



AGRICULTURE INNOVATION



GROW
MORE,
BETTER &
FASTER,
WITH
LESS

REAL-TIME ROOT RESPONSE

When growing crops, fertigation (the injection of fertilizers, water amendments and other water-soluble products into an irrigation system) will ensure that the full potential of the plants is realized.

CURRENT IRRIGATION METHODS

Use tables and formulas for calculating evaporation by measuring and calculating water loss. However, this widely used measuring method is unable to calculate all parameters accurately and timely.

THE REASON IS OBVIOUS

Without the ability to sense and manage accurate irrigation regarding timing and the exact quantity of water needed, plants will not reach their full potential.



—
WE
KNOW
HOW
—

OUR SOLUTION

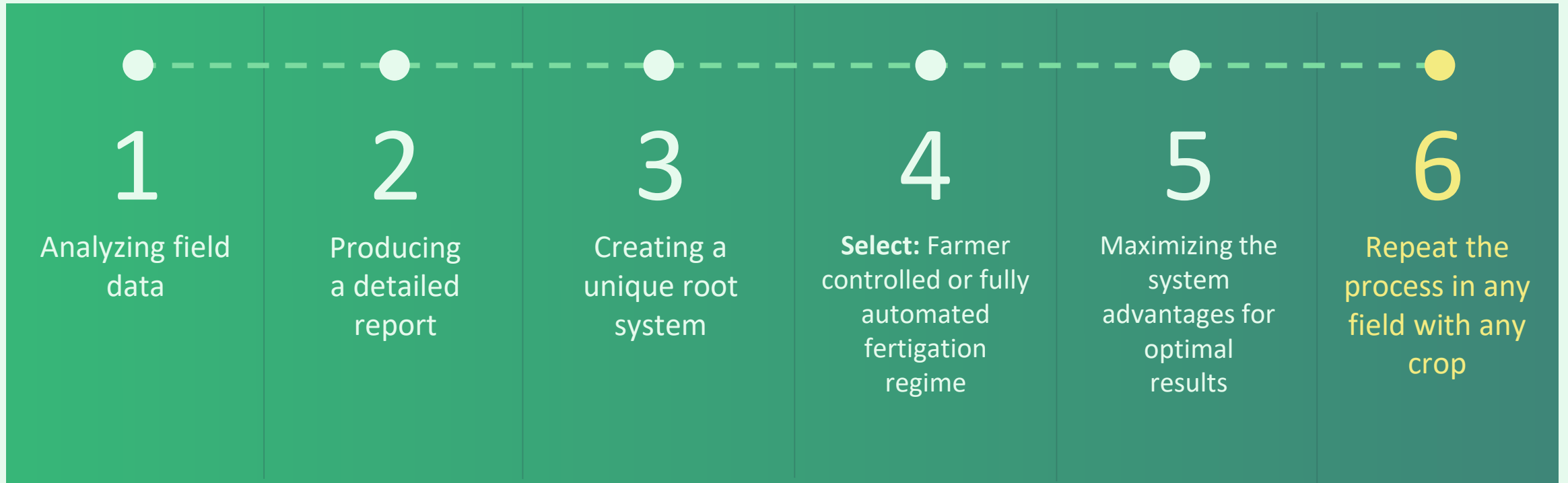
Real-time Roots Response- solution for accurate, precise, on time and balanced fertigation management.

This unique method utilizes the plant itself as a "super sensor" by monitoring the plant's physiological activity day and night and reacts in real time to the changes and/or needs in the plant's physiological cycle.

OUR SOLUTION

As a Real-time Root Response, the site's weather and temperature changes as well as the type of soil are also taken into account.

HOW IT WORKS?



THE FARM, MID MAY 2018



OUR SOLUTION



Sensors



Fertilizers



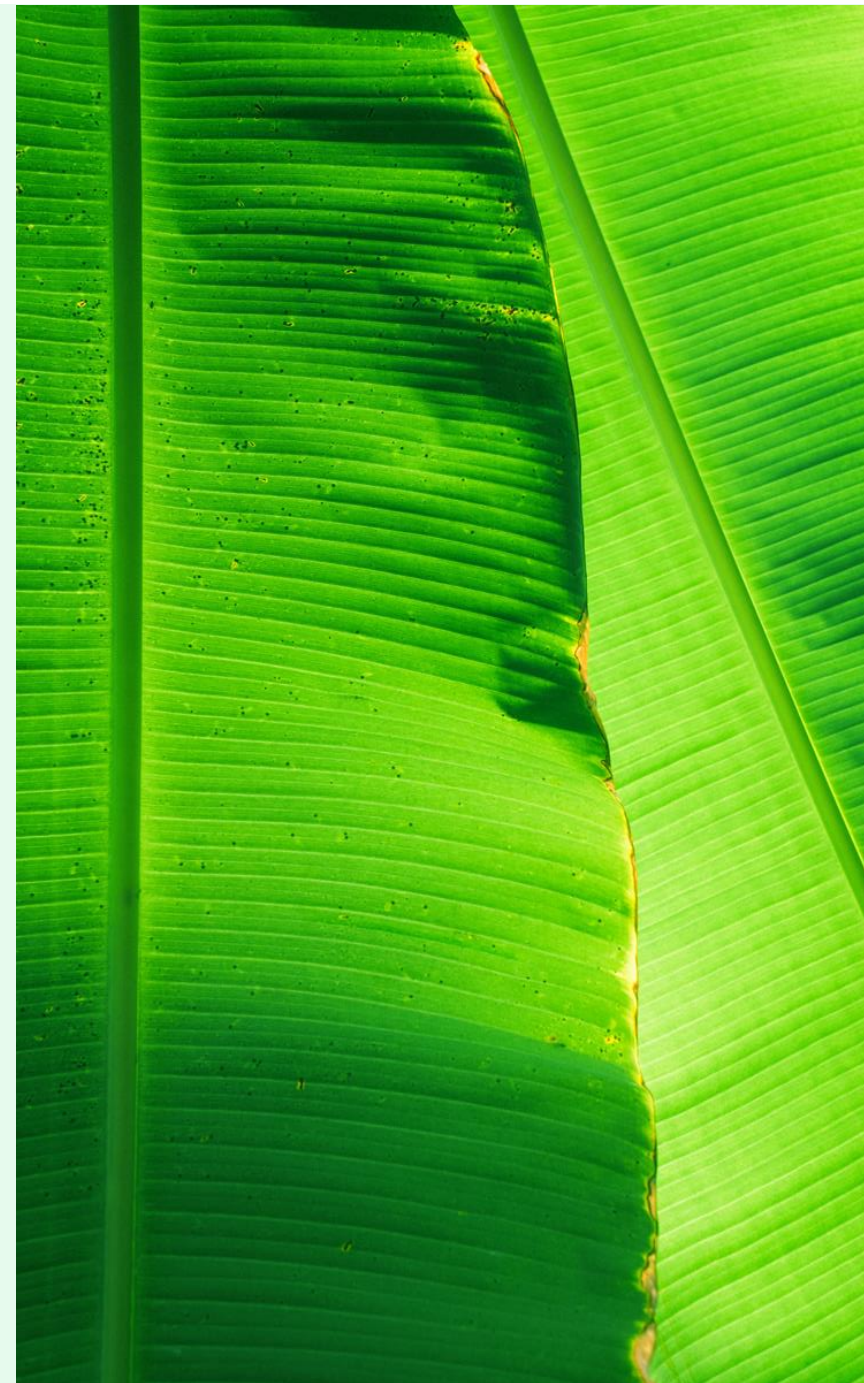
COMPUTERIZED IRRIGATION SYSTEMS



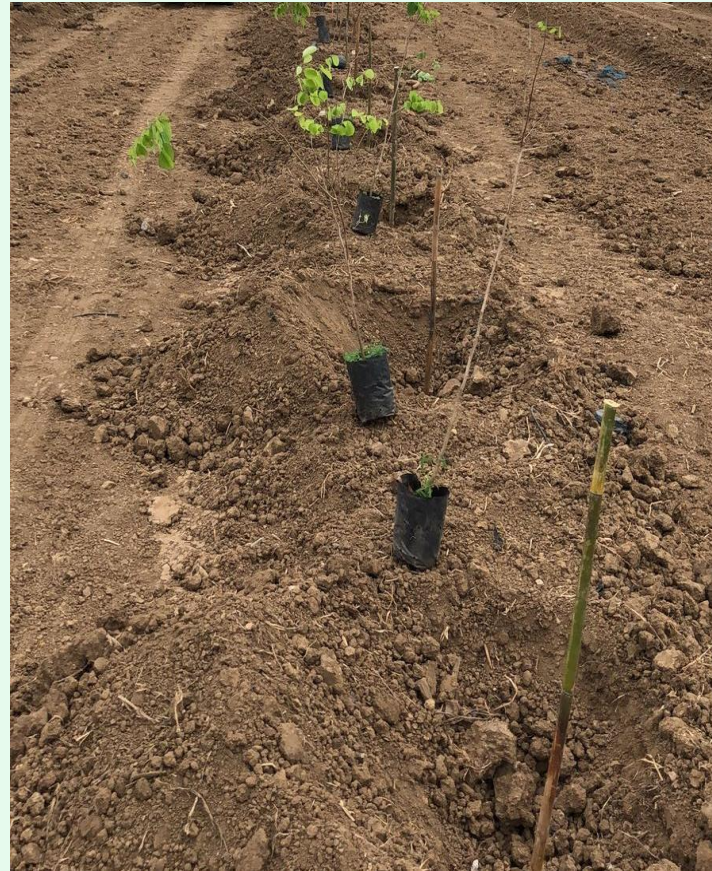
THE FARM, END OF MAY 2018



THE NURSERY, JUNE 2018



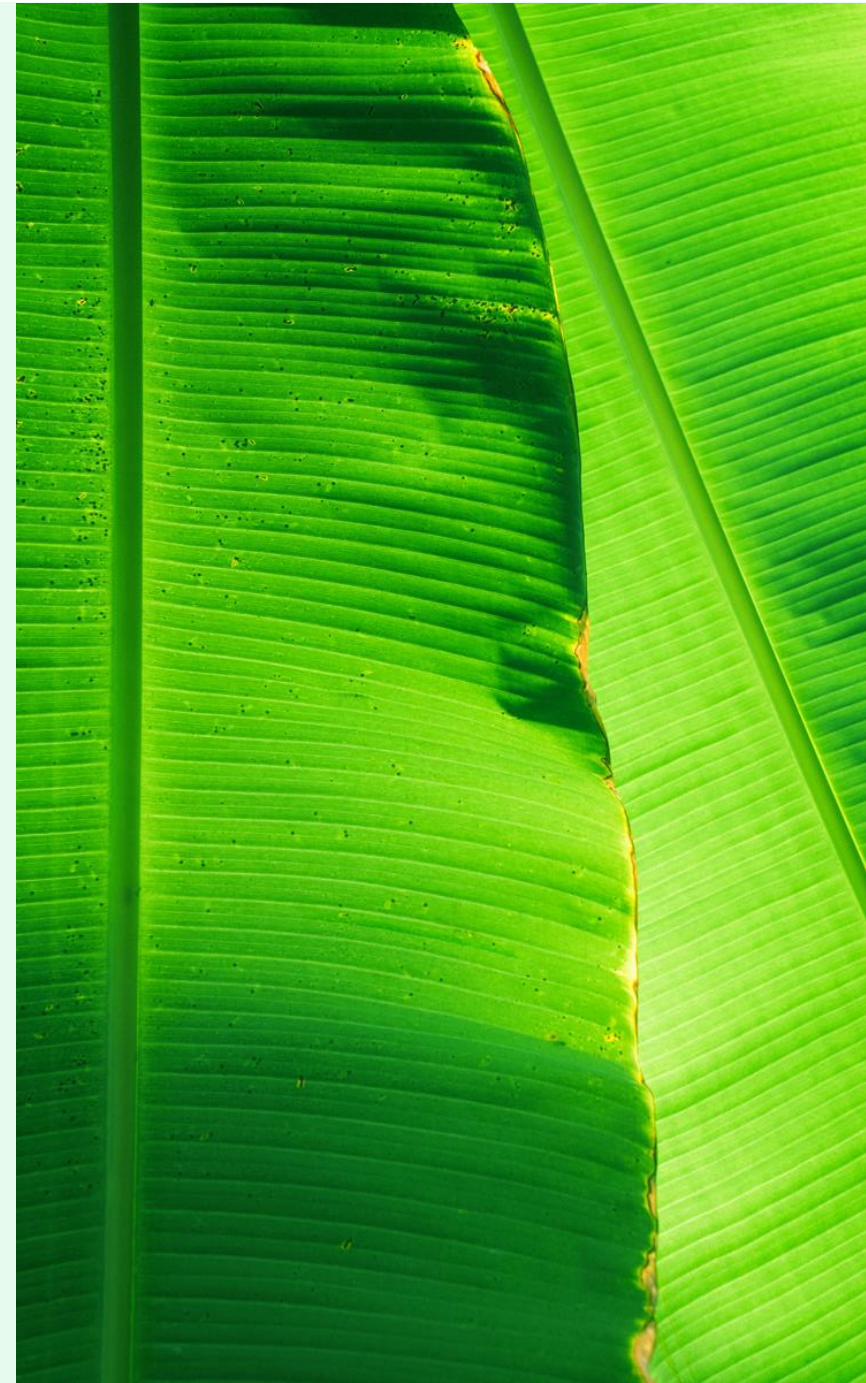
PLANTING PREPARATIONS, JUNE 2018



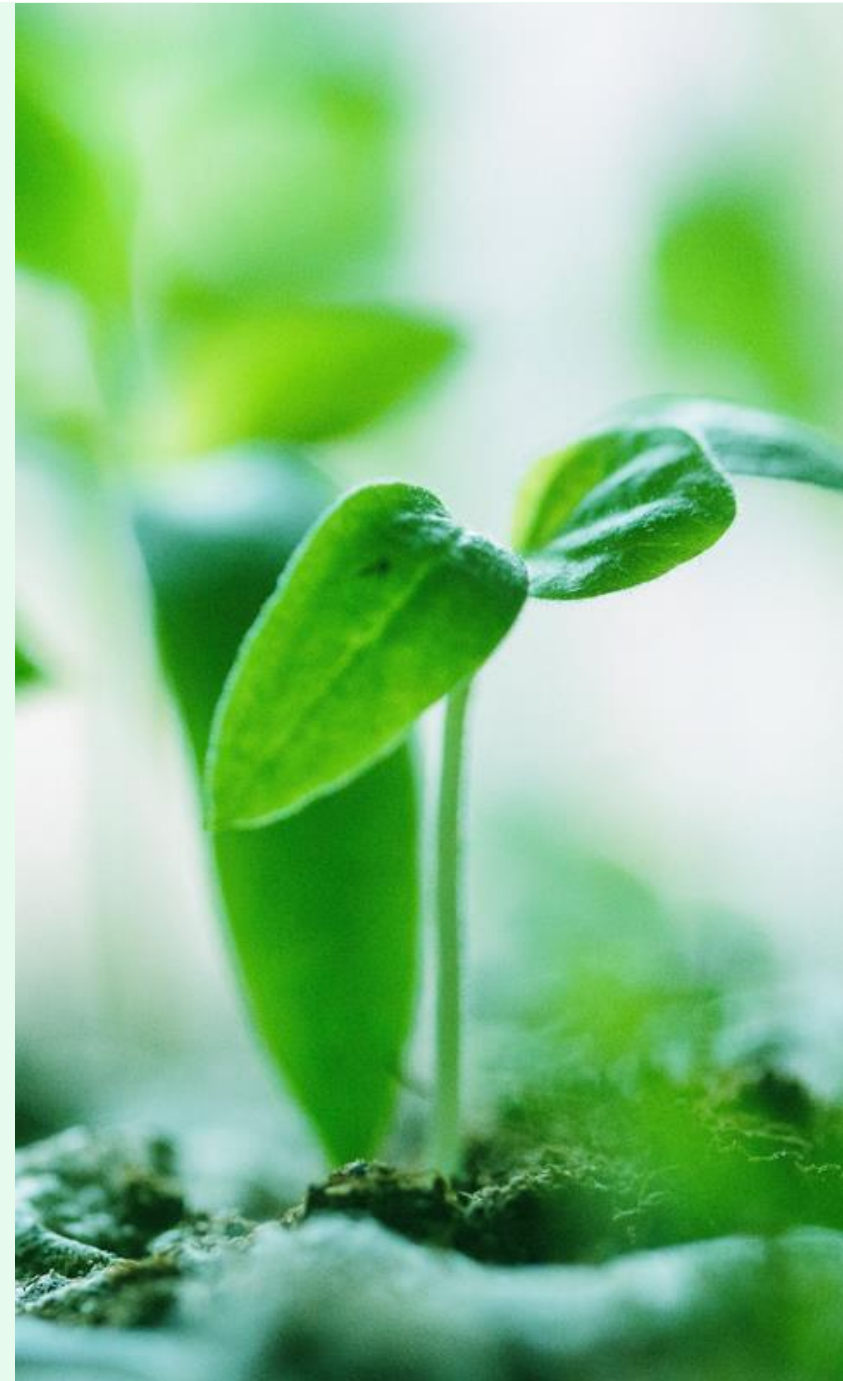
PLANTING, JUNE-JULY-AUGUST 2018



THE FARM, JULY 2018



THE FARM, OCTOBER 2018



THE CROPS, OCTOBER 2018



Cocoa



Melon



Corn

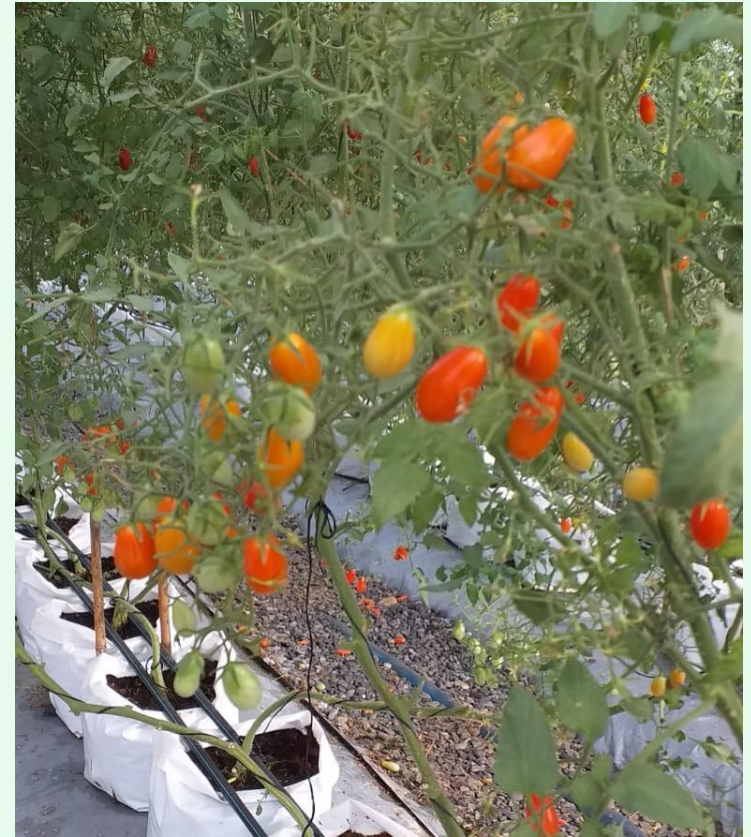
THE CROPS, OCTOBER 2018



Banana



Durian



Cherry Tomato

THE CROPS, NOVEMBER 2018



Pepper



Coffee



Cucumber

THE HARVESTED CROPS, 17 DECEMBER 2018



Pepper



Cherry Tomato



Cucumber

THE STATUS, JANUARY 2019



MELON



BANANA



COFFEE

THE STATUS, MARCH 2019



MELON



BANANA



COFFEE

THE STATUS, MARCH 2019



2 WEEKS
CORN



5 MONTHS
FAYONG



BANANA

THE STATUS, MARCH 2019



1 MONTH
TOMATO



FINGER LIME

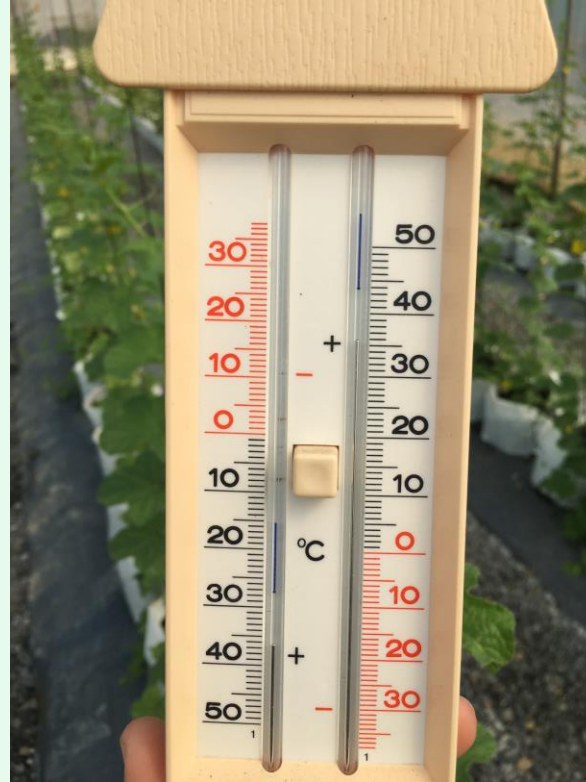


DURIAN

THE STATUS, MARCH 2019



CACAO



TEMPERATURE
ABOVE 40c



BANANA

FUNDAMENTAL FERTIGATION ELEMENTS THAT THE SOLUTION ADDRESSES:

- When to irrigate
- How much to irrigate
- When to fertilize
- How much and to fertilize
- Determining the correct fertilizer composition
- **Utilizing almost all type of soil all year around**

THE BENEFITS

1

Highly efficient and reliable fertigation method with unparalleled precision based on measured data.

2

Each plant gets the ideal growing conditions in a small and confined controlled space within the greater growing area.

3

Farmers can grow different crops in one plot.

THE BENEFITS

- 4 Shorter time to harvest, best return per square meter
- 5 Continues monitoring the health and condition of the crop.
- 6 Highly effective use of fertilizer, water, etc.
- 7 Only a limited number of sensors are needed.

GROW MORE WITH LESS

Our solution is currently deployed in a large number of ongoing projects which grow many different crops at a wide range of sites around the world. These projects have shown to regularly produce better quality crops that have a much higher crop yield while achieving significant savings in water and fertilizer usage.

FUTURE AGRINNO- VATIONS

LTI turnkey projects utilize several advanced technologies including a breeding system for efficient selection of high performance abiotic stress tolerant roots for increasing yield while preserving the crop quality, an enhanced 'green' pest control that can replace the need for spraying, and an integrated pest management, natural pollination and medfly control system.



THANK YOU.