FutureG

AFCEA TechNet Emergence Conference Semiconductors and Microelectronics Session

12 March 2024

Dr. Thomas W. Rondeau
Principal Director, FutureG
Office of the Under Secretary of
Defense for Research and Engineering

Distribution Statement A: Approved for public release. Distribution is unlimited. [CTI March 8, 2023]. Other requests for this document shall be referred to OUSD(R&E).

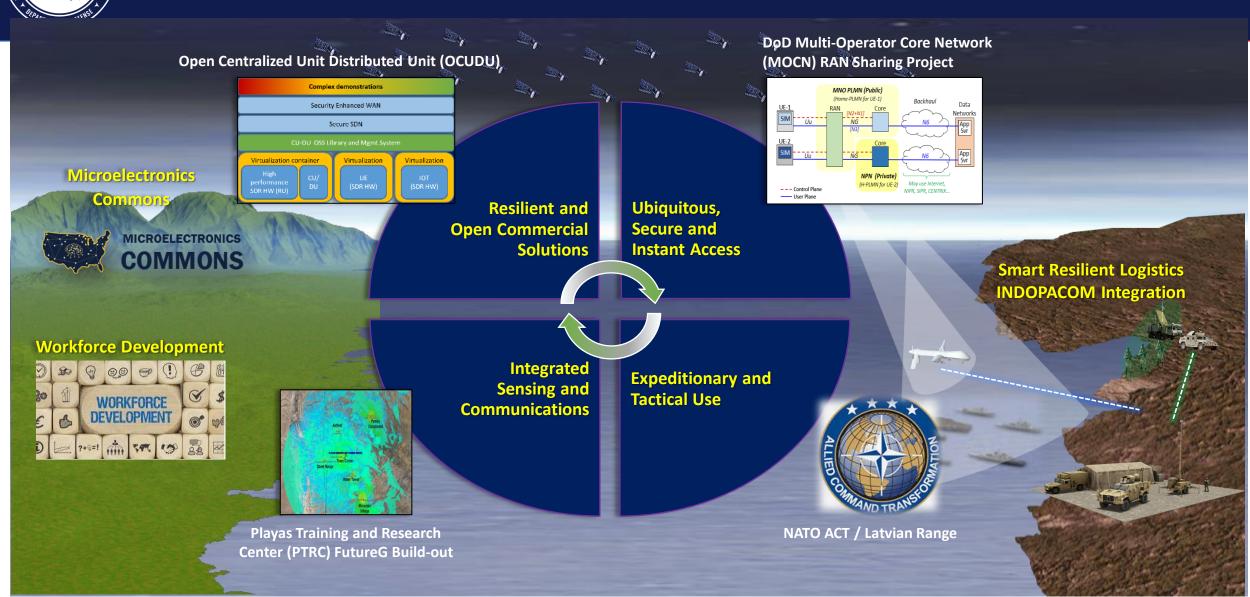
Controlled by: OUSD(R&E)
Controlled by: FutureG
CUI Categories: CTI
Distribution Statement A

POC: Thomas Rondeau, 703-695-1463





FutureG Priority Efforts for 2024





Future G and Microelectronics Commons (MEC) 5G / 6G Hub Work

Institute

- CHIPS Act supports the creation of **Microelectronics Commons**
 - Network of regional technology Hubs acting on a shared mission: to expand the nation's global leadership in microelectronics
 - 5G / 6G Technology is a major focus and is a primary technology area at 4 of the 8 Hubs.
- Future G Support to MEC
 - Leadership Guide 5G/6G topics for lab-to-fab critical technology areas
 - Applied Research Transition applied research to MEC for prototyping key hardware capabilities, e.g., OCUDU-HW
 - Transition Paths Collaborate with the MEC ensuring smooth transition of capabilities to the Warfighter



Applied Research AZ Board of Regents on behalf of Arizona State University

Southwest Advanced Prototyping (SWAP) Hub

The Board of Trustees of the Leland Stanford **Junior University**

California-Pacific-Northwest Al Hardware Hub (Northwest-Al-Hub) Massachusetts **Technology** Collaborative

Northeast Microelectronics Coalition (NEMC) Hub

Midwest Microelectronics Consortium

The Midwest Microelectronics Consortium (MMEC)

North Carolina State University

Commercial Leap Ahead for Wide-bandgap Semiconductors (CLAWS)

The Research Foundation for SUNY, acting on behalf of **SUNY Polytechnic** Institute

Northeast Regional Defense Technology Hub (NORDTECH)

University of Southern California

California Defense Ready Electronics and Microdevices Superhub (California DREAMS)



5G/6G Technology

