




5G's impact and benefits for the semiconductor industry

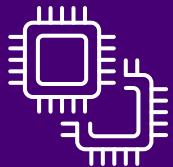
The semiconductor industry is an ever-changing cycle of design, development and manufacturing processes but applying 5G technology can make a big impact for the business, partners and ecosystem. Based on Accenture research the total amount of mobile connected devices will increase and for example, the amount of smartphones to the market is expected to double. This means a potential revenue increase for premium and basic smartphones of **up to 117% over the next 3 years**.¹

- 1 Speed 
- 2 Reliability 
- 3 Ultra-low latency 

will be the priority features for OEMs, making their end-user products more competitive for customers



RF front end development will become intricate and will force other electronic components in the design to **advance its speed, response, and efficacy**



The chip volume and RF front-end modules for mmWave and Sub 6-GHz are **expected to double** as these chips can also be used in the production equipment of the modules that they are making



The bill of materials for consumer and automated devices will increase to accommodate the supporting integrated circuits needed for 5G technology



5G can maintain strong connectivity while supporting a massive number of devices at the same time²



There will be new and more enhanced connected devices such as **smarter vehicles and more accurate medical equipment**³



A wide range of industries will benefit from the semiconductors adoption of 5G technology, businesses **can improve their factory automation and machine-to-machine connections** and will be considered 'smart' operations⁴

¹ Accenture, *Gaining the edge: Semiconductors & 5G opportunity*

² CNN, *How 5G will transform manufacturing*

³ The Washington Post, *The 5G lie: The network of the future is still slow*

⁴ USA Today, *What does 5G offer that 4G doesn't?*