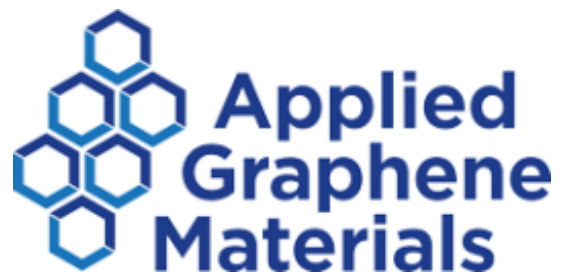


2019 IP Group Global Deep Tech Forum



October 2019

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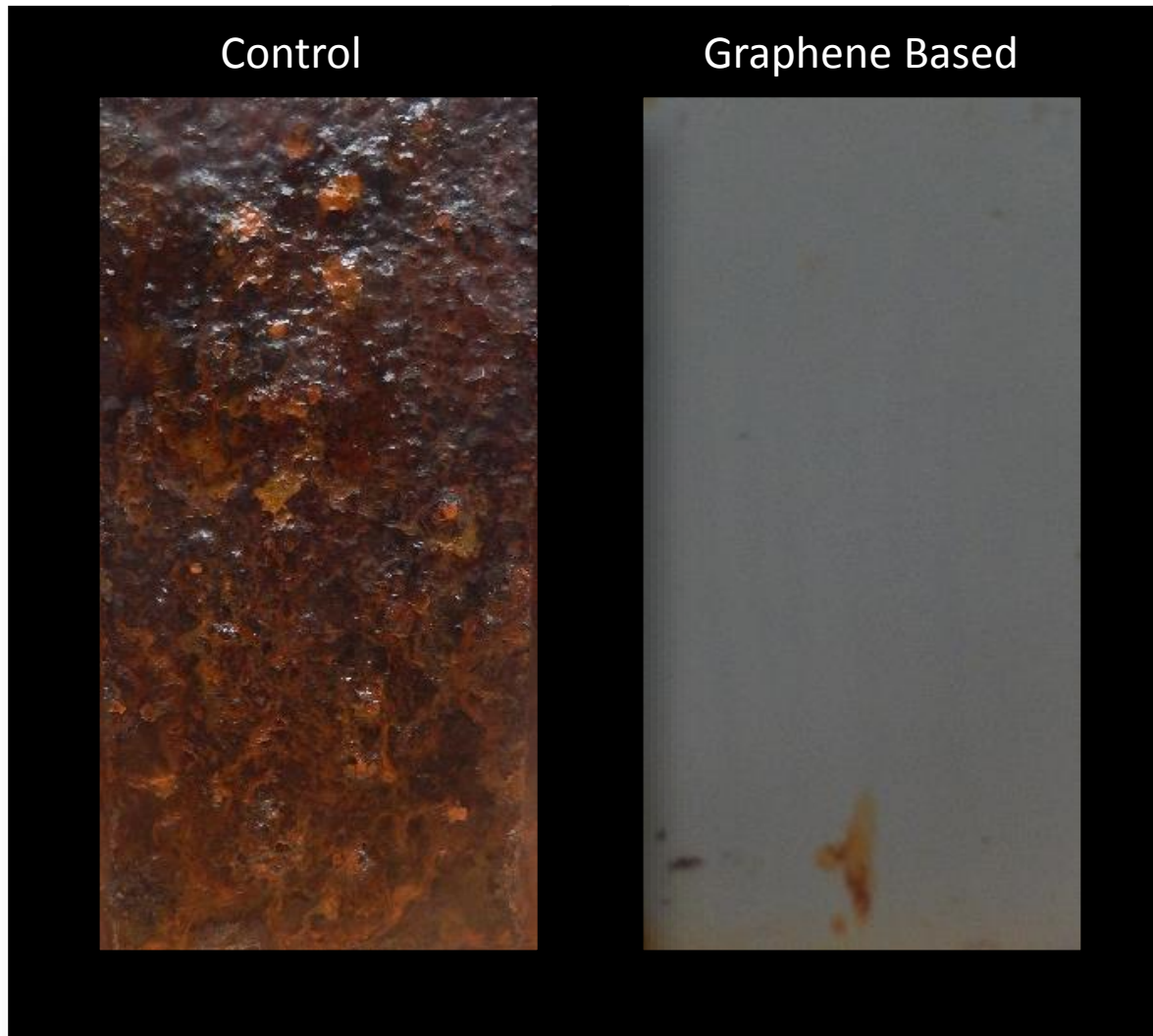
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Graphene – a game changer in coatings technology

4



Applications:-
Industrial Coatings
Naval & Offshore
Aerospace
Automotive
Construction
....And beyond

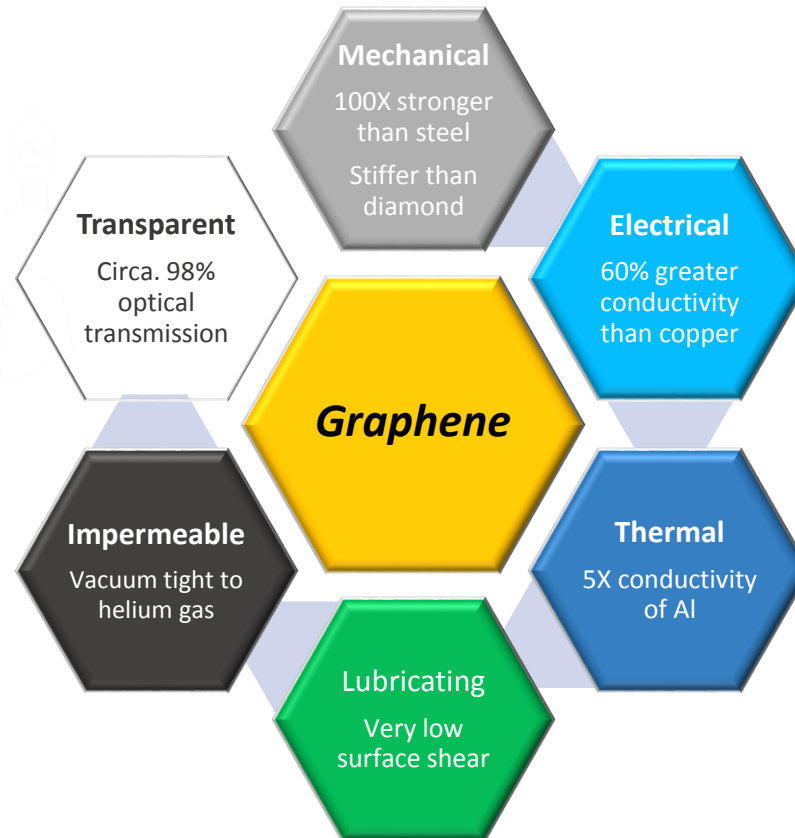
Typical – results - 3000hrs test in salt spray

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Graphene – Remarkable performance

5

How to **realise** what is potentially the most disruptive material of the 21st Century



- Isolated in 2004 at University of Manchester
- Nobel prize in 2010

AGM expertise is in delivery of graphene solutions

- Graphene potential:-
- Current early adopters
 - Coatings
 - Composites
 - Elastomers
 - Polymers
 - Inks
 - Textiles
 - Battery R&D

Future Potential

Bio-Medical
Concrete
Conductive technology
Consumer electronics
Batteries
Polymer technologies
Filtration

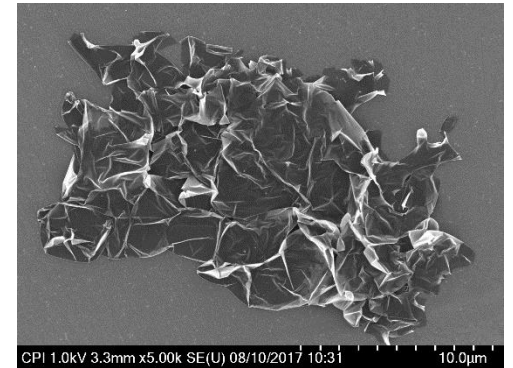
Various forecasts around a \$200m 2021 market for graphene powders with high CAGR

AGM Unique Selling Points

7

CHALLENGE FOR ALL GRAPHENE COMPANIES - How to **unlock** potential

- USP – AGM Manufactures high-spec Graphenes via patented bottom-up process.
- USP – AGM's Patented dispersion chemistry - key enabler for successful use
- USP – AGM's Application Technology – clear understanding of end-use need and how to achieve it
- USP – AGM's "How-To" data enables easy use of graphene
- USP – WITH AGM, **KEYS** FOR USE OF GRAPHENE for:-
 - Coatings
 - Composites
 - Printing
 - Adhesives



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Coatings Market Opportunity

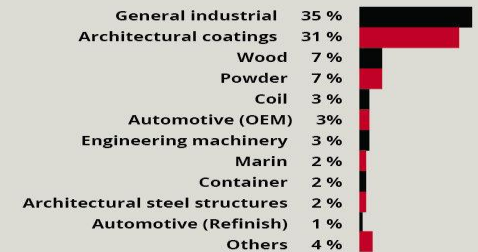
8

- Global Market for Paints and Coatings c. \$150Bn
- Significant opportunity for coatings technology \$60Bn Market in China
- 35-40% of the paint and coatings manufacturing is used to protect or finish industrial products, classified as a “product finish.” (IHS Markit)
- Large number of manufacturers to engage
- Targeting anti-corrosion primers
- Potentially a \$7Bn market for specialty primers with attractive volumes
- Even at low loadings of graphene, volumes are substantial

02: Number of coatings producers (estimated)



04: Market split by applications (volume)



Source – European Coatings

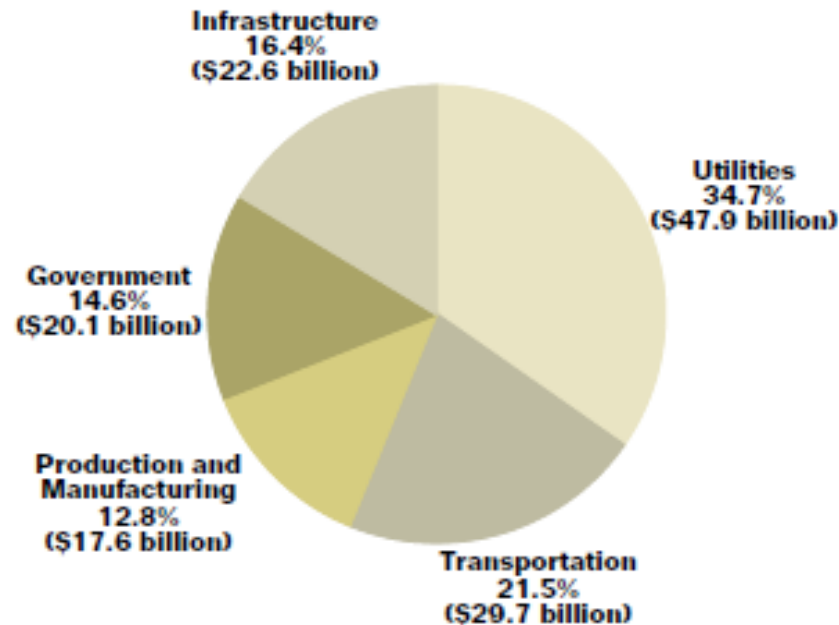
Substantial market opportunity for graphene

Or.....look at the problem

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FIGURE 1

COST OF CORROSION IN INDUSTRY CATEGORIES (\$137.9 BILLION)



Percentage and dollar contribution to the total cost of corrosion for the five sector categories analyzed.

“Corrosion Costs and Preventive Strategies in the United States”
PUBLICATION NO.
FHWA-RD-01-156

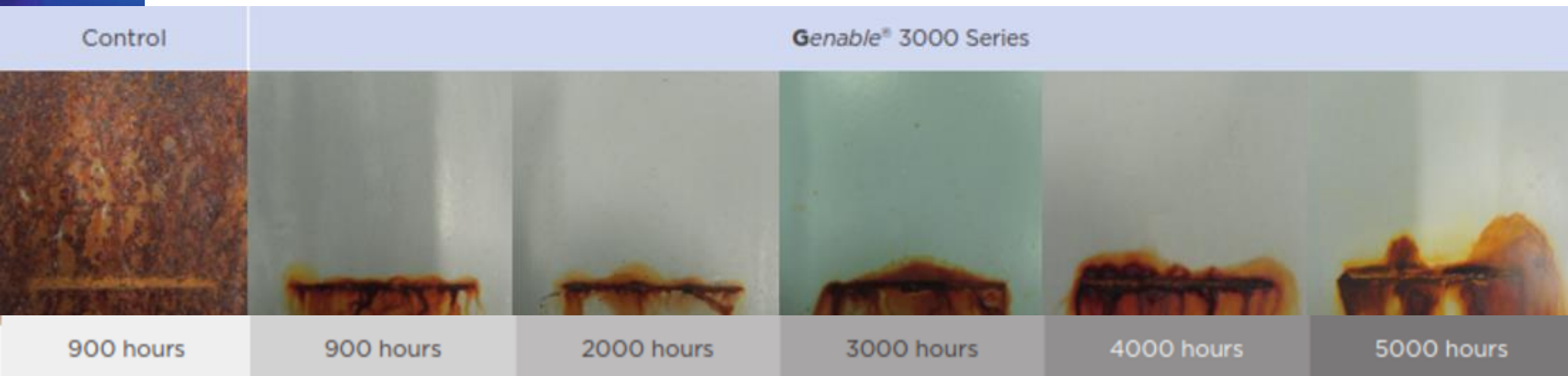
Clear need for better corrosion control coatings
AGM Graphene Solutions can satisfy this need

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Graphene – a game changer in coatings technology

10

Performance extension from 1000 to 5000 hours by using Graphene
A-GNP loading 0.5% by weight in final coating



Outstanding performance advantage

Innovative Solutions for Coatings

11

**Graphene for
barrier performance
& anti-corrosion**



**Corrosion
Mitigation**

**Exceptional
anti-corrosion
performance**

**Enhanced
Corrosion
control**

**Asset Life
Extension**

**Life extension
to coatings**

**Maintenance
cost reduction**

**Environmental
Solutions**

**Lower VOC
and toxics**

**Water-based
technology**

Graphene really works in coatings

**Added value solution for Coatings manufacturers
Cost effective solution for End User / Asset Manager
Read-across to multiple market opportunities**

Real Customer Products. Real Opportunities

12

James Briggs

Applied Nano Systems

HMG

Alltimes Coatings

 **Genable**®

Aerospace



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AGM graphene for composites

13

Composites,
adhesives,
elastomers

Printing
platform
technology



Aerospace

Automotive

Space

Defence

Sports

Dispersion chemistry enables graphene platelets to be added easily for wide range end use

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AGM graphene for thermal performance

14

Functional
Materials



Aerospace

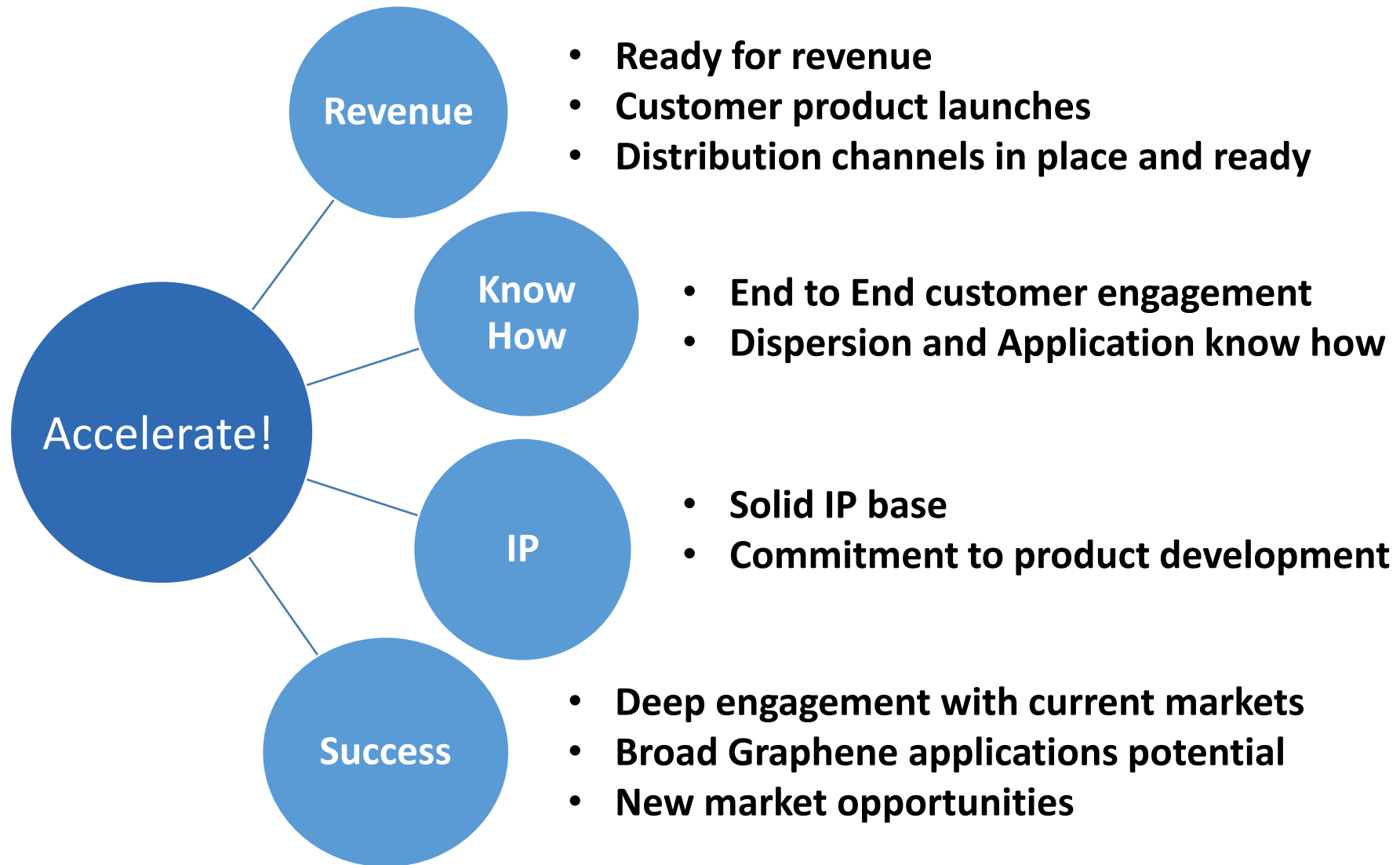
Automotive

Space

Defence

Dispersion chemistry enables graphene platelets to be added easily for wide range end use

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Thankyou for your
attention

