

SMART FARMING at every grower's fingertips



treetoscope



POWERED BY



IRRIGATION IS THE MOST CRUCIAL FACTOR IN
FARMING

How do you know when and how much to irrigate?



Water Waste



Yield Reduction



Energy Waste



Fertilizer Overuse



Profit Loss

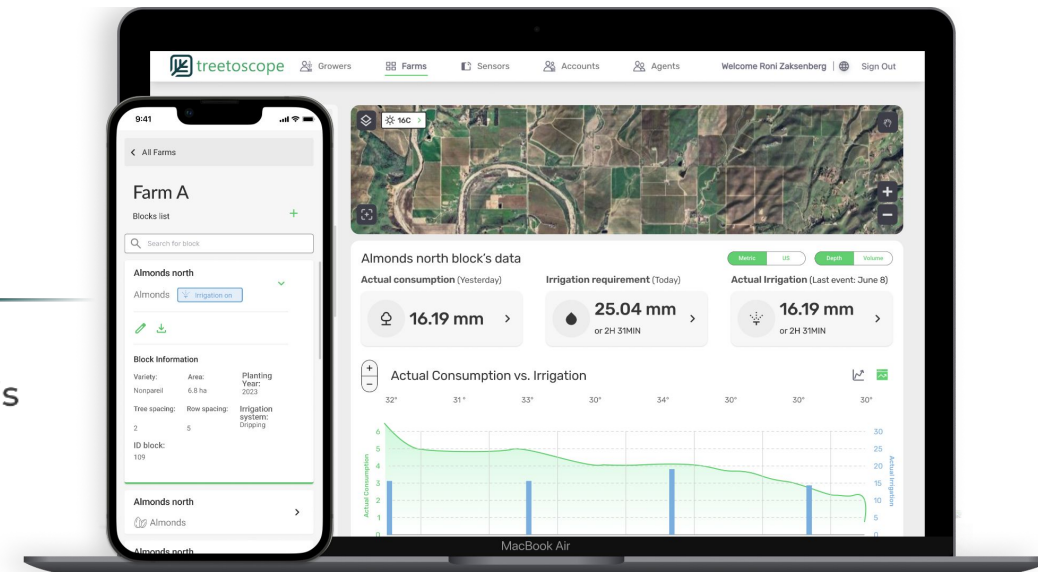
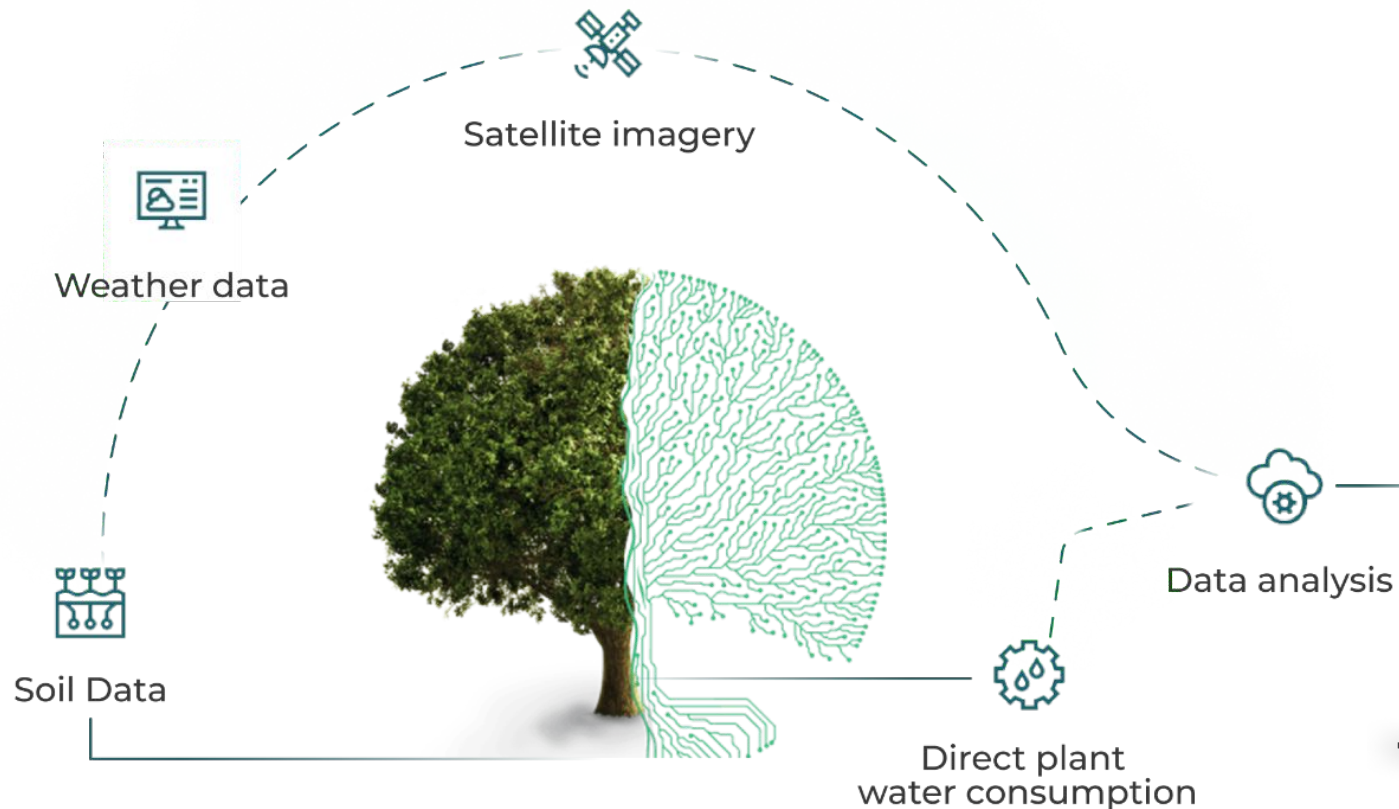


Environmental Cost

Our Solution

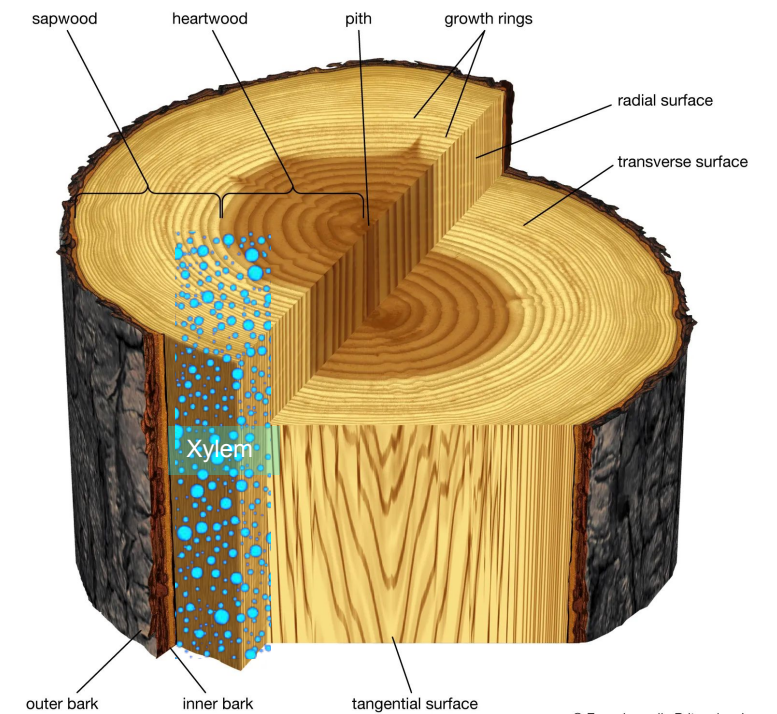
SapSense

First of its kind, Direct Plant Sensing Technology offering unparalleled accuracy, simplicity and reliability in measuring actual tree water consumption



Where we Measure

The rate of sap (or water) moves from the roots through the trunk and exits through the leaves which we know as **transpiration and photosynthesis**.



The direct sensing of sap movement within the Xylem provides critical insight into **water use dynamics** and hence can serve as a key indicator of **crop water stress**.

How we Measure



The single probe sensor is designed to generate heat slightly above the tree's ambient temperature, allowing us to measure the energy flow within the xylem. This energy correlates with the tree's transpiration rate, indicating how much water the tree is using.



The sensor takes measurements every hour, collecting continuous data points throughout the day.



The Hardware



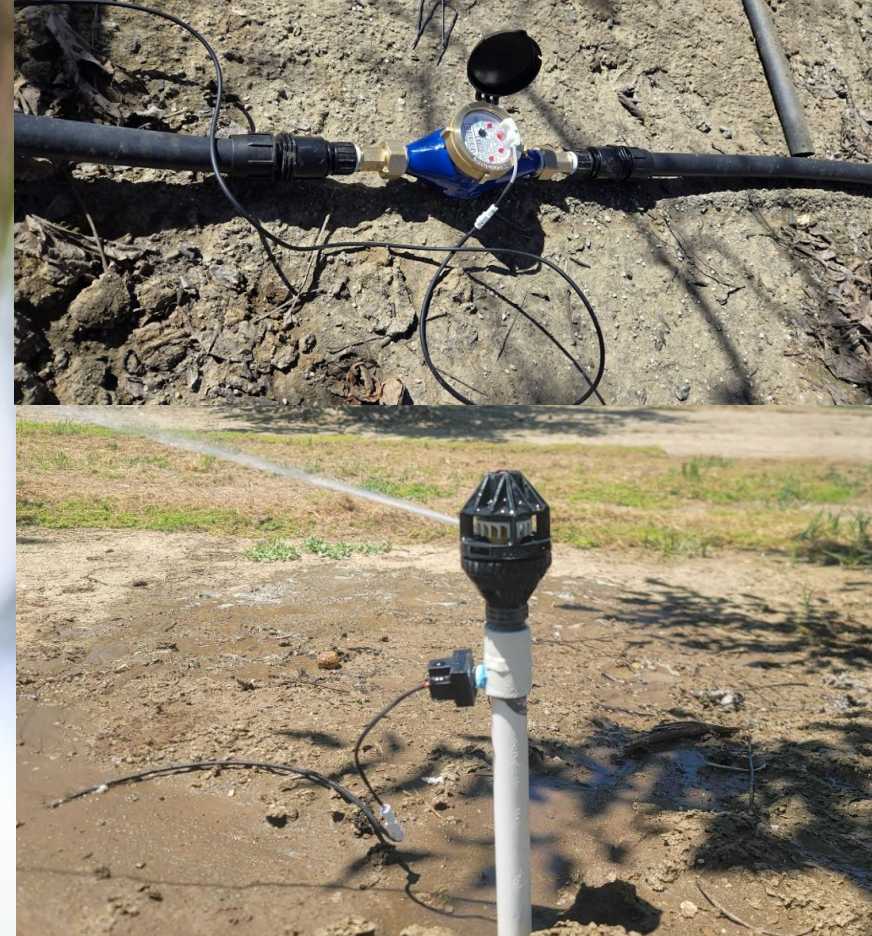
Communication Box

- Water Resistant (IP65)
- 2 Year Battery Life
- LTE-M Cellular Comm. Chip
- Size: 6.5 x 3 x 2
- *Harvest Friendly!*



Sensor

- Patented, Single Prob Sensor
- 1 Inch
- 2 Week Plant Binding Process
- *No Calibration through the Growing Season!*

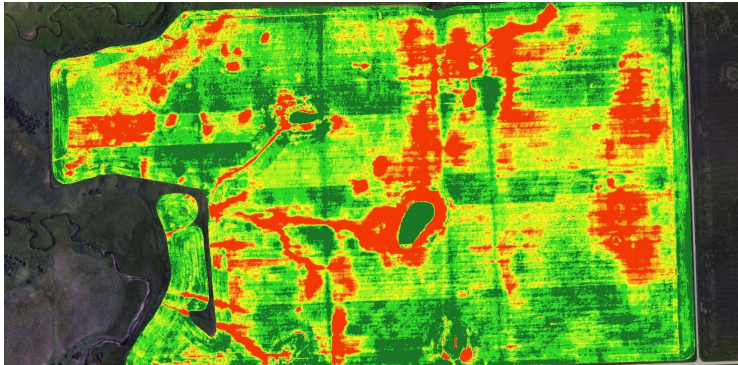


In-line Flow Sensor or Pressure Switch

-

To Get Started

1



NDVI

- Once your blocks are mapped in our dashboard, we use NDVI analysis to identify optimal installation areas that provide the most accurate representation of your field.

2



Sensor Site Analysis

- A Sensor Site Analysis Map is generated in Google Maps to guide precise installation.
- 3 Sensors per irrigation zone

3

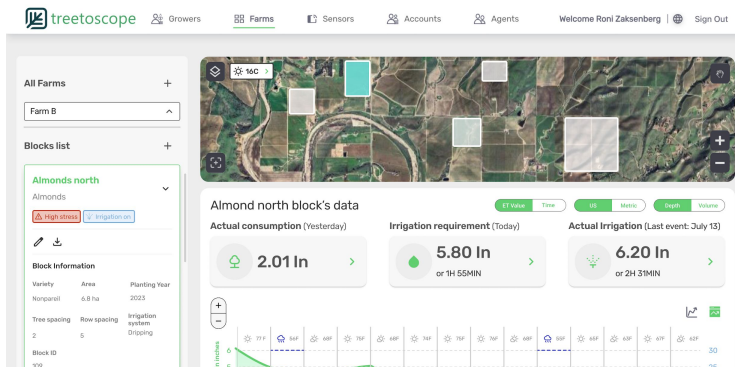


Installation

- Installation usually takes 10 minutes per tree to install, longer if weaker signal.
- Data will be available to Grower 2 weeks after installation.

To Get Started

4



Dashboard Training

- Receive Dashboard Training the first week your data is live

5

Last Week 02/09/2024 - 08/09/2024

Date	Actual consumption	Rain	ETO	Max Temp
02/09	1.39mm	0.00mm	4.76mm	31°C
03/09	1.27mm	0.00mm	3.51mm	29°C
04/09	1.65mm	0.00mm	4.97mm	30°C
05/09	1.79mm	0.00mm	3.56mm	26°C
06/09	1.89mm	0.06mm	2.57mm	23°C
07/09	1.75mm	0.00mm	3.30mm	26°C
08/09	2.12mm	0.00mm	4.99mm	27°C

Total consumption last week 11.87mm

Automated Reports

- Weekly Reports summarizing both past actual water consumption and future irrigation recommendations

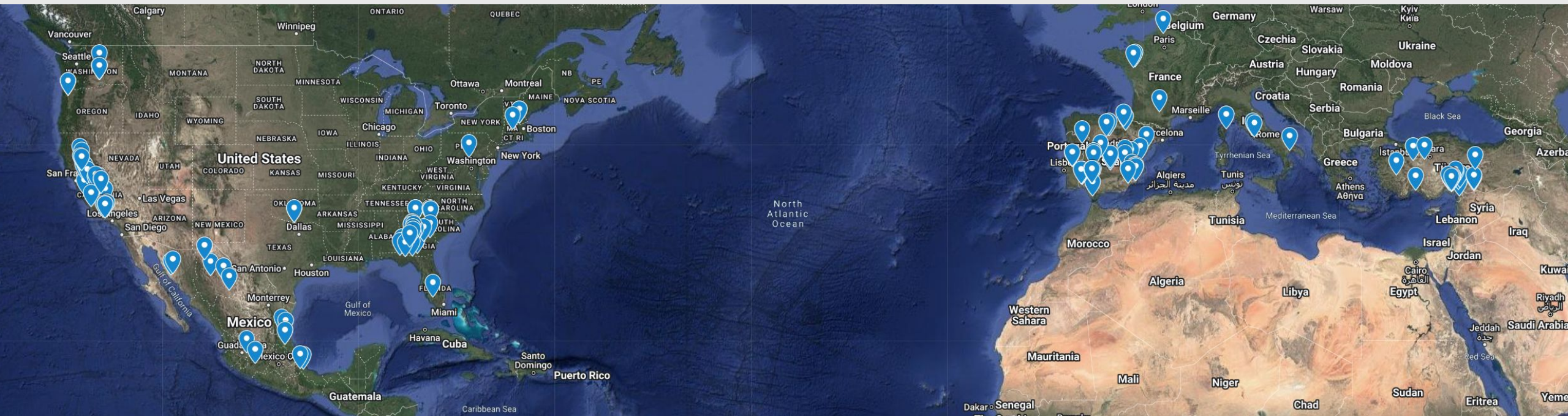
6



Bi-Annual Meetings

- Two annual in-person meetings with our team to review season performance, discuss key trends, and provide actionable insights.

Global Strategic Partners & Worldwide Presence



Global Strategic Distributors



Global Strategic Partners



Strategic Customer
World's Largest Kiwi
Grower



Strategic Customer
Citrus grower, CA



Strategic Customer
Winer producer,
Portugal



Strategic Partner
Irrigation, NA



Strategic Distributor
U.S Largest Almonds
Cooperative



Strategic Customer
France Largest Apples
Cooperative

Our story in figures

+180 | No. of Customers

+1,900 | No. of Devices Installed

+4 | Markets
Main - US, Mexico, Spain, Turkey
In addition - France, Italy, Israel

User-Friendly Dashboard

