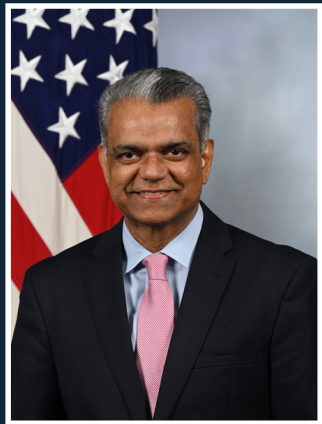




MICROELECTRONICS: DOD CAPABILITY ENABLER AND A "MUST WIN" FOR THE DOD

NDIA ETI CONFERENCE

DR. DEV SHENOY, PRINCIPAL DIRECTOR FOR MICROELECTRONICS,
OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE FOR CRITICAL
TECHNOLOGIES (ASD (CT))



AUGUST 2023

[HTTPS://WWW.CTO.MIL](https://www.cto.mil)  [@DODCTO](https://twitter.com/DODCTO)  [@OUSDRE](https://www.linkedin.com/company/ousdre)



MICROELECTRONICS: A "MUST-WIN" TECHNOLOGY FOR DOD

THE OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE FOR CRITICAL TECHNOLOGIES



BUILDING RESILIENT
SUPPLY CHAINS,
REVITALIZING AMERICAN
MANUFACTURING, AND
FOSTERING BROAD-BASED
GROWTH

100-Day Reviewer's Guide
Executive Order 14017

June 2021

A Report to
The Vice Chairman

Secretary of Defense
Department of Defense
Department of Energy
Department of Commerce
Department of Health and Human Services

NATIONAL DEFENSE
SCIENCE & TECHNOLOGY
STRATEGY 2023

CHIPS for AMERICA

A VISION AND STRATEGY
FOR THE NATIONAL
SEMICONDUCTOR
TECHNOLOGY CENTER

CHIPS Research and Development Office
April 25, 2022



NSTC

“Semiconductors are essential to national security. . . They are fundamental to the operation of virtually every military system, including communications and navigations systems and complex weapons systems such as those found in the F-35 Joint Strike Fighter.”

“The DoD will accelerate the process of turning ideas into capabilities by creating new pathways to rapidly experiment with asymmetric capabilities and deliver new technologies at scale. Doing so requires that we bridge the valley of death between prototypes and full-scale production.”

“...the NSTC will be able to support technologies emerging from the Commons and will collaborate closely with DOD to ensure program coordination and sharing of resources as part of the broader whole-of-government approach in alignment with the national strategy.”



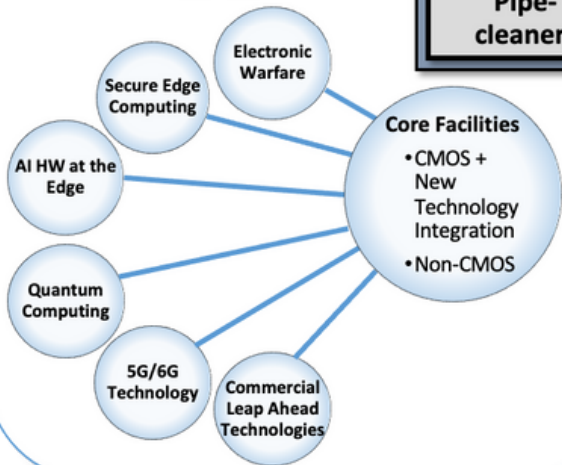
T&AM PROGRAM ENABLING ACCESS TO STATE OF THE ART (SOTA)

THE OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE FOR CRITICAL TECHNOLOGIES

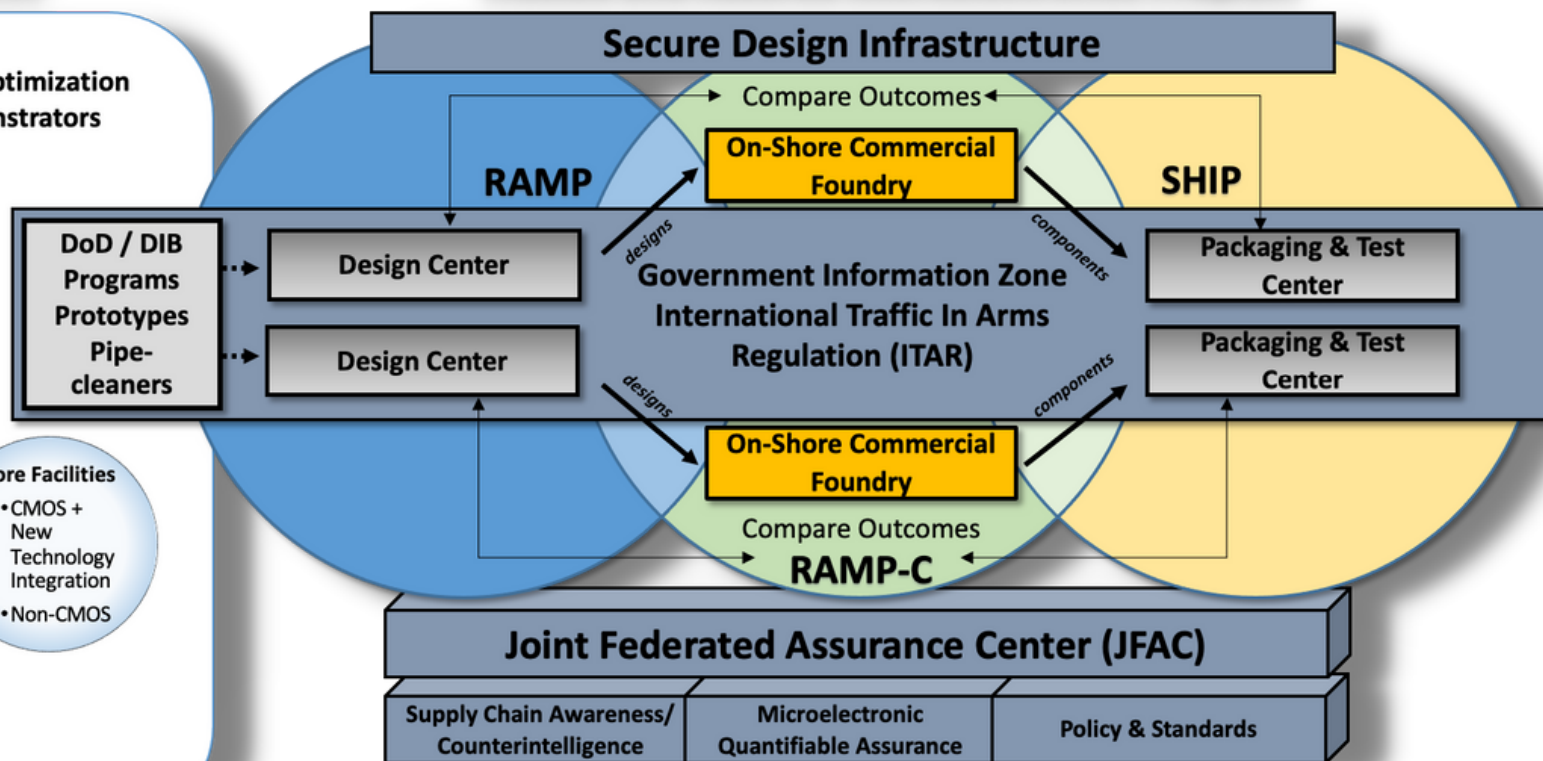


ME COMMONS

Lab-to-Fab Prototyping and optimization for Defense Program demonstrators



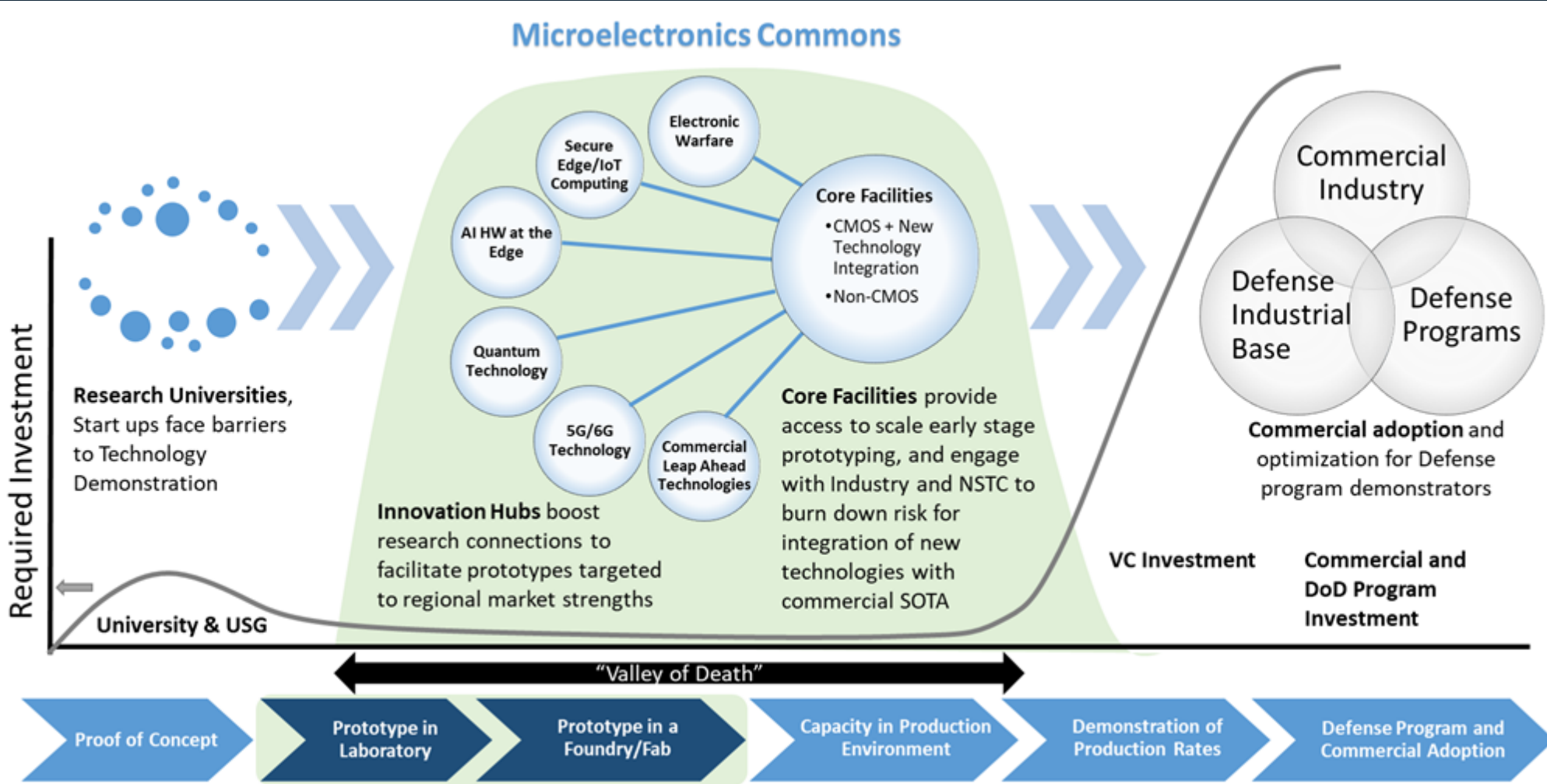
Trusted and Assured Microelectronics Program





MICROELECTRONICS COMMONS ADDRESSES THE VALLEY OF DEATH

THE OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE FOR CRITICAL TECHNOLOGIES



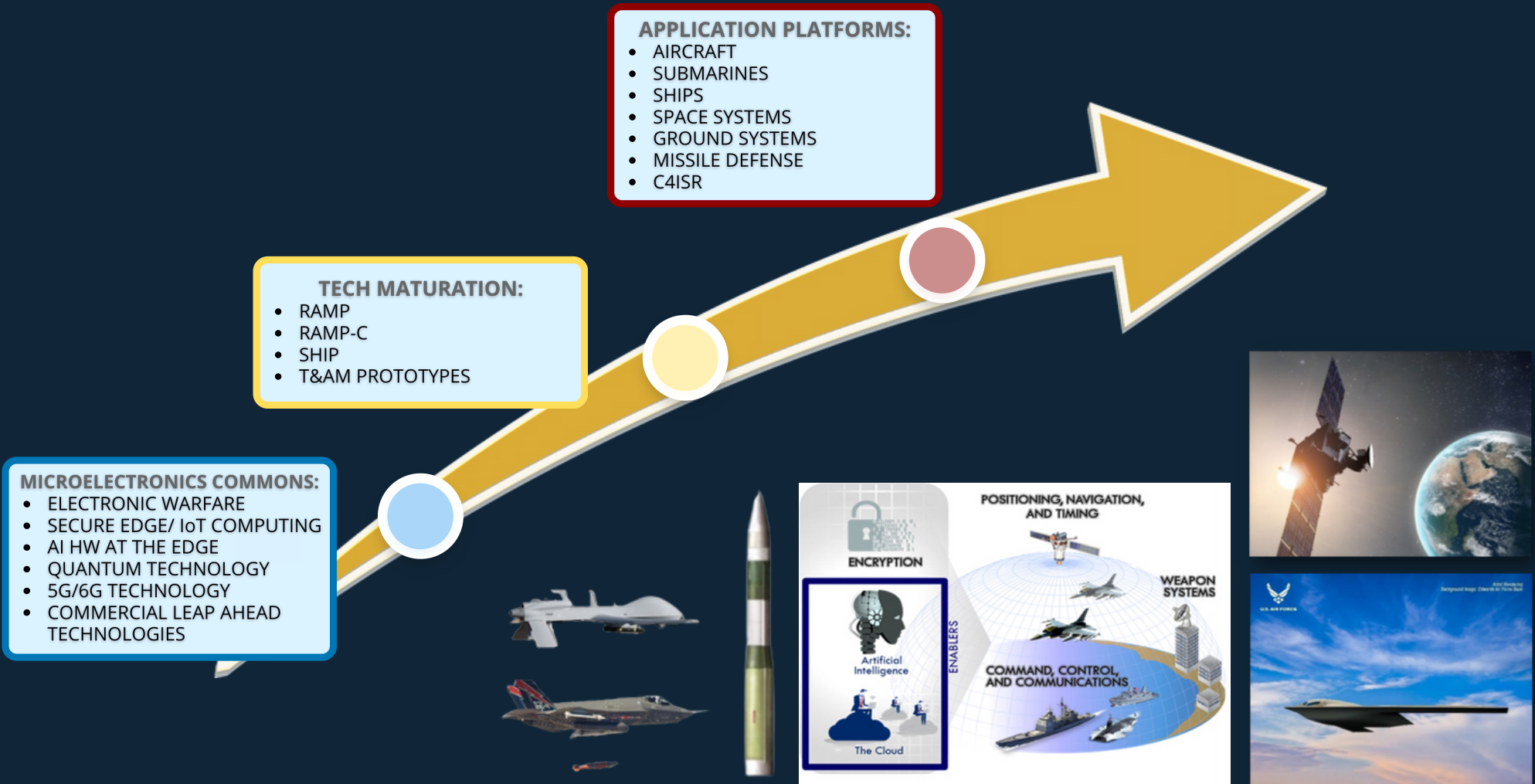


PROGRESSION FROM CONCEPT TO CAPABILITIES

THE OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE FOR CRITICAL TECHNOLOGIES



OUSD (R&E)'S MICROELECTRONICS PROGRAMS ARE ALIGNED TO DEVELOP AND DELIVER NEW DEFENSE CAPABILITIES.



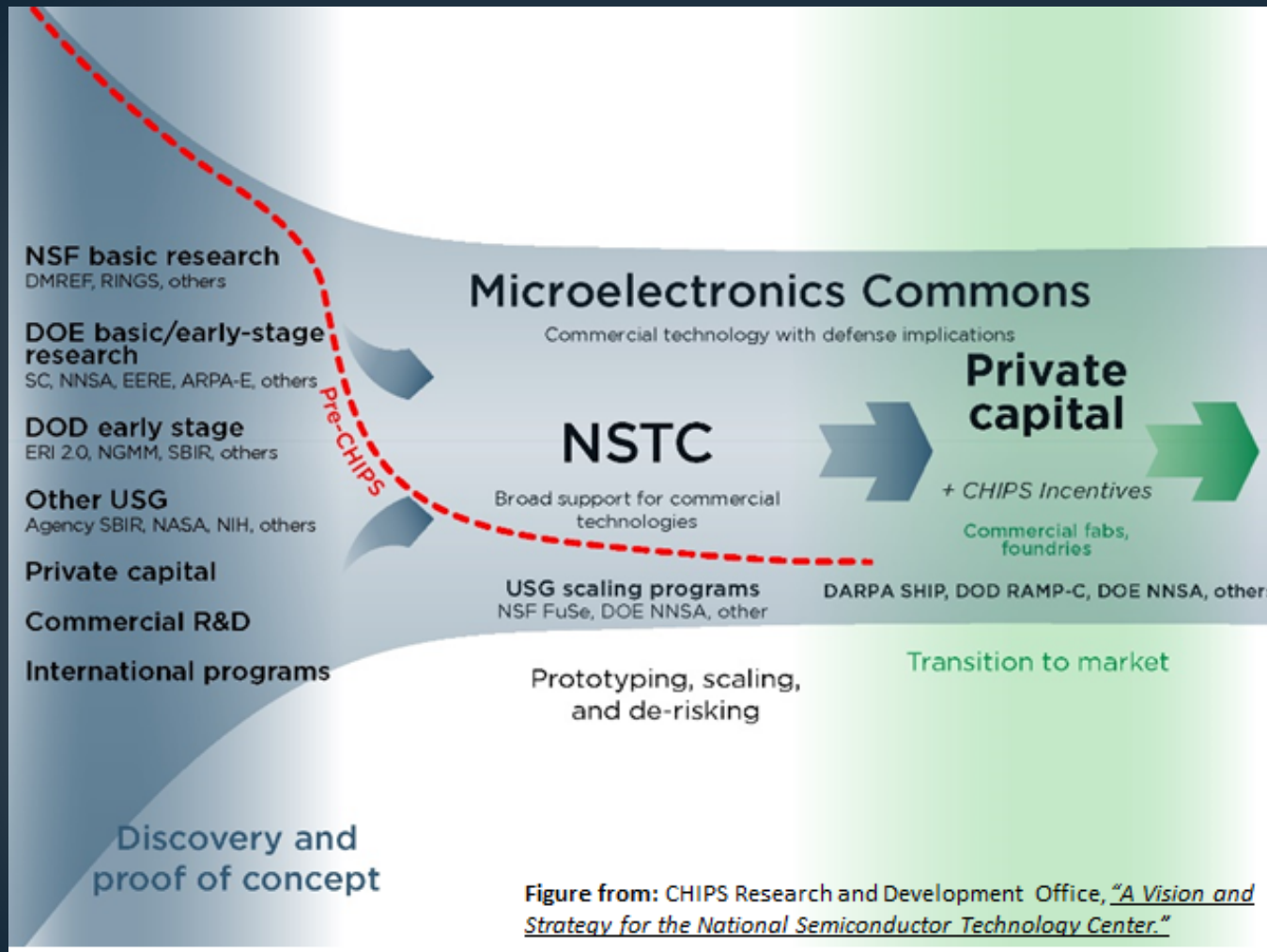


CHIPS OFFERS A WHOLE OF GOVERNMENT APPROACH



THE OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE FOR CRITICAL TECHNOLOGIES

THE NSTC AND ME COMMONS WILL EXPAND THE NUMBER OF CONCEPTS AND IDEAS THAT CAN TRANSITION FROM PROOF-OF-CONCEPT TO THE MARKET.





DOD RESEARCH AND ENGINEERING ENTERPRISE

CREATING THE TECHNOLOGIES OF THE FUTURE FIGHT



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