

What is the problem ?

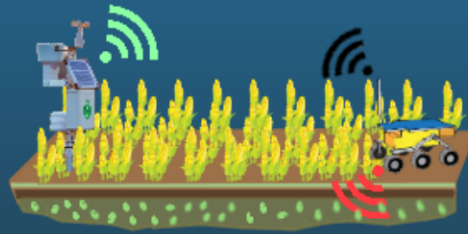
- Farmers have **no easy way to monitor** fertilizer amount
- **High cost** for management of crop health
- **Inefficient use** of agrochemicals
- **Lack of exposure** to modern technology

Our Solution Biodegradable sensors, Land robots and Weather station

The system is devised from 3 components, all of which interact with each other to collect valuable data from the land:

Biodegradable Seed Sensors

- SEED sensor is battery-less, biodegradable sensor that can measure soil health
- Based on an ISFET, ion selective field effect transistor which measures ion concentration in the soil, thus can detect certain metals
- Information can be read wirelessly in real time using a device on an agricultural vehicle



Land Robots

- Autonomous vehicles roam the land to collect data from the seeds by transmitting a signal that temporarily energizes the seeds.
- Robots then daisy chain the information using Bluetooth to nearby robots in order to reach the central hub of the data, weather stations

Weather Station

- Weather stations not only boast more useful sensors such as soil, temperature and humidity but also are capable of sending the information to the internet for processing.
- Can act as a charging station for the robots with an equipped battery and solar panel for prolonged life

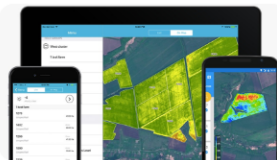
Data Analytics & Seedflix Subscription

How does the farmer benefit ?

Put simply, we provide the means and the appropriate versatile technology to collect crucial data from the farming land. Then, the data is analyzed to provide a **vegetation map, soil and crop health status, precise weather information** and much more.

Such key information are displayed on an application to support:

- **Remote monitoring of agricultural land**
- **Efficient planning of resources such as when and in which parts of the land to utilize agrochemicals.**



Example from Cropio software

How does one get started ?

Our solution is a subscription based service, and thus the customer does not own any of the machines. In effect, this helps keep upfront costs low which is more attractive.

Similar to Netflix, there will be basic monthly subscription to more premium offers; basic service will monitor essential variables such as soil and crop health while the more premium options will simply offer more variables to monitor if need be.

