

# Impact of NextGen Wireless 5G Network on Agriculture

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**Abstract:** *The advent of next-generation wireless networks, particularly 5G, presents a transformative opportunity for the agriculture sector. The potential impact of 5G technology on agricultural practices, highlighting the opportunities it brings and the challenges that must be addressed for successful integration. Smart and precision farming allows farmers to be more informed and productive. The advent of 5G will considerably change the nature of jobs in farming and agriculture. The internet of things (IoT)-based cloud computing service in the 5G network provides flexible and efficient solutions for smart farming. This will allow the automated operation of various unmanned agricultural machines for the plowing, planting, and management phases of crop farming and will ultimately achieve secure, reliable, environmentally friendly, and energy-efficient operations and enable unmanned farms.*

**Keywords:** 5G, Smart Agriculture, IOT, Monitoring, Deep learning, Cloud-edge.