**Problem Statement**

* This project describes the method of tracking the crops and protecting the crops from the inserts and animals then it maintains the soil moisture, temperature etc.
* The traditional agriculture and allied sector cannot meet the requirements of modern Agriculture which requires high-yield, high quality and efficient output.
* Thus, it is very Important to turn towards modernization of existing methods and using the information Technology and data over a certain period to predict the best possible productivity and crop Suitable on the very particular land.
* The adoptions of access to high-speed internet, mobile devices, and reliable, low-cost Satellites (for imagery and positioning) are few key technologies characterizing the precision Agriculture trend.
* Precision agriculture is one of the most famous applications of IoT in the agricultural sector And numerous organizations are leveraging this technique around the world.
* IoT has been making deep inroads into sectors such as manufacturing, health-care and Automotive. When it comes to food production, transport and storage, it offers a breadth of Options that can improve India’s per capita food availability. Sensors that offer information On soil nutrient status, pest infestation, moisture conditions etc. which can be used to improve Crop yields over time.
* In Vidarbha region, Main Cash Crops such as Pigeon Pea, Green Gram, Black Gram, Jowar, Cotton, Soybean etc. present and are Badly affected by wild animals like Deer, Rohi (Neel Gai), wild Pigs,Peacock etc. In few districts in Vidarbha crop loss is more than 35%. Main Wild animals attacking crops in region are Akola, Buldhana Washim etc.

**Use Cases**

* Develop smart & affordable solution to protect crops from wild Animals (Technology Bucket: IoT, UAV, AI, GPS etc.)
* With the help of remote sensing technologies develop crop protection Solution from wild animal attacks. Provide alerts on any crop damage In case animals destroy crops.