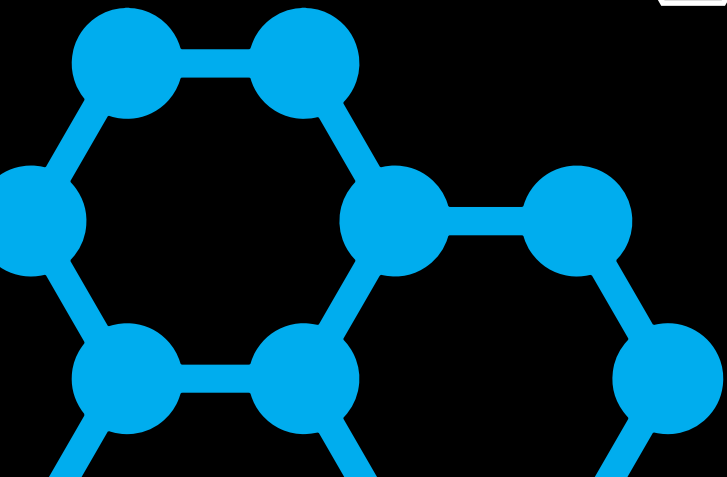
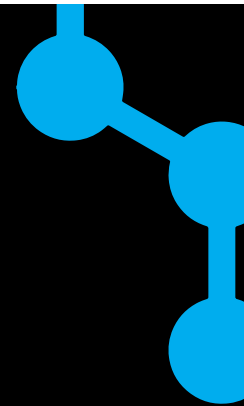


GRAFOID

A Complete Solutions **Graphene** Company



Presentation Outline

- ◆ **Grafoid**
- ◆ **2GL Platform**
- ◆ **Commercialization -
*Products & Challenges***
- ◆ **Globalization**
- ◆ **Collaboration**
- ◆ **GO Foundation**

The Company

- **Graphene R&D, application developer and technology licensing company**
- **Global company with a strong focus on Asia**
- ***Grafoid's Global Technology Centre* – 20,000 m² - Canada (Kingston)**
- **Patented 1-step process for producing high-quality affordable graphene**
- **Develop graphene apps in 4 areas: energy, composites, coatings, membranes**
- **Look for strategic corporate partners to develop applications**
- **Transitioning from an R&D focus to commercialization
Part of a unique enterprise platform called 2GL**



2GL

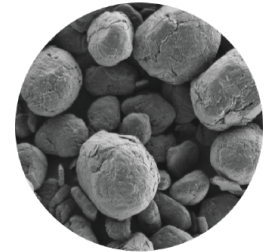
PLATFORM
GRAPHENE - GRAPHITE - LITHIUM



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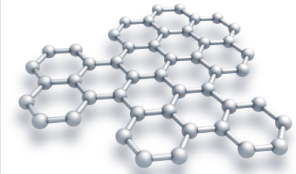
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GRAFENE Technology

SURFACE ENGINEERING WITH GRAPHENE

- **Novel technology for deposition of graphene and chemically functionalized graphene coatings**
- **For metal, glass, polymer, ceramic and other substrate applications**
- **Ability to control levels of surface coverage, thickness, etc. to meet requirements**
- **Overcomes barriers to entry for graphene coating technology**
- **For industries looking to develop next generation materials and products with a cost effective way of laying down graphene coatings on large surface areas**



GPURE

LARGE SURFACE AREA GRAPHENE MEMBRANES

A CLEANER FUTURE

- **Grafoid's GPURE graphene membranes form a group of novel disruptive design and fabrication technologies intended to serve as high performing alternatives to conventional industrial polymer and silicon membrane materials.**
- **Our GPURE graphene-polymer membrane technologies open the door for the global industry to consider the advantages of a low-cost, high performing option to conventional polymer membrane chemistries.**





Membrane Technology

■ Introduced 6 products which may be used for -

- A) Water desalination applications**
- B) High temperature wastewater filtration**
- C) Water filtration pre-treatment - may be suitable as a lightweight component for automotive applications**
- D) Gas separation**
- E) Gas sensing**
- F) Applied as a graphene varnish for wood surfaces to protect against moisture, UV light and high temperatures**

Commercialization –

Lessons and Challenges

Grafoid's road less travelled:

- **Early vision: mine-to-market**
- **Focus on applications**
- **Leverage our position**
- **2GL**

Early moves:

- **Prove science**
- **Build profile**
- **Attract partners**
- **Convince investors**
- **GGTC hub**
- **Security of supply**

Commercialization –

Lessons and Challenges

De-risked growth

- **Application development 3 ways: internally, strategic alliances & JVs, acquisitions**
- **Cash flow: graphene as a percentage of revenue**
- **Business model: royalty and spin-outs**
- **Let the market mature - before going public**

Tipping point has arrived

- **Paris Accord & Government Action**
- **Markets are finding comfort: policy is de-risking and focusing**

Challenges

- **Engaging with business – educating the opportunities**
- **Testing – the right tests and the time required**
- **Developing the sales engineering**
- **Collaboration – reaching and sharing**
- **CREDIBILITY**

EUREKA $\Sigma!$
innovation across borders



China



NANOMALAYSIATM



Globalization



GRAPHENE FLAGSHIP



GRAFOID
A Complete Solutions Graphene Company



Business Opportunity

- **Collaborate with a leading graphene application development company**
- **Enter graphene era commercializing your products**
- **Access to affordable high-purity graphene (Mesograf™ and Amphioxide™)**
- **Guaranteed security of supply**
- **Extensive academic, technical and laboratory reach**
- ***We bring the graphene & expertise and match it with your products***



FOUNDATION

What we are



**Private, globally
focused not-for-profit
organization.**



**Devoted to
accelerating the
pace of graphene
commercialization.**



**Driven by
members.**

What we do



**Support start-up
graphene entrepreneurs
or scientific innovators.**



**Develop their inventions
and bring them to market.**

How we do it



Offer a neutral collaborative environment.



Match qualified applicants/clients to supporting technology and administrative regimes.



Clustering approach.



THANK YOU

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