

Title: Future Networks Based Sustainable Agriculture and Precision Farming

Abstract: The Universal Smart object Interaction and Imaging Satellites can transform the agriculture industry and enable farmers to contend with the enormous challenges they face. The industry must overcome increasing water shortages, limited availability of lands, fertility of lands difficult to manage cost, while meeting the increasing consumption needs of increasing population of India. New innovative devices and Imaging Satellite applications will address these issues and help in increasing the quality, quantity, sustainability and cost effectiveness of agricultural production. For example, Programmable object interfaces and devices can be leveraged to allow the farmers to evaluate the soil conditions, moisture level, livestock feed levels density and level of pest control. For example, if the level of pest control exceeds prescribed range, through sensors alarm and alerts can be generated to warn the farmers to take actions.

The purpose of “Smart Farming” is to increase the quality and quantity of agricultural production by using sensing technology to make farmers more intelligent and more connected in Indian Sub continent also across the globe.

Keywords: ICT, Sustainable Agriculture, Precision Farming, Smart Cities, Ecosystem.

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