

GRAFOID

A Complete Solutions **Graphene** Company

Corporate Presentation
March 2016

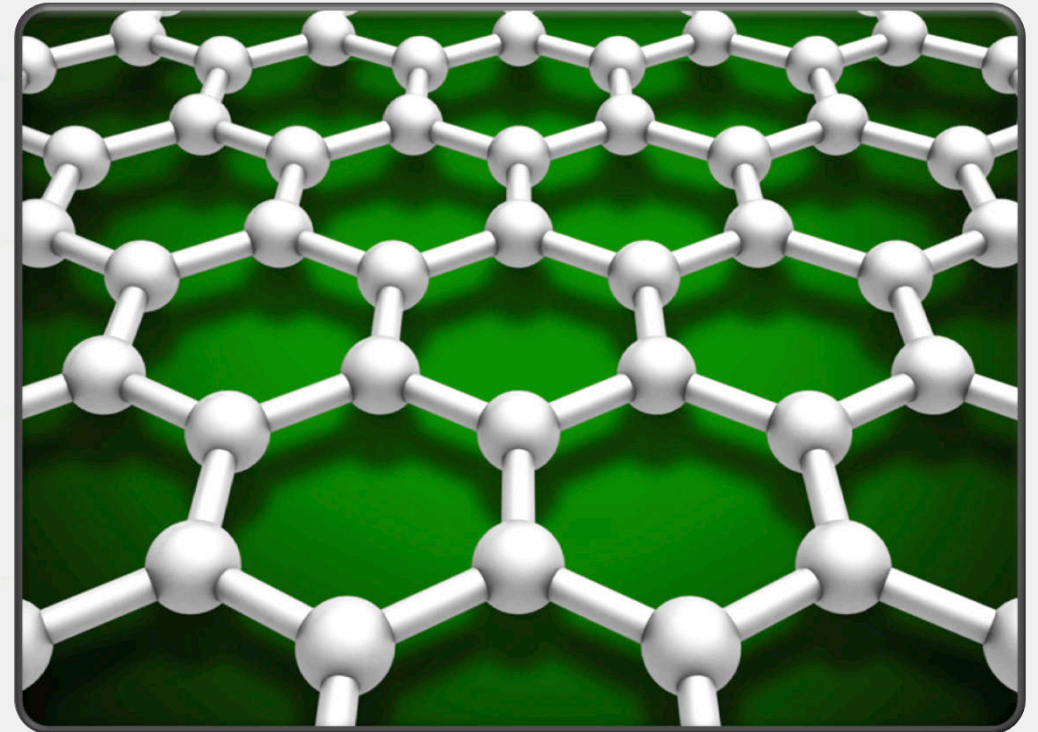
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Further detail on Grafoid's processes or plans may require the signing of a non-disclosure agreement (NDA) between the parties.

Graphene is the revolutionary miracle material that will forever change the world.

Grafoid has established itself as a global leader in graphene innovation.



What is Graphene?

What is Graphene?

- ◆ A two-dimensional nanomaterial
- ◆ Discovered by physicists Sir Andre Geim and Sir Konstantin Novoselov
- ◆ The Nobel Prize was awarded for ground-breaking experiments in 2010
- ◆ Graphene holds the potential to bring about a new era in materials
- ◆ The addition of graphene achieves a number of enhanced properties
- ◆ The total industry size impact exceeds \$100 billion
- ◆ The market for graphene remains immeasurable
- ◆ Graphene will change the way we work, live and play

Graphene's Revolutionary Material Properties

Graphene is a **One-Atom-Thick** Allotrope of **Carbon**

The **Strongest** Material Ever Measured

The **Thinnest** Material Known to Science

The **Stiffest** Material in the World

Highly **Flexible & Incredibly Light**

The Most **Impermeable** Material on Earth

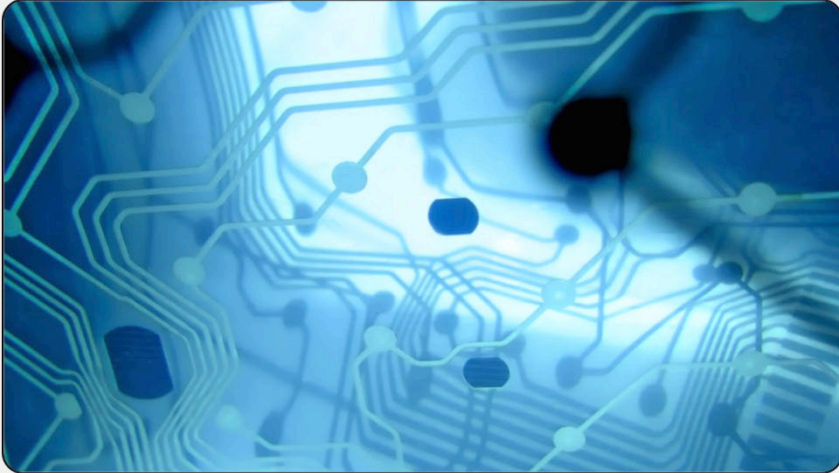
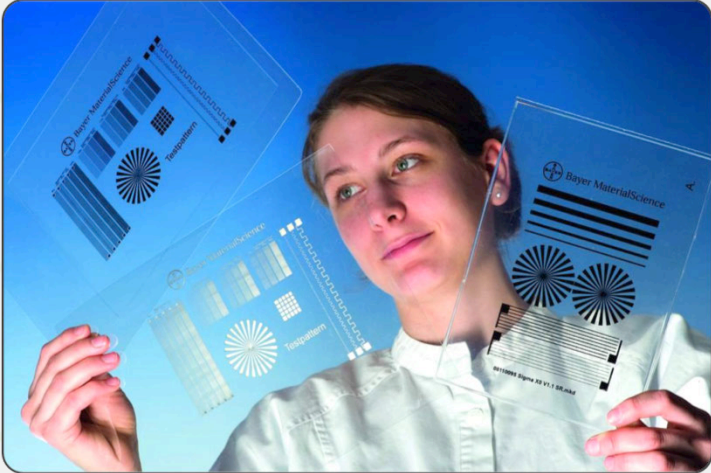
Record **Thermal & Electrical Conductivity**

Incredibly **Energy Efficient**

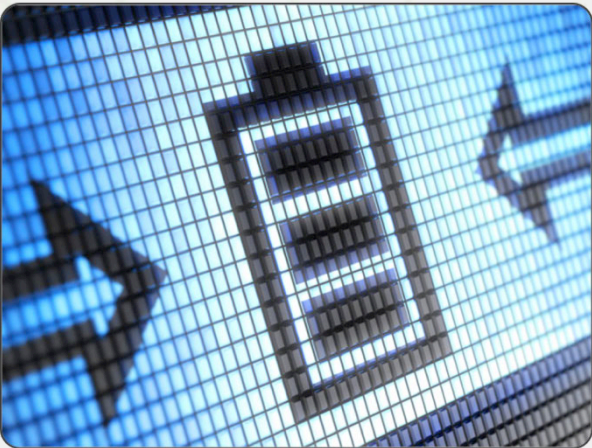
Graphene Applications

“The properties of graphene are truly amazing, and the potential applications extend across every industrial sector.”

Graphene Applications



Energy Storage Applications



Graphene Applications

- ◆ Plastics and Polymers
- ◆ Medical
- ◆ Coatings
- ◆ Energy
- ◆ Computers and Electronics
- ◆ Water Supply
- ◆ Communications
- ◆ Construction and Industry
- ◆ Coatings and Lubricants
- ◆ Automotive
- ◆ Aerospace
- ◆ Marine
- ◆ Chemicals
- ◆ Manufacturing
- ◆ Safety and Environmental
- ◆ Military and Defense
- ◆ Food Production
- ◆ 3D Printing

Graphene is a potentially disruptive technology to all of the
aforementioned industries and applications.

“The greatest challenge in commercializing graphene is how to produce high quality material, on a large scale at a low cost – and in a consistent, reproducible manner.”

The key to successfully commercializing graphene is based on 3 primary factors:

Having unlimited access to a secure source of high-grade, high-quality graphite

Being able to produce near-pristine graphene on an economically scalable basis

Partnering with the right players in the development of the right applications

Grafoid and its subsidiary **Graphite Zero** excel in all three areas, overcoming the barriers to graphene commercialization.

Grafoid – A Complete Solutions Graphene Company

“The key vendors dominating this (graphene) market space are BASF, **Grafoid Inc**, IBM Corp, and Samsung Electronics Co.”

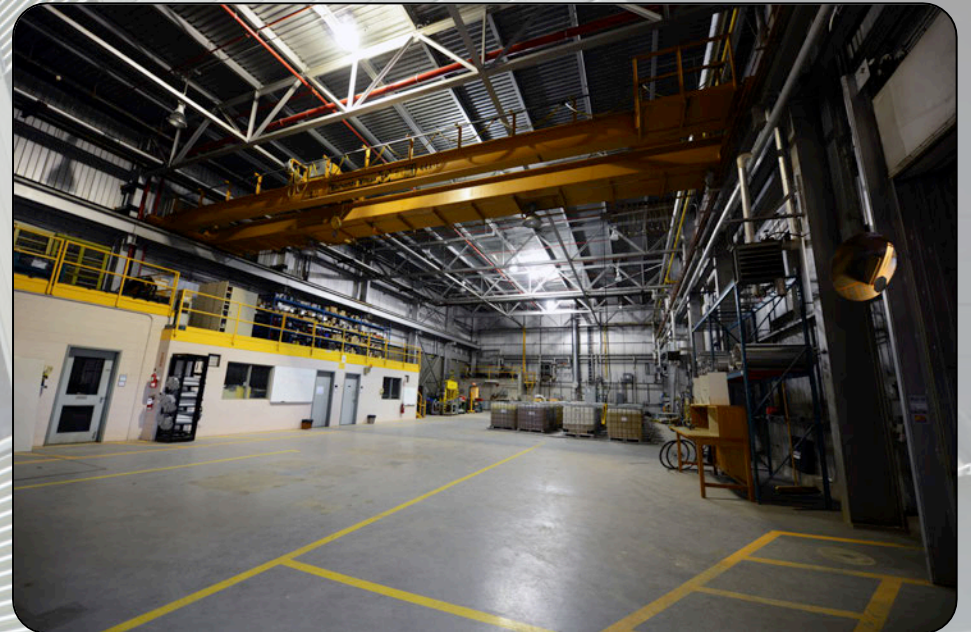
– *Global Graphene Markets 2012-2016*
Infiniti Research Limited, October 2013

Grafoid

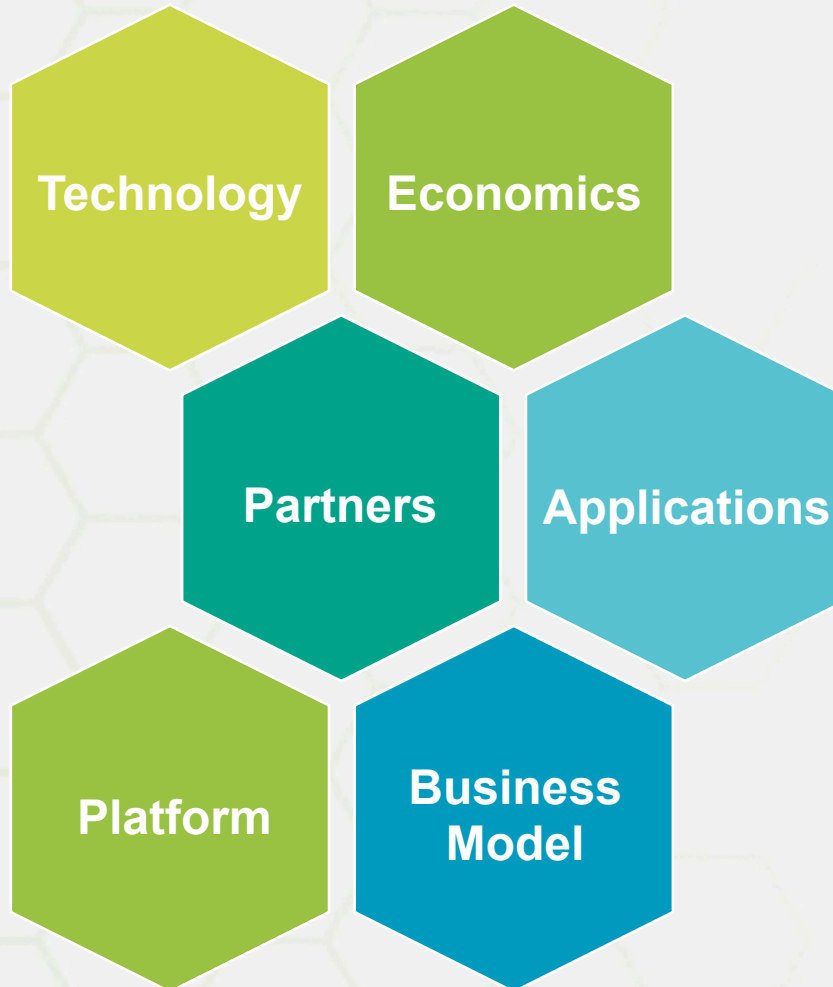
- ◆ Grafoid is a graphene research, development and investment company
- ◆ Has established itself as a global leader in graphene innovation
- ◆ Graphite Zero's process means low cost, high-purity graphene
- ◆ Grafoid is the global platform to deliver mine-to-market products
- ◆ **MesoGraf™** now sets the global standard for graphene
- ◆ **MesoGraf's™** performance is peerless
- ◆ Grafoid enables its partners to develop applications and markets
- ◆ Grafoid is unique in that it provides ***expertise, product and process***

Grafoid Global Technology Centre

- Former ALCAN aluminum research facility, based in Kingston, Ontario
- World-class 220,000-square-foot, state-of-the-art technology R&D center
- First fully-operational **MesoGraf™** graphene production facility in North America
- Home to Graphite Zero's North American MesoGraf™ graphene production facility
- Holds the requisite engineering expertise to advance Grafoid's scientific developments to the commercialization stages for **MesoGraf™**-based materials, products and novel applications



What's Unique About Grafoid?



How We Compare



Our Competitors

- Sells Graphene Solutions**
- Game-changing, one-step process to produce economically scalable graphene***
- A diverse company that doesn't depend on the success of one application**
- Partners with industry leaders worldwide to advance joint applications**

* through Graphite Zero



How We Compare

Able to generate revenue from every market sector

MesoGraf™ – The Global Standard for Graphene

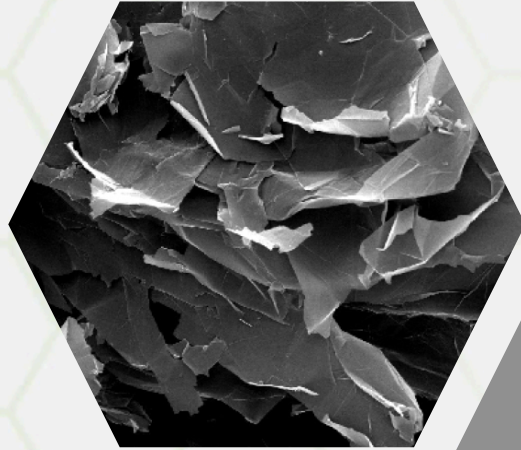
Environmentally friendly and sustainable



Our Competitors

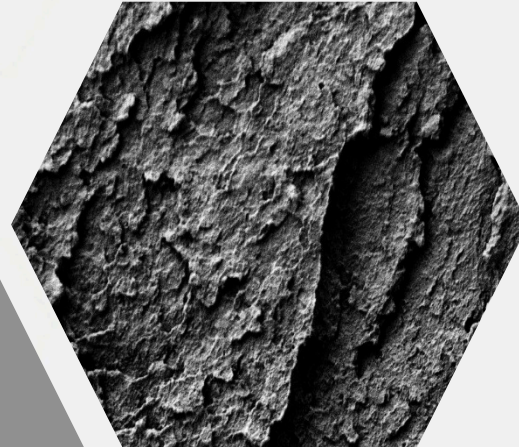
Grafoid brings world-leading expertise in graphene, resolves commercial scalability issues, tailors graphene for unique applications, and provides solutions for achieving success.

The Grafoid Advantage



Graphene is a very difficult product to work with

Most proclaimed manufacturers sell 'graphene' that is not graphene



Expanded flake materials are difficult to be utilized

Grafoid's Active Applications

SECTOR	TOTAL AVAILABLE MARKET (TAM)	SERVED AVAILABLE MARKET (SAM)
LFP Graphene Batteries	\$74B	\$11.1B
Graphene Polymers/Plastics	\$796B	\$119.4B
Graphene Foam	\$13B	\$2.3B
Fuel Cells	\$2.5B	\$280M
Electrochemical Capacitors	\$1.2B	\$108M

Grafoid's Active Applications

SECTOR	TOTAL AVAILABLE MARKET (TAM)	SERVED AVAILABLE MARKET (SAM)
Solar Panels/Solar Cells	\$90B	\$9.4B
Graphene Foils	\$9.3B	\$1.4B
3D Printing Materials	\$1.5B	\$330M
Automotive	\$5.1T	\$390B
Aerospace	\$4.8T (2013-2032)	\$531B

Grafoid's Active Applications

SECTOR	TOTAL AVAILABLE MARKET (TAM)	SERVED AVAILABLE MARKET (SAM)
Chemicals	\$5.3T	\$486B
Coatings and Lubricants	\$113B	\$13.8B
Thermal Management	\$10.1B	\$1.1M
Organic LED Lighting	\$14.5B	\$1.6B
Medical	\$124.5B	\$18.2B

Grafoid's Operations



Grafoid is a technology innovation company.
We are unique.



MesoGraf™ – The Global Standard for Graphene

MesoGraf™

MesoGraf™ is the first graphene to be trademarked in the world (May 2013)

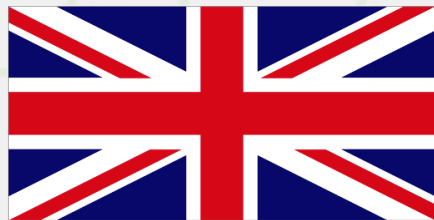
MesoGraf's 5 Core Attributes



Worldwide Graphene Market

Research Investment

- ◆ Billions are being invested worldwide on graphene R&D
- ◆ Funding is critical for graphene's commercial success
- ◆ Geopolitically there's a strategic race to commercialize graphene



- ◆ Over 200 major corporations are currently funding graphene research

U.S. & Canadian Government Involvement

- ◆ Both governments recognize the long-term economic imperative to support and foster graphene R&D
- ◆ Federal grants are available and Grafoid and its JV partners are successfully pursuing all eligible avenues for funding and partnering initiatives
- ◆ Grafoid received \$8.1m from the Canadian Government to build the world's first automated graphene production line

Canada 



Worldwide Graphene Market

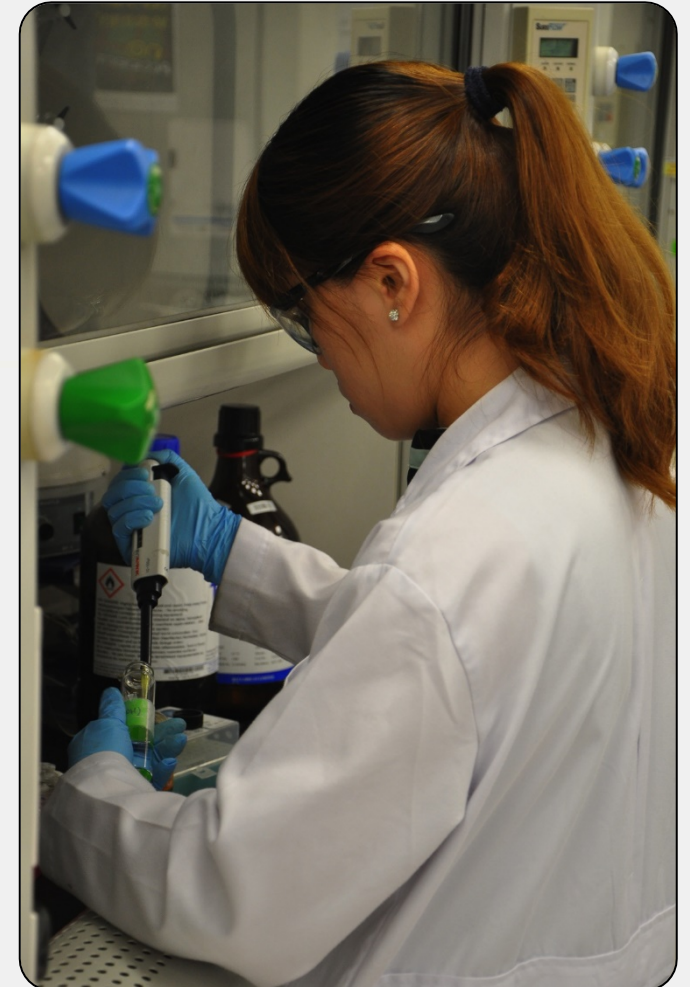
Revenue Forecasts

- ◆ First commercially significant sales of graphene products before 2017
- ◆ The graphene market is expected to expand dramatically after 2017
- ◆ 60% CAGR (2015 – 2020)
- ◆ There are several known areas of growth
- ◆ Does not account for new frontier applications
- ◆ Potential is contingent on the affordability of graphene

The MesoGraf™ Platform

The MesoGraf™ Global Platform

- ✔ Grafoid's affiliate Graphite Zero is currently the world's largest producer of graphene
- ✔ Invested in the development of a proprietary process
- ✔ Lead to bulk production of **MesoGraf™**
- ✔ Demonstrated that the science works
- ✔ Launched a unique global platform



FOCUS
GRAPHITE

GRAPHITE ZERO



Mesograp
from Grafoid

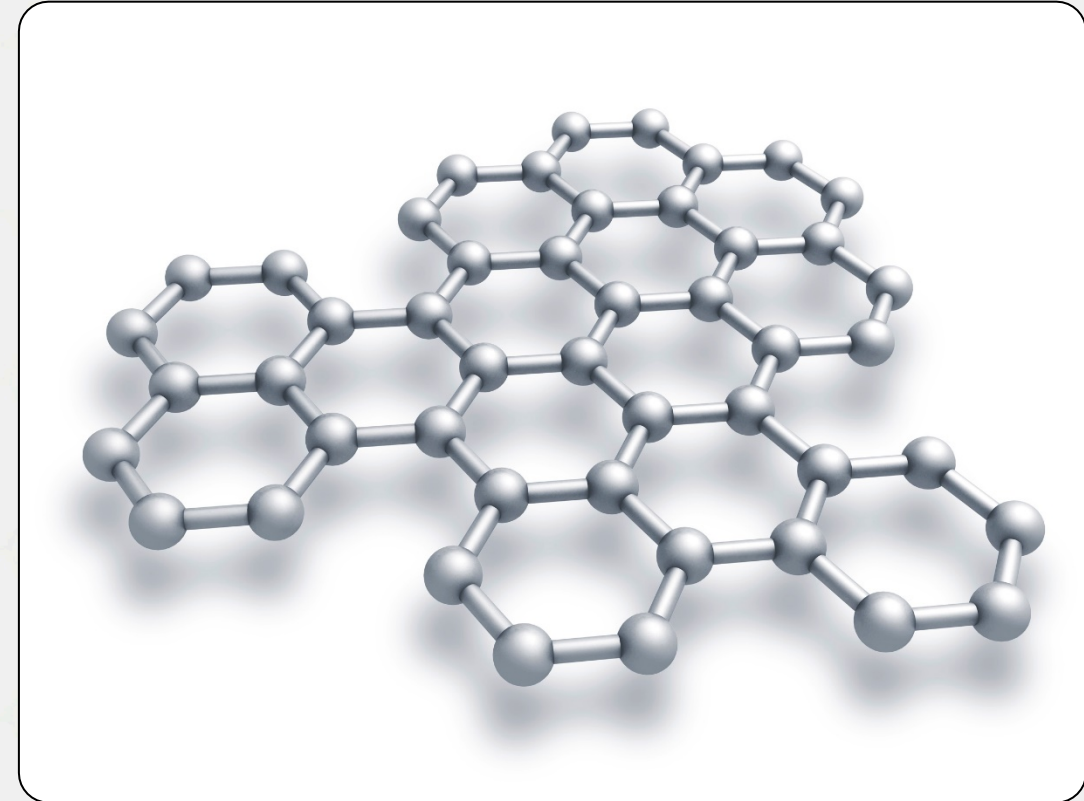


 **GRAFOID**

The Grafoid Global Platform

The Grafoid Global Platform

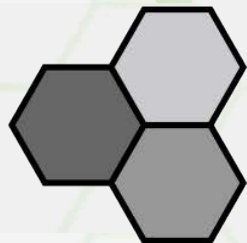
- ◆ Grafoid has entered into a number of high-profile development relationships
- ◆ Establishing JV relationships for the development of next-gen products
- ◆ Royalties will primarily drive revenue
- ◆ Grafoid has and will continue to sell **MesoGraf™** to JV partners
- ◆ 15 Joint Venture Partnerships underway (6 announced partnerships)



Joint Venture
Partnerships



Wholly Owned
Subsidiaries



GRAFOID

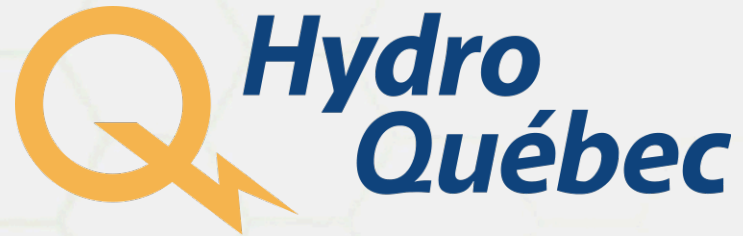
In-Discussion
Relationships



Academic
Partnerships



Partnerships



UNIVERSITY OF
WATERLOO

Partnerships



BOSCH



Academic Partnerships & Affiliations

STANFORD
UNIVERSITY

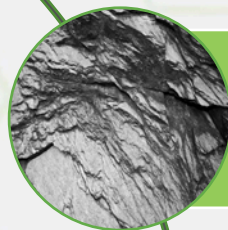


Where is Grafoid Headed?

2016 is expected to be a breakout year in the graphene application development marketplace and Grafoid intends to:

- ◆ Assume a leading position in the global graphene industry
- ◆ Grow existing and attract new significant partnerships
- ◆ Brand Grafoid as a global leader
- ◆ Promote Grafoid as the purest way to invest in the Graphene Revolution

Near-Term Timetable



Graphene Production



Further Relationships



Enhance Profile

Focus Graphite Inc.



- ◆ World-class technology graphite company advancing towards production
- ◆ Publicly traded (TSXV: FMS | OTCQX: FCSMF | FSE: FKC)
- ◆ Sole owner of the high-grade Lac Knife, Quebec natural graphite deposit
- ◆ Executed the graphite industry's first offtake agreement; the Chinese will purchase graphite from Focus
- ◆ Focus will set the global standard for environmentally sound and sustainable graphite mining and processing
- ◆ Positioned to be one of the lowest-cost graphite producers in the world
- ◆ Security of supply for a material critical to green technology

Summary

MesoGraf™ is the global standard for graphene.

Grafoid is a complete solutions graphene company.



Summary

- ◆ Grafoid brings expertise in graphene and provides solutions for success
- ◆ A standalone in the graphene world
- ◆ Graphite Zero - Proprietary technique to produce high-energy density graphene
- ◆ Trademarked suite of graphene products in **MesoGraf™**
- ◆ Significant first-mover competitive advantage
- ◆ Security of supply; Grafoid controls the supply chain
- ◆ Global network of sophisticated academic and commercial relationships
- ◆ Grafoid has raised approximately \$30m in a combination of private equity and government funding.

Grafoid is the purest way to invest in graphene.

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GRAFOID

A Complete Solutions **Graphene** Company

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