

# Smart Irrigation System with Moisture-Sensing Technology for Efficient Water Management

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**Abstract:** *This Project is proposed on precision agriculture system over the Internet of Things (IOT). Through analyzing the current development of precision agriculture in outside world and considering its advantages and shortcomings, we choose an ecology farm as an example to conduct a new precision agriculture management system (PAMS). Designing a private Internet of Things (IOT) enabled platform for the research in precision agriculture and ecological monitoring domains. As water supplies become scarce because of climatically change, there is an urgent need to irrigate more efficiently in order to optimize water use. In this context, farmers' use of a decision-support system is unavoidable. Indeed, the real-time supervision of microclimatic conditions are the only way to know the water needs of a culture. Wireless sensor networks are playing an important role with the advent of the Internet of things in the community of the farmers. It will be judicious to make supervision possible via Sensors.*

**Keywords:** Agriculture

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