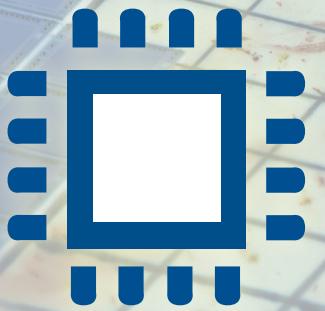


Global Semiconductor Outlook 2021



50% digital transformation
accelerated by months or years



63% increase in cloud
and/or automation



72% believe 5G will be a
significant driver of growth
within the next 2 years

Applications Driving Semiconductor Company Revenue

Industrial Equipment

Internet of Things

Personal Computers

Medical Devices

Augmented Reality/-Virtual Reality

Cloud Computing

Consumer Electronics



Artificial Intelligence/Cognitive/Deep Learning

Power Technologies

Wireless Communications
(5G Technology, Infrastructure, Smartphones)

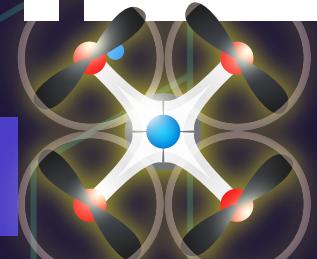
Data Centers/Storage



Security (Biometrics)

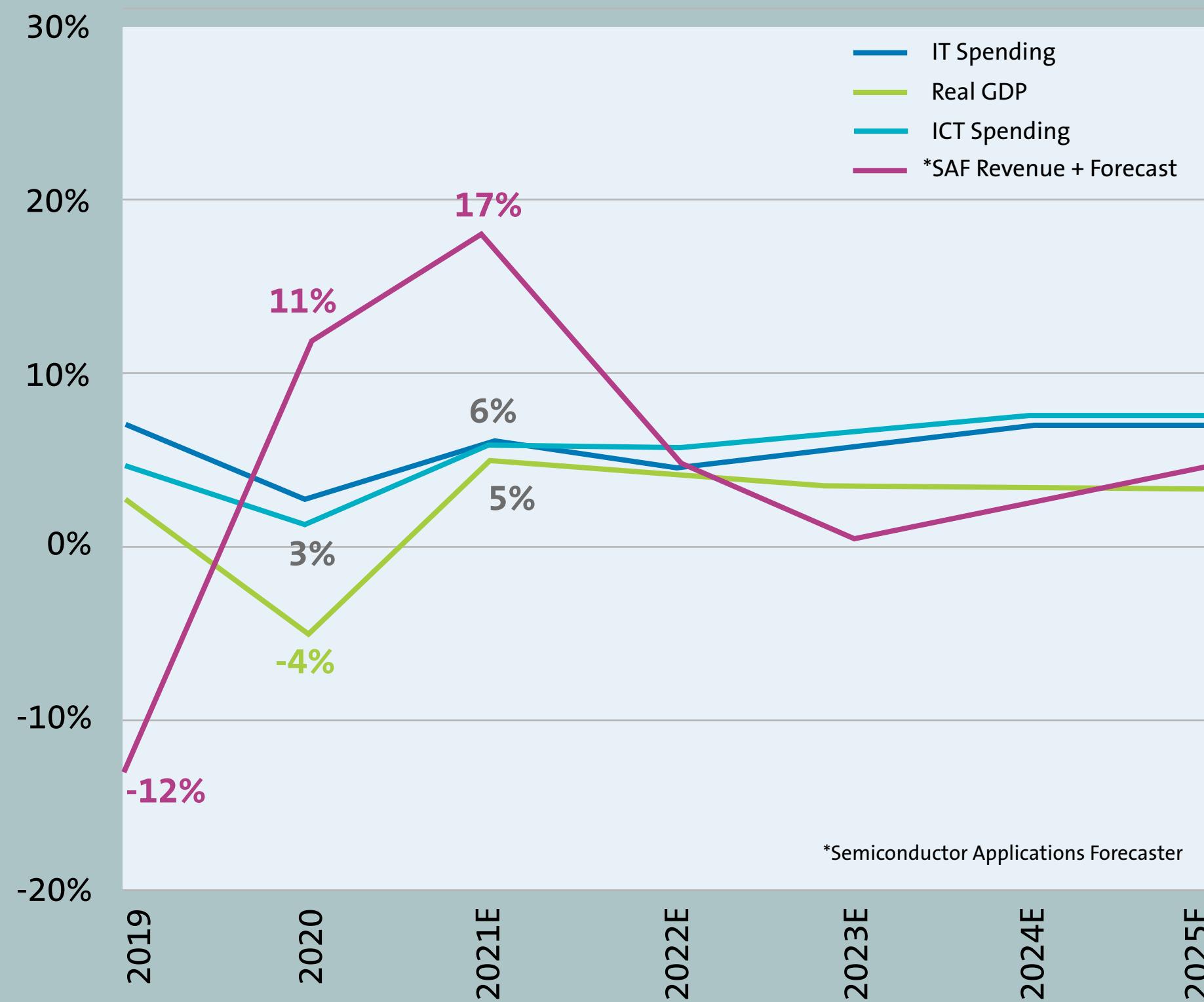
Automotive

Robotics/Drones



2021 Semiconductor Market Overview

(Global GDP vs Semiconductor Market Growth)



Current Market

- Strong global recovery
- Strong 5G mobile phone replacement cycle
- Strong rebound high-performance computing & PCs
- Strong edge device demand
- Shortages in Automotive

Semiconductor Revenue by Region

