



DoD Microelectronics Commons

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Microelectronics Commons is currently in source selection. If there is any inconsistency between the material presented here and the Request for Solutions (RFS), **the RFS shall take precedence.**

The Microelectronics Commons RFS is posted on <https://nstxl.org/opportunity/microelectronics-me-commons/>



Microelectronics Commons:

Lab-to-Fab Transition of Microelectronics Technologies & Semiconductor Workforce Training

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Microelectronics Commons aims to enable lab-to-fab prototyping in domestic facilities & foster a pipeline of semiconductor talent



Research Universities, Start-ups have facilities for Lab prototyping but face barriers to demonstrating manufacturability in a Fab.

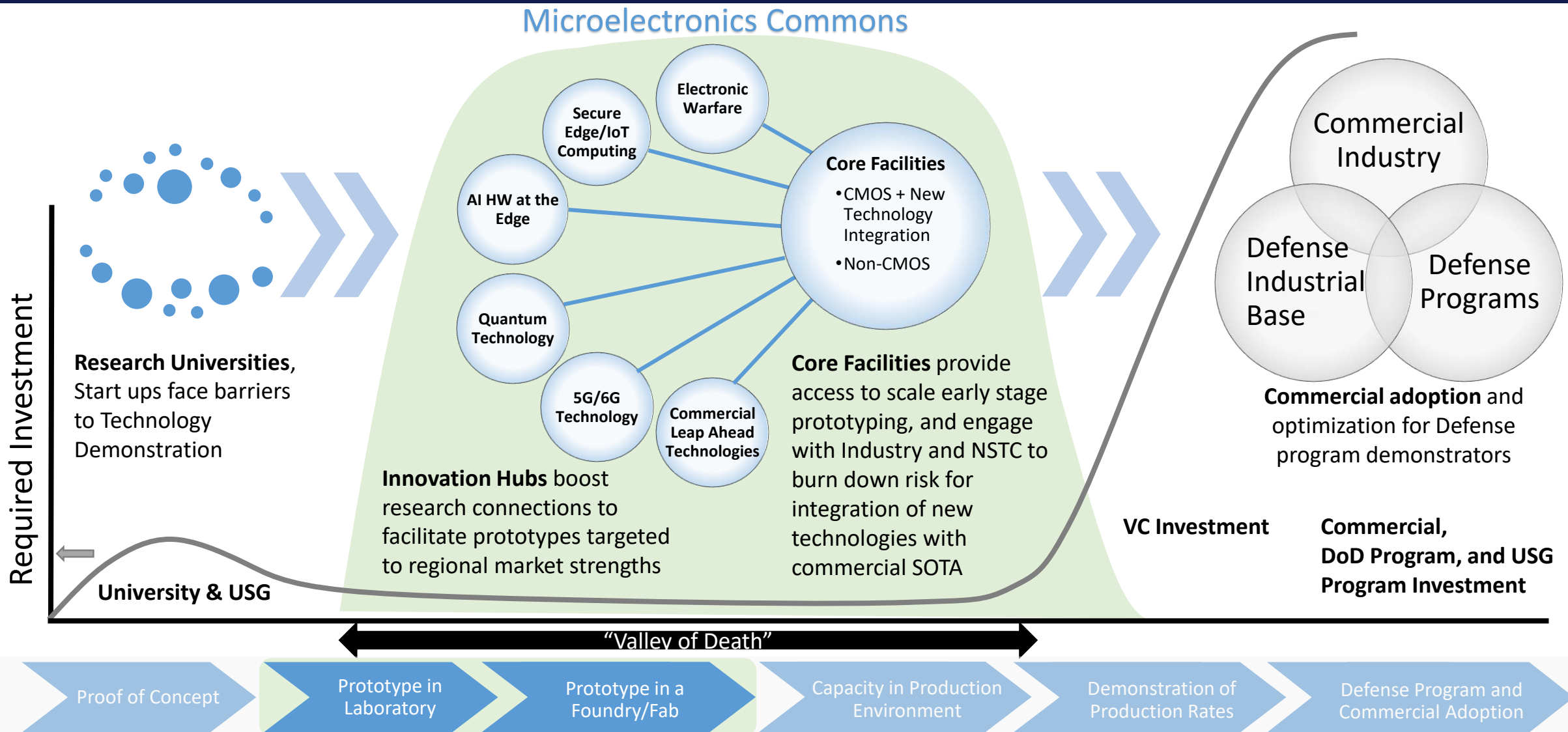
Core Facilities or Foundries/Fabs provide access to early stage Fab prototyping.

*Evolve microelectronics laboratory prototyping to foundry/fab prototyping
Democratize access to capabilities needed for lab-to-fab prototyping*



Microelectronics Commons Addresses the Valley of Death

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Progression from Concept to Product

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S&T

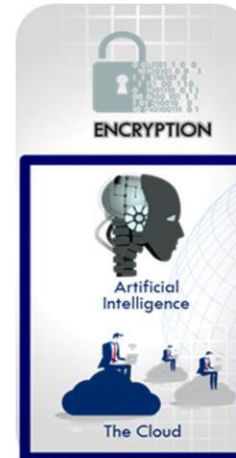
- Electronic Warfare
- Secure Edge/IoT Computing
- AI HW at the Edge
- Quantum Technology
- 5G/6G Technology
- Commercial Leap Ahead Technologies

Tech Demos

- RAMP
- RAMP-C
- SHIP
- T&AM Prototypes

Application Platforms

- Aircraft
- Submarines
- Ships
- Space Systems
- Ground Systems
- Missile Defense
- C4ISR



POSITIONING, NAVIGATION, AND TIMING



Lab-to-fab prototyping bridges valley of death from laboratory research to foundry/fab prototyping