

SKYNANO TECHNOLOGIES

economical carbon nanotubes through environmentally sustainable manufacturing

Anna Douglas Cary Pint

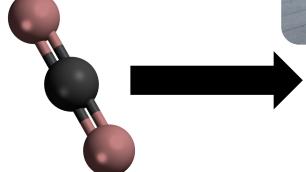




WHAT IF...



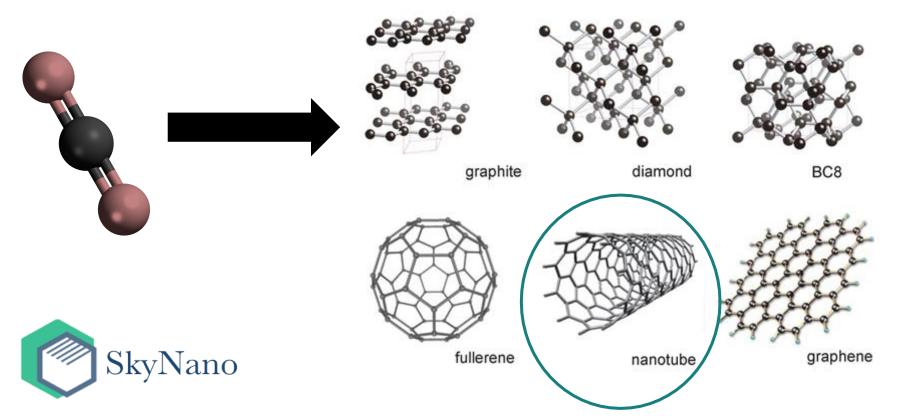








SKYNANO: BUILDING THE BUILDING BLOCKS



CURRENT CNT BOTTLENECK: MANUFACTURING COST





Scalability barriers



Energy-intensive



Limits applications

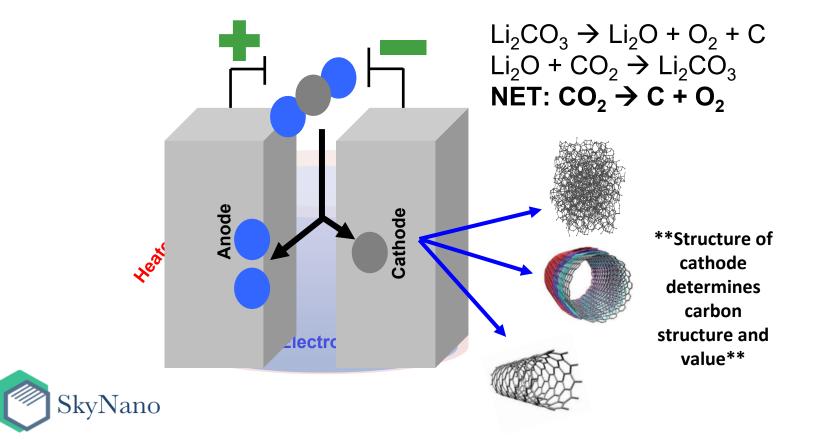
NOVEL ELECTROCHEMICAL MANUFACTURING



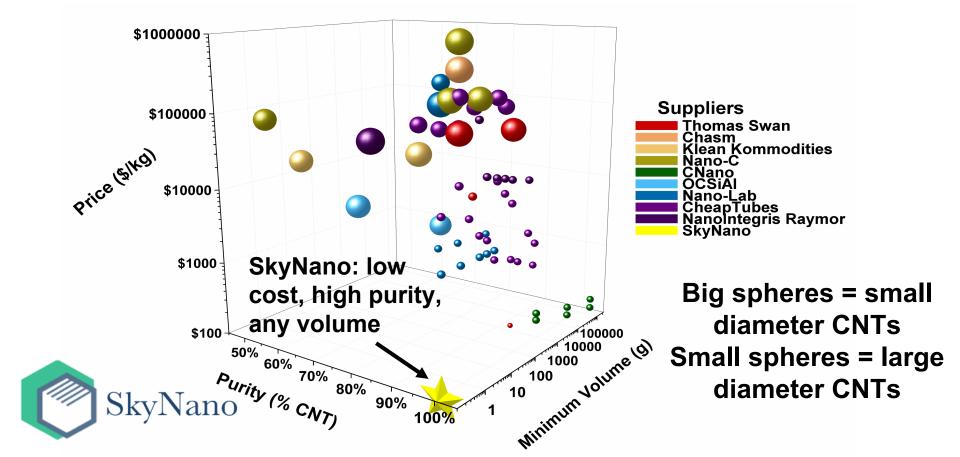
- CO₂ captured/converted from air as chemical feedstock
- Open system facilitates scaling
- Harnesses the precision of electrochemistry

Unparalleled Energy Efficiency

THE REACTION



COMPETITIVE LANDSCAPE



PRODUCT OPPORTUNITY



faster charging batteries



tires that last longer + save fuel





cheap & efficient transparent conductive films

coatings and composites with enhanced functionality



MARKET OPPORTUNITY



Current CNT

Market:

<u>\$671M</u>

(aerospace +
 specialty
applications)

Adapters

\$2.8B

1-5 years to capture this market

Deicing EMI Shielding **Adopters**

\$3.9B

3-8 years to capture this market

Battery Additives Elastomer Additives **Converters**

\$102B+

8+ years to capture this market

Transparent Conductors
Filtration Membranes
Wires
Sensors
Concrete Additives
Coatings
Smart Textiles
+ MORE!

Immediate Opportunity



THE TEAM



Anna Douglas

The Strategist

- En Route to Ph.D. in Materials Science @ Vanderbilt
- >6 years experience in nanotechnology
- Expertise: nanomaterials synthesis, electrochemistry



Cary Pint

The "Iron Chef" of CNTs

- Ph.D. Applied Physics, Rice Univ., 2010
- Professor of Mechanical Engineering @ Vanderbilt
- >13 years experience in CNTs
- World Leader in Carbon Nanotechnology & Energy Tech



Michael Pannell

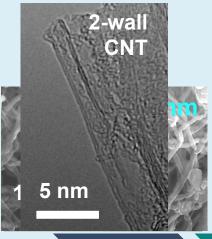
Technician Extraordinaire

- BS Chemistry/Economics, University of Richmond
- Expertise: carbon nanomaterials, technology economics



Anna Klug
Scaling Mastermind

- BS Mechanical Engineering, Union College
- Systems level design and thermal management expertise



GROWTH STRATEGY

Target markets identified Small diameter MWCNTs 2018

Samples to target first customers 2019

Mass production **2021**

2017

Proof of concept Large diameter MWCNT

100 nm

~ 8 nm

2018 Benchtop

20 kg reactor

2020

Pilot plant 50 ton capacity





Seeking private funding for transition out of lab

VALUE PROPOSITION



Low cost product overcomes barriers and enables new market opportunities



Team with unparalleled world leadership in technology area





Quickly scalable with customer demand



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