

SAME FIELD, MORE & BETTER YIELD

Less water and Zero Fertilizer achieved!



Better Fruits.....

Additional new branches.....

More effective leaves.....

THE PROOF IS IN THE PLANT

Natural microbiome creates dense lateral root feeders.....



PARTNERS

FARMERS, GOVERNMENTS, FOOD SECURITY AND SUVEREIGNITY AGENCIES

The world will need to feed 9.7 billion people by 2050. Boosting agricultural productivity is essential to food security for a growing population in which one in seven people goes hungry.

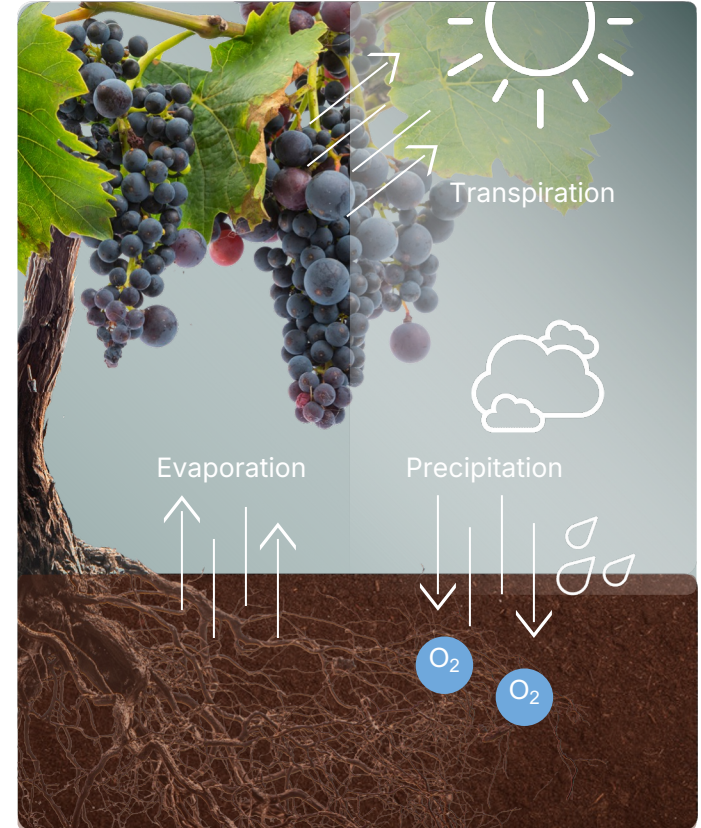


The change of climate, water scarcity and pollution need to be addressed- NOW!



Conventional irrigation

- Amount of water based on measuring evaporation from the soil and transpiration from the plant (ET)
- Reliance on static and hydraulic calculation
- Assumptions – the return of water and nutrient loss to the soil, a bulbous (Onion) phenomenon occurs- leaching process
- No factoring in of irrigation method
- Increased soil salinity and degradation



Blueberries (Agrinoze)



February 2021

Blueberries (Control)



February 2021

Observations (7 months)

- Dense feeders root hairs in the top layer of soil as a result of horizontal irrigation
- Numerous new branches in Agrinoze bushes
- Increased root effectiveness
- Improved soil and root health

Water-By-Demand™ - Day



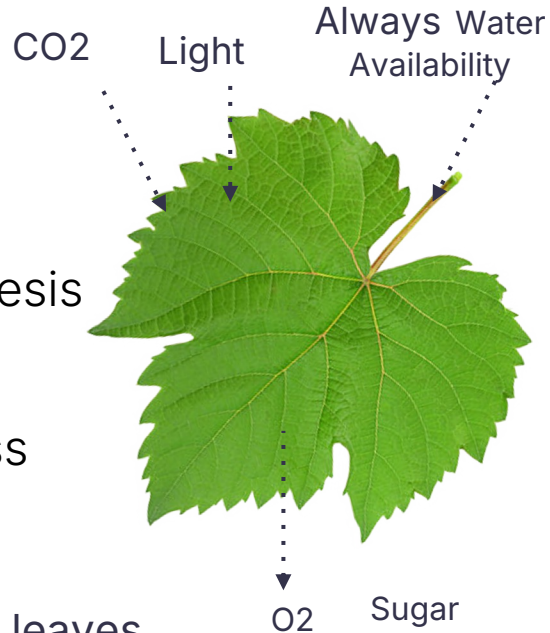
Improve Genetic Potential



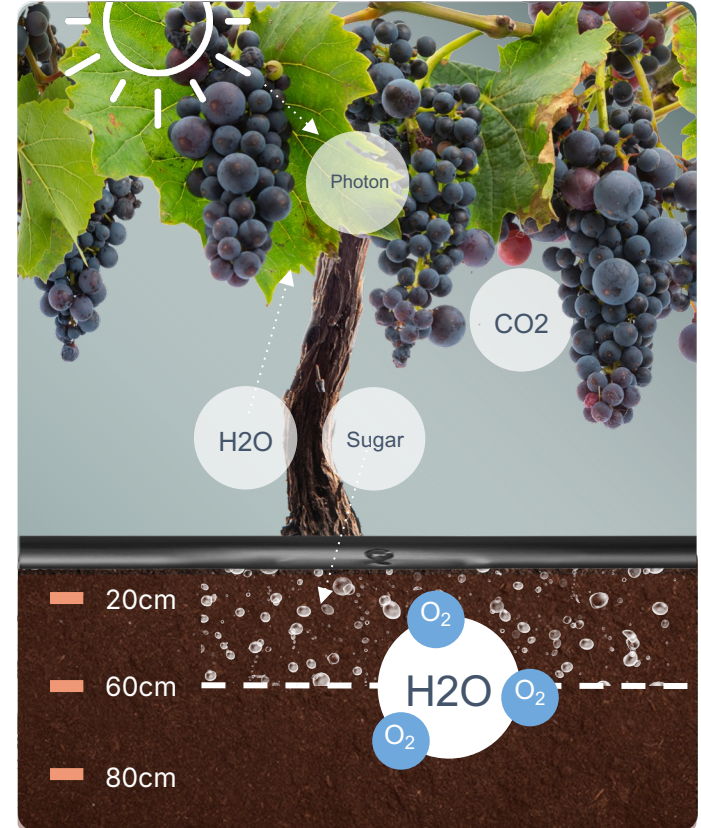
Better photosynthesis



Avoid plant stress



Sugar Production in the leaves



Water-By-Demand™- Night



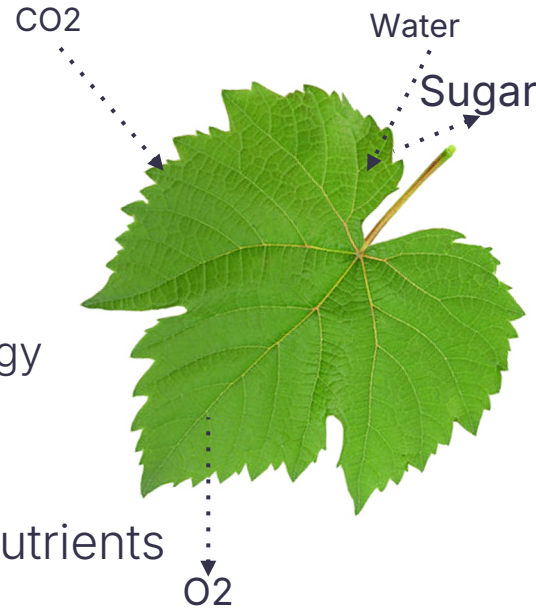
Improve Organics processes



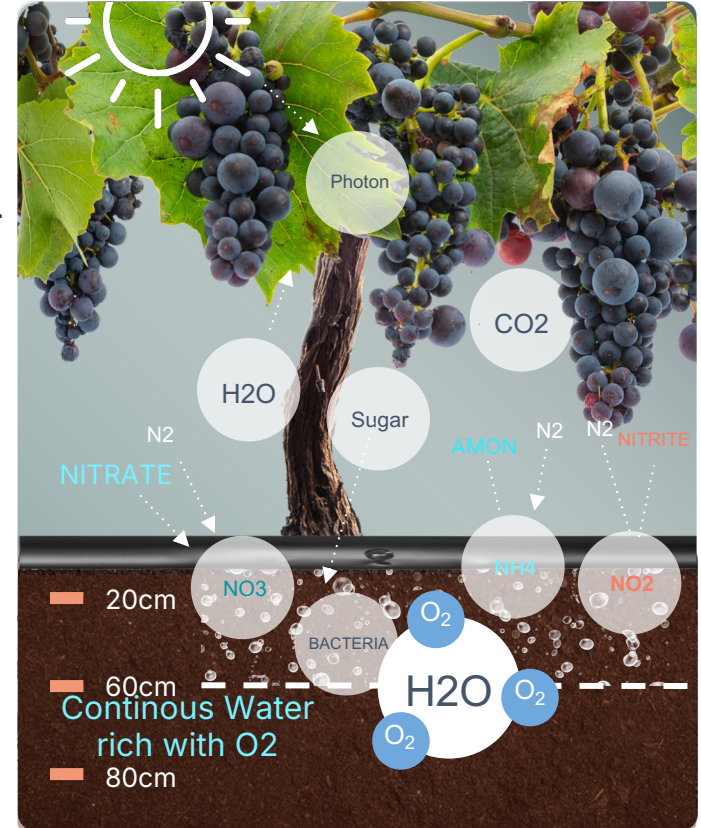
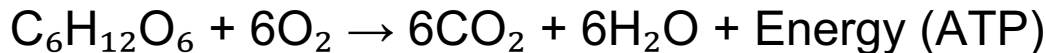
Increase respiration effectiveness + Energy



Better Carbon Sequestration + Nutrients

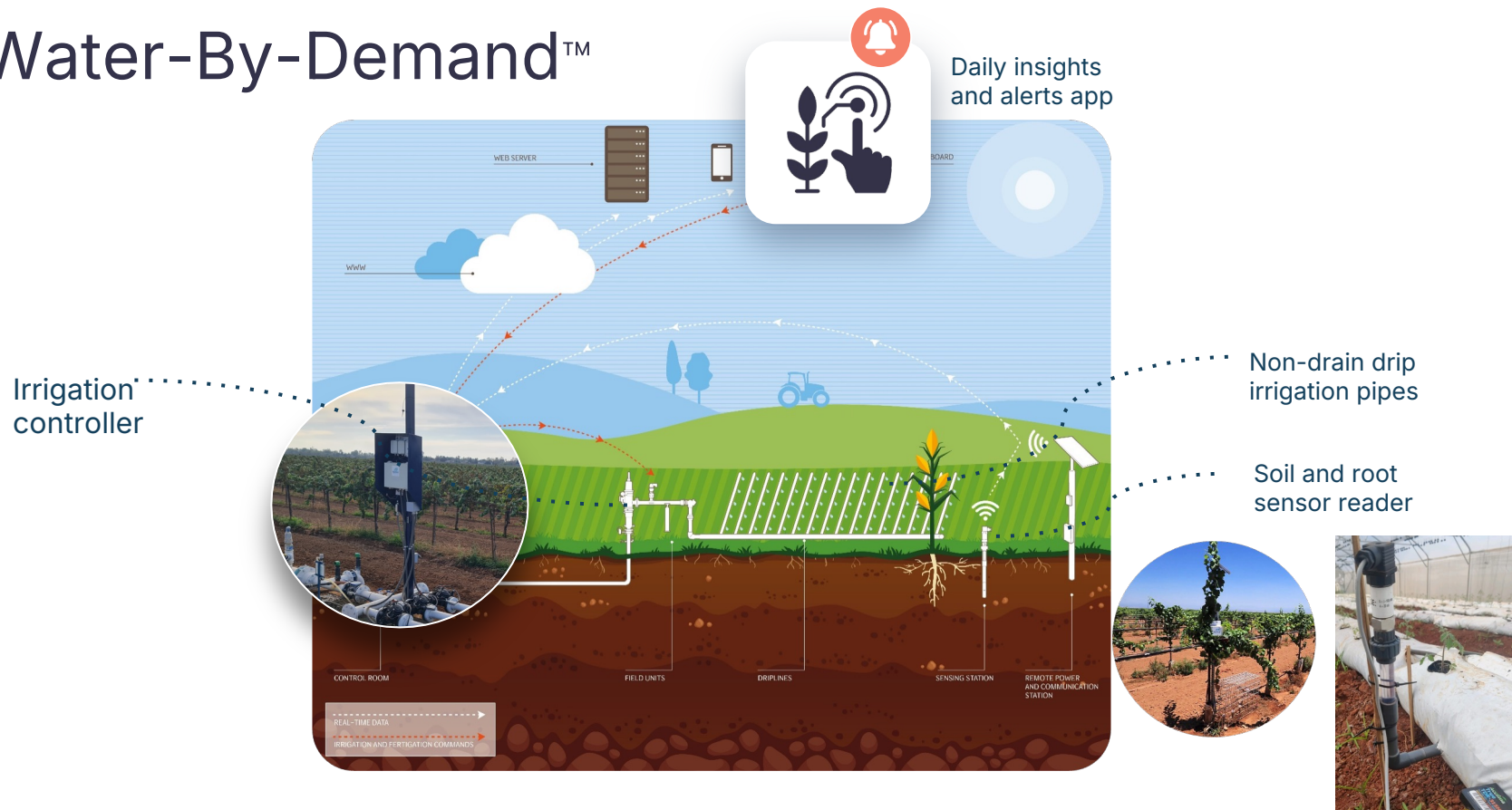


Plant Respiration



END-TO-END SOLUTION

Water-By-Demand™



Grapes and Almonds



Started
Q1.2021

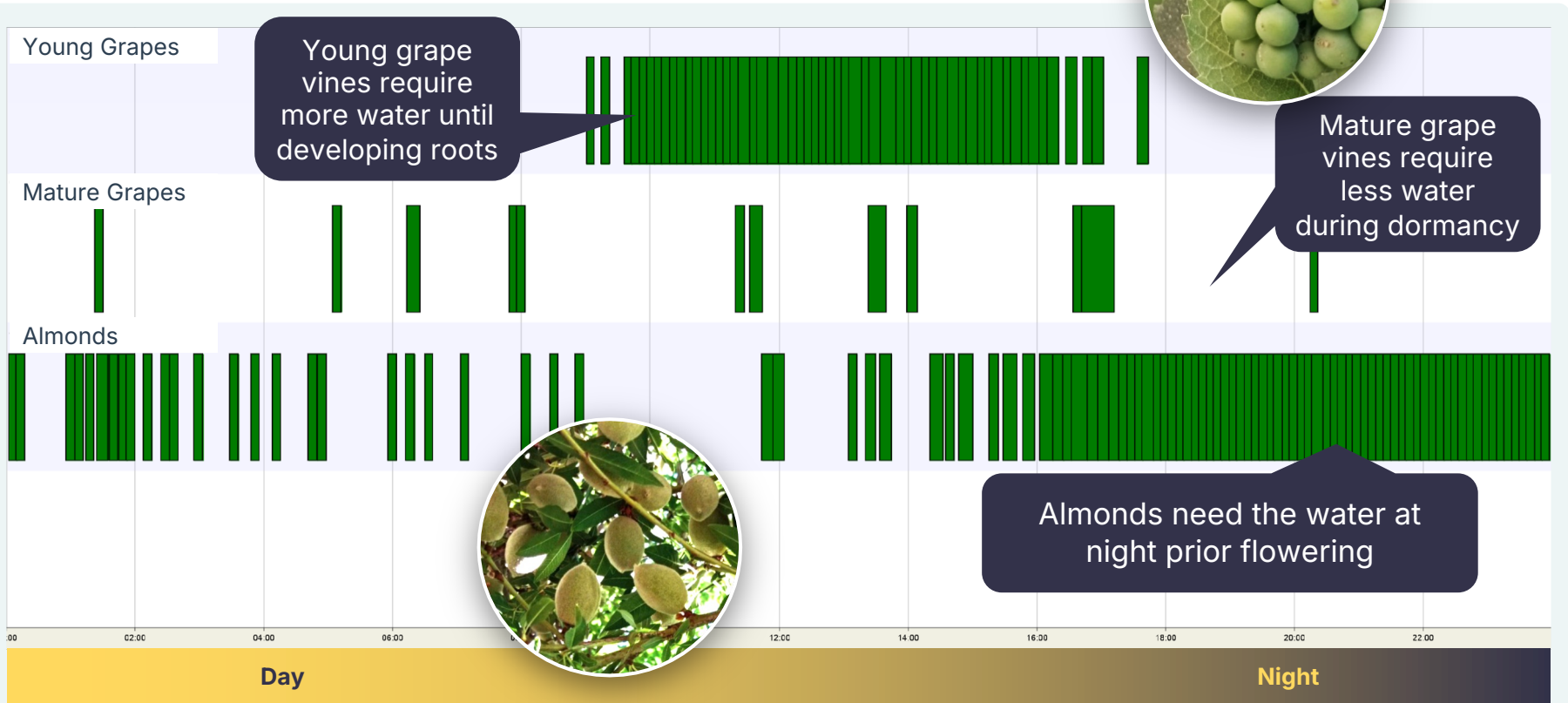
Water Used
50%

Fertilizer Used
0



During 2022
Drought

Real-time response to plant needs 24/7



SYSTEM ATTUNED AND ALIGNED TO PLANT NEEDS IN REAL TIME

THE ONLY **PROVEN** MACHINE- LEARNING AUTOMATIC IRRIGATION AND FERTIGATION SYSTEM



The Water by Demand system monitors and controls the soil and root conditions in real-time, by delivering precise amounts of water 24/7; maintaining optimal physiological conditions at the root zone, based only on crop need.

Soil condition

Experience and Expertise

Machine learning

A GLOBAL PIPELINE OF UNMET NEED

Use of proceeds

- Execute of pipeline projects
- Expand R&D capabilities
- Build out operations & sales teams
- Establish local presence
- Adding visual AI automation

Partnering for Change



FAO



UN
ICFS CONFERENCE



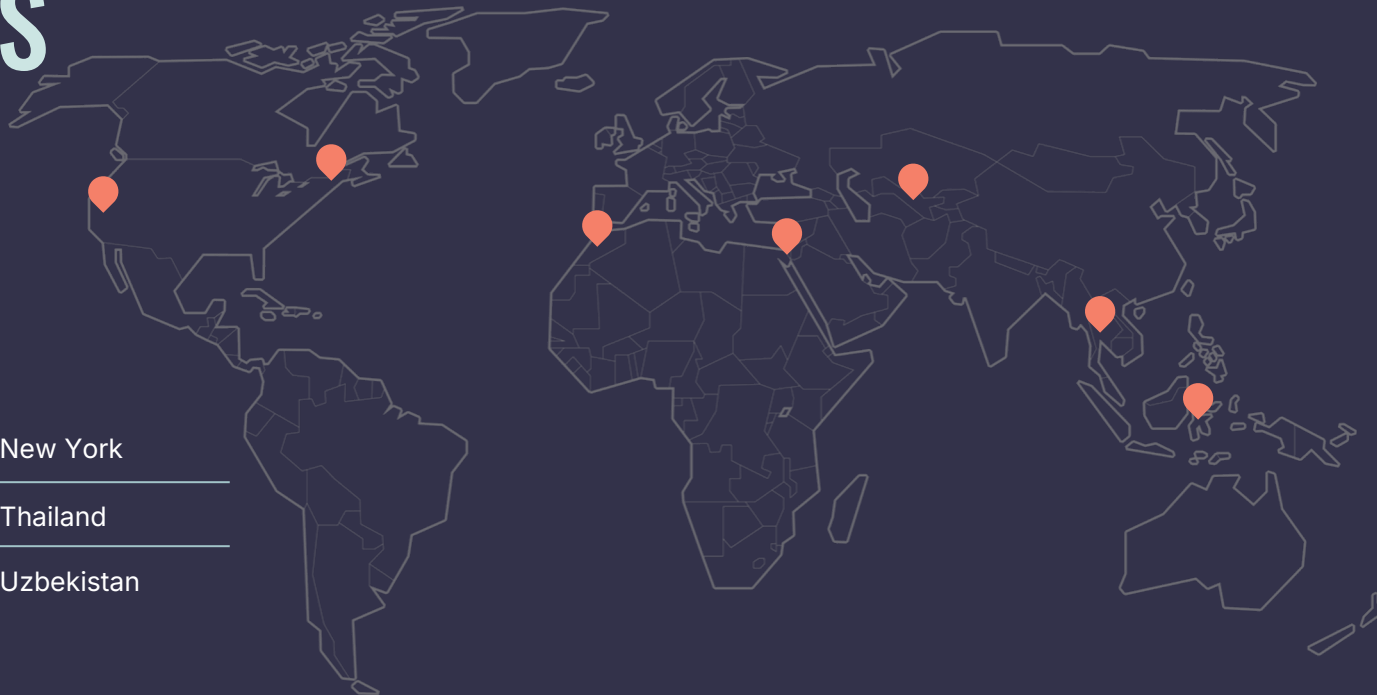
G20 Food Security
Forum 2022



The World Bank

STRONG VALIDATION

SUCCESSFUL RESULTS



California

New York

Indonesia

Thailand

Israel

Uzbekistan

Morocco

R&D Farm



May 2018

2018



August 2019

2019

Growing in dry land and extreme temperatures

Green peppers in desert greenhouses
35% less water, 50% less fertilizer



Cherry tomatoes
High Brix, temperature
above 45°C



Government Research and Training Farm





Horizontal irrigation
enables even
distribution of water
between drip lines

4X Plants
Per
Hectare/Acre

Cotton

90 cm

Cotton

Density: 20cmX10cm



3 Weeks



7.5 Weeks



16 Weeks

Lemon

Zero Fertilizer Achieved



2020
Oct.



2022
Oct.



Planted
Q4.2020

Water Saved
66%

Fertilizer Used
0

Full Harvest
1 Year (3X Faster)

Stevia

Zero Fertilizer Used



Planted
Q4.2022

Water Used
Less than protocol

Fertilizer Used
0



Unlocking stevia
opportunity

Indonesia

Cassava

 ZERO% FERTILIZER



5
Months

Planted
Q4.2020

% Water Saved
61%

% Fertilizer Used
0%

Yield Increase (Annual)
264%

Robusta Coffee At Sea Level

Zero Fertilizer Achieved



1.5
Years



2
Years

Planted
Q2.2020

Fertilizer Used
0

Corn



ZERO% FERTILIZER ACHIEVED



**3X
Density**



**VS.
Traditional**



Planted
Q2.2018

% Water Saved
Less

Density
X3

Yield Increase
320%

Rice

Zero Fertilizer Achieved



Traditional

**Agrinoze
4X
Density**



Planted
Q1.2021

Water Saved
45%

Fertilizer Used
0

Density
4X

Yield Increase
150% (3.5 months cycle)

Jasmine Rice field - 110 days



Potatoes

Zero Fertilizer Achieved



**40
Days**



Planted
Q.2023

Water Used
Less Than the local practice

Fertilizer Used
0

Rice

Zero Fertilizer Achieved



INDONESIA

Chilli

Zero Fertilizer Used



5
Months



5 cm.

Planted
Q4.2023

Water Used
Less than protocol

Fertilizer Used
0

HUNGER FREE WORLD

We are looking for partners with resources
and passion to change the world.
Join us to provide food security
From the ground up.





Cantaloupe (Melon)

Del Bosque Farms

Zero Fertilizer Used



End Of May



June



July



End of August

Planted
Q4.2021

Fertilizer Used
0

First ripe fruit
8 weeks

Full Harvest
9.5 weeks





Cantaloupe (Melon)

Del Bosque Farms

Zero Fertilizer Used



End Of April



End of June



July

Planted
April 2025

Fertilizer Used
0

First ripe fruit
8 weeks

Full Harvest
July 2025

MOROCCO

Olives

 ZERO% FERTILIZER



Planted- 2009
Agrinoze -Q3.2024

% Water Saved
Profiling phase

% Fertilizer Used
0%

Banana

Planted
April 2019



Planted
July 2023

Water Saved
66%

Fertilizer Used
0

Yield Increase (Annual)
9%

Dates- Majhul

Zero Fertilizer Used



Planted
Q1. 2021

Water Saved
61%

Fertilizer Used
0



X2

Installation &
Double Number of
Trees
Nov 2023

Planted
2017

Water Saved
70%

Fertilizer Used
0

Tomato - The Negev

Zero Fertilizer Achieved



Planted
Q3.2022

Water Saved
65%

Fertilizer Used
0 (Last 3 Months.)

Lychee

Zero Fertilizer Achieved



Oct.
2021



July
2024

Planted
Q4.2021

Water Saved
66%

Fertilizer Used
0

Mango

Zero Fertilizer Achieved



July
2025

Planted
Q4.2021

Water Saved
66%

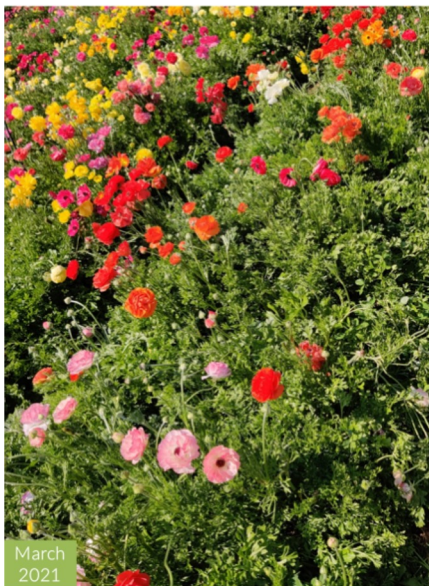
Fertilizer Used
0

Yield
+50%

Buttercups



Agrinoze



Control

Buttercups planted and managed by Agrinoze for 8 months:

- Taller, thicker stems, flowers contain more seeds
- Flowers bloomed sooner despite zero fertilizer application
- Higher flower to leaf ratio means increased dense planting potential
- Uniform growth vs. sporadic growth (control)

Planted
Q2.2021

Fertilizer Used
0

Blueberry

Zero Fertilizer Achieved



7
Months



Planted
Q3.2022

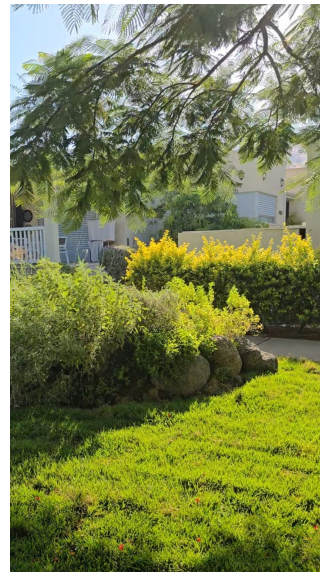
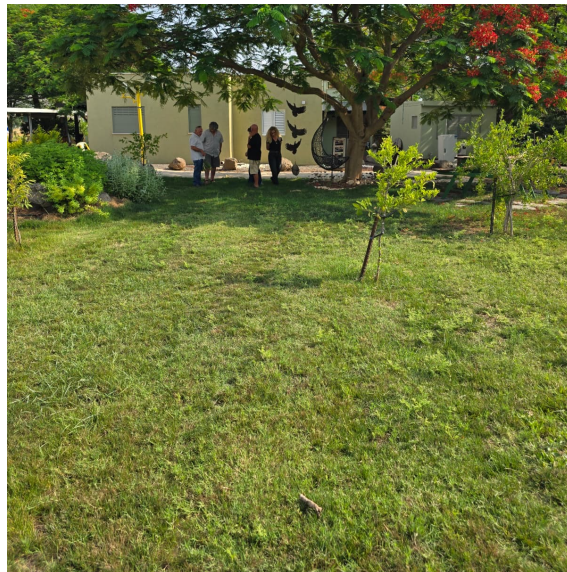
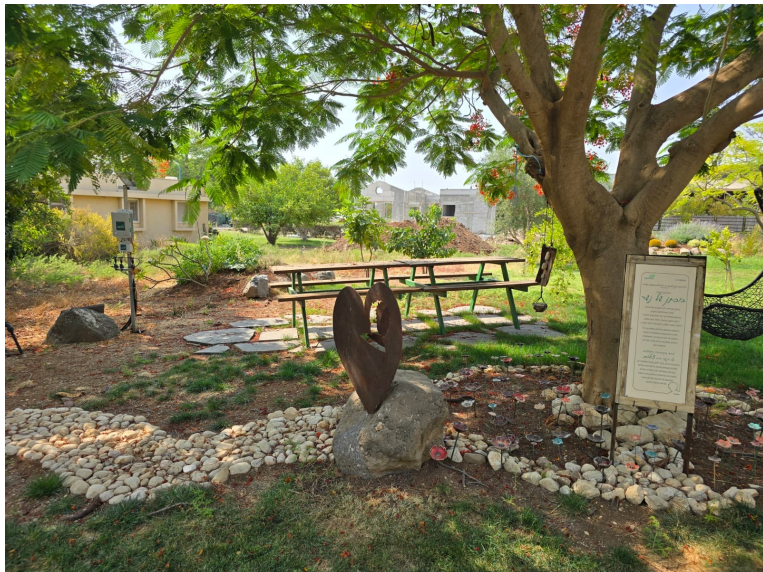
Water Used
Less

Fertilizer Used
0 for 7 months

Yield Increase (Annual)
Jumbo grade

Garden (grass)

Zero Fertilizer Achieved



Planted
March 2025

Water Used
Less

Fertilizer Used
0

OLIVES

Growing on the sand and extreme temperatures

Growing olives in desert sand



50% less water, 80% less fertilizer



BETTER FARMING FROM THE GROUND UP

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