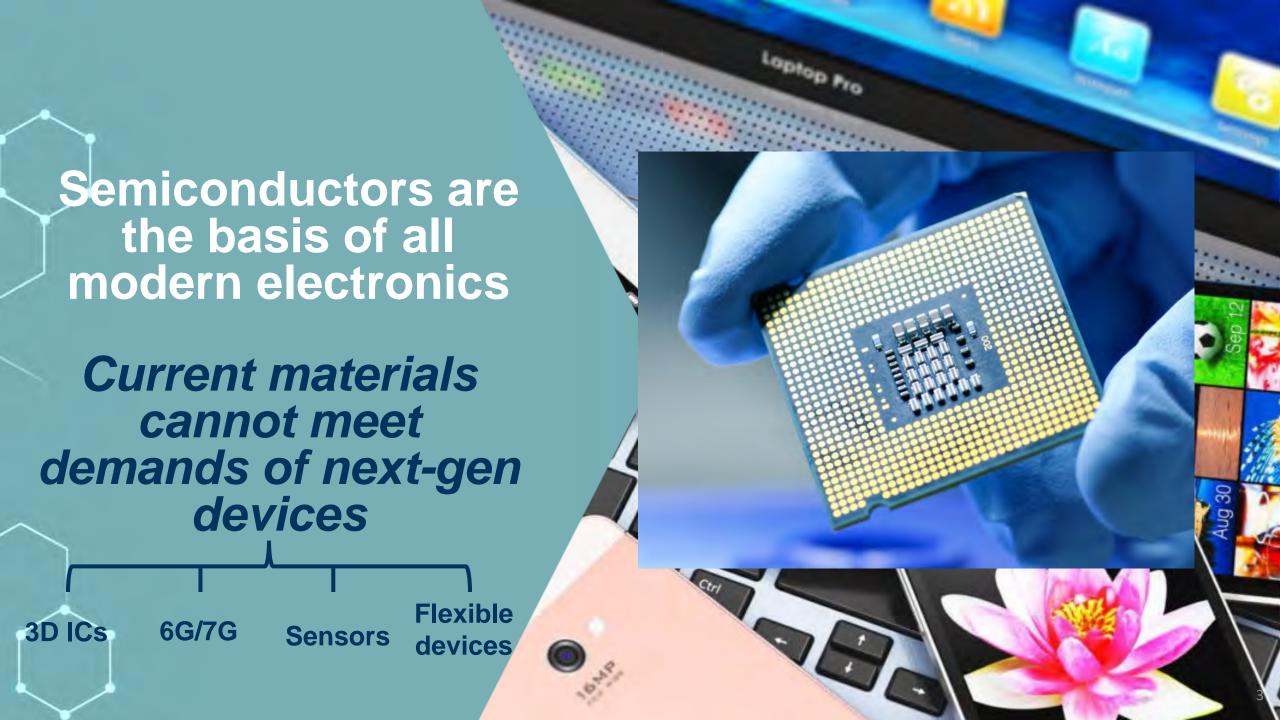
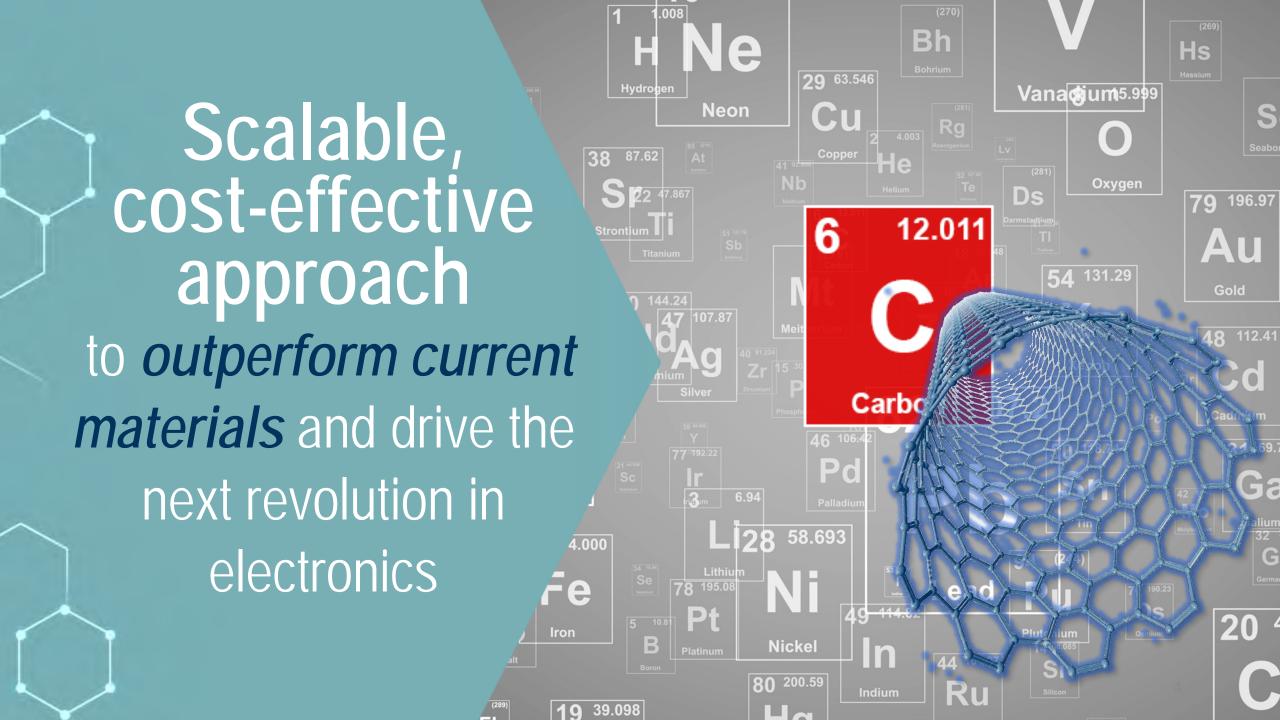




Founded Sept. 2022 UW-Madison Spinout

Overcomes 30-year challenge to leverage aligned carbon nanotubes for faster performance, lower cost radiofrequency devices, with possibility to expand into broader semiconductor device markets



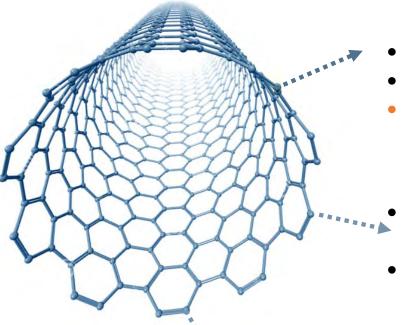




The Superior Performance of Carbon Nanotubes

Cost-effective solutions

Layer of carbon atoms rolled into a cylinder



SixLine's 1st Target Radiofrequency (RF)

- 3-8x higher frequencies than current materials
- On-chip integration with Si
- Larger data bandwidths
- Intrinsic linearity

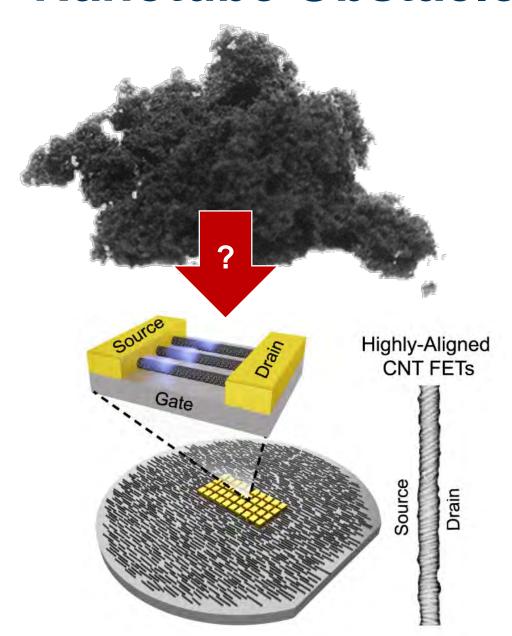
Logic

- 100 1000× lower power consumption
- Enables 3D circuits—route to advance Moore's Law

Thin-Film Electronics

- 10-100× faster performance
- Mechanically resilient

Nanotube Obstacles



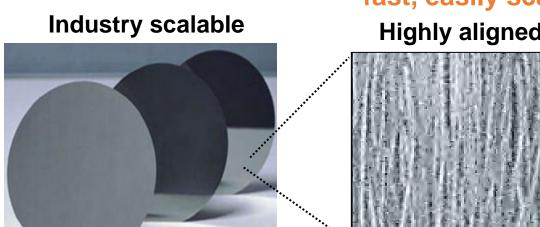
30-year challenge: translating random nanotube soot into highly-aligned semiconducting carbon nanotube arrays from a commercial and scalable process for highperformance electronics

SixLine Produces Ideally Aligned **Electronics-Grade Nanotubes**

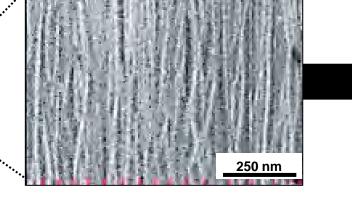


Highly-aligned, registered arrays of semiconducting nanotubes from a

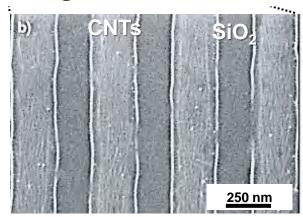
fast, easily scalable process



Highly aligned (±7°)



Registered Placement



- ✓ Compatible with conventional fabrication techniques
- ✓ Fast process—high info turns
- Manageable byproducts

devices Oxide

High-performance electronic

Process occurs at roomtemperature/pressure—enables system-on-a-chip integration

Strong Performance and Cost Advantages

PROPRIETARY PROCESS CONTROL

APPLICATIONS

COMPETITIVE ADVANTAGES FOR RF

Targeted Packing Density

Room Temperature Process

High Alignment

Uniform Films

Selected Placement



Next-gen RF: 6G/7G, Advanced WiFi

- >3x frequency performance
- High data fidelity at high freq
- System-on-a-chip integration



- >50% lower wafer cost
- 250% more fab facilities
- 55% lower die cost
- 65% throughput increase

Technology Traction

- 8 years of research
- \$2M in research funding—significant progress
- Uniform alignment across
 4" wafer demonstrated
- State-of-the-art RF device performance via previous industrial partner
- Strong industry engagement
- 10 patents (8 issued, 2 filed)
 - Process and composition of matter protection

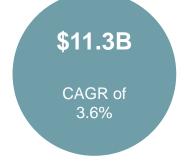


SixLine's Technology has Large Potential Value Across Multiple Markets

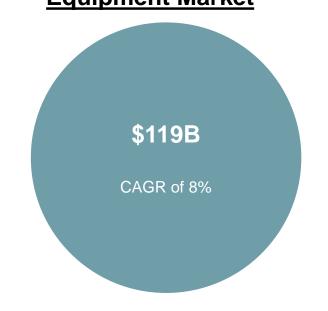


SixLine's 1st Target
Total Market

Logic Wafer Market

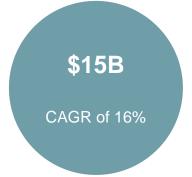


Semiconductor Fabrication Equipment Market



Application Markets





Biosensors

\$24.9B

CAGR of 8%



Experienced Team

Prof. Mike Arnold, PhD

Chief Technical Advisor, Co-founder, Co-inventor

Jeff Moore
Strategy/Commercial Support



Katy Jinkins, PhD CEO, Co-founder, Co-inventor



katy@sixlinesemi.com



Dominick Bindl, PhD
Technical/Commercial Advisor



in

Prof. Padma Gopalan, PhD

Technical Advisor, Co-inventor







Produces nanotube materials/arrays enabling next-gen electronic performance

- Significant performance and cost advantages
- Comprehensive IP library
- Strong industry engagement
- Overcomes 30-year challenge to leverage aligned carbon
- Current market focus: RF
- Will expand into other semiconductor markets