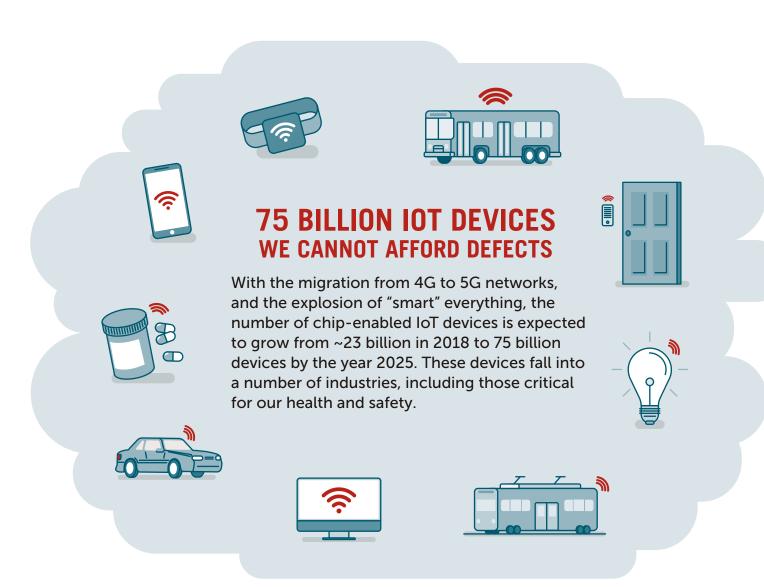
Supporting the Internet of Things: Challenges and Opportunities for Semiconductor Fabs

The growth of the Internet of Things (IoT) predicts a staggering growth in the number of chip-enabled devices, and in the amount of data that will be collected from those devices and processed in data centers. Semiconductor fabricators face a number of critical challenges from this explosive growth - especially since much more is at stake if devices fail. Fortunately, Entegris is here to help. Here's how:







Chip-enabled

medical devices and "smart" pharmaceuticals can provide real-time health data to doctors and patients

SMART HOME



Basic appliances, lighting systems, environmental controls, and security systems will have intelligence and connectivity

SMART CITY

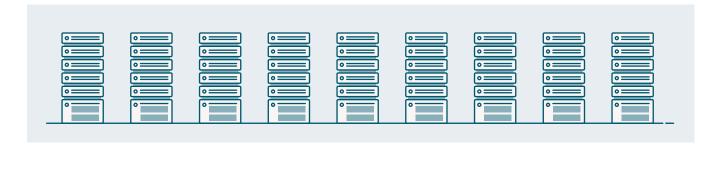


and traffic regulation can be enhanced with widespread use of sensors, cameras, and control systems

TRANSPORTATION



Cameras and sensors abound in modern vehicles and public transportation, eventually leading toward self-driving technology



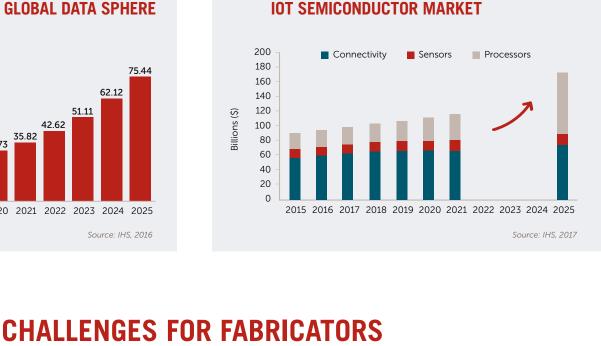
DATA CENTERS

Data centers must grow dramatically to keep up with the explosion

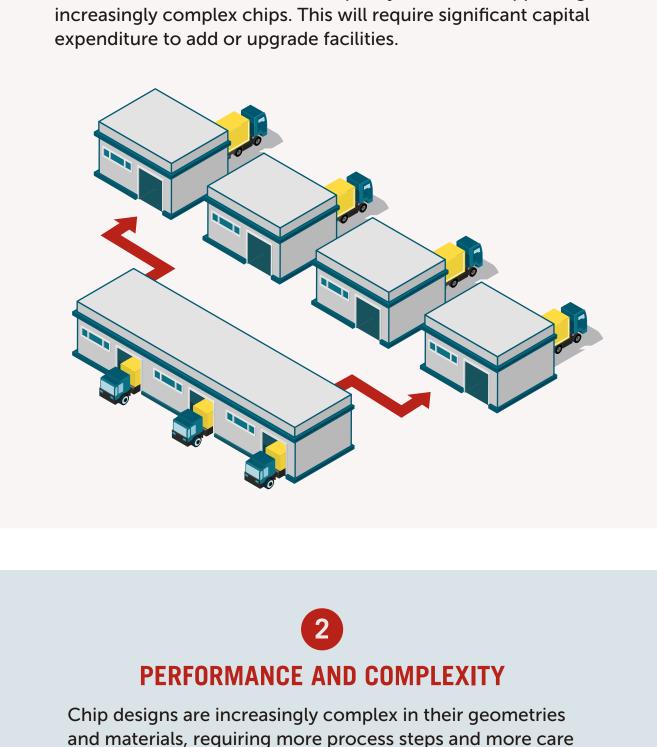
of data being collected from these devices. The global market for processors is expected to grow by roughly 350% by the year 2025.

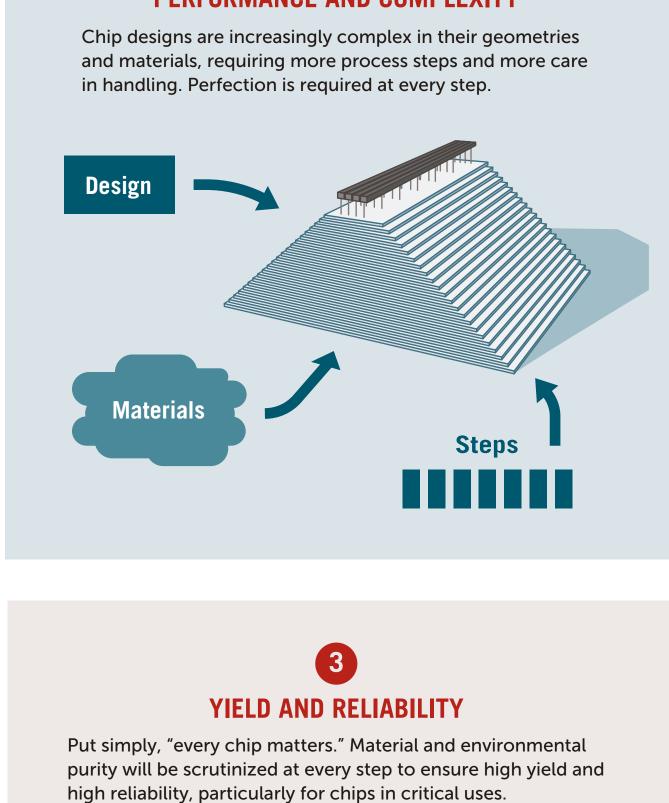


ANNUAL SIZE OF GLOBAL DATA SPHERE



CAPACITY AND COST Fabricators must increase their capacity while also supporting





Learn More

www.entegris.com/IOT