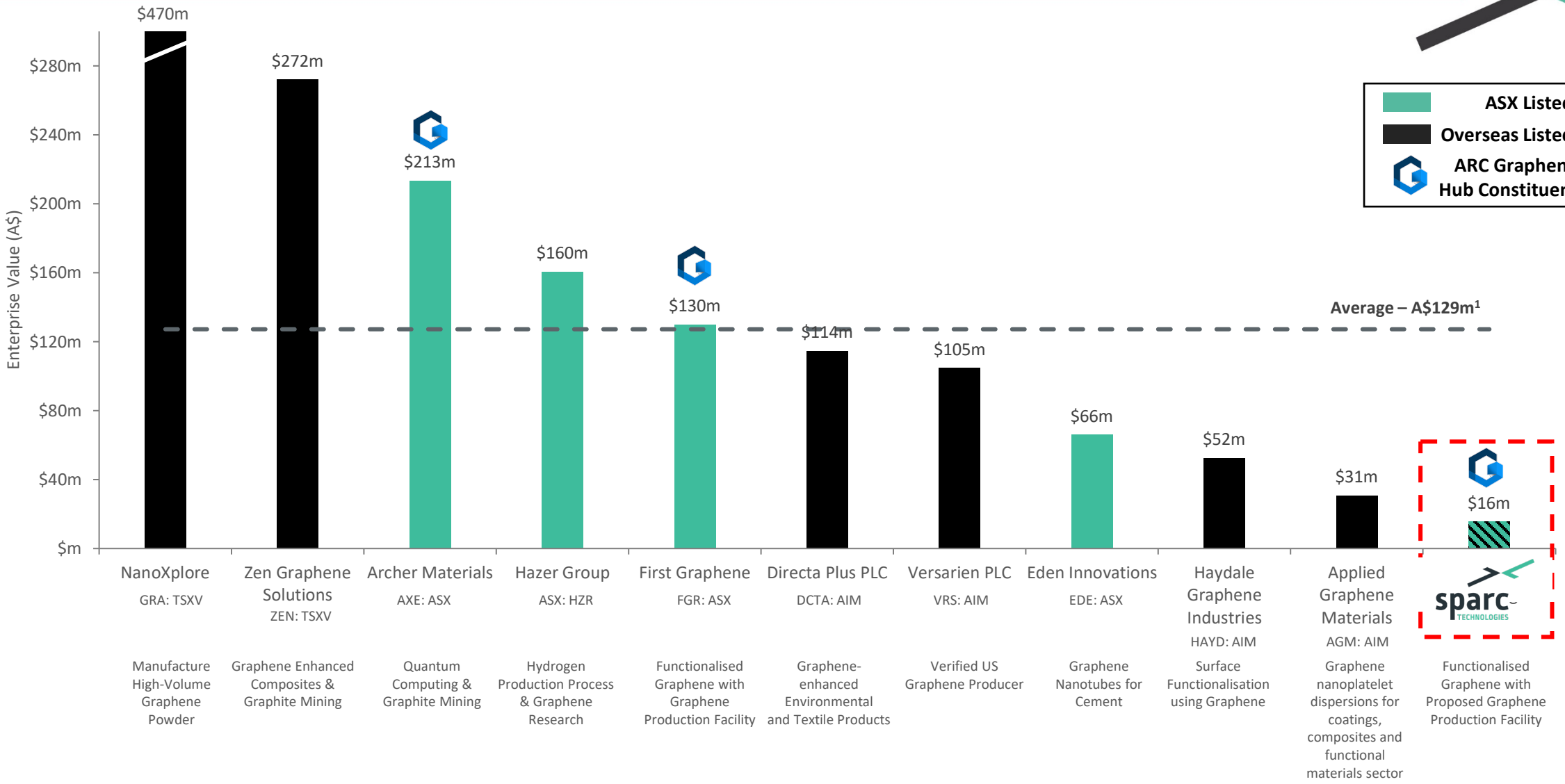


Roadmap



Coatings
Coatings test results
Industry partner discussion
Oil spill remediation
Demonstration test work
Industry partner discussion
Metals recovery
Demonstration model development
Industry partner discussion
Bio-Medical
Sensor Project
Industry Partner Discussions

Broader Industry Comparisons



Note: All Enterprise Values Sourced from Factset in AUD as at 19 March 2021

1. Average excludes Sparc & Nanoxplore

Collaboration with the University of Adelaide

Sparc TECHNOLOGIES has a strategic relationship and exclusive licensing agreements with key collaborator and partner, the University of Adelaide (UA), which is a world leader in graphene

- UA ranked as principal member of the Graphene Hub. UA is a world class institution, ranked in the top 1% of Universities globally
- The UA team has generated 7 patent applications (4 at PCT stage and 3 IP Disclosures) and developed over 20 graphene based products
- SPN to contribute at least $1.5M over three years to UA and Graphene Hub or graphene research and development in order to retain and develop world leading applications

1 Exclusive Licensing Agreement with UA

- UA is a cornerstone shareholder of SPN
- SPN is currently licensing 3 technologies under patent application related to marine and protective coatings, water purification & soil remediation, and sound absorption
- Patents have 20-30 year lives
- Extremely favourable terms - No ongoing licence fees or royalties for SPN

2 Strategic Partnership with UA

- SPN has first right of offer on any future unencumbered graphene technologies developed by UA
- Other projects identified – research and development underway

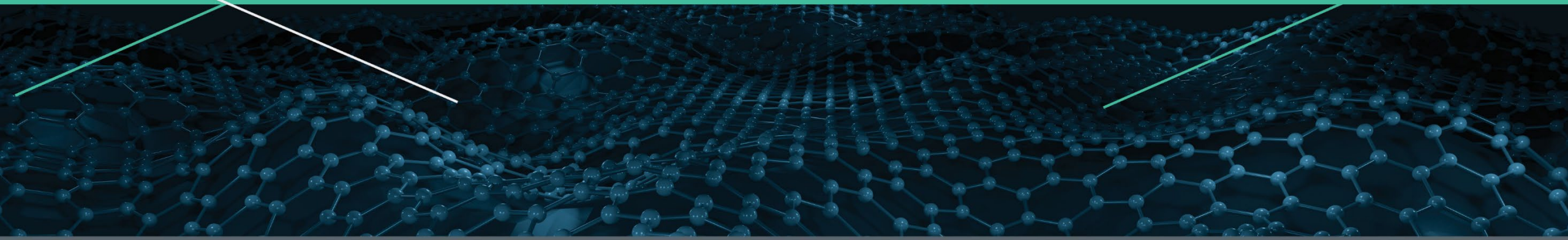
3 Project Agreement with UA

- SPN to contribute towards research and development of coatings applications at UA
- SPN already committed $500K within one year for first project development

4 Project Agreements with the Graphene Hub

- SPN contributing towards research and development on three projects in conjunction with the Graphene Hub
- Projects include water purification, metals recovery from tailings and soil remediation

Disrupting global industries with Graphene based transformational technology



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Released with the authority of the board – 22 March 2021