

THE WHOLE OF GOVERNMENT EFFORTS TO ADVANCE MICROELECTRONICS LEADERSHIP

Lisa E. Friedersdorf, PhD

Assistant Director for Microelectronics, Materials, and Critical Minerals
Office of Science and Technology Policy

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Implementation of the CHIPS Act



AUGUST 25, 2022

Executive Order on the Implementation of the CHIPS Act of 2022



BRIEFING ROOM

PRESIDENTIAL ACTIONS

By the authority vested in me as President by the Constitution and the laws of the United States of America, and in order to effectively implement the incentives for semiconductor research, development, and manufacturing provided by division A of H.R. 4346 (the “Act”), it is hereby ordered as follows:

Section 1. Background. The Act, known as the Creating Helpful Incentives to Produce Semiconductors (CHIPS) Act of 2022, will make transformative investments to restore and advance our Nation’s leadership in the research, development, and manufacturing of semiconductors. These investments will strengthen our Nation’s manufacturing and industrial base; create well-paying, high-skilled jobs in construction, manufacturing, and maintenance; catalyze regional economic development throughout the country; bolster United States technology leadership; and reduce our dependence on critical technologies from China and other vulnerable or overly concentrated foreign supply chains.



CHIPS Act Section 9906 (a)

Subcommittee on Microelectronics Leadership

(3) DUTIES. The duties of the Subcommittee are as follows:

(A) NATIONAL STRATEGY ON MICROELECTRONICS RESEARCH.

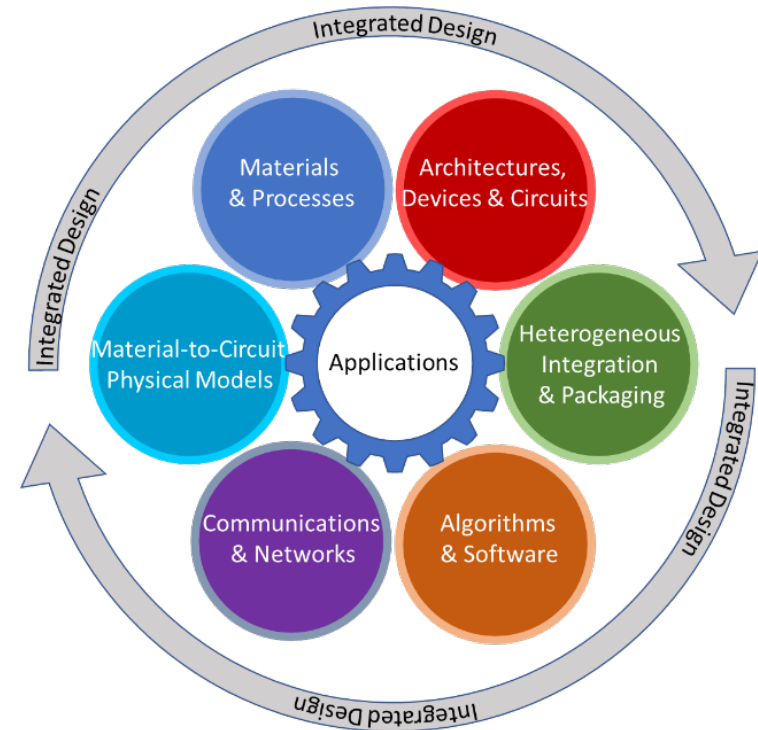
- (i) IN GENERAL. In consultation with the advisory committee established in (b), and other appropriate stakeholders in the microelectronics industry and academia, the Subcommittee shall develop a national strategy on microelectronics research, development, manufacturing, and supply chain security to—
 - (I) accelerate the domestic development and production of microelectronics and strengthen the domestic microelectronics workforce; and
 - (II) ensure that the United States is a global leader in the field of microelectronics research and development.

(B) FOSTERING COORDINATION OF RESEARCH AND DEVELOPMENT. The Subcommittee shall coordinate microelectronics related research, development, manufacturing, and supply chain security activities and budgets of Federal agencies and ensure such activities are consistent with the strategy required under subparagraph (A).



Connecting the Dots

The microelectronics R&D ecosystem includes researchers across “the stack” from academia, government, and industry, and along the entire supply chain.



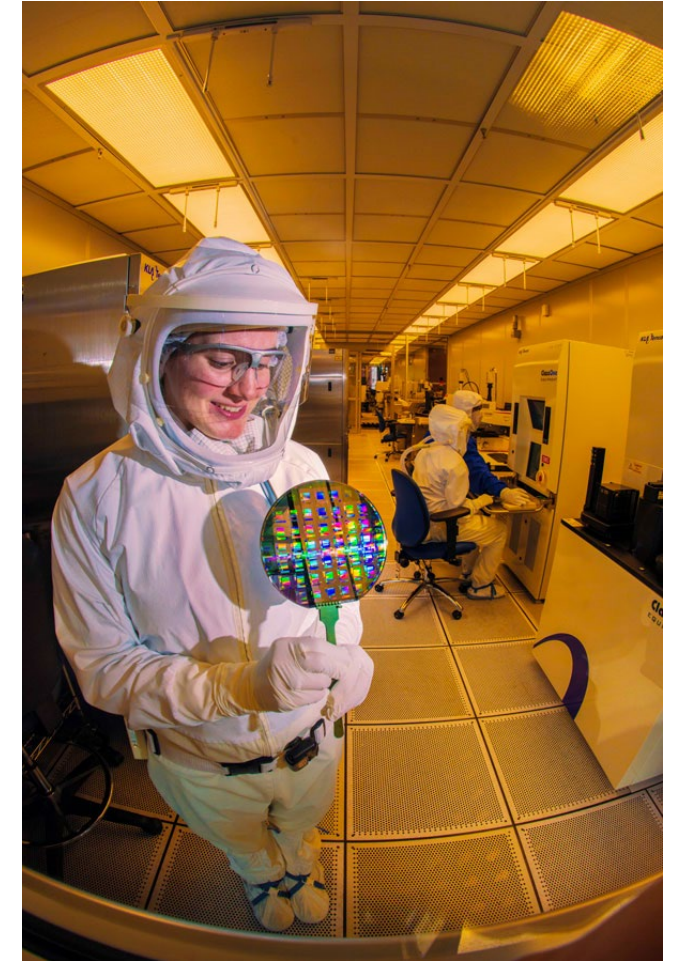
R&D Infrastructure



Images courtesy of NNCI



- User facilities for R&D
- Education & workforce development
- Lab-to-fab infrastructure required to accelerate innovation



Sandia



A large light blue oval containing the text "Microelectronics R&D Ecosystem". Inside the oval are several clusters of circles of varying sizes and colors: purple circles in the upper left, teal circles in the lower left, and blue circles in the lower right. There are also several faint, semi-transparent logos within the oval: the National Nanotechnology Coordination Office logo at the top center, the NITRD logo on the right, and the Department of Defense logo on the left.

Microelectronics R&D Ecosystem



For illustrative purposes only, not to scale.

Thank you.

Lisa E. Friedersdorf, PhD
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Office of Science and Technology Policy
Executive Office of the President

