PROBLEM SOLUTION

**Unable to detect the presence of nutrients and moisture content** **of the soil**: The farmer cannot detect the presence and absence of all nutrients as well as the water content of the soil and this is resulting in over watering of plants or under watering of plants resulting in decrease in yield of the plants.

what does the problem affect?

The problem is making the farmer to fertilize the crops without knowing the nutrient content of the soil and this increases the chemical content of the soil to increase and the yield we enjoy from that soil is not good for human health.The overwatering of crops without knowing the water content of the soil is resulting in wastage of water and affects the growth of the plant.

what are the boundaries of the problem?

The increase in chemical content of the soil results in soil acidification and soil crust and thereby reducing the content of organic matter,humus content,beneficial species,stunting plant growth,altering the PH of the soil,growing pests etc.

Over irrigation results in depletion of underground water table and disturbs the oxygen balance of the root zone,drowns roots,reduces plant water uptake and thus stresses plants.

Under irrrigation results in slow growth and decreased yield and this results in loss to the farmer.

what is the issue?

The over fertilizing of crops with chemicals has affected the life of humans and well as the biodiversity due to fertilizers that run off during rainfall.

What is the issue occurring?

Since july,over 1000 farmers of Yavatmal in east Maharastra have suffered from a toxic chemical exposure after spraying pesticides on the cotton crop.There have been fatalities too,with 23 farmers succumbing to "toxic pesticides" so far.

Why is it important that we fix problem?

It is important to fix this problem because the farmer cannot always monitor or detect the presence of water,moisture and nutrient content of the soil and the presence of chemicals in fertilizers is leading to the loss of life of humans due to its toxic nature as well as polluting the surrounding environment.