



GRAPHENE

Annual General Meeting - Update Report

December 2022

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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 11 years and \$4.5 million 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

Cap-XX and Technology Validation



In May 2022, we finalised our joint venturing arrangement with Australian supercapacitor company Cap-XX.

- ◆ World-leading supercapacitor manufacturing technology, focusing on small form-factor thin film capacitors
- ◆ Over a period of 3 years now, Cap-XX scientists have had the opportunity to fully vetted our technology and found it to have extraordinary potential
- ◆ Over the past year we have been working together to refine materials and design products that leverage the benefits of our graphene materials to maximum effect
- ◆ A significant part of our focus has also been on upscaling manufacturing processes for active materials so that we can deploy them in large-scale supercapacitor manufacturing systems

CAP-XX **SUPERCAPACITORS**
Powering next generation products

Acquisition of Imagine Intelligent Materials Ltd



One of our biggest news stories in 2022 was the acquisition of Imagine Intelligent Materials, finalised in June.

- ◆ Funded through sale of NematiQ to CleanTeQ in 2021
- ◆ New technology streams, including some close to commercialisation
 - ◆ Leak detection in geotextiles – customers awaiting supply
 - ◆ Smart geotextiles
 - ◆ Smart flooring – Collaboration agreement signed with one of the world's largest flooring companies
 - ◆ Smart belts / rubber products – Project agreement under negotiation with one of the world's largest rubber technology companies
- ◆ Gives us a new business profile that we predict will be valued more highly by markets when we come to list

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

- ◆ 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
- ◆ Ionic Laboratory Mt Waverley
 - ◆ Support Monash work with larger space requirements and translation to manufacturing work
 - ◆ Next generation conductive coatings and new applications



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
- ◆ IPO Planning
 - ▶ Delayed due to Imagine acquisition, but on track now and with a much more compelling value proposition
 - ▶ Targeting North American markets
 - ▶ Currently exploring capital requirement and support arrangements - aiming for early 2023 depending on market timing and regulatory processes
- ◆ Manufacturing
 - ▶ Finalise manufacturing arrangements and contracts for geotextiles
 - ▶ First revenues expected Q1 2023



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Thank You

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