nano-c

nanostructured carbon

Advanced Materials for Next Generation Electronics, Sensors and Semiconductor Manufacturing

Nano-C is a Critical Link in the Value-Chain for High Volume Markets

June 2020

Investor Presentation

Outline

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This document contains forward-looking statements. In addition, from time to time, we or our representatives may make forward-looking statements orally or in writing. We base these forward-looking statements on our expectations and projections about future events, which we derive from the information currently available to us. Such forward-looking statements relate to future events or our future performance, including: our financial performance and projections; our growth in revenue and earnings; and our business prospects and opportunities. You can identify forward-looking statements by those that are not historical in nature, particularly those that use terminology such as "may," "should," "expects," "anticipates," "contemplates," "estimates," "believes," "plans," "projected," "predicts," "potential," or "hopes" or the negative of these or similar terms. In evaluating these forward-looking statements, you should consider various factors, including: our ability to change the direction of the Company; our ability to keep pace with new technology and changing market needs; and the competitive environment of our business. These and other factors may cause our actual results to differ materially from any forward-looking statement. Forward-looking statements are only predictions. The forward-looking events discussed in this document and other statements made from time to time by us or our representatives, may not occur, and actual events and results may differ materially and are subject to risks, uncertainties and assumptions about us. We are not obligated to publicly update or revise any forward-looking statement, whether as a result of uncertainties and assumptions, the forward-looking events discussed in this document and other statements made from time to time by us or our representatives might not occur.

Risk Factors of the Company

We Are a Development Stage Company The Company is a development stage company formed in June 2001 which to date has engaged only in limited organizational, research, development, manufacturing and sales activities. Accordingly, it is subject to all of the risks inherent in the establishment of a new business enterprise.

Absence of Significant Revenues; No Assurance of Profits The Company is in the development stage and has a limited operating history. Since inception, the Company has generated no net income. While revenues from product sales and R&D contracts have grown, there is no assurance that they will continue to grow. The Company expects to incur additional losses as its research, development, manufacturing and marketing programs expand. The extent of future losses and the time required to achieve profitability is highly uncertain. There can be no assurance that the Company will ever achieve a profitable level of operations or that profitability, if achieved, can be sustained on an ongoing basis.

Need for Future Capital The Company may require substantial additional funds before it can expect to realize significant revenues. The Company may seek additional funds through private or public financings or collaborative or other arrangements with third parties. If the Company raises additional funds by issuing equity securities, dilution to existing stockholders may result and future investors may be granted rights superior to those of existing stockholders. There can be no assurance that any such additional funding will be available to the Company when needed or, if available, that it will be on terms reasonable or acceptable to the Company. If adequate funds are not available, there could be a material adverse effect on the Company's financial condition and results of operations. The Company's Board of Directors has the authority to issue shares of undesignated Preferred Stock from time to time in one or more series and to fix the designations, powers, preferences and rights of the shares of each such series and any qualifications, limitations or restrictions thereof. Such shares may have terms more favorable to investors, or be sold at a lower price, than the Series B Preferred being offered in this Offering.

Early Stages of Product Development The Company's products are in the early stages of manufacturing and the products under current or future development by the Company may require significant additional research and development efforts. The Company's current and future products are subject to the risks of failure inherent in the introduction of any new product. The Company may not successfully complete its anticipated product development efforts, may not be able to manufacture products at an acceptable cost and with acceptable quality and may not be able to profitably market its products.

Dependence on Rapidly Changing Technology The Company's success will depend upon its ability to anticipate market needs and develop and successfully introduce new and enhanced products that meet those needs in a timely manner. The Company's target markets are likely to be characterized by rapid technological changes, frequent new product introductions, changes in customer requirements and evolving industry standards. The Company may not be able to continue to develop state-of-the-art products and introduce them commercially.

Uncertainty of Fullerene and Carbon Nanotube Markets The markets for fullerenes and carbon nanotubes are new and unpredictable, and if these markets do not develop and expand as anticipated, demand for the Company's products and/or technologies may decline. The markets for fullerenes and carbon nanotubes are new and characterized by rapid technological change, changes in customer requirements and evolving industry standards. Because these markets are new, it is difficult to predict their potential size or future growth rate. Widespread adoption of fullerenes and carbon nanotubes in commercial products is critical to the Company's future success. The Company's success in generating revenue in these emerging markets will depend on developing, maintaining and enhancing its relationships with customers, third party research regarding new applications for fullerenes and carbon nanotubes, and its ability to consistently manufacture fullerenes and carbon nanotubes to meet industry standards.

Experience Developing and Commercializing Advanced Materials

Viktor Vejins, CEO
- Over 25 years of general management experience in materials, chemicals and high-technology products
- GM of advanced materials startup funded by Cabot; created millions in shareholder value
- SM, Materials Science & Engineering - MIT

Don Wallroth, CFO
- Over 25 years of financial and general management experience financing, scaling, and monetizing technology related businesses
- CFO for multiple private and public companies
- Directly responsible for M&A transactions. MBA in Finance, Columbia University

Darren Bischoff, Director of Business Development
- 20+ Years Bringing Advanced Materials from R&D to Commercialization
- E Ink (displays), MC10 (semiconductors) and Boston-Power (batteries)
- MBA - Boston University

Kerin Perez Harwood, Director of Business Development
- Electronic Materials Business Development, Marketing, Operations
- Merck KGaA, EMD Performance Materials (photovoltaics, printed electronics, display, optoelectronics)
- MBA - Babson College

Thomas Lada, VP Operations
- Combustion-based Manufacturing Experience
- 15 years Experience in Production & Engineering
- MS Chemical Engineering – MIT

Henning Richter, VP Research
- Leader in Combustion Research and Development
- Research Appointment in Chemical Engineering – MIT
- PhD - Catholic University of Louvain (Belgium)

Ramesh Sivarajan, VP Applications Development
- Leading Research Appointments at Cornell and Rice University for CNT
- Former Manager of Advanced Applications Group at Nantero
- PhD, Materials, post-doc with Nobel laureate Smalley at Rice

Board Depth in High-Tech, Law, Venture Capital and Investments

Ray Stata
- Chairman and co-founder of Analog Devices, Inc.
- Co-founded the Mass High Technology Council; served on the executive committee of the US Council on Competitiveness; the board of overseers of the Malcolm Baldrige National Quality Award; member of the MIT Corp.
- Privately and through Stata Ventures (founder), has invested in new technology start-ups and serves on their Boards.
- BS and MS degrees in EE from MIT

Chris Cheever
- Founder and Partner of Fontinalis Partners; serves on the Board of Directors of five of Fontinalis' portfolio companies: ClimaCell, Humatics, Nano-C, SmartKargo and Verity Studios.
- Previous Director of Life360 (IPO in 5/19) and Synovia Solutions (acquired by CalAmp in 4/19); Board Observer of nuTonomy (acquired by Delphi/Aptiv in 11/17) and Parkmobile (acquired by BMW Group in 1/18).
- MBA from Yale

John Grover
- Served as the non-executive Chairman & Director of Halifax Corporation (AMEX). Former Director of TransTechnology Corporation (NYSE); EVP President, Treasurer, CFO, and Director of Research Industries, Inc.;
- Continues to serve as director of several private companies.
- BS and MS in Chemical Engineering from MIT

Viktor Vejins
- President and CEO
- Over 25 years of general management experience in materials, chemicals and high-technology products
- GM of advanced materials startup funded by Cabot; created millions in shareholder value
- SM, Materials Science & Engineering - MIT

The Role of Advanced Materials In Our Rapidly Changing World

AI
IoT
3D Printing
Renewable Energy
5G
UAVs
HMI
Big Data
Energy Efficiency
EVs
Sensors
Batteries
Cloud
Mobility
Moore's Law
Demographics
Food Security
Healthcare
Urbanization
Climate Change
Automation
Pandemics

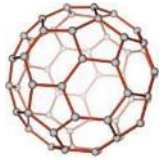
- Today's Trends Demand Fundamentally New Material Solutions
  - New Materials Can Be Disruptive To Existing Markets
    → And Enable New Applications
- Companies Actively Seeking "Game Changing" Materials Solutions To Address These Challenges and Create Growth
- Nano-C is Poised To Play A Pivotal Role In Shaping This Future

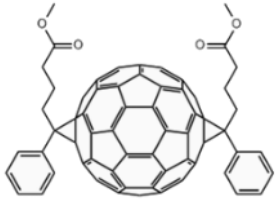
Drivers for Value Creation

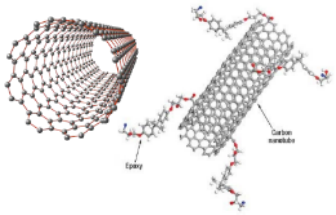
Business Driver	Value Created
1 Create Chemistry with Financial Impact	Aim for Highest Quality and Scalability to Serve High Volume Markets
2 Partner to Create Pull-through	Lock in Customers for Long-term
3 Build Defensible IP Position	Price to Value — Manage Top-line
4 Drive to Low-Cost	Intend to Maximize Efficiency & Use of Capital

Proprietary Technology Platform Reaches Multiple Markets

Chemistry







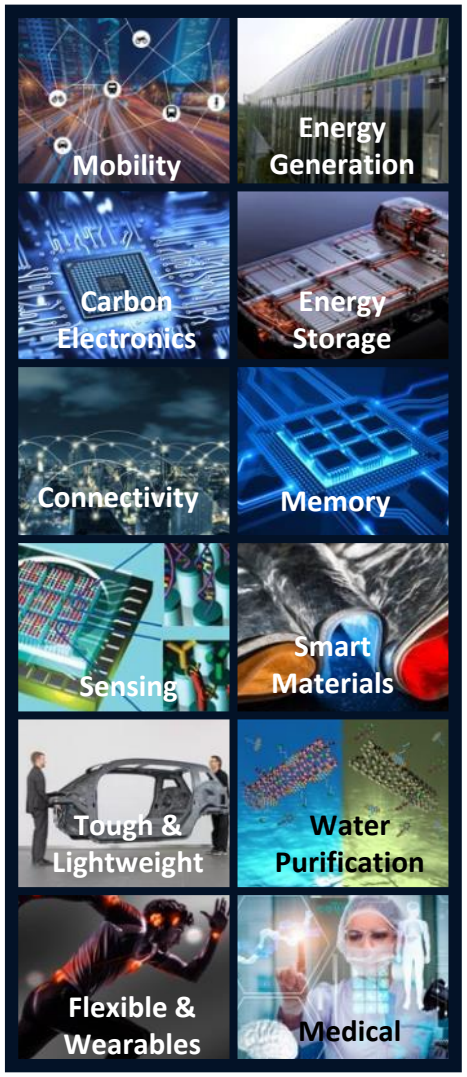
Properties

- Nanoscale
- Low Density
- High Tensile Strength
- High Compressive Strength
- Excellent heat conductor
- Thermally Stable
- High Current Carrying Capacity
- A Band Gap That Can Be Modified
- Effective Radical Scavenger / Anti-oxidant
- Flexible Chemistry

Functions

- Electrical
- Mechanical
- Thermal
- Electronic
- Optical
- Chemical

Applications



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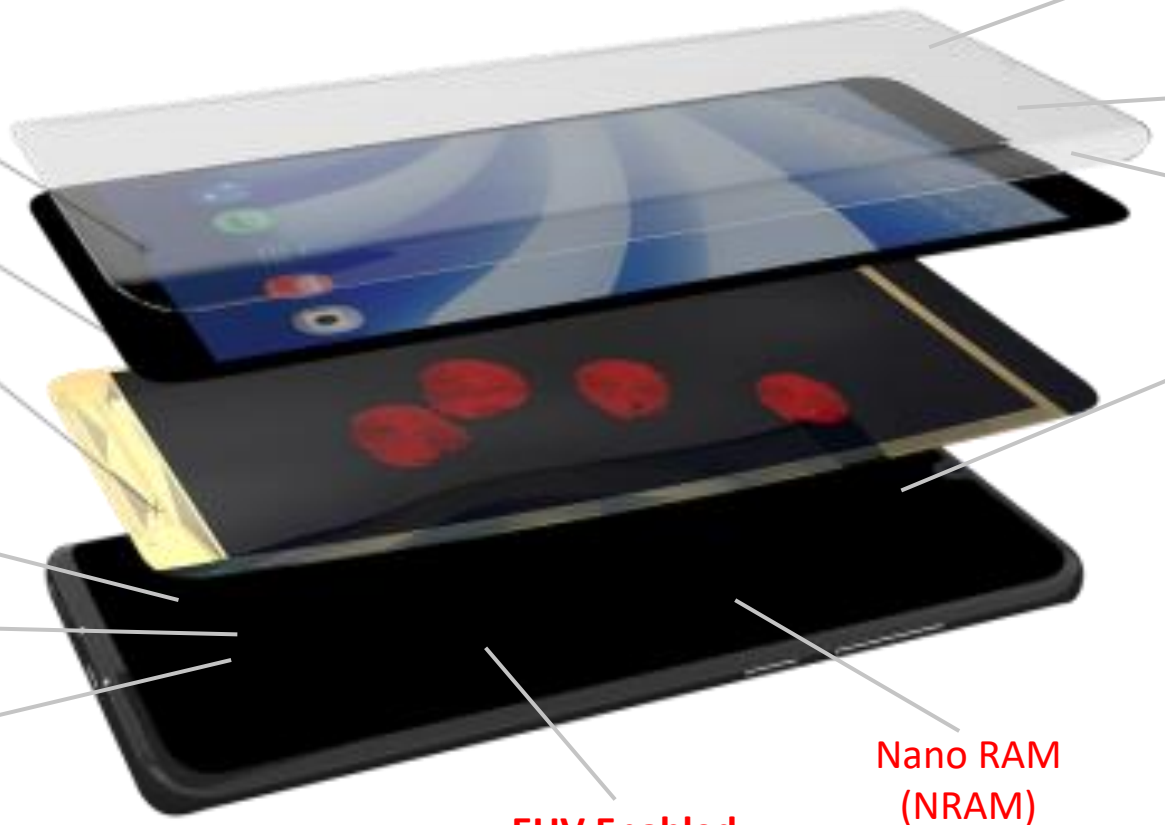
Applications

Nanocarbon Material Applications – Mobile Devices

~1.4B smartphones shipments forecast for 2020 with projected growth of ~ 3% Y/Y (Gartner, Dec 2019)



Nano-C
Targeted Launches

- 12 to 18 months
- 24 to 36 months
- 36+ months

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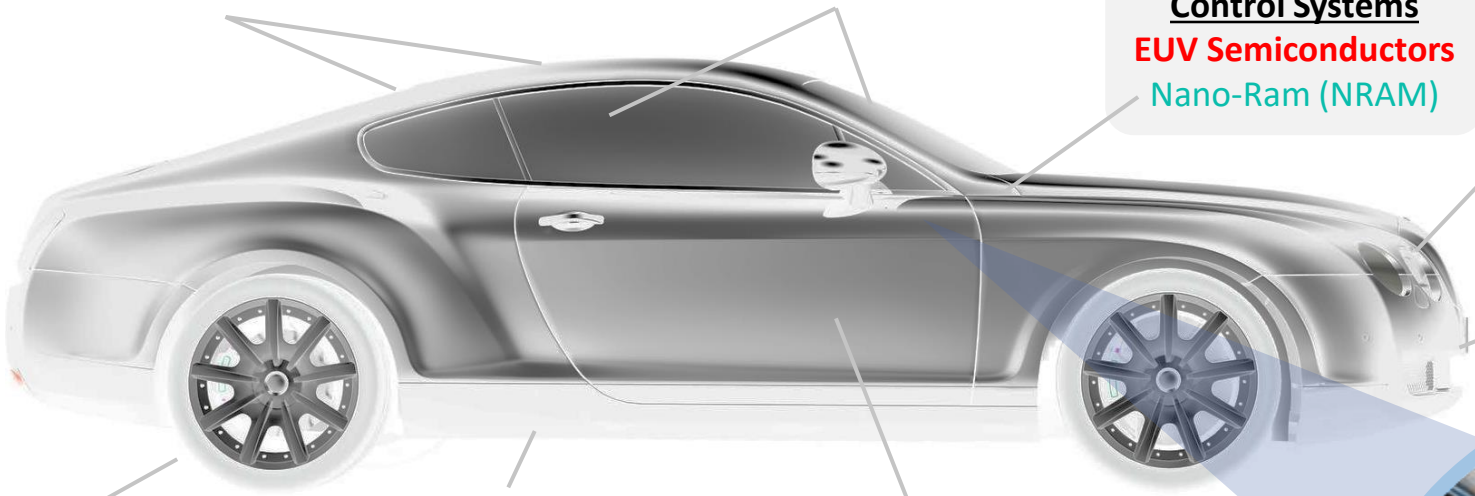
Nanocarbon Material Applications – Next Generation Vehicles

~77M vehicles sold annually (Statista, Nov 2019) / Automotive Cockpit Market $90 Billion by 2030 (Faurencia, Nov 2019)



Flexible Solar Panels

Flexible Transparent Antennas

Control Systems
EUV Semiconductors
Nano-Ram (NRAM)

Formable Transparent Heaters

Sensors

Flexible and Formable Displays

Formable Touch Interfaces

Polymer Additives

Additives for Batteries and Supercapacitors / PEM Fuel Cell Materials

Composites for Light Weighting and Mechanical Strength

Nano-C
Targeted Launches

- 12 to 18 months
- 24 to 36 months
- 36+ months

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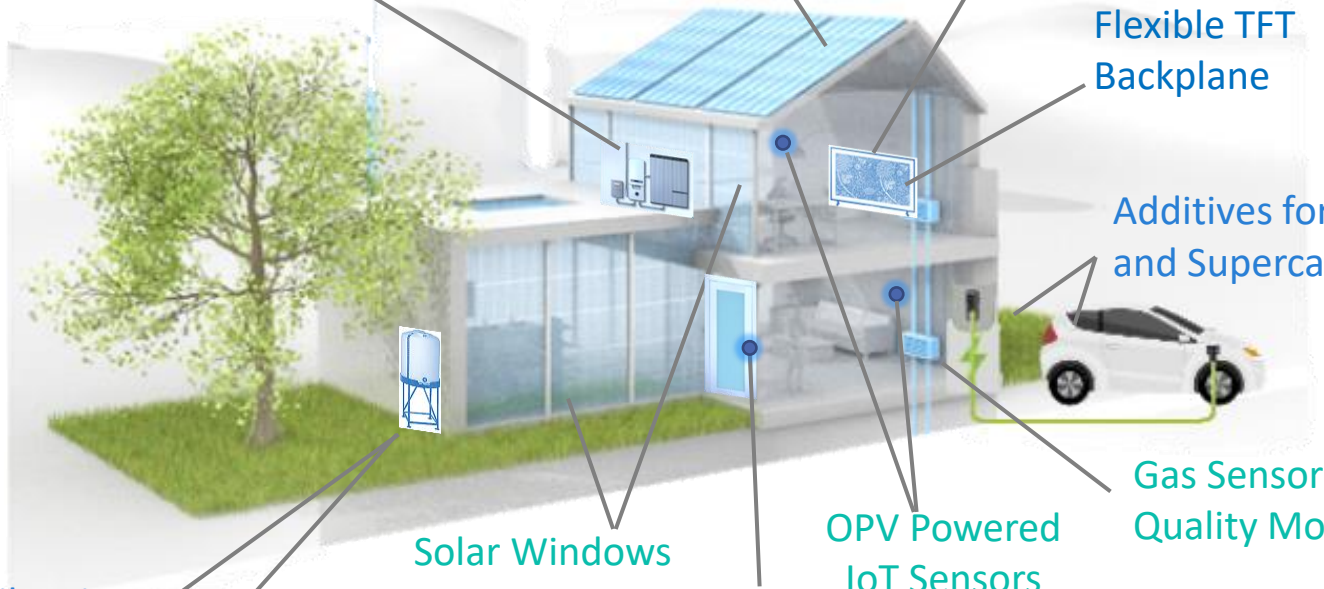
Nanocarbon Material Applications – Energy & the Built Environment

Active Households in Energy Management Segment Expected Growth: 18.9M in 2019 to 45.1M in 2024 (Statista, Nov. 2019)

SMART HOME



Tandem Perovskite Solar

PEM Fuel Cells – Back Up Power Generator

Flexible Transparent Conducting Electrode

Flexible TFT Backplane

Additives for Batteries and Supercapacitors

Building Composites for Mechanical Strength and Insulation

Gas Sensors for Air Quality Monitoring

OPV Powered IoT Sensors

Solar Windows

OPV Flexible Solar

Water Filtration

Solar Power Heated Water

Full Screen Fingerprint Sensor (Home Security)

Nano-C Targeted Launches

- 12 to 18 months
- 24 to 36 months
- 36+ months

Technologies shown applicable to Commercial and Industrial (C&I) Sector

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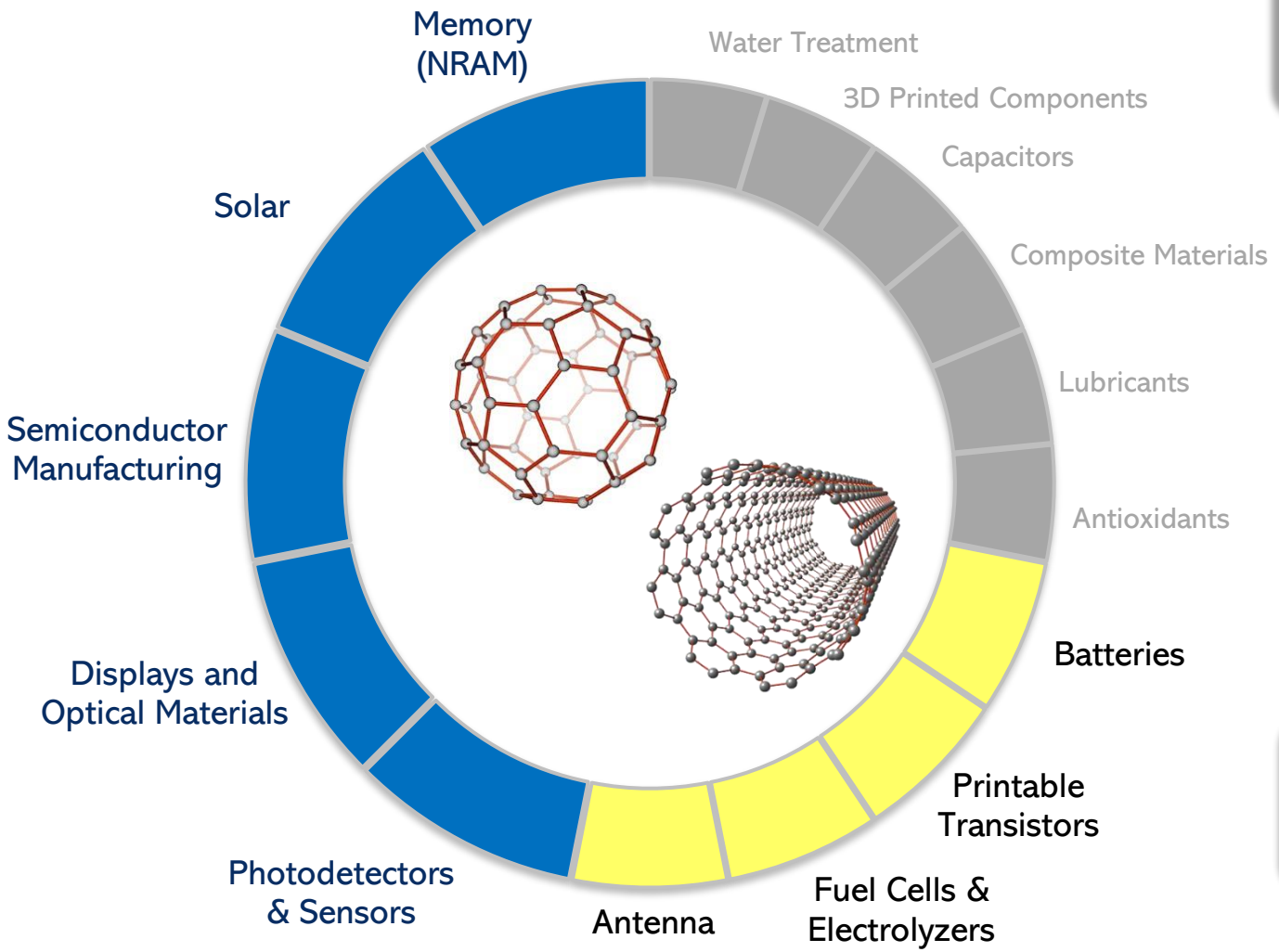
Commercial Traction with Pipeline for Growth

Planned Launches in the Next 6-24 Months

Foundation to Address Future Applications



Current Focus

Active Development

Pipeline

IP-Driven Product and Application Portfolio

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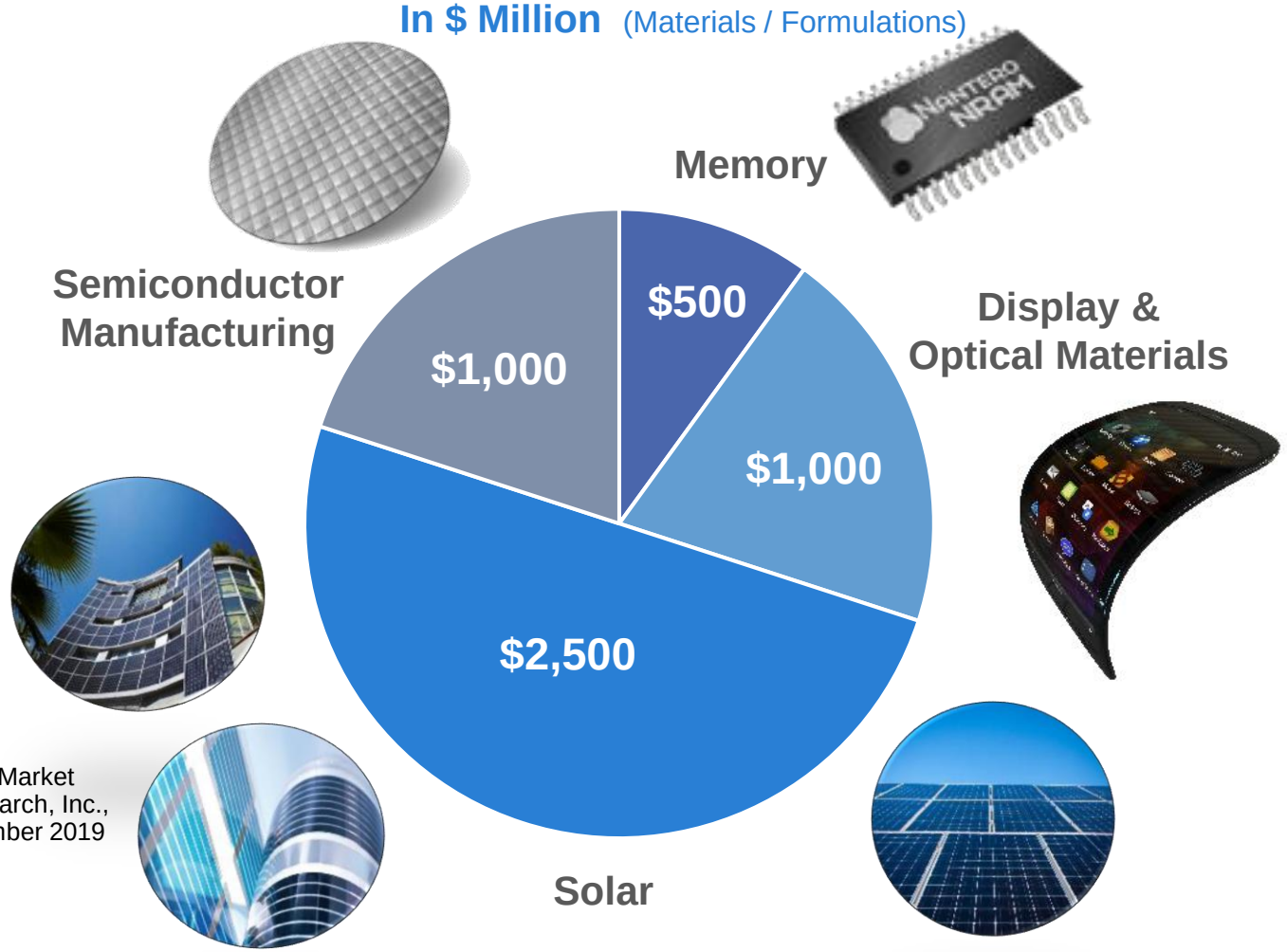
Near-term Commercial Opportunities in Major Markets

$5 BILLION CURRENT POTENTIALLY ADDRESSABLE MATERIALS MARKET *

In $ Million (Materials / Formulations)



*Mordor Intelligence, Allied Market Research, Grandview Research, Inc., MarketsandMarkets, December 2019

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IP-Driven Product and Application Portfolio

Product Family	Patent and Know-How Protected Products	Applications
Fullerenes	▶ C_{60}, C_{70}	Solar Cells, Photodetectors (fingerprint sensor, CMOS image sensor, X-ray and medical imaging), Spin-on Carbon Hard Masks Composites Materials, Antioxidants, Lubricants
Functionalized Fullerenes	▶ PCBM, PCBCX, ICBA, OQDM ▶ Chemical Library	
Non-Fullerene Chemistries	▶ EH-ITDBR, O-IDTBR, NFAs ▶ Molecular materials	Solar Cells, Photodetectors, Photoresists for EUV
SWCNT	▶ 25 Series, 200 Series ▶ Semiconducting SWCNT ▶ Available as powder, paste, dispersions and inks	Memory, Displays, Printed Electronics and Sensors, Fuel Cells, Composite Materials, Batteries, Capacitors, Water treatment, 3D Printing
Invisicon®	▶ Inks, Coatings and Films ▶ SWCNT ▶ Silver-CNT hybrid ▶ I2O, flexible ITO films	Transparent Conductive Electrodes for Displays, Heaters, Antenna, Flexible and Conformable Devices
Integrated Materials	▶ SWCNT and fullerenes with carbon black and other additives	Elastomers, Batteries, Composites

Invisicon® *is a registered trademark of Nano-C, Inc. Covers unseparated SWCNT pastes, inks and film products.*

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Combustion-Based Manufacturing: Key Potential Differentiator

Scalable

Continuous

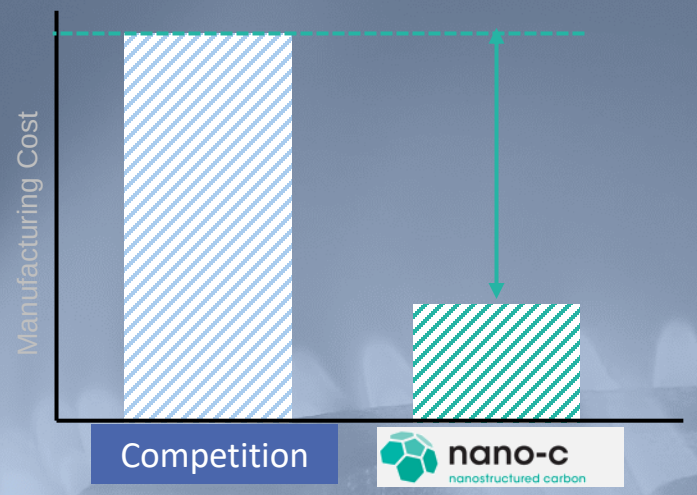
Low-Cost

Simple

Safe

Patented

Potential Cost / Scale Advantage

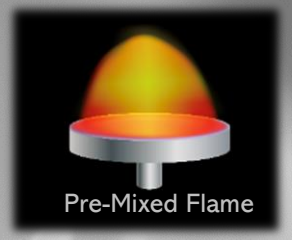


Competing Technologies

- Generally "endothermic" (requires significant amounts of added energy to manufacture), more complex systems (many steps), and batch

Nano-C Combustion-Based Manufacturing

- Low-pressure; inherently safe
- Low-cost feedstock
- Continuous
- Integrated energy generation
- Low-cost catalysts (CNT)
- Simple; few unit operations
- Biofuel compatible
- Patented processes developed at MIT; exclusive to Nano-C; unique know-how
- In different reactors, under different conditions, Nano-C manufactures SWCNT or Fullerenes



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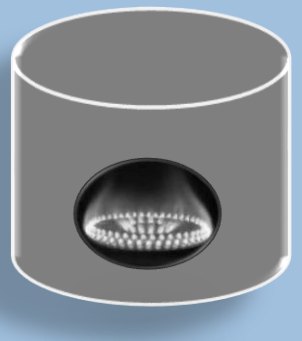
Platform Targets Combination of High Volume and High Quality

Scalable Combustion Technology

Value Added Chemistry & Processes

Addressable Markets

High Volume



Fullerenes & SWCNT

High Quality

APPLICATIONS

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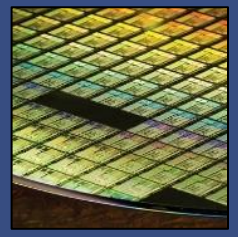
Near-Term Commercial Traction in Major Focus Areas

Sensors

- ✓ Smart-phone fingerprint sensor; launch decision aiming for Q3 2020 for 1 million phones per month by one of the largest display manufacturers in the world.
- ✓ Active development underway for IR-CMOS image sensors.



Semiconductor Manufacture

- ✓ Partnership and investment negotiations underway with the electronic materials division of a multi-billion-dollar technology company and one of four top chip manufacturers to potentially accelerate EUV resist development in 2020. Resist pilot targeted for 2021.
- ✓ Large Asian chip manufacturer validating ultra-high carbon spin-on carbon hard mask; piloting targeted in 2020.
- ✓ IP portfolio held along with Nano-C partner, Irresistible Materials.

Solar / Energy Harvesting

- ✓ Three OPV device makers (Europe and South America) moving into large scale commercial production.
- ✓ Tandem PV manufacturers in the US, Europe and China in scale-up and build out. Technology and quality validations complete.
- ✓ Supply agreement negotiations underway for patented materials.

Near-Term Commercial Traction in Major Focus Areas

Memory

- ✓ Fujitsu product launch aimed for 2020 of a Nantero NRAM-based device. Price/volume/quality requirements agreed to. Joint commercialization agreement discussions underway with Nantero supply chain partners.
- ✓ Signed 1-year JDA to optimize materials for next generation NRAM targeting servers.
- ✓ Nano-C supplies materials are potentially critical to the NRAM stack.

Display & Optical Materials

- ✓ JDA in place since December 2018 with high-volume manufacturer of displays for consumer and commercial electronics.
- ✓ Achieved ITO optical quality with SWCNT based films and met electrical & mechanical specifications.
- ✓ Conducted small-scale pilot coating trial in December 2019 to validate coatability of patented SWCNT inks. Planning underway for coating trials on production equipment.
- ✓ Production trials and supply discussions expected in Q32020.
- ✓ Potentially 1 to 2-years to launch a consumable that is cost reduction focused.

Antenna

- ✓ Exclusive rights to patents for transparent “ground planes”; potentially critical for antennas targeted for use in vehicle-to-vehicle communication. Joint development with major West Coast technology developer.
- ✓ In discussions for demonstration trial with Tier 1 automotive OEM.

Patent Portfolio

Nano-C's patent portfolio spans methods of manufacturing to end-use applications, ranging from electronics to health care.

Nano-C holds 46 families of patents and patent applications + additional 17 with partner Irresistible Materials

Families	Nano-C Patents and Applications	
27	**Electronic Materials**	Solar cells, photo-detectors, transparent conductors, semi-conducting materials for sensors and printable transistors, flash memory
1	**Sensors & Antennas**	Transparent ground planes for directional antenna
4	**Novel Materials & Methods**	Inks, fullerene-carbon hybrids, SWCNT-carbon hybrids
4	**Fuel Cells**	Bipolar plates and PEM membranes
1	**Health Care**	Radical scavengers
9	**Manufacturing**	Fullerene production & purification, SWCNT production
17	**Semiconductor Manufacturing**	Patents and patent applications covering photo-resists and spin-on carbon hard masks with Irresistible Materials www.irresistiblematerials.com

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Investment Summary

Milestones Achieved

Technical

- Demonstrated technology potentially minimizes risk
- Industry low-cost manufacturing, patent and know-how protected
- Composition of matter and application patents potentially protect Nano-C's "top-line"
- 46 patent families, 150+ unique patents
- Product development pipeline
- Low-capital intensity; $5 of sales per $1 of plant capital deployed
- Environmental approvals in place for manufacturing

Business

- Product launches underway aimed at $5 billion potentially addressable market
- Established customer base and distribution network
- Assets in place by Q3 2020 aim to support future revenue plans
- Portfolio approach aims to mitigate business risk
- Experienced management team; capabilities recognized by partners and customers; 38 staff; low turnover
- Backed by long-term private investors, including Fontinalis Partners

The Bridge Investment

Financing Summary

Security	Convertible Promissory Note
Conversion Price	A 30% discount to Series B price (currently $0.23/share)
Offering Amount	Up to $4,000,000
Existing Investments	$870,000
Interest	12% Cumulative
Maturity	August 31, 2021
Warrants	1:1 Warrant Coverage $0.23/share Exercise Price Common Stock
Target Close	On or before July 31, 2020

Use of Proceeds

Working Capital	$ 4.0M

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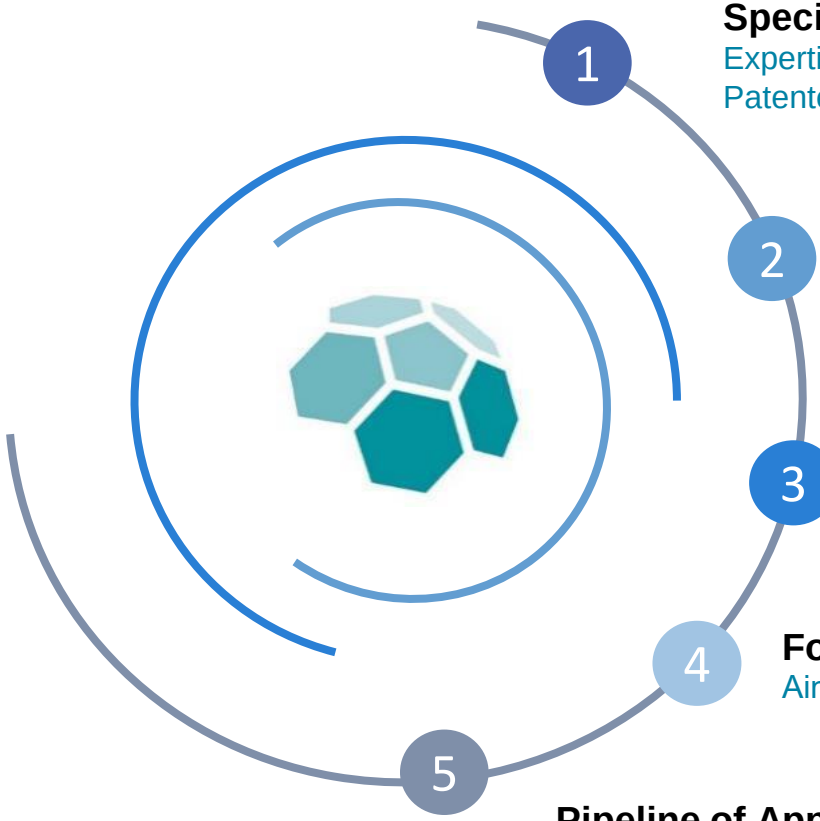
Summary



1

Specialty Chemicals and Electronic Materials
Expertise in functional chemistry and application development.
Patented technology - IP positions along the value chain.

2

Nano-C Partners to Focus on Solutions for Breakthrough Applications
Expertise in integrating nanostructured carbon materials into devices.
Industry connections in semiconductors, photovoltaics, electronics and displays.

3

Experienced Management Team
Decades of experience in bringing new materials and new products to market.
Nano-C has the people, culture, capability and knowledge base that create the ability to deliver.

4

Focused on High Quality, Scalability and Reproducibility
Aim to meet customers' critical-to-quality requirements.

5

Pipeline of Applications → Demand for New Levels of Performance
Demands on current and future product performance are pushing for materials solutions significantly beyond existing levels.

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Viktor Vejins
President & CEO
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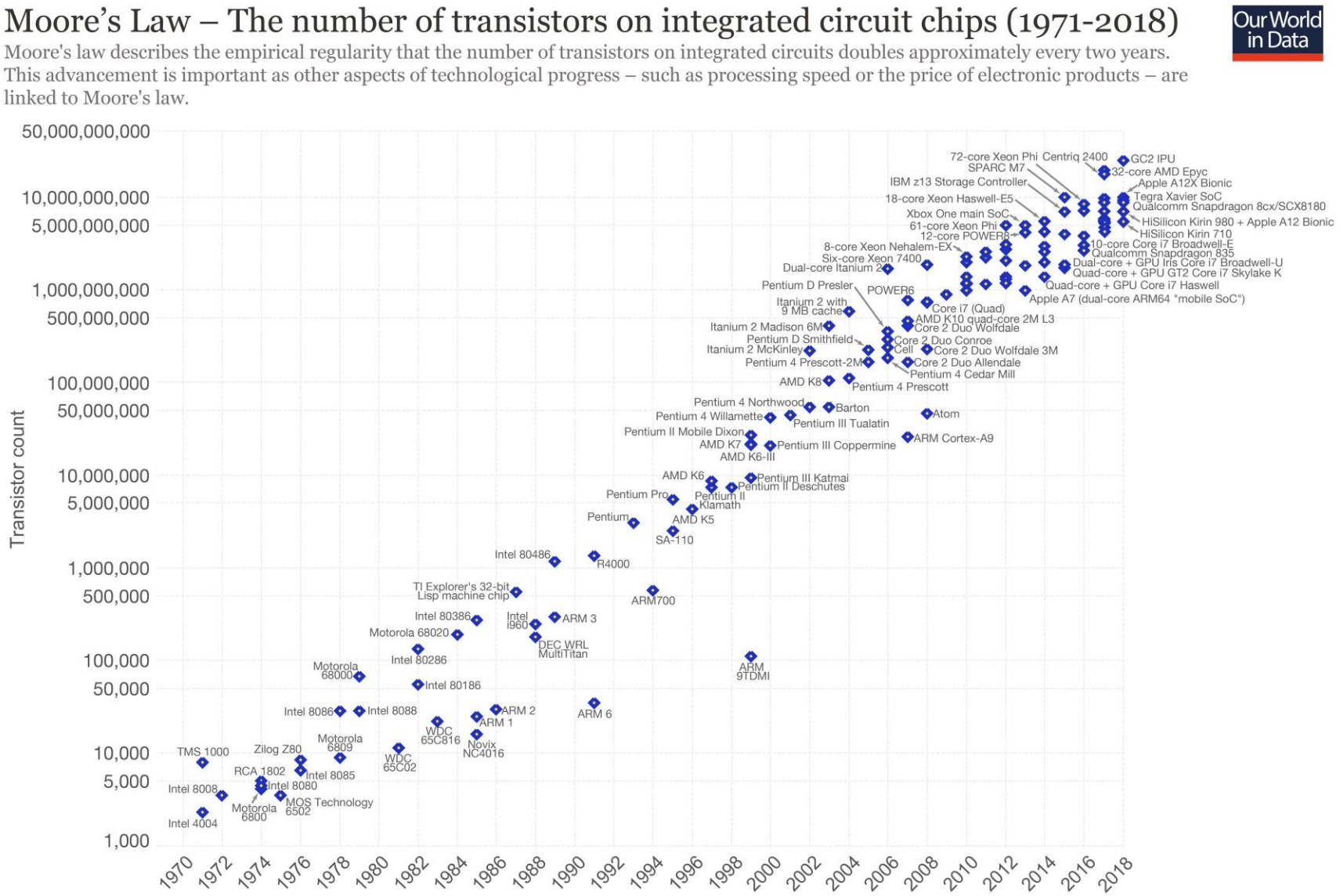
Appendix

Moore's Law Transistor Count (Max Rozer, May 2019)



For illustrative purposes only. There is no guarantee that any specific objective will be achieved.
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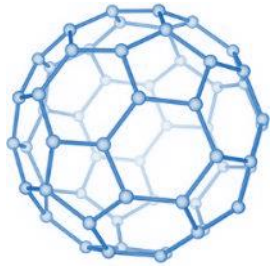
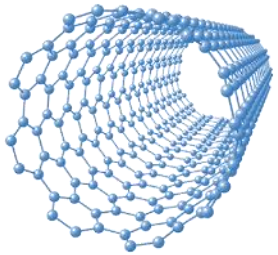
Materials That Power Our World

New forms of carbon critical to emerging applications with a profound impact climate change



Fullerene



SWCNT

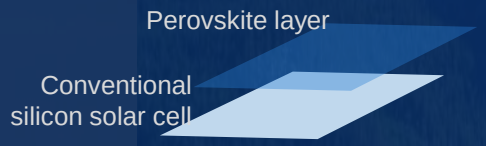
Specialty Chemicals

Capitalizing on unique properties

— required for mission critical applications

NEW MATERIAL POTENTIAL TO DISPLACE
>1 BILLION TONS OF CO_2 BY 2050

Tandem Perovskite Photovoltaics

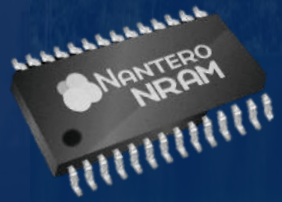


- > 40% more power from the same area
- Same installation cost
- Nil added weight

Organic Photovoltaics

- Light-weight
- Efficient in low-light
- Can be applied as siding on buildings

Non-Volatile Memory (NRAM)



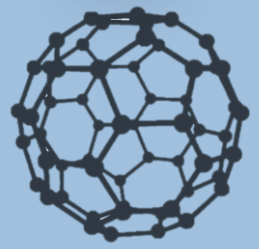
- 100s of times faster
- 40% less energy
- Uses no standby power

Sensors

- Reduce Food Spoilage
- High Sensitivity
- Printed / Low Cost
- Flexible Form Factor

Nano-C Produces Fullerenes

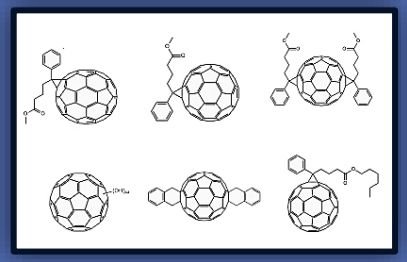
PRODUCTION BY COMBUSTION



VALUE ADDED CHEMISTRY

Specialty Chemicals and Formulation

Functionalized Fullerenes



APPLICATIONS

EUV Photoresists Spin on Carbon Hard Masks	Semiconductor Manufacturing
Organic Photodetector (OPD) OLED	Displays & Imaging
Organics Photovoltaics (OPV) Perovskite Photovoltaics Tandem PV Vapor Deposition OPV	Solar Power

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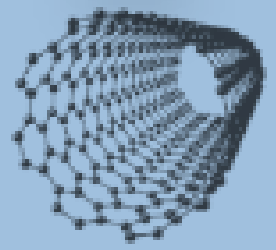
Nano-C Produces SWCNTs

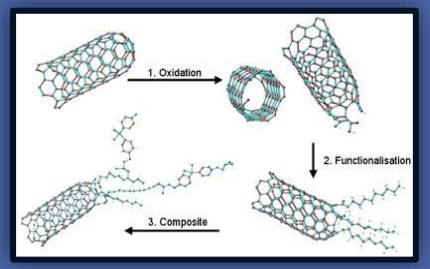
PRODUCTION BY COMBUSTION



VALUE ADDED CHEMISTRY

Semiconducting SWCNTs

SWCNT Paste & Inks Invisicon®



APPLICATIONS

Sensors		IoT
Printable Transistors		Displays
Low-Power Transparent Electrodes		
Transparent Heaters (Auto LED, Military)		Automotive
Transparent Antenna		
High-Power Transparent Electrodes		Solar
Waste-heat to Power		IoT
Switching Materials		Memory
Additives		Energy Storage
Membranes and Bipolar Plates		Hydrogen
Additives		Composites and Other

Invisicon® *is a registered trademark of Nano-C, Inc. Covers unseparated SWCNT pastes, inks and film products.*

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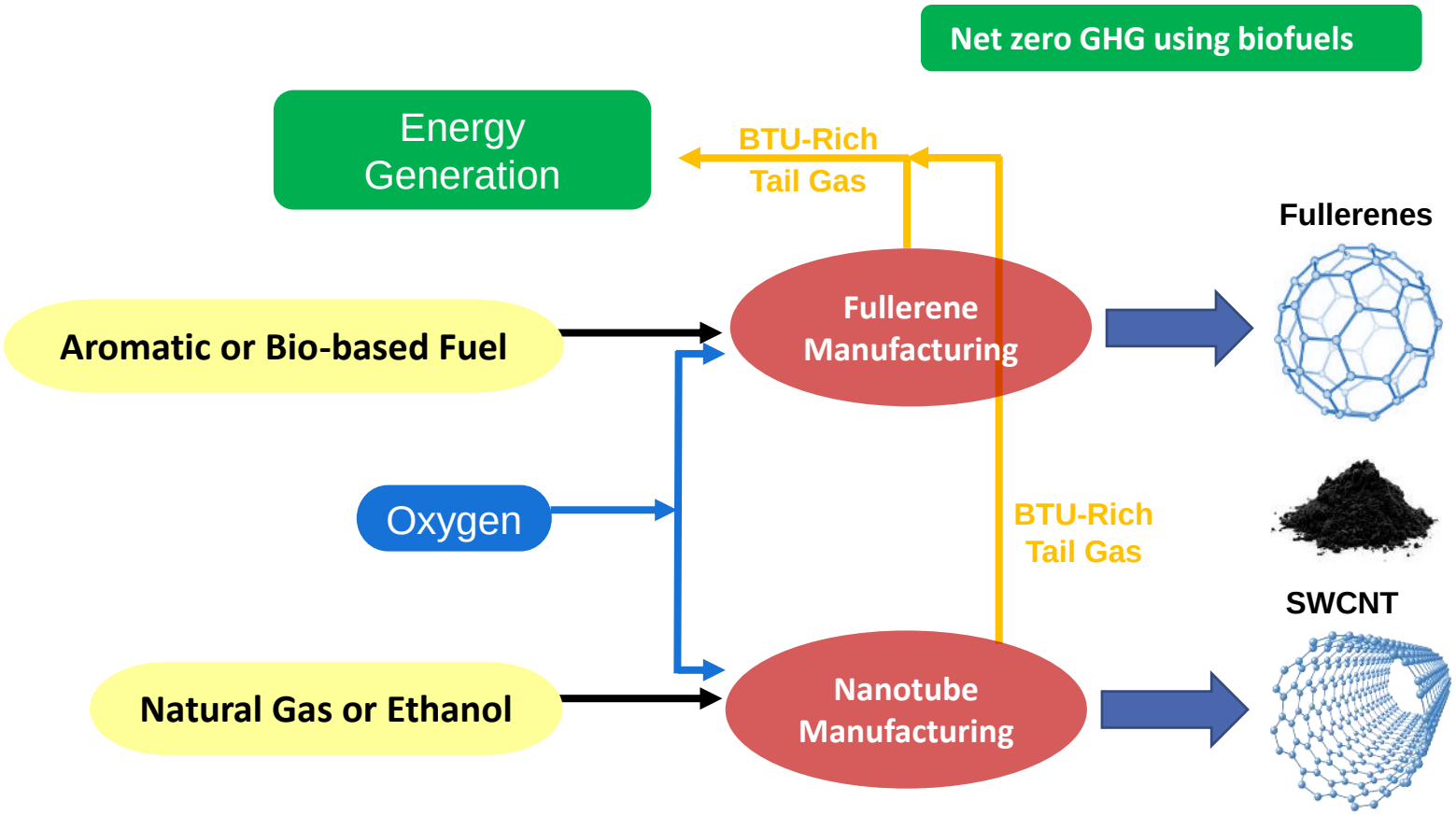
Framework for Operational Sustainability: Convert Tail-Gas to Energy



- Combustion based manufacturing, as practiced by Nano-C, is **exothermic** (similar to carbon black manufacture)
- A BTU-rich tail gas is released, which can be recovered as energy for operational use