



GRAPHENE

# 2023 Annual General Meeting - Update Report

January 2024

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# Strategy and Business Plan

We have continued with our collaboration-based strategy, focusing on the formation of strategic partnerships with industry leading companies who have the expertise to incorporate our graphene-based technologies into commercial products.



- ⊞ Building on our partnerships and technology over 12 years and over \$8m spent in R&D funding, Ionic is now one of the first companies to demonstrate large scale, commercially viable application of graphene technologies
- ⊞ Collaboration model reduces technology validation risks and accelerates paths to market, thereby reducing uncertainty and business risks
- ⊞ Portfolio approach to technologies and applications mitigates the risk of reliance on a single technology and expands potential markets, while remaining focused on our unique competitive advantages



# Our Technology Partners



Australian advanced supercapacitor manufacturer.

JV arrangement in place for manufacture and marketing of supercapacitors.

Global market for supercapacitors \$22B by 2028 with total energy storage systems markets to reach \$435B by 2030



Supply agreement with GeoFabrics Australasia, our sensing geosynthetics are delivering leak detection for dams and water storage utilities for environmental protection and assurance.

### **Cash flow positive.**

Global markets forecast to be over \$13B in 2026.



JV arrangement in place with the world's largest flooring company, Mohawk Flooring.

Completed market study to identify target markets being commercial facilities in healthcare, security, retail and gaming and sports.

Addressable markets for smart building technologies of over \$100B by 2025, and \$550 million for smart flooring specifically.



Global leader in rubber technologies, Continental AG.

Graphene in transmission and conveyor belts to measure wear and tear, detect failures and weigh-in-motion.

Already delivered smart conveyor project and currently working on Pilot Project for smart belts.

Addressable markets for transmission and conveyor belts of \$15B by 2025.



*To be disclosed later, once project is further progressed*

€27B Global chemicals company, one of the world's largest suppliers of roofing membranes.

LOI signed and pilot project under way to jointly develop real-time leak detection for concrete rooves.

Addressable markets for leak detection in roofing systems is predicted to be \$17.4B in 2024.

# Ongoing Research Initiatives



We are still continuing our research programs to build a strong funnel of materials technologies that will ensure our long-term success as a deep tech company working in high-impact markets

- Australia's Economic Accelerator (AEA) Funded Project: Enabling the Lithium economy by creating value-added product(s) for energy storage market
- Advanced Manufacturing with 2D Materials Hub
  - Improved performance and optimisation of current generation graphene supercapacitor materials
  - Next gen 2D materials for supercapacitors and other energy storage applications
  - Printed graphene for next generation electronics and communications
  - Advanced 2D materials for hydrogen storage applications
- StorEnergy – Zn/Air battery work, project completed and awaiting publication
- Ionic Laboratory, Mt Waverley
  - Support Monash work with larger space requirements and translation to manufacturing work
  - Next generation conductive coatings and new applications
  - Manufacturing process optimisation and innovation





# Capital Raising and Next Steps



We have a number of near-term steps on our path to commercialising our technologies

## ◆ Commercial partnerships

- ▶ Kick off work on smart flooring JV collaboration
- ▶ Finalise smart belts project collaboration agreement

## ◆ Capital Raising and IPO Planning

- ▶ Raised over \$1.4m through placements to 5708 Sophisticated Investors and a Rights Issue to existing shareholders
- ▶ Targeting listing on the Toronto Venture Exchange (TSXV) to create better access to capital markets and strategic partnership opportunities

## ◆ Manufacturing

- ▶ Continue and increase production, growing revenues from \$500,000 p.a. to \$1.5m p.a. using a combination of more efficient processes and new manufacturing techniques
- ▶ Expand manufacturing to other markets outside Australasia



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Thank You

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