Disclaimer

This presentation may contain forward-looking statements, being statements which are not historical facts, and discussion of future plans and objectives. There can be no assurance that such statements will prove accurate. Such statements are necessarily based upon a number of estimates and assumptions that are subject to numerous risks and uncertainties that could cause actual results and future events to differ materially from those anticipated or projected. Grafoid Inc. disclaims any intention or obligation to revise or update such statements.

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?

- Graphene will change the way we work, live and play
- 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’s Revolutionary Material Properties

- Highly Flexible & incredibly Light
- The Stiffest material in the world.
- The Thinnest material known to science
- Incredibly Energy Efficient
- Record Thermal & Electrical Conductivity
- The Strongest material ever measured
- Graphene is a One-Atom-Thick Allotrope of Carbon
- The most Impermeable material on earth
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 excels in all three areas, overcoming the barriers to graphene commercialization.
"The key vendors dominating this (graphene) market space are BASF, Grafoil Inc, IBM Corp, and Samsung Electronics Co.

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

- Grafoid is a graphene R&D, application development and technology licensing company
- The company has established itself as a global leader in graphene innovation
- Grafoid’s process, developed in conjunction with National University of Singapore, means low-cost, high-purity graphene
- Grafoid’s has a global presence with research and production facilities in Asia and North America
- Grafoid is part of a global platform to deliver mine-to-market products, www.2GLPlatform.com
- Focuses on four areas of graphene application development: energy creation, coatings, composites and membrane technology
- Grafoid partners with joint venture and strategic partners around the world to develop applications in those four areas
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.

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?

- Technology
- Economics
- Partners
- Platform
- Applications
- Business Model
# How We Compare

<table>
<thead>
<tr>
<th>GRAFOID</th>
<th>Our Competitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sells Graphene Solutions</td>
<td>X</td>
</tr>
<tr>
<td>Game-changing, one-step process to produce economically scalable graphene*</td>
<td>X</td>
</tr>
<tr>
<td>A diverse company that doesn’t depend on the success of one application</td>
<td>X</td>
</tr>
<tr>
<td>Partners with industry leaders worldwide to advance joint applications</td>
<td>X</td>
</tr>
</tbody>
</table>
How We Compare

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<tr>
<th>GRAFOID</th>
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<tr>
<td>Able to generate revenue from every market sector</td>
<td>✅</td>
</tr>
<tr>
<td>MesoGraf™ – The Global Standard for Graphene</td>
<td>✅</td>
</tr>
<tr>
<td>Environmentally friendly and sustainable</td>
<td>✅</td>
</tr>
</tbody>
</table>

Grafoi 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**
## Grafold’s Active Applications

<table>
<thead>
<tr>
<th>SECTOR</th>
<th>TOTAL AVAILABLE MARKET (TAM)</th>
<th>SERVED AVAILABLE MARKET (SAM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFP Graphene Batteries</td>
<td>$74B</td>
<td>$11.1B</td>
</tr>
<tr>
<td>Graphene Polymers/Plastics</td>
<td>$796B</td>
<td>$119.4B</td>
</tr>
<tr>
<td>Graphene Foam</td>
<td>$13B</td>
<td>$2.3B</td>
</tr>
<tr>
<td>Fuel Cells</td>
<td>$2.5B</td>
<td>$280M</td>
</tr>
<tr>
<td>Electrochemical Capacitors</td>
<td>$1.2B</td>
<td>$108M</td>
</tr>
<tr>
<td>SECTOR</td>
<td>TOTAL AVAILABLE MARKET (TAM)</td>
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</tr>
<tr>
<td>--------------------------------</td>
<td>------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>Solar Panels/Solar Cells</td>
<td>$90B</td>
<td>$9.4B</td>
</tr>
<tr>
<td>Graphene Foils</td>
<td>$9.3B</td>
<td>$1.4B</td>
</tr>
<tr>
<td>3D Printing Materials</td>
<td>$1.5B</td>
<td>$330M</td>
</tr>
<tr>
<td>Automotive</td>
<td>$5.1T</td>
<td>$390B</td>
</tr>
<tr>
<td>Aerospace</td>
<td>$4.8T (2013–2032)</td>
<td>$531B</td>
</tr>
</tbody>
</table>
## Grafoid’s Active Applications

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<th>TOTAL AVAILABLE MARKET (TAM)</th>
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<tr>
<td>Chemicals</td>
<td>$5.3T</td>
<td>$486B</td>
</tr>
<tr>
<td>Coatings and Lubricants</td>
<td>$113B</td>
<td>$13.8B</td>
</tr>
<tr>
<td>Thermal Management</td>
<td>$10.1B</td>
<td>$1.1M</td>
</tr>
<tr>
<td>Organic LED Lighting</td>
<td>$14.5B</td>
<td>$1.6B</td>
</tr>
<tr>
<td>Medical</td>
<td>$124.5B</td>
<td>$18.2B</td>
</tr>
</tbody>
</table>
Grafoi'd's Operations

- Strategy & Vision
- Supply Security
- Patented Process
- JV Partners
- Team
- Global Platform
- Production Facilities
- Global Profile
Grafoid is a graphene technology licensing company. We are unique.
Mesograf
The Global Standard for Graphene
MesoGraf™ is the first graphene to be trademarked in the world (May 2013)

MesoGraf™’s 5 Core Attributes

- Cost
- High Yield
- Scalable
- Versatile
- High Purity

MesoGraf™ is the foundation of our suite of products
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
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
Government Involvement

Governments recognize the long-term economic imperative to support and foster new materials and clean technology.

Federal and Provincial grants are available and Grafoid is 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.
First commercially significant sales of graphene products before 2018

The graphene market is expected to expand dramatically in the next 4 years

China has included 3 key sectors, based on carbon, for economic growth in the next 5 years: new materials, energy storage and EV’s

60% CAGR over the next five years

Mass commercialization is contingent on the affordability of graphene

Collaboration and cooperation is key
The **MesoGraf™** Global Platform

- Grafoid's growth potential is in markets where governments foster clean technology development
- Grafoid has entered into a number of significant development relationships
- Opened an office in China and appointed a China General Manager
- Established JV relationships for development of next-generation products
- Grafoid brings the graphene and expertise and matches it with the customer's products or ideas
- The business model is royalty driven
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)
Partnerships

MITSUI & CO., LTD.  BOSCH

UNIVERSITY OF WATERLOO  PHOS SOLAR
Academic Partnerships & Affiliations

Stanford University
Northwestern University
University of Toronto
Universität Bayreuth
Shinshu University
University of Waterloo
McGill University
Queen's University
Where is Grafoid headed?

2017 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
Summary
MesoGraf™ is the global standard for graphene.

Grafoioid is a complete solutions graphene company.
Summary

- Grafoid is an application development company that licenses graphene technology
- It brings expertise in graphene and provides solutions for success
- It offers corporations an entrée into the graphene revolution
- Patented one-step process for producing high-purity graphene leads to MesoGraf™ suite of proprietary products
- Offers graphite security of supply through its position in the 2GL platform of companies
- Global network of sophisticated academic and commercial relationships
- A large R&D facility in Canada at GGTC (Grafoid Global Technology Centre)
Grafoid is the purest way to invest in graphene.
Thank You

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