

# Impact of Digital Technologies on Agriculture: An Analysis

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## ABSTRACT:

India is an agriculture based economy, where more than 50% of the population is directly dependent on agriculture for a source of income. Climate change, unpredictable weather, rainfall etc became a deterrent to guaranteed crop yield and future of agriculture is becoming extremely vulnerable. These make it difficult to plan for farmers without appropriate decision and forecasting tools. Agriculture in India is undergoing a structural change leading to a crisis situation. Consequence of agricultural crisis in India is very vast and likely to hit all the other sectors and the national economy in several ways. In specific, it has adverse effects on food supply, prices of food grains, cost of living, health and nutrition, poverty, employment, labor market, land loss from agriculture and foreign exchange earnings. In sum, it revealed that the agriculture as a whole in the affecting a majority of the people in India and the economy as a whole in the long run. In order to deal with these uncertainties that plague the agricultural ecosystem, digital technology can come up as a panacea. From satellite image to predict weather condition to mobile app to communicate with farmers, digital technology gives a new dimension to Agricultural industry.

In this paper, researcher attempts to analyse the role play by the digital technology in combating agrarian crisis through 'diffusion of innovation' theory of dominant paradigm. For this purpose the researcher has done a critical analysis of impact of digital technology on agricultural sector, with a special reference to digital agriculture.

**Key words:** Digital technology, Agricultural Crisis, Agrarian crisis, satellite image, precision agriculture, weather image, forecasting

## INTRODUCTION:

Agriculture plays a very strategic role in the economic development in