

Aligned Carbon

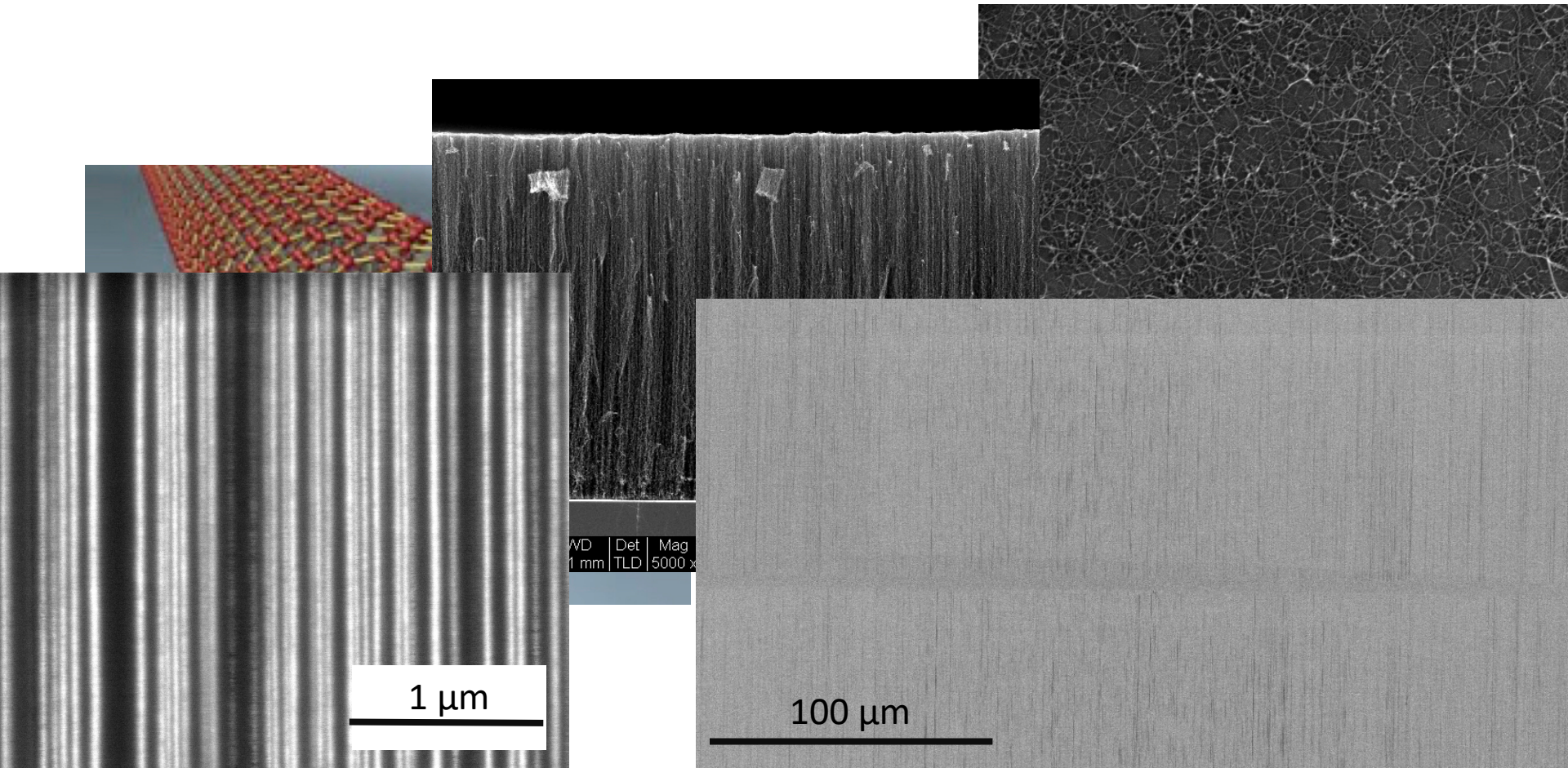
Cara Beasley, CTO

November 4, 2019

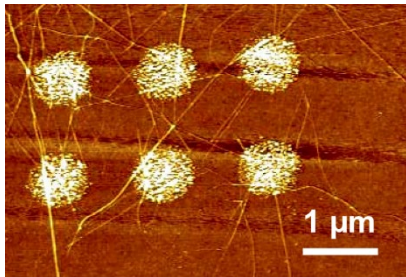
Activate

cyclotronroad

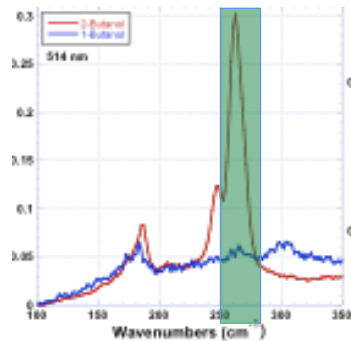
Single-walled Carbon Nanotubes



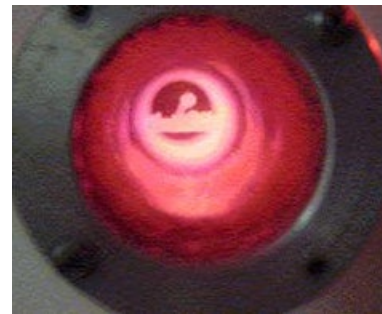
Industrially Useful Carbon Nanotubes



Directed Growth

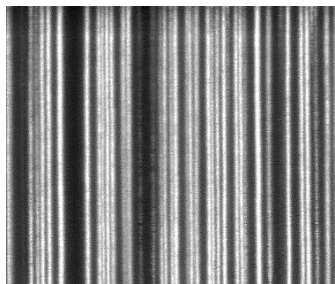


Single Chirality CNTs

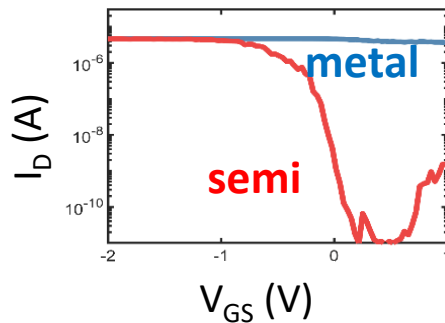


High Growth Temperature

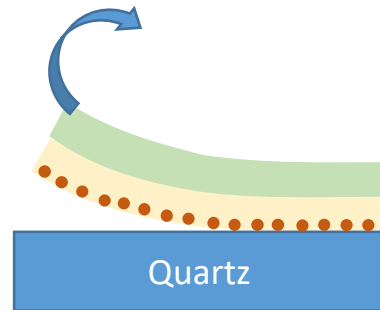
Aligned Arrays



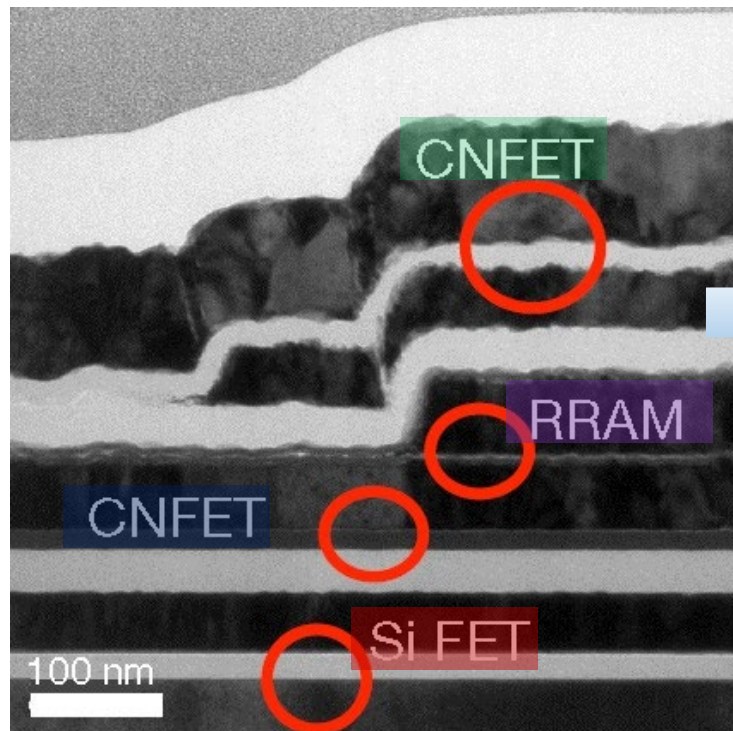
Post Growth Purification



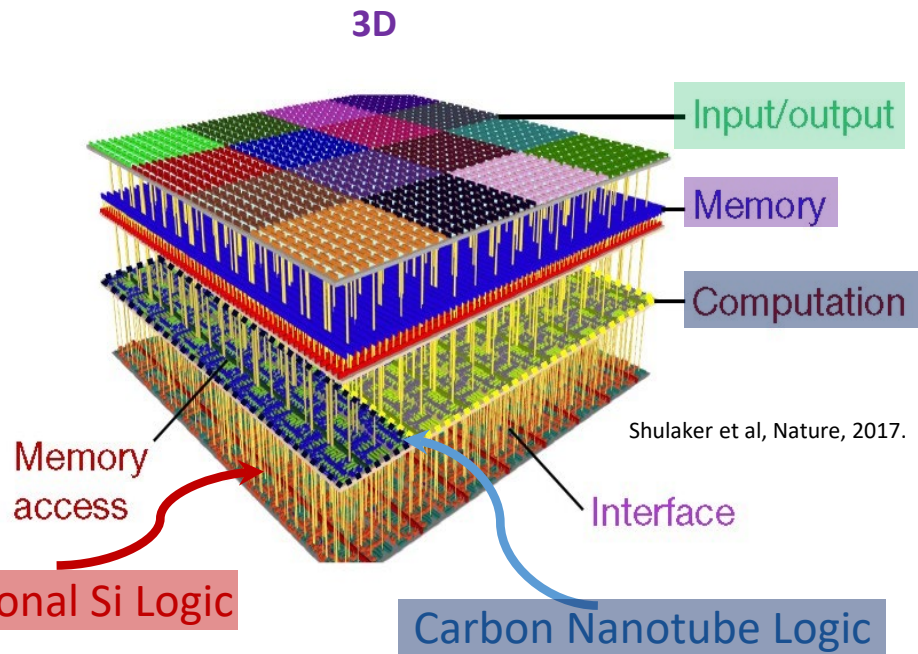
Film Transfer



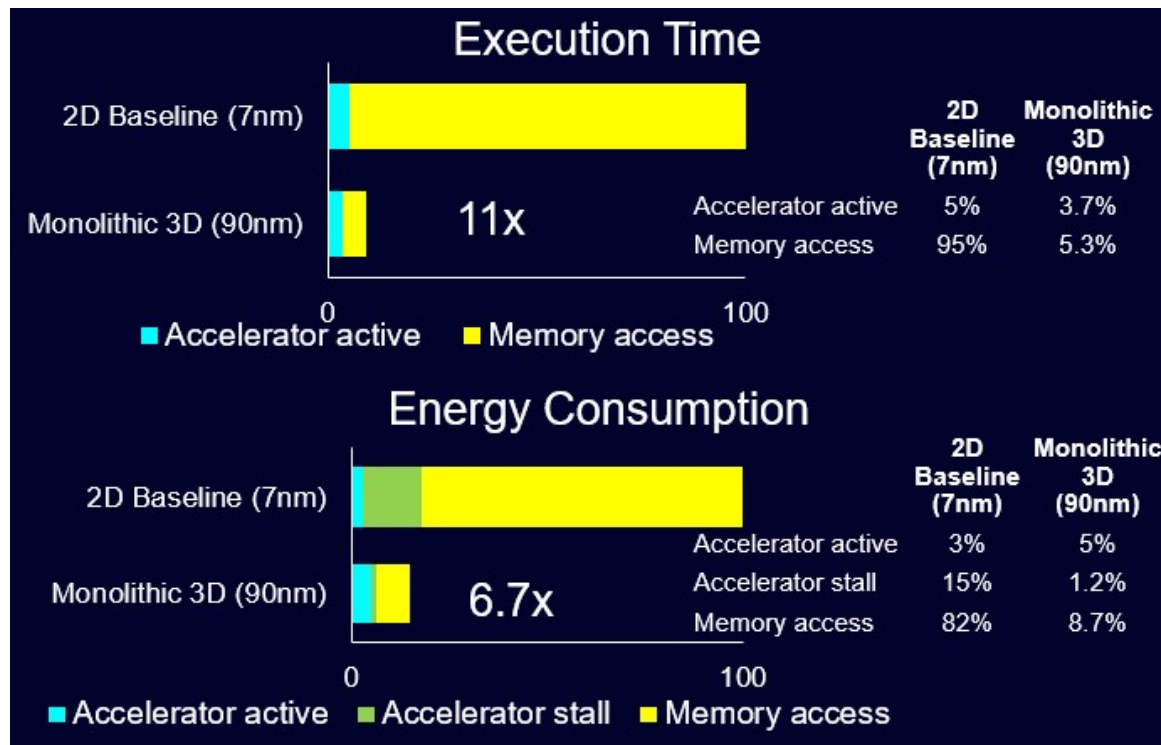
Monolithic 3D Integration



1000x Improvement



CNT-Based Monolithic 3D Performance



[S. Mitra & Stanford]

75x improvement using 8 generation old silicon technology

Our Product



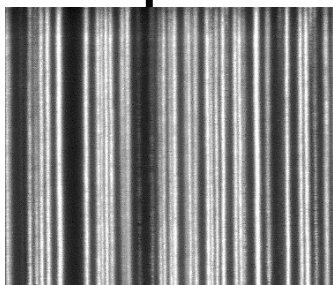
Covered in 10^9 aligned CNTs

Wafer scale arrays of Aligned Carbon Nanotubes (CNTs)

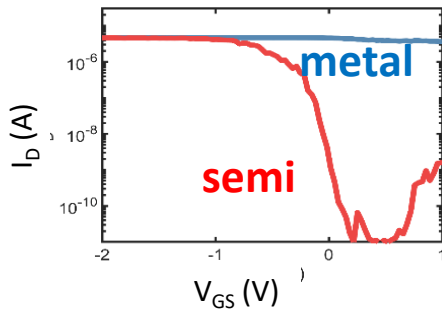
Technology Building Blocks



Align



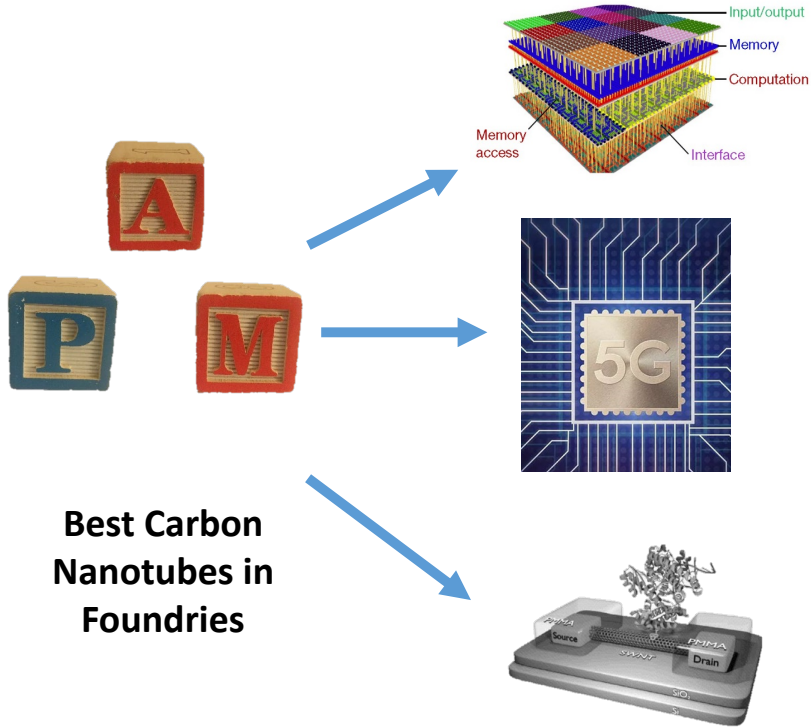
Pure



Manufacturable

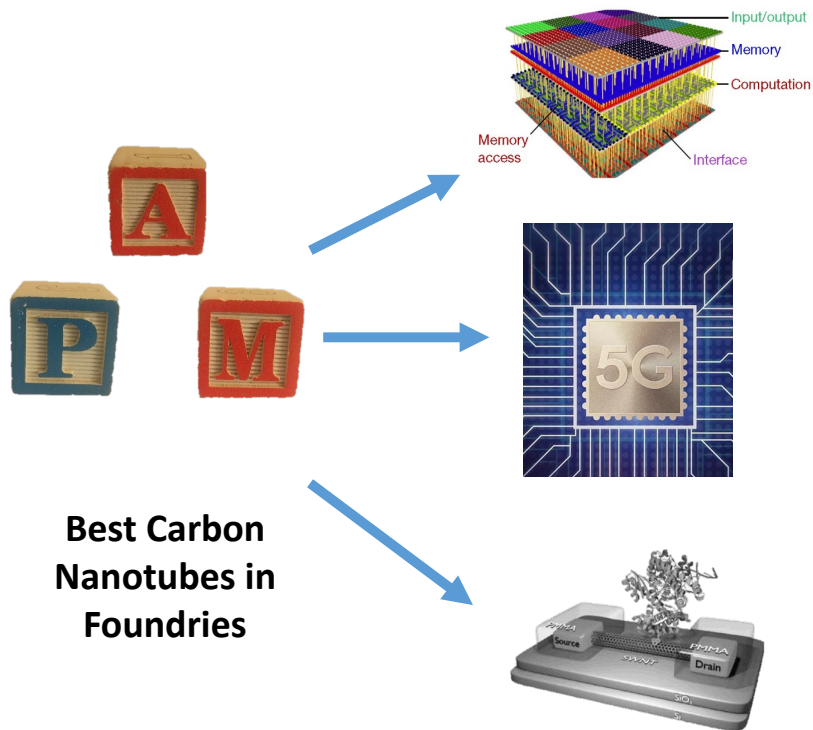


Road Map



**Best Carbon
Nanotubes in
Foundries**

Vision



Qualcomm

Aligned
Carbon

Thank you.

Aligned
Carbon

Start 



SBIR · STTR
America's Seed Fund

cyclotronroad