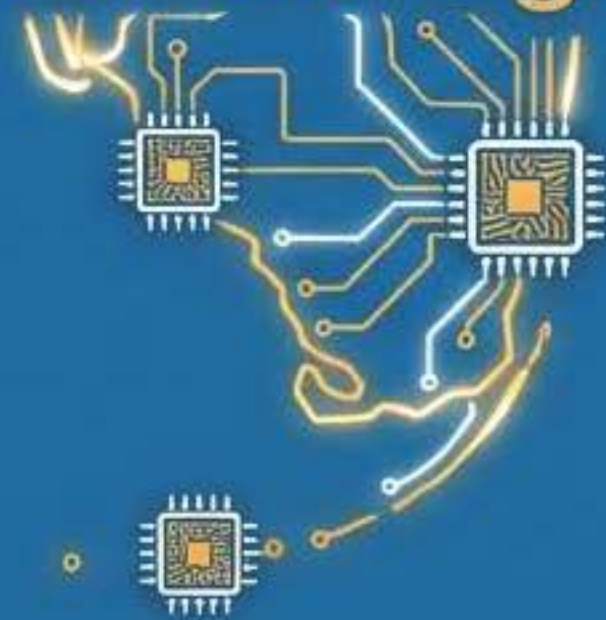




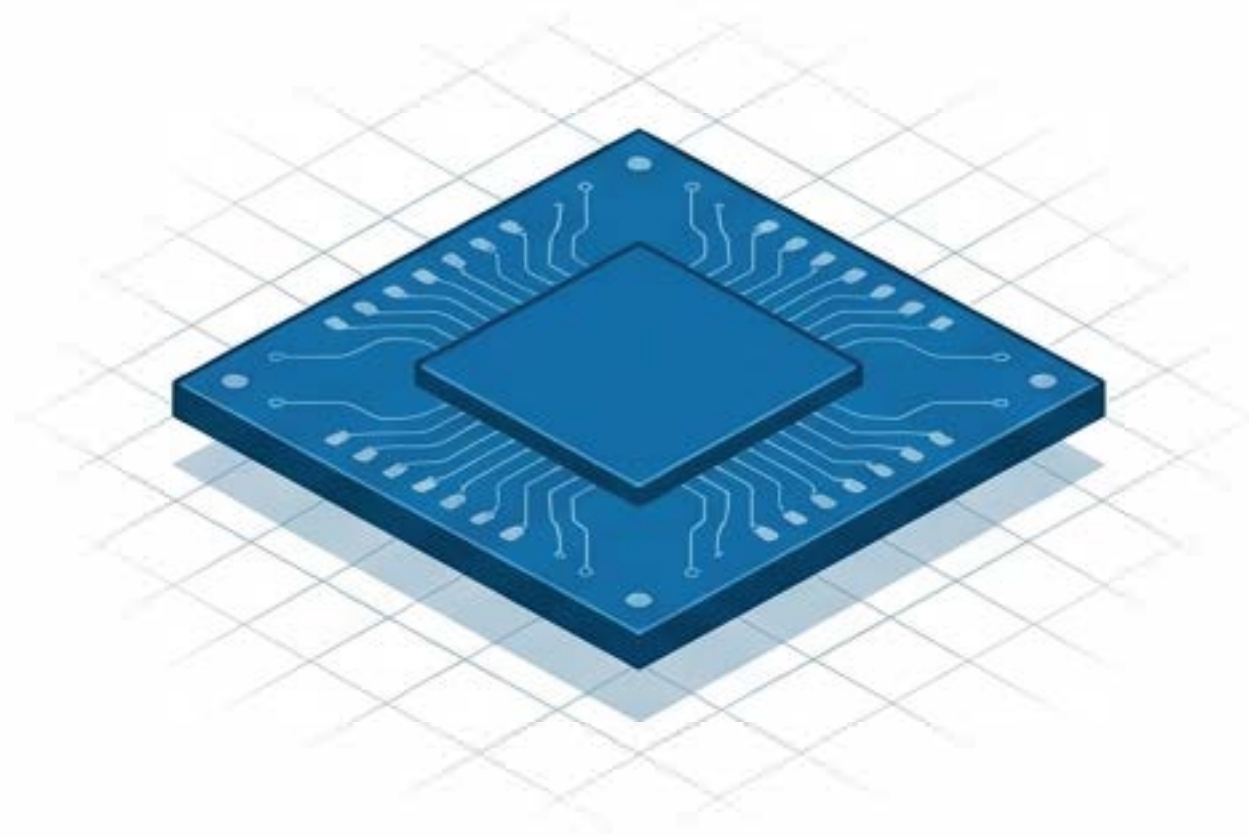
The Florida Semiconductor Engine

Powering the Future of Advanced Packaging

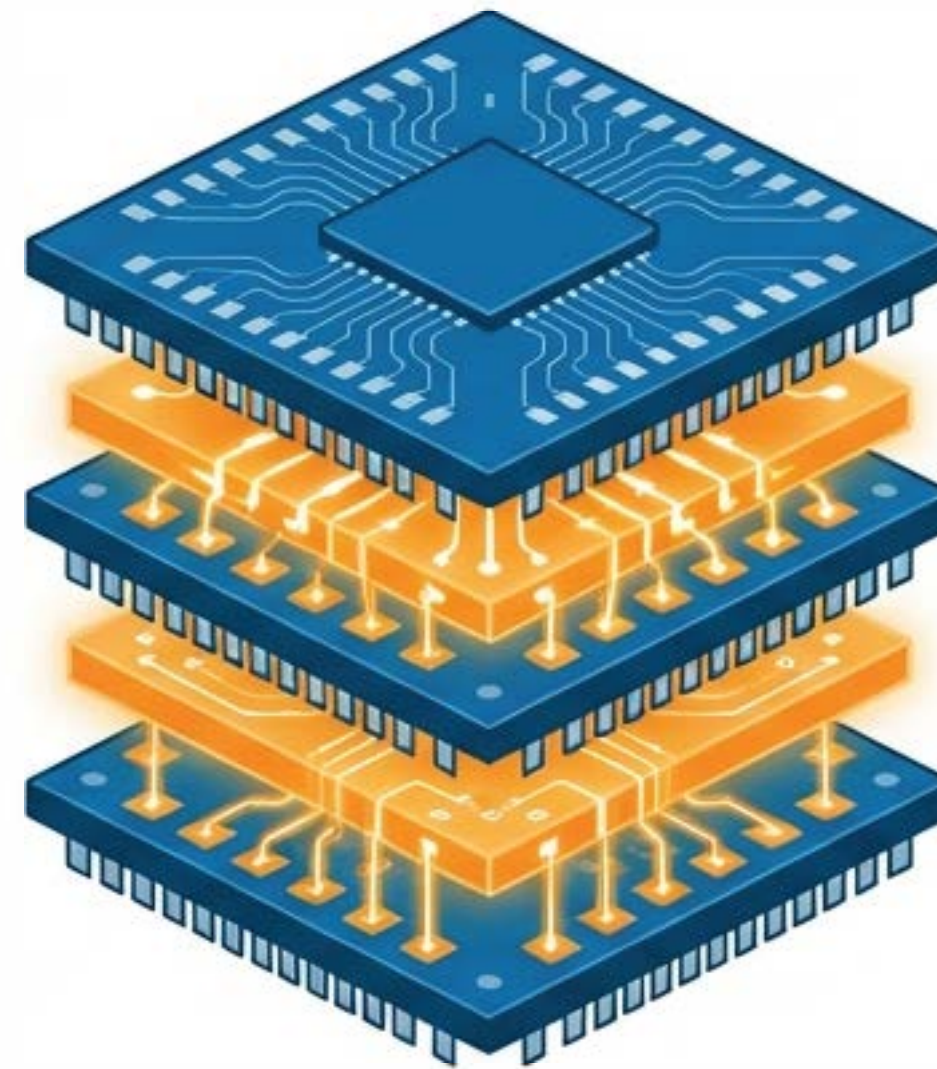


The New Frontier of Microelectronics

The world doesn't just need more chips. It needs smarter packaging.



Traditional Chip (2D)



Advanced & Specialty
Packaging (ASP)

- Moore's Law is slowing: We can't just keep making chips smaller.
- The Solution: Integrating diverse components into a single, vertical package.
- The Opportunity: The U.S. must capture this critical market.

Uniquely Florida: The High-Reliability Niche



Space & Aerospace



Defense Systems

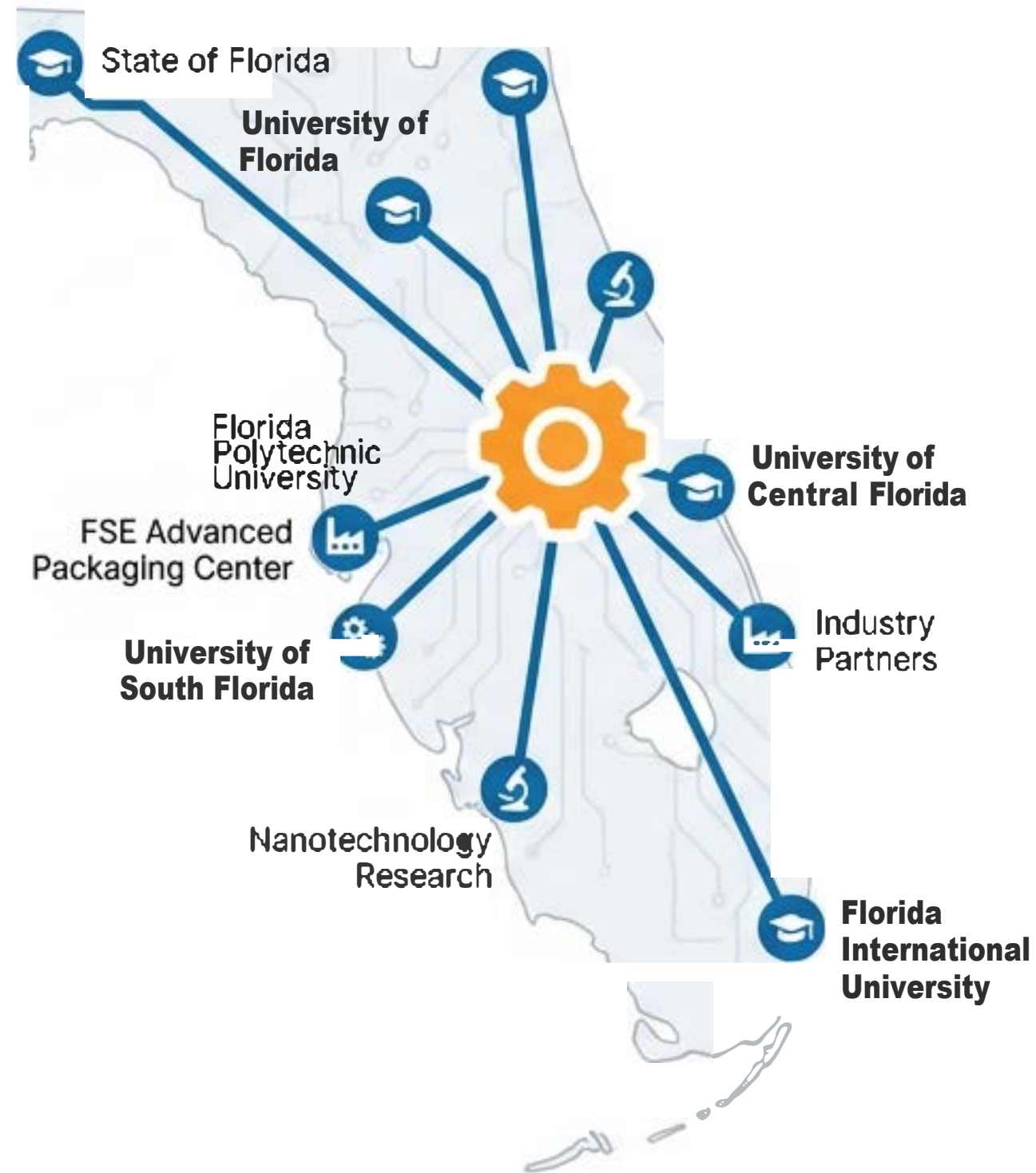


Medical Technology

We are the global leader in High-Mix, Low-Volume, High-Reliability.

Our heritage is building systems where failure is not an option.
This requires specialized chips that survive extreme environments.

Enter the Florida Semiconductor Engine (FSE)



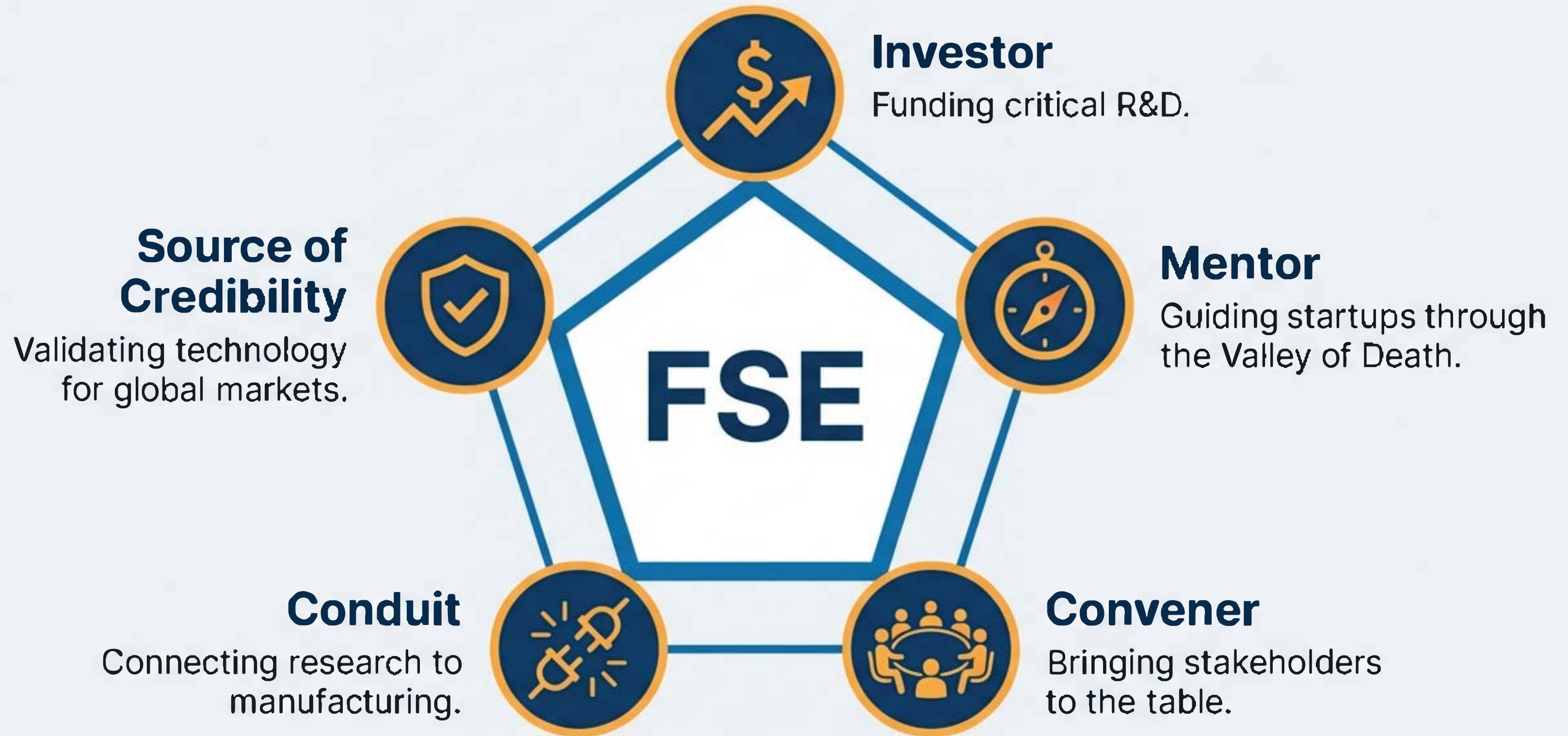
Mission:

To transform Florida into a global leader in Advanced and Specialty Packaging (ASP) by unifying the region's assets.

Role:

FSE is the System Integrator: aligning research, industry, and workforce into a cohesive engine.

The Five Roles of the Engine



Areas of Focus: Technology & Innovation



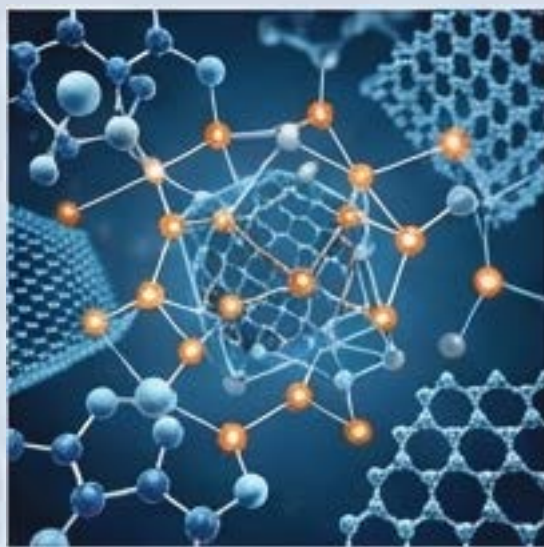
Advanced Packaging

Integrating chips for higher performance.



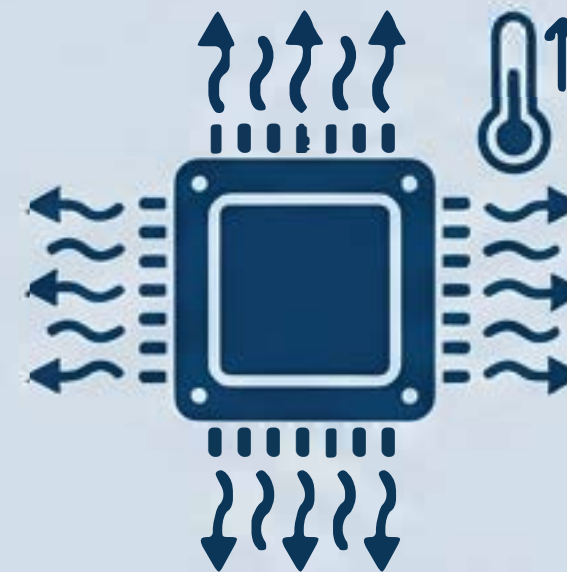
Digital Twins

Simulating designs virtually before building.



Material Innovation

Developing new inputs for faster data transfer.



Thermal Management

Keeping powerful chips cool and efficient.

Bridging the Lab-to-Fab Gap



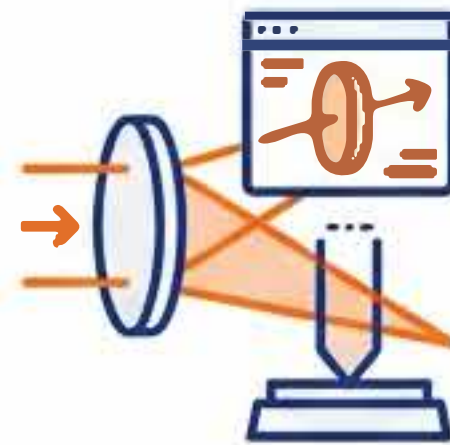
Florida's Academic Powerhouse

UF



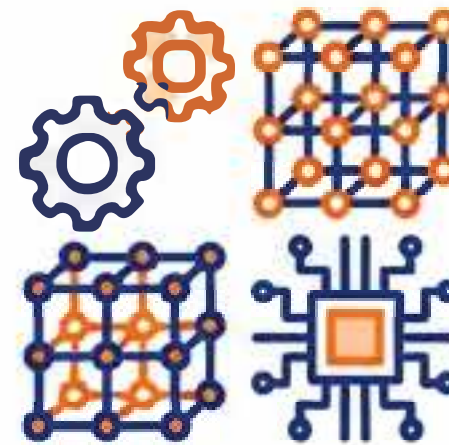
Research flagship &
Patent generation

UCF



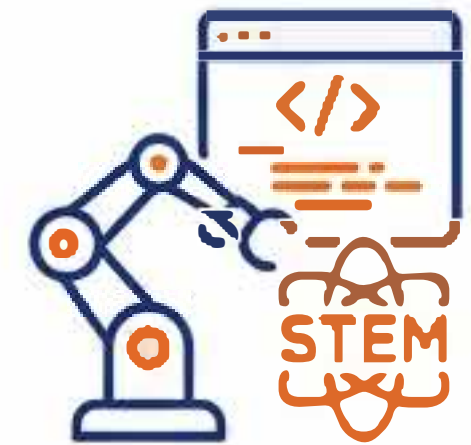
Optics, Photonics
& Modeling

USF



Applied engineering
& Materials

Florida Poly



STEM-focused
curriculum

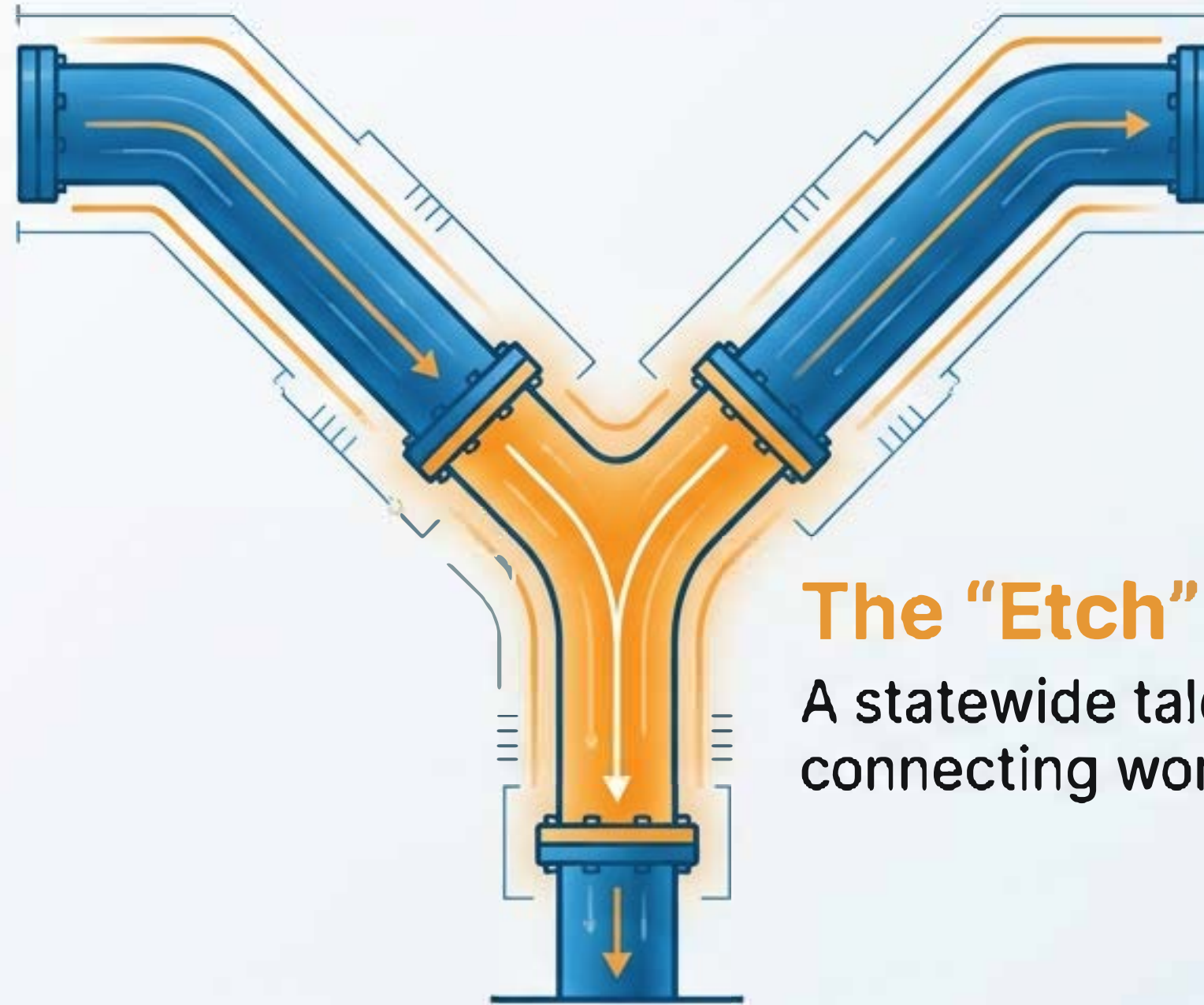
Generating patents, conducting R&D, and educating the next generation

Fueling the Workforce



Technicians

Valencia College:
Florida's first AS degree
in Semiconductor
Engineering Technology



Engineers & Scientists



Graduate programs at
partner universities

The "Etch" Platform

A statewide talent-matching tool
connecting workers directly to jobs

Building a complete pipeline
from entry-level to Ph.D.

The Physical Hub: Center for NeoVation at NeoCity



Concept: Product Enablement

A shared-use facility where companies prototype and test without building their own billion-dollar factory.

Tailored for High-Mix, Low-Volume production.

Expanding Markets: From Defense to MedTech



Defense & Aerospace is the Anchor.
Medical Technology is the Opportunity.

Economic Impact & Prosperity

\$160,000

Average Semiconductor Wage
(Double the state average)

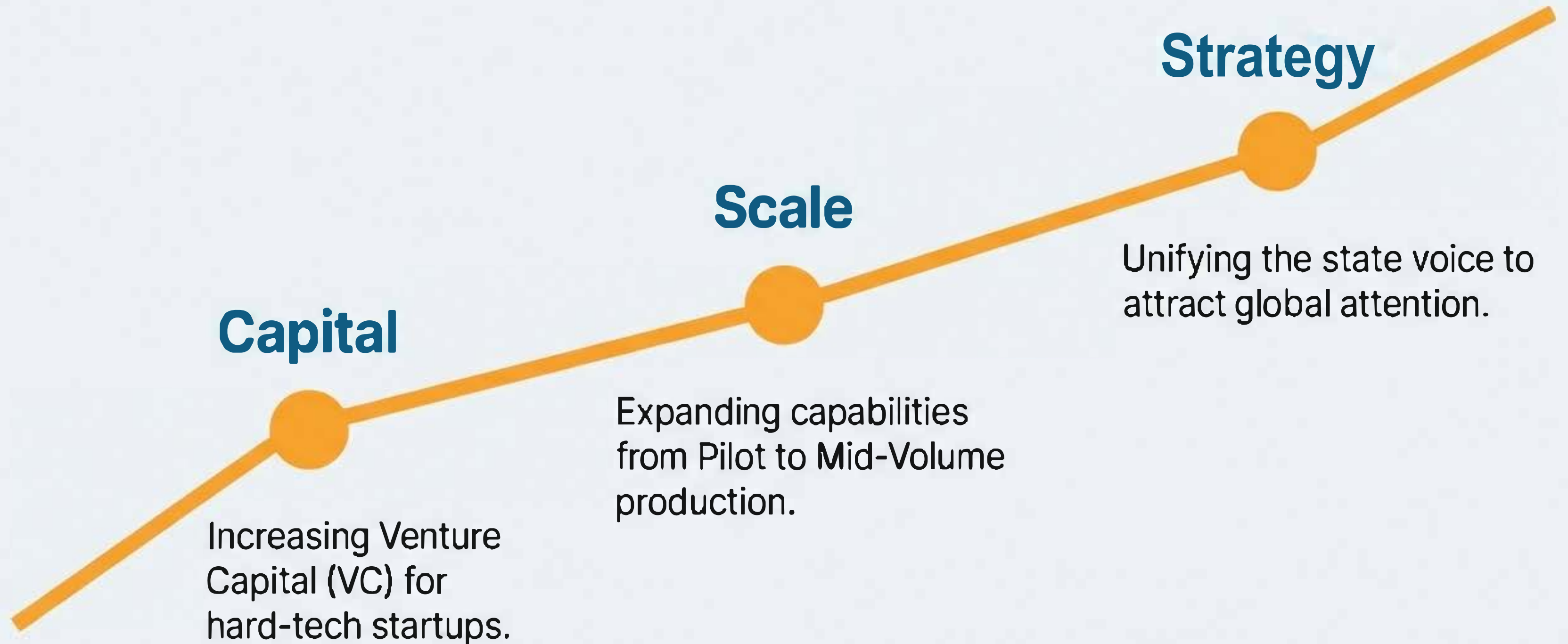
1 : 5

Multiplier Effect: Every 1
semiconductor job
supports 5 industry jobs.

Diversification

Reducing reliance on tourism
and agriculture.

Areas of Opportunity

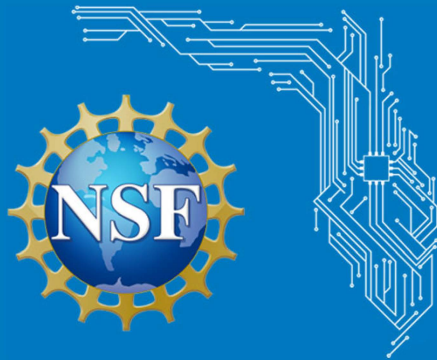


FSE's Vision: A Cohesive Statewide Ecosystem

Securing the U.S. supply chain for critical, high-reliability chips



Transforming isolated strengths into a unified, world-class engine



FLORIDA SEMICONDUCTOR ENGINE

SemiconductorEngine.org

