

Precision Agriculture and IOT can help Indian farming

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India is characterized by small farms (about 1 ha size); primitive farming; dependence on rain for water and lack of farm labor when required. This has resulted in low productivity of Indian farms and with poor support price for the produce, farming has become non-remunerative.

The talk will focus on how high tech farming practices like precision and container agriculture could revolutionize Indian farming by increasing the productivity and making farming remunerative.

Small Indian farms will require small autonomous machines for precision agriculture. They could be produced locally via 3D printing and helped by IOT. IOT will also help in fabrication of machines using local renewable resources like solar, biomass and renewable liquid chemical like ethanol. Besides it will help in the communication revolution necessary for farming and 3D printing.

The talk will focus on how the high tech farming revolution in India can be achieved through the involvement of government, industry and NGO and by inspiring and utilizing very bright engineers and scientists towards this effort.