#TECH: Promising outlook for 5G

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THE capabilities of 5G are starting to enable a range of applications, such as machine vision with Artificial Intelligence (AI) analysis from the cloud and real-time analysis of massive Internet of Things (IoT) connections.

According to global technology intelligence firm ABI Research, revenues for 5G private network and 5G network slicing deployments in the Asia Pacific will increase from US$732 million and US$151 million in 2022 to over US$13 billion and US$12 billion by 2028, respectively.

"5G-to-Business applications have been shown to improve productivity and reduce costs for enterprises across different verticals," said ABI Research's 5G Markets industry analyst Matthias Foo.

"Beyond that, 5G enterprise deployments were also shown to reduce power consumption by improving equipment efficiency through data analytics and workplace safety with machine vision and AI," he said.

Within the private 5G cellular space, manufacturing is projected to be the sector with the highest revenue potential for 5G-to-Business applications in the Asia-Pacific region.

Foo said key use cases utilised the capabilities of 5G to enable real-time robotic control for remote-controlled operations, autonomous vehicle operations, extended

reality technology for training and support applications, and the collection of a large amount of sensor data for developing digital twins.