An Update on the National Semiconductor Technology Center (NSTC)
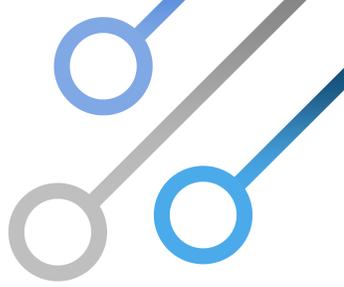
Jay Lewis, Director, CHIPS for America NSTC Program, U.S. Department of Commerce

Deirdre Hanford, CEO, Natcast

April 9, 2024

Disclaimer

- Statements and responses to questions about advanced microelectronics research and development programs in this presentation:
  - Are informational, pre-decisional, and preliminary in nature.
  - Do not constitute a commitment and are not binding on NIST or the Department of Commerce.
  - Are subject in their entirety to any final action by NIST or the Department of Commerce.
- Nothing in this presentation is intended to contradict or supersede the requirements published in any future policy documents or funding opportunities.

CHIPS for America

$39 billion
for incentives

Invest in U.S. production of strategically important semiconductor chips, and assure a sufficient, sustainable, and secure supply of older and current generation chips for national security purposes and for critical manufacturing industries.

$11 billion
for R&D

Strengthen U.S. semiconductor research and development (R&D) leadership to catalyze and capture the next set of critical technologies, applications, and industries.

$2 billion
for DoD Microelectronics Commons

A national network that will create direct pathways to commercialization for US microelectronics researchers and designers from "lab to fab."
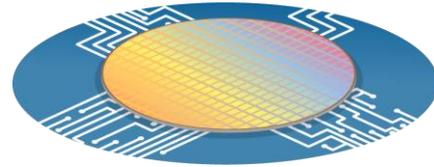
Workforce Initiatives

CHIPS R&D Programs
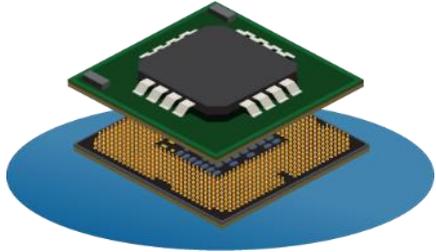
CHIPS National Semiconductor Technology Center (NSTC) Program

Natcast is an independent nonprofit organization and operator of the NSTC consortium

CHIPS National Advanced Packaging Manufacturing Program (NAPMP)
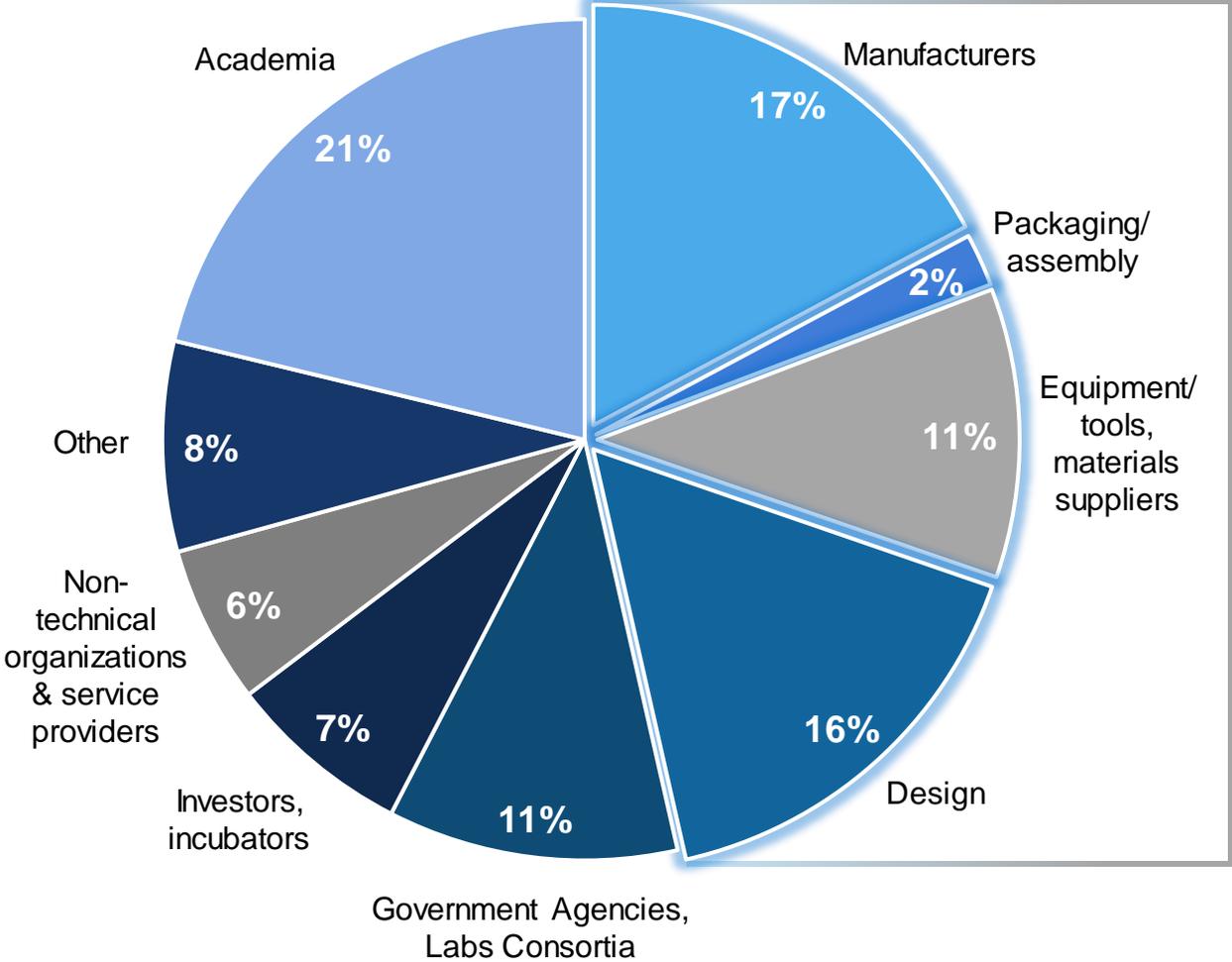
CHIPS Manufacturing USA Program

CHIPS Metrology Program

Workforce Initiatives

Community of Interest from Natcast

243 Respondents

46%

Top Ten Areas of Interest

1. Submit proposals for R&D funding
2. Participate in Industry Conferences
3. Access to prototyping facilities
4. Present technology to potential customers
5. Attend/present at symposiums/workshop
6. Submit proposals for workforce dev. programs
7. Access to Advanced Packaging & HI
8. Access to metrology research, technology & IP
9. Access to Test, measurement and Analytic tools
10. Access to EDA design tools, flows, cloud & PDKs

Pie chart segments:
- Manufacturers 17%
- Packaging/assembly 2%
- Equipment/tools, materials suppliers 11%
- Design 16%
- Government Agencies, Labs Consortia 11%
- Investors, incubators 7%
- Non-technical organizations & service providers 6%
- Other 8%
- Academia 21%

Get Engaged

- Sign up for email updates:

    - CHIPS for America: CHIPS.gov

    - Natcast: Natcast.org

- Get in contact:

    - CHIPS for America: askchips@chips.gov

    - Natcast: info@natcast.org

Thank you