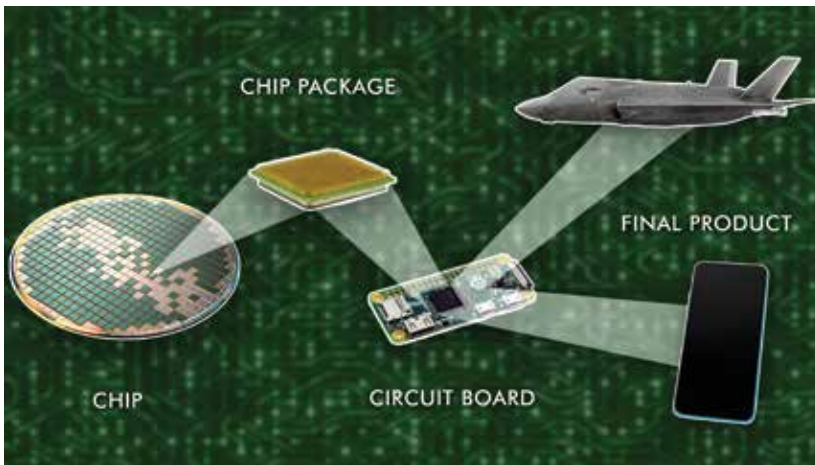


## A STRONG, RESILIENT U.S. ELECTRONICS INDUSTRY IS IN EVERYONE’S INTEREST

The U.S. Government should take a more strategic, proactive approach to the growth and resilience of its domestic electronics manufacturing ecosystem.

### Ensure Secure Access to Technology We All Rely Upon

There has been a lot of focus on U.S. semiconductor manufacturing, but not enough on the wider electronics industry. Bolstering U.S. capabilities and capacities for chip packaging, printed circuit board (PCB) fabrication, PCB assembly, and related technologies is necessary to ensure finished electronic systems can be built in the United States. Without them, U.S.-made chips will still need to be sent offshore to be made into useable systems.



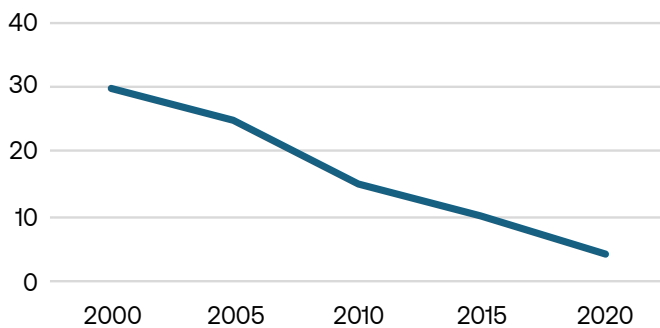
*Building advanced, electronics-laden systems requires much more than just chips.*

### A Stark Reality – The U.S. Designs Systems it Cannot Build

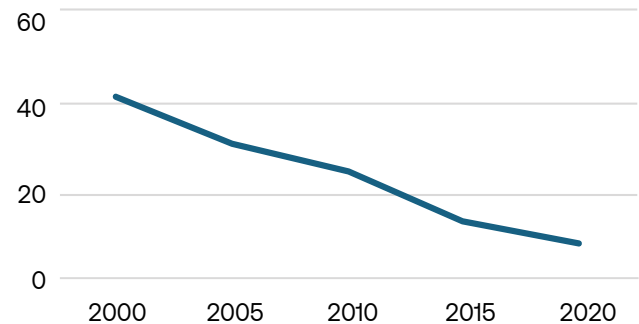
The CHIPS Act did not solve this problem. Major gaps in U.S. electronics manufacturing capabilities continue to leave America’s supply chains susceptible to disruption.

- The printed circuit board (PCB) and PCB assembly sectors are strategic and critical parts of the semiconductor and advanced packaging supply chains.
- The erosion of the U.S. electronics manufacturing ecosystem has compromised domestic capabilities to build cutting-edge technologies, making the U.S. dependent on other nations.
- The IPC Factory of the Future initiative provides a pathway for revitalization of the U.S. electronics manufacturing industry.

U.S. Percentage Share of Global PCB Production



U.S. Percentage Share of Global Electronic Assembly Production





## What the U.S. Government Must Do

- Identify electronics manufacturing as a vital economic and security priority, and pursue a strategy aimed at revitalizing all segments of the industry.
- Enact pro-manufacturing incentives like the 25% credit for sourcing U.S. made printed circuit boards in the Protecting Circuit Boards and Substrates Act.
- Ensure federal investments and incentive programs address the entire electronics supply chain.
- Enact full funding of the Defense Production Act to implement the Presidential Determination on PCBs.
- Conduct assessments of PCBs and PCBAs through the Quarterly Supply Chain Review or BIS assessment.

## U.S. Economic Impact of the Electronics Industry

### DIRECT IMPACT

- **1.3 MILLION** workers
- **\$165.7 BILLION** in labor income
- **\$307.6 BILLION (1.6%)** to GDP
- Nearly **\$710 BILLION** in output

### INDIRECT/INDUCED IMPACT

- **5.3 MILLION** workers
- **\$408 BILLION** in labor income
- **\$714 BILLION** to GDP
- **\$1.46 TRILLION** in output

State-Level Economic Value Added Impact (in billions of \$)

Region	Direct	Indirect	Induced	Total	% of State GDP (Direct)
United States	\$307.6	\$176.6	\$229.7	\$713.8	1.6%
California	\$93.4	\$32.4	\$41.7	\$167.4	3.4%
Texas	\$32.2	\$11.8	\$11.8	\$55.9	1.9%
Oregon	\$22.8	\$2.8	\$3.6	\$29.2	9.8%
Massachusetts	\$15.2	\$5.2	\$6.3	\$26.7	2.8%
New York	\$11.3	\$5.6	\$5.3	\$22.2	0.7%
North Carolina	\$12.2	\$3.3	\$3.7	\$19.1	2.2%
Minnesota	\$9.8	\$4.1	\$4.6	\$18.5	2.7%
Florida	\$8.3	\$3.6	\$4.1	\$16.0	0.9%
Pennsylvania	\$7.9	\$3.6	\$4.0	\$15.5	1.0%
Illinois	\$8.0	\$3.4	\$4.0	\$15.4	1.0%
Arizona	\$7.2	\$2.4	\$3.4	\$13.0	2.2%
Colorado	\$5.6	\$2.0	\$2.4	\$10.0	1.6%
Ohio	\$4.6	\$2.6	\$2.7	\$9.9	0.7%
Wisconsin	\$5.5	\$2.0	\$2.3	\$9.9	1.7%
Michigan	\$5.1	\$2.2	\$1.9	\$9.2	1.0%
New Jersey	\$4.9	\$1.8	\$2.1	\$8.8	0.8%

State Level Employment Impacts (in thousands of persons)

Region	Direct	Indirect	Induced	Total
United States	1,306.9	1,487.9	2,480.2	5,275.0
California	274.8	264.0	403.7	942.5
Texas	107.1	101.8	138.5	347.4
Massachusetts	56.0	40.3	65.6	162.0
New York	66.2	39.4	50.4	156.0
Florida	49.8	36.8	51.1	137.7
Minnesota	47.7	35.7	54.3	137.6
Pennsylvania	51.9	30.1	46.7	128.7
North Carolina	47.4	32.9	46.3	126.5
Illinois	49.1	27.0	43.9	120.0
Oregon	37.2	27.6	44.8	109.7
Ohio	39.5	24.9	34.0	98.5
Arizona	32.5	24.2	41.3	98.0
Wisconsin	34.2	20.5	29.5	84.1
Michigan	35.7	21.1	23.8	80.6
Colorado	22.1	18.1	27.1	67.3
New Jersey	26.6	13.3	21.9	61.8

## Government and Industry Have Documented the Crisis

- [2024 ACSCC AI Data Center](#)
- [2023 BIS Microelectronics Assessment](#)
- [2023 House Select Committee US/CCP](#)
- [2023 Presidential Determination on PCBs](#)
- [2022 Joint Commerce/DHS ICT Supply Chain Review](#)
- [2018 EO 13806 DIB Assessment](#)
- [2017 BIS Report on PCB Industry](#)
- [2005 National Academy of Sciences Report](#)

## For More Information, Contact:

**Richard Cappetto**, IPC Senior Director North American Government Relations, [RichardCappetto@ipc.org](mailto:RichardCappetto@ipc.org)  
[IPC News Center](#)