

THE CHALLENGES FACING U.S. SEMICONDUCTOR LEADERSHIP

SEMICONDUCTORS ARE CRITICAL FOR U.S. NATIONAL SECURITY & THE ECONOMY



5G



Quantum Computing



Artificial Intelligence



Autonomous Systems



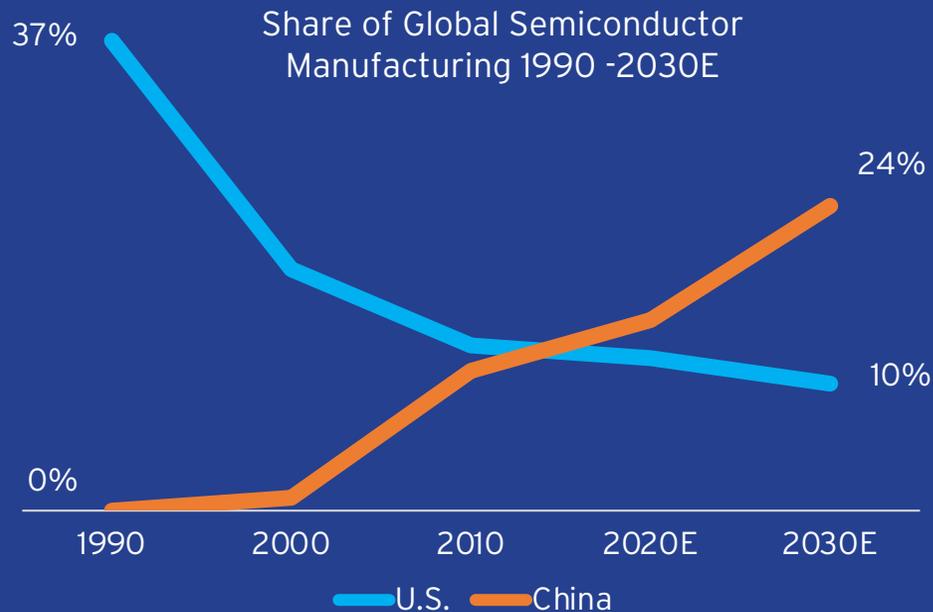
Space & Hypersonics



Cyber Security

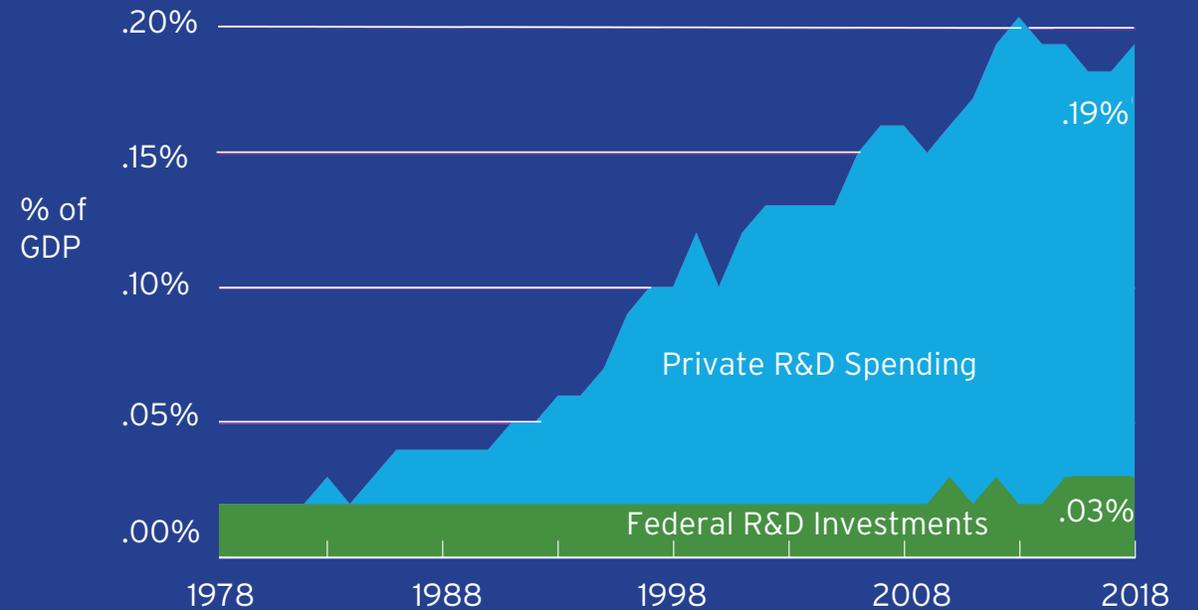
1

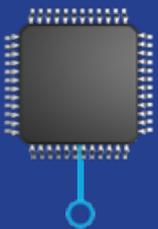
U.S. SHARE OF CHIP MANUFACTURING IS ERODING WHILE CHINA'S IS GROWING DUE TO GOVERNMENT INVESTMENT



2

FEDERAL SEMICONDUCTOR RESEARCH FUNDING NOT KEEPING PACE WITH NEEDS





BENEFITS OF SEMICONDUCTOR MANUFACTURING INCENTIVES AND RESEARCH INVESTMENTS

1

INCENTIVES WILL STRENGTHEN U.S. RESILIENCY BY ATTRACTING MORE MANUFACTURING

	\$20B program (over 10 years)	\$50B program (over 10 years)
Share of "white space" captured by US (excl. China)	21% ↑	41% ↑
US ranking among 6 global competitors (excl. China)	#2 ↑	#1 ↑
# of new fabs to be built in the US	14 ↑	19 ↑
Expected Private Sector Investment	\$174 B	\$279 B



2

INVESTMENTS IN SEMICONDUCTOR RESEARCH BENEFIT THE ECONOMY & U.S. TECH LEADERSHIP



INCREASING FEDERAL SEMICONDUCTOR RESEARCH INVESTMENTS WOULD:



ADD \$161 BILLION TO U.S. GDP



CREATE HALF A MILLION MORE JOBS



MAINTAIN U.S. TECHNOLOGY LEADERSHIP

3

CONGRESSIONAL ACTION IS NEEDED TO ENSURE CONTINUED U.S. SEMICONDUCTOR LEADERSHIP



STRONG SUPPORT FOR CONGRESSIONAL ACTION

- CHIPS for America Act (S. 3933, H.R. 7178)
- American Foundries Act (S. 4130)



LEGISLATION INCLUDES

- Manufacturing incentives
 - Grants
 - Refundable investment tax credit
- Research investments
 - Creation of a National Semiconductor Technology Center