



# Introduction and dedication

Before indulging deep into this scientific manual, into the world of the Kyminasi Plant Booster, be advised that what you are about to read is based on a completely new science. A new level, depth and an exploration into the world of physics that perhaps only the visionaries and experienced scientists could understand. For at least two centuries many scientists have spoken about this physical universe, tested and experimented with it. All in an attempt to understand it and obtain knowledge, wisdom and advancement. Many have made progress and left behind data for others to study and continue forward on the quest of new discoveries.

This introduction is a dedication to the many brave men and women who traveled the road and laid the pavement for yet other brave explorers to travel. Fulvio Balmeli is such a brave and courageous explorer and in his many years of exploration, he decided to take a very different approach to a very similar goal of understanding. His approach to the physical universe was to simply be a friend and develop a method in which to communicate with this friend called the physical sciences. This friend, sometimes shy and sometimes vicious was still just another friend. Through this simple approach he was able to run countless experiments and trials until that very beautiful universe engaged to trust him and allow him in to explore, learn and share the wonders of her inner beauty.

Today, Fulvio Balmelli calls this communication channel cyto-algorythmics, tomorrows explorer may call it something else. In any case what is extremely important is that this communication system is the basis and foundation of the Kyminasi Plant Booster technological products (Systems), only one of hundreds of products developed by Mr. Balmelli utilizing this vast system of communication into the physical sciences and universe, but the most important one for the future of humanity and the food supply for the human race for the next million years.

This manual is dedicated to the documentation of science and the goal of this manual is to grow and expand with the launch of 1000 scientific trials in all aspects, regions, areas, countries, environments, challenges and pressures of agriculture. Our targeted achievement is to be the only product in the world to have over 45,000 pages of scientific research to document the efficacy, efficiency and perfection of the Kyminasi Plant Booster as this is not just a product, it is the catalyst to the renaissance of the Agricultural Industry worldwide and the solution to global warming, environmental pollution, water waste management, ocean, river, lakes and any waterway toxicity reduction. It has the power to raise the oxygen levels of planet earth and provide mankind with the greatest tasting, nutrient dense, high protein fruits, vegetable and meats like never before experienced. Most of all it has the power to raise the aesthetic level of planet earth.



# Introduction and dedication

On a final note I want to remind you that every product in your life that you use personally from the time you wake to the time you go to bed and while you sleep is directly and indirectly related to agriculture. Kyminasi Plant Booster has the power to improve every one of your daily products and it will do so, it will make everything better.

My name is Francesco (Frank) Arlia Jr. I am the very proud CEO of Harvest Harmonics, the exclusive international distributor of the Kyminasi Plant Booster and my team and I are here to service you.



## **KYMINASI PLANTS**

# **Presentation of Technology**

# The Company

K Project S.r.l. is in the province of Como and is one of the companies of the corporate group responsible for the distribution of the technologies of the international Kyminasi brand, led by the Chairman of the Board of Directors Alessia Panizza.

Specifically, it is responsible for coordinating research and development, the creation of prototypes, scientific tests in the development phase, certifications, packaging, logistics and shipping of all biotechnologies resulting from over thirty years of research by the independent Swiss researcher Fulvio Balmelli.

The Kyminasi project was born around the figure of the human being and involves only those fields of application that can lead to a higher quality and life expectancy for humans.

An innovative technology is used that can be applied to various disciplines including medical, agricultural, breeding, cosmeceuticals, drinking water treatment, etc.

The body of knowledge developed by Fulvio Balmelli is called "cytoalgorithmics" and aims to improve the health of any biological system.

Cyto- in scientific language means "cell" and algorithm means "a sequence of steps to perform a task". Algorithm is an expression of Arabic origin which means translating a logical sequence into numbers.

Cytoalgorithms are a mathematical language derived from the decoding of the electromagnetic frequencies emitted between molecules during specific biological actions.

This language is "programmed" on devices and products, depending on the fields of use, with the aim of resonating with the biological systems to which it is applied, remodeling them, and bringing them back into balance.

Currently, the K Project company has launched 17 research and development projects in different fields, some of which are in more advanced stages, such as the one covered in this document.

***" It is interesting to observe that the effects of Biophysics on a living being are inevitable ... whether I demonstrate it or not through the technology I have created, they exist and happen ..."***

***Fulvio Balmelli - independent researcher***

# KYMINASI PLANT BOOSTER

## INTRODUCTION BY AGRONOMIST BRETT MILLER - U.S.

KYMINASI is a brand that includes all the products and devices, the result of a new biophysical technology, developed in over 30 years by the independent Swiss researcher Fulvio Balmelli.

"Kyminasi Plant Booster" is the application of this technology to the world of plants and agriculture, using low frequency radio waves that improve plant and soil health.

Kyminasi Crop Booster programming improves both the quantity and the quality of yields:

- ✓ Improving soil health and nutrient availability.
- ✓ Increasing the density of roots.
- ✓ Improving and balancing the absorption and use of plants nutrients.
- ✓ Increasing the efficiency of photosynthesis in warmer, dry, and cloudier conditions

The device is connected to an irrigation system and is activated when the water flows for the first time inside the irrigation pipes. It is designed to work with crops planted in soil. No power system or maintenance is required.

The micro-transmitters inside the device are customized for each farm, based on the water flow, coverage area, maximum water usage formula, maximum emission distance and type of installation. The KPB system emits signals for two years before having to be replaced.

## MECHANISM OF ACTION

Kyminasi Plants Booster [KPB] Technology works like a computer microchip.

Precise "software-like" instructions are transmitted to plants using pulses of radio waves at different frequencies.

As the transmitted frequencies correspond to the natural molecular frequencies of soils and plants, these instructions can be received from them and will change function accordingly. \*

\* For more information on the science behind Kyminasi Plant Booster, visit our website at [www.harvestharmonics.com/the-science](http://www.harvestharmonics.com/the-science).

## OBSERVED RESULTS

### ✓ Yield quantity - Increases of 10-20% of yields are common.

- Increase in harvest by weight
- Increase in the number of fruits harvested collected

### ✓ Yield quality - Higher quality grades are common.

- Increase in the percentage of crop quality elements
- Increased Brix and Brix/Acidity ratio in fruit
- Longer shelf life with less storage loss

### ✓ Growth and vigor - Accelerated growth rates and stronger plants are common.

- Improved plant health
- Increased plant resilience against pests

### ✓ Soil health - better soil health is common.

- Increased soil mineral content and improved soil conductivity

- Increase in soil microorganisms (cyanobacteria)
- Increase in the rate of water penetration into the soil
- Decrease in soil compaction

## OTHER BENEFITS EXPECTED FROM KPB TECHNOLOGY PROGRAMMING

### ✓ Water use

- Reduction of the volume of water required
- Increased tolerance to brackish water

### ✓ Growth and strength

- Reduction of fertilizer requirements

### ✓ Quality of yield

- Increased nutrient content

## HOW KPB TECHNOLOGY PROGRAMMING STIMULATES PLANT PHYSIOLOGY

### PLANT HEALTH - SUMMARY

- The signals target the increased absorption and BALANCED use of the main macronutrients: nitrogen, phosphorus, and potassium.
- KPB technology signals enhance and help BALANCE secondary and micronutrient absorption and utilization.
- KPB technology promotes an increase in the absorption and use of nitric oxide. Nitric oxide is important for “growth, development, immunity and environmental interactions in plants”. \*



- \* Yu, Manda & Lamattina, Lorenzo & Spoel, Steven & Loake, Gary. (2014). Function of nitric oxide in plant biology: A redox signal in deconvolution. The New Phytologist. 202. 10.1111 / nph. 12739. <https://nph.onlinelibrary.wiley.com/doi/full/10.1111/nph.12739>

## PLANT HEALTH - NUTRIENT BALANCING

- Calcium is kept in balance using magnesium, phosphorus, and potassium.
- Calcium, magnesium, sulfur, copper, zinc, manganese, and silica (SiO<sub>2</sub>) are treated together to facilitate iron absorption (Fe).
- An increase in boron absorption has also been observed.
- KPB technology signals inhibit excess sodium absorption and reduce soil conductivity.

## PHOTOSYNTHESIS

- • Reaction to light. KPB technology signals are designed to increase the absorption and use of water, nitrogen, and light to maximize energy production during the light reaction of photosynthesis.
- • Calvin cycle. Additional KPB technology signals stimulate increased absorption and use of carbon dioxide and the efficiency of glucose metabolism to create a "propulsion" of the dark reaction of photosynthesis and plant growth.
- • Environmental stress. Due to the above improvements and regardless of which method a plant uses to fix carbon (C<sub>3</sub>, C<sub>4</sub> or CAM), KPB technology appears to broaden the range of conditions under which photosynthesis can occur. For example, when the weather is cloudy, the KPB technology signals amplify the plant's ability to use available light.

## SOIL HEALTH

- KPB technology signals help to bind minerals in the soil and inhibit the leaching of nutrients.
- KPB technology signals help activate nitrogen fixing bacteria in the soil and inhibit the evaporation of nitrogen from moist soils.
- KPB technology signals improve soil compaction characteristics. The

frequencies seem to increase the molecular attraction of soil minerals which cumulatively causes a decompaction effect.

- KPB technology signals optimize soil water retention and, due to the decomposition effect, increase the rate of water penetration into the soil. Less water is needed to hydrate the soil.

## GUIDELINES FOR USE - TIPS

- Nitrogen: KPB technology signals improve nitrogen retention in the soil, as well as uptake and utilization by plants. Although we are still collecting data, it is recommended that a minimal application of nitrogen is used so as not to overload the plant with too much of this nutrient.
- Germination: KPB technology signals improve a seed's ability to absorb water. However, a pre-emergent plant does not yet have a leaf structure for this increase in water to process through. We recommend minimal irrigation with KYMINASI KPB signals until the plant emerges from the ground.

Brett Miller

Agricultural Engineer

# HISTORY

## 2010

The independent researcher Fulvio Balmelli, while studying the biochemical processes of the gastrointestinal system through a biophysical method, makes a discovery concerning the application of these biophysical systems in the plant field.

## 2012

Balmelli creates hundreds of prototypes to identify the best combination of frequencies necessary for the project, until the first research concludes with a device capable of obtaining results that exceed expectations.

## 2013

He develops the first device model for plant irrigation systems. The first internal tests produce striking results, but he begins to have issues due to the innumerable variations and needs of the different plant species.

# 2014

A first agreement is signed with a US company that is available to perform field installations to evaluate the effectiveness of the device in different continents and with different crops. The company also carries out tests on installation methods that vary based on the characteristics of the system in terms of size, pressure and water flow.

# 2016

The combinations of micro-transmitters are defined in terms of quantity and installation sequence thanks to the tests carried out in the field.

# 2017

For the production of the micro-transmitters, a steel with a better basic chemical composition is selected, which, however, will prove sadly inadequate as the steel has magnetic characteristics that come into conflict with the low-frequency waves of the technology, canceling them.

In fact, the crops where these devices are installed do not achieve the desired results. The company has to withdraw the entire batch of several thousand micro transmitters and replace them free of charge with a new steel alloy which proves to be suitable in the following years.

# 2018

Different devices of various sizes are made based on the installation needs, observed during the years of experimentation.



# 2019

Several prototypes are developed whose effectiveness has been compared by means of experimental tests followed by laboratory analyses.

05/13/2019 - The first test is carried out on water to demonstrate that it does not undergo chemical changes due to the treatment.

06/10/2019 - A second test is carried out with the aim of evaluating any phytotoxic effects on the germination and growth of plant species (inhibition of germination and growth).

06/10/2019 - A third test is aimed at evaluating the response of vegetation to treatment with activated water in terms of aerial biomass production and content of mineral elements in the leaves. The test does not give the desired result but is essential in understanding that the variations in the stimulation of nutrients in plants do not allow for the synergies and antagonisms. So, Balmelli offers the idea for further research and the creation of a series of new prototypes containing the various technologies developed over the years, modified based on the latest experiences.

08/02/2019 - These prototypes are compared through laboratory analyses.

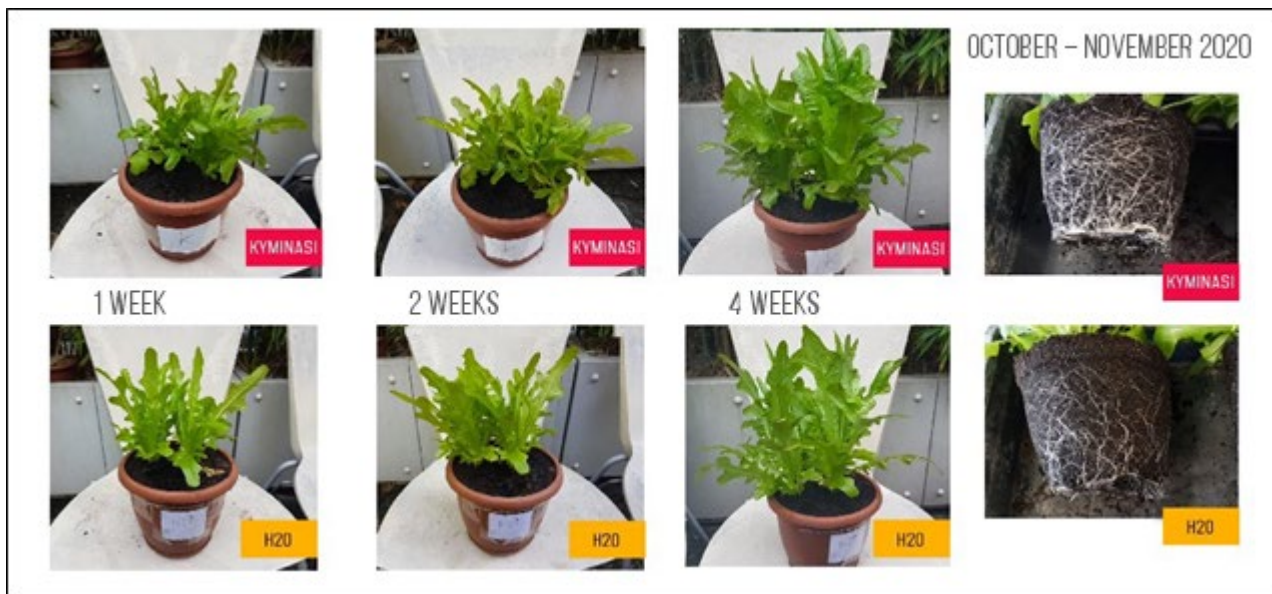
09/24/2019 - From the previous analyses, 4 different possible slight variants of the chosen prototype emerge, which are further compared by means of laboratory tests. As a result of these tests, the best variant is identified, which is given the name Tech 6.

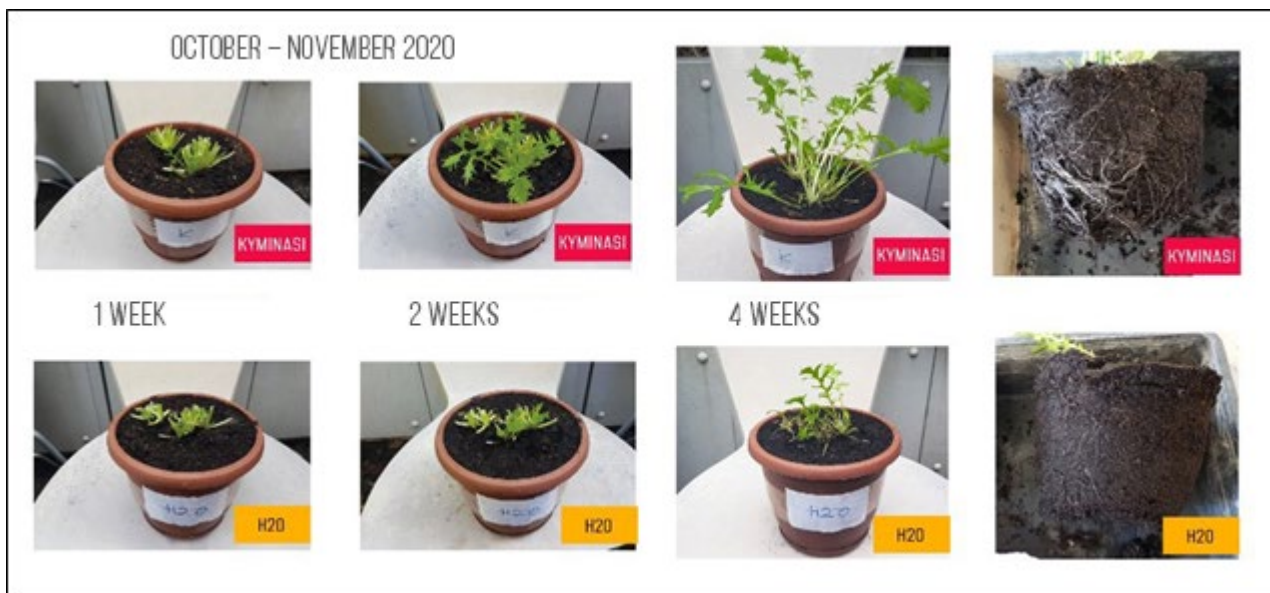
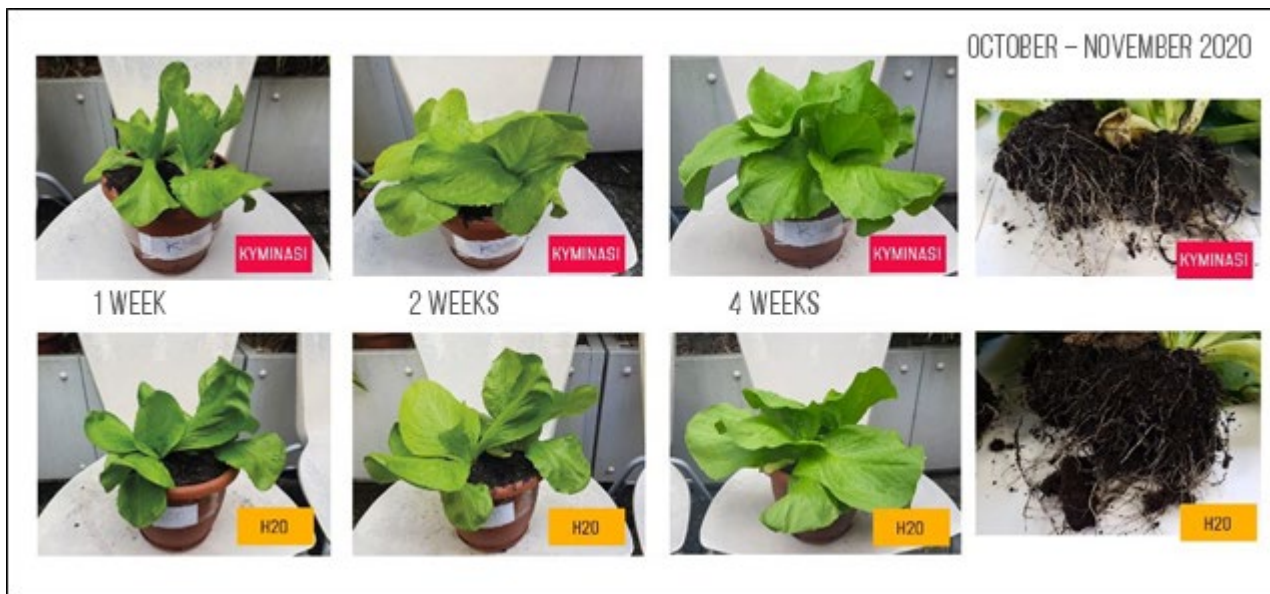
11/19/2019 - An experimental open field test is put in place to validate the effectiveness of Tech 6. Unfortunately, the test is not successful because the influence of low frequency waves present in the treated water also emerges in the water of the soil and therefore in untreated plants. It is assumed that this "contamination" is due to the proximity between the treated and untreated rows, which are about one meter apart and alternated between treated and control rows. This new experience stimulates further research on the possibility of wave transmission through rain and underground water, as well as through the minerals contained in the soil itself. It is concluded that, based on the characteristics of the technology it falls within the parameters of the field of biophysics and not in the categories of the chemicals which are usually used in agriculture, the open field tests have a higher risk of "contamination" for the purposes of comparative tests, the use of potted plants presented a much lessor risk.

Meanwhile, other crops on which the device is tested on various continents demonstrate extremely positive results.

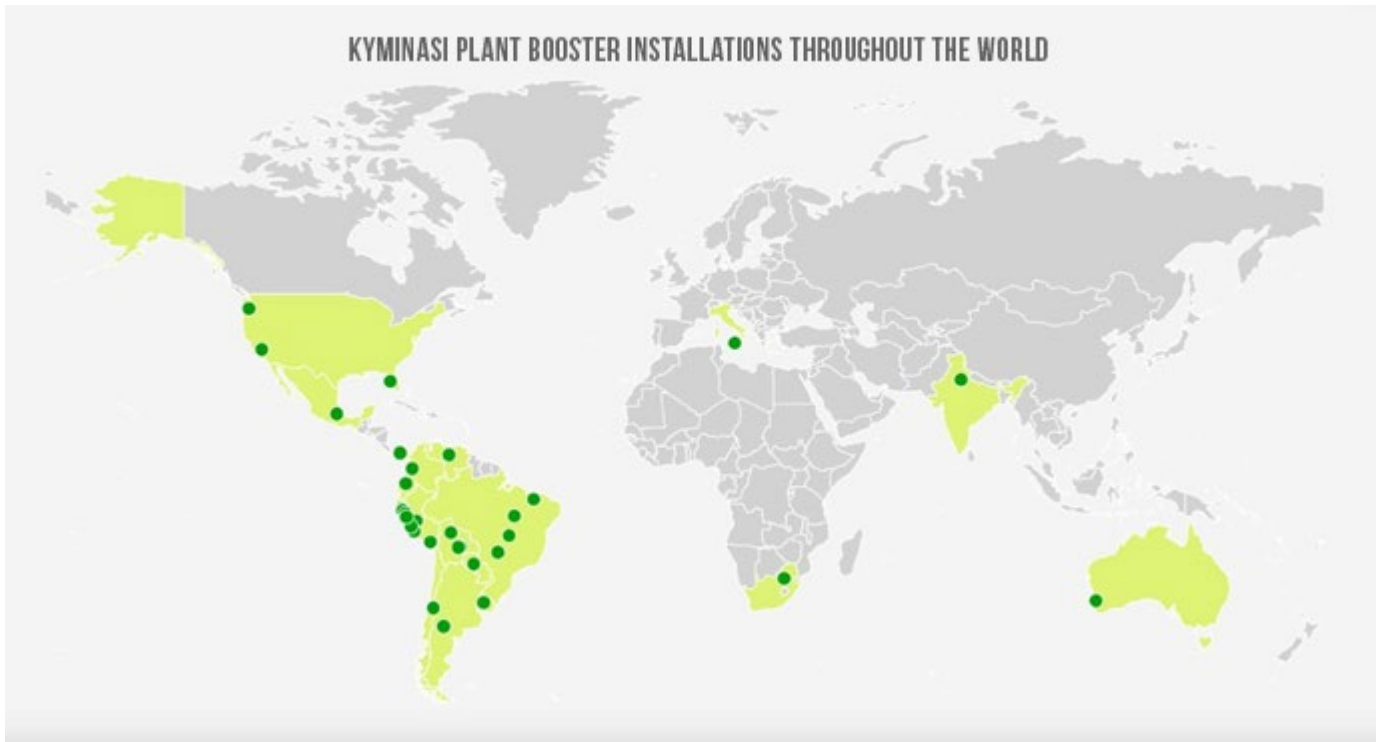
# 2020

Como, 11/19/2020 - It was decided to carry out a comparative test in pots on three types of lettuce. As this was a period of the year with harsh climate and significant lack of sunlight, the KPB programs relating to the assimilation and use of sunlight by plants were enhanced, giving rise to Tech 7. The tests provided positive results. Laboratory analyses were performed both on the plants and on the characteristics of the substrate. 2020 yields more positive testimonies than any previous year, especially in the South America area, so much so that some universities (Ecuador and Chile) decide to undertake a path of scientific validation of the KPB system.









# Technology

The technology described here has been developed over many years using the "Edisonian" approach. The goal has always been to find a safe, reliable, and economical way to improve agricultural production naturally and without chemicals. As this is a new technology, the precise mechanisms of its action on plant chemistry are still being studied to form a more complete understanding of the processes taking place.

The inventor is a Swiss born independent researcher living in Como, Italy named Fulvio Balmelli. His devices for the agricultural sector are known as KPB technology.

## SCIENTIFIC FOUNDATION AND BACKGROUND

The electrons that hold all matter together move and these movements create vibrations. For any structure, these vibrations combine to form a composite frequency known as the natural frequency. We can identify such frequencies between atoms, using technologies such as infrared spectroscopy.

We also know that externally applied frequencies can affect living organisms. [Suggs, 1973].

KPB technology is based on the theory that the natural frequencies of the vibrational bonds between the atoms of a plant can affect that plant's chemistry and health. It has also been theorized that adverse environmental conditions can alter a plant's normal frequencies in a way that negatively affects its health.

Finally, it is theorized that by exposing plants to their natural frequencies that are ideal for various functions, the molecules of the plants will harmonize with their normal and ideal vibrational frequencies, thereby improving plant health.

KPB technology acts on plants in the same way that a tuning fork is used to tune a musical instrument.

## MATERIALS AND METHODS

A key step in the development of KPB technology was finding a way to identify the natural frequencies associated with the plant's ideal functions, to do this, Balmelli adapted a device developed by a German researcher that recorded the vibrational frequencies of various organs of the human body [Brugemann, 1987]. The device works on different principles than an IR spectrometer.

Once the vibrational frequencies associated with specific plant functions had been mapped, the next step was to find a way to store them on a transmitter device. Various materials were tested, and the related programming was codified. Eventually, a silicon-metal-based micro-transmitter was developed capable of storing and transmitting the necessary signals.

The focus therefore shifted to the search for a frequency transmission system. Water, due to its polar nature (a slight positive charge on one side and a negative charge on the other), proved to be remarkably effective in this work. A magnetic field is produced when an electrical charge is in motion. When micro transmitters are mounted on the metal pipe of an irrigation system, the tiny magnetic field created by the flow of water passively extracts the information stored on the micro transmitters and carries it to the plants. The water tested one mile from the source showed the same frequencies as those stored on the micro transmitters.

In much the same way that a stereo uses a small electric current to carry specific frequencies to the speakers, water acts as a carrier wave to transmit the information stored in the micro-transmitters to the plants.

The micro-transmitters are passive, require no power and do not emit signals when not activated by running water. Micro-transmitters are easy to install and work for two years before needing to be replaced. The number and type of transmitters used is calculated based on the field to be serviced. In particular, speeds above 75 gallons per minute (gpm), equivalent to approximately 4.73 liters per second, require both a sequential combination of different power levels and an increasing number of micro-transmitters.

Balmelli found that each of the above functions were associated with specific combinations of low to extremely low radio frequencies ranging from 150 Kilohertz down to 10 Hertz. In total, more than 3,000 separate frequencies are programmed on the micro-transmitters. The signals are emitted in pulses that act sequentially on plants to provide the desired effect. In other words, it appears that certain frequencies will produce a change in a plant that will allow it to absorb a different set of frequencies and so on until normal vibrational frequencies are reached. This interaction can be defined more simply as "a combination of frequencies that travel together in pulses that provide sequenced instructions for the ideal functioning of the

plant at the molecular level." Balmelli describes this process as "algorithmic wave pulses".

That the signals are transferred to the water can be demonstrated with rapid freezing tests which show a change in the crystalline arrangement of the water. Other water characteristics such as pH, electrical conductivity, carbonates and bicarbonates, calcium, magnesium, sodium, and sodium absorption rate do not appear to be affected.

It should be noted here that while some research has shown that low-power, high-frequency (HF) electromagnetic stimulation of plants can alter their metabolism [Vian et al, 2016], little research has been conducted on the effects of low-frequency radio wave stimulation of plants.

The frequencies selected for micro-transmitters optimize the vibrations associated with the following functions common to all plants:

Absorption and utilization of water, nitrogen, and light.

Carbon dioxide uptake and utilization.

Glucose production and utilization.

Nitric oxide uptake and utilization.

## RESULTS AND DISCUSSION

Field trials began in Russia on a variety of crops at multiple sites located in Hawaii, Australia, Panama, and Washington state. The results validated the expectations, but also highlighted a limiting factor. The KPB technology only worked with moving water at relatively low flow rates (approximately 20 gpm = 1.26 liters per second). In December 2018, however, Balmelli caused a breakthrough that increased the maximum allowable flow rate to 2,600 gallons per minute (164 liters per second). The minimum flow rate required to activate the technology is 0.26 gpm (0.017 liters per second), incredibly low.

Following this advance, an agricultural laboratory in the province of Como, Italy (Minoprio Analysis and Certifications) was commissioned to carry out two studies: one to demonstrate safety and the other to demonstrate that KPB technology could affect nutritional absorption in plants.

The safety study used spring barley to test for phytotoxicity. The laboratory concluded:

"The results of the spring barley growth test showed no phytotoxicity of the water treatment system."

The nutritional study used the Kagran cabbage variety of lettuce. The results clearly demonstrated that the application of low frequency pulsed radio waves was affecting the nutritional content of the irrigated lettuce.

### **The researchers found:**

"Positive effects (increased absorption of plants irrigated with treated water) were found for nitrogen, calcium, magnesium, manganese and zinc; on the contrary, for the elements potassium, iron and for phosphorus, copper and sodium the absorption was higher in the control systems (untreated water). "

Although this mixed nutritional absorption result was unusual, with the usual Edisonian method, Balmelli used these studies to further refine the programmed frequencies in the micro-transmitters. Subsequent tests have shown increases of approximately 4% nitrogen and phosphorus and 6.5% potassium (NPK) with no reduction in magnesium. Iron, manganese, and sulfur were highest in the control crops.

It is important to bear in mind, however, that increased mineral absorption is only one component of the overall effect of the water treated with KPB technology. Field observations of plants grown with Kyminasi Plant Booster showed the following characteristics:

### **Faster growth with higher yields**

- Healthier, stronger and more disease and insect resistant plants, larger, more attractive, and abundant fruits, and vegetables.
- Products that stay fresher for longer after being harvested (extended shelf life)
- Products with better flavor and quality measured with Brix\* grades and other similar values.

\* The Brix classification is named after the German engineer Adolf Brix and is used in the food industry to measure the approximate amount of sugars in fruits, vegetables, juices, wine, soft drinks and in the starch and sugar manufacturing industry. For fruit juices, 1.0 degrees Brix is referred to as 1.0% sugar by mass. This usually correlates well with perceived sweetness.

After three years of use, soil tests at one of the first test sites in Washington state show a dramatic 47% increase in cation exchange capacity (CEC). Cations are positively charged atoms or molecules such as those of potassium or calcium in a form that can be absorbed. CEC is a measurement of soil fertility as it measures the soil's ability to retain nutrients.

Initial measurements from multiple recently installed test sites in Peru also indicate that

plants grown using KPB technology treated water require fewer chemicals to achieve equal or better growth rates. While more documentation is needed, these observations are promising.

And finally, the potential to increase water uptake in plants holds immense promise for drought prone areas and represents another important line of investigation.

## CONCLUSION

The use of Kyminasi Plant Booster technology appears to be a safe and effective means of improving plant health and yields for irrigated crops. The data, albeit limited, also indicates that KPB technology can be an effective means of reducing the amount of incoming chemicals needed to ensure a successful harvest. The existence of an available market to sell crops, lower costs and higher yields will translate into greater profits for farmers who use KPB technology.

# FAQ

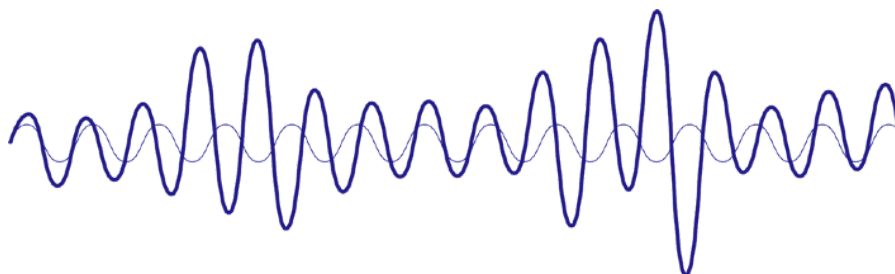
## IS IT CORRECT TO SAY THAT KPB TECHNOLOGY FALLS WITHIN THE BRANCH OF QUANTUM PHYSICS?

Yes, this statement is formally correct. The advent of quantum mechanics (or quantum physics) began in the twentieth century. It was developed to explain phenomena occurring at the atomic level, which classical (or Newtonian) mechanics could not explain. Quantum physics is the physical theory that describes the behavior of matter, light radiation and all their interactions, seen both as wave phenomena and as related particles. The birth of quantum physics in the early 1900s made it clear that light (and all electromagnetic radiation) is made up of tiny indivisible units, call quanta of energy or photons (in the biological field, called biophotons). The latest studies on quantum physics have shown that every organ in the human body and every single cell emit frequencies and are able, at the same time, to pick up frequencies coming from the outside just as antennas do. Each particle of our body has a particular vibratory frequency, multiple particles with the same frequency make up a tissue or organ that will resonate at the same frequency. From this each organ responds to a specific frequency. Through our technology, we have applied these principles to the world of plants. The term "BIOPHOTONS" indicates the phenomenon of the emission of light energy by living tissues. Each cell emits its own specific signal, characteristic of the tissue of which it is a part. It was undoubtedly confirmed that light is indeed the basis of signal transmission in 1976 by means of photodetectors (detectors, photomultipliers). According to Albert Popp, these emissions regulate cell growth, regeneration and control every biochemical process. In our specific case, thanks to the development of the cytoalgorithm, we utilized the "wave pulses" concept. What KPB technology does is not simply transmit the frequency of sunlight to the plant but sends the plant a series of codes made up of whole packages of frequencies (not a single frequency) that rehabilitate the capacity of the soil and the plant to treat a substance as efficiently as possible, for the purpose of its own survival. An Excel program is the closest thing to explaining what is inside our device. Countless complex calculations which, once performed, lead to a certain result. This is an algorithm by definition and these algorithms are what we have created to give, step by step, all the necessary information to a biological system, so that it reaches its best management through its natural processes. These algorithms emerged from mathematical calculations and biophysical investigations performed directly on plants. To better describe this, one should imagine inserting the plant in a closed circuit to be able to enter its "software" system so that, exactly as a computer technician would do, all the main biological parameters can be mapped, separating them for specific processes,

after which, on the basis of this, mathematical calculations can be developed which, if made available to the "software" of the plant, would allow the technician to identify his errors and correct them during learning ... obviously this is always valid in proportion to the richness of the environment in which the plant lives: the quantity of light it receives compared to what it needs, quantity of water it receives compared to its needs, quantity of minerals present in the soil, etc.

## KPB TECHNOLOGY TAKES ADVANTAGE OF THE PRINCIPLES OF BIORESONANCE. WHAT IS THIS?

Bioresonance arises from the principles of Biophysics, it is a technique used in quantum medicine that studies and interprets the vibrations emitted by matter and which is therefore based on resonance. Through specific electromedical equipment it is possible to recognize the frequencies of the electromagnetic waves emitted by a living being (human, animal, plant) and to intervene on the same waves / frequencies (with which it resonates) to restore healthy frequencies and thus restore a biological balance. The resonance phenomenon occurs when a body capable of vibrating with a certain frequency begins to vibrate when it is hit by a wave of the same frequency. In 1665 the Dutch physicist and mathematician Christian Huygens observed that, by arranging two pendulums side by side and on the same wall, they tended to tune their oscillatory movement, as if "they wanted to assume the same rhythm". From his studies derives the phenomenon that today we call "resonance". The concept of resonance, when observed in the biological field, takes the name of bioresonance.



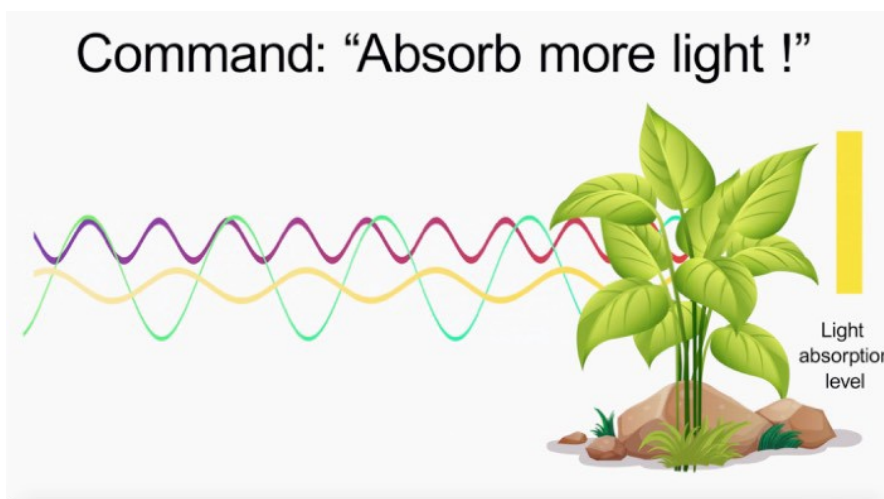
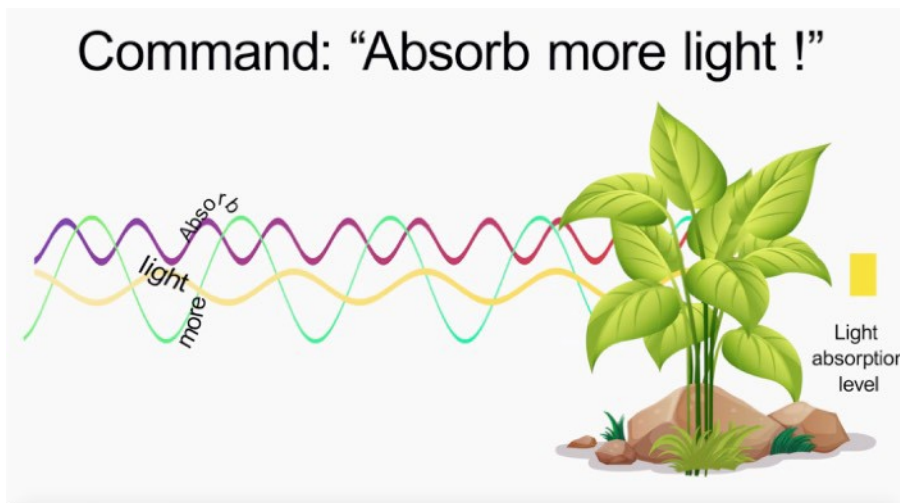
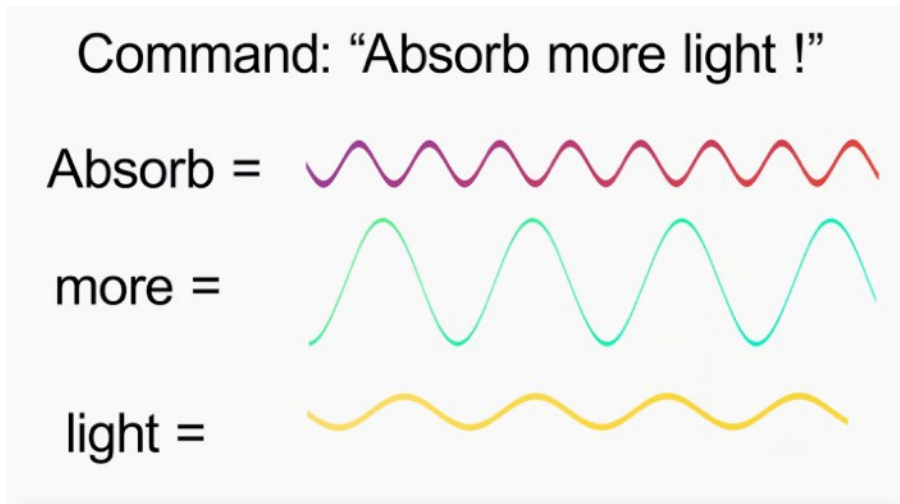


## COULD THE CYTOALGORITHMS ON WHICH KPB TECHNOLOGY IS BASED BE COMPARED TO BINARY CODE? AND WHAT ARE CYTOALGORITHMS?

We would not compare it to an English binary code (0/1) as it is much more like a vocabulary, such as that of the Italian language, for example, in which each word/symbol is equivalent to a specific frequency, so that, by combining different words in an exact order, we can obtain a sentence, like a real COMMUNICATION that, once received from the treated biological system (in this case the plant), gets a reaction, just as it happens with people. The frequencies transmitted are of the same type as those present in nature, so the soil and plants receive them without difficulty and above all understand them. This is a simplistic view of our technology but minimizing it helps in understanding its basics. In fact, sometimes for a biological system to implement an action through communication, communication itself does not have to be direct, but must be reversed or distorted, to obtain the desired effect... But this is the complicated part of our technology and there is no need to go into it in depth, it's just what we've had to go through over the last 30 years to decode the physical mechanisms of biological systems that, like everything in this universe, are subject to abnormality. Cytoalgorithms are characterized by their fundamental, not understood as simplicity, but as a concept that can be broken down no further and which leaves no room for interpretation. They consist of a finite number of steps which take place in a given time, leading to a unique result. Cytoalgorithms are of different natures and have different purposes. To name but a few:

- Search cytoalgorithms (to find missing data starting from known data)
- Heuristic cytoalgorithms (which allow a result to be predicted, based on intuition and a temporary state of circumstances)
- Quantum cytoalgorithms (which use quanta to store and process information)
- Repeated sequence cytoalgorithms
- Coordination cytoalgorithms
- Cytoalgorithms with self-driving code (programs able to modify their own code based on the given parameters)
- Data compression cytoalgorithms
- Entropic cytoalgorithms (without loss of information), etc.

### EXAMPLE OF CYTOALGORITHMIC LANGUAGE APPLIED TO PLANTS FROM THE SINGLE ASPECT OF LIGHT ABSORPTION



## HOW DOES WATER CARRY SIGNALS?

Water has many qualities: it is a conductor, and it is also an information vector. For example, dolphins and whales communicate through water using signals at specific frequencies. We drew on this natural technology.

## IT IS STATED THAT "THE TECHNOLOGY WILL ALLOW A BETTER ASSIMILATION OF LIGHT AND THAT IT WILL AMPLIFY THE SIGNAL OF LIGHT". HOW DOES KPB TECHNOLOGY AFFECT CHLOROPHYL OR ITS SUPPORTING PROTEINS KNOWN AS "LIGHT COLLECTION COMPLEX?"

First, we copied and stored the frequency of sunlight in our frequency database, using a procedure that is one of our technological trade secrets and therefore cannot be disclosed. The plant receives the amplified frequency of light through water treated with KPB technology and when this resonates with the actual light the plant receives from the sun, the plant will have a greater drive to use sunlight.

## WHEN IT COMES TO AMPLIFYING A SIGNAL THROUGH THE KPB TECHNOLOGY DEVICE, WHAT IS AMPLIFYING? AMPLITUDE, CURRENT, VOLTAGE, SOMETHING ELSE?

We are creating frequency harmonics of the original signal. In the case of light, for example, the plant normally uses the sunlight it receives in proportion to how much it receives. As for our technology, on the other hand, the frequency of the light we send to the plant creates an amplification of the actual light that is absorbed, creating a better management of the light itself, with a longer duration. So, when the treated plant is no longer receiving light, it will take advantage of the resonance light, gaining growth time over and above on greater than untreated plants.

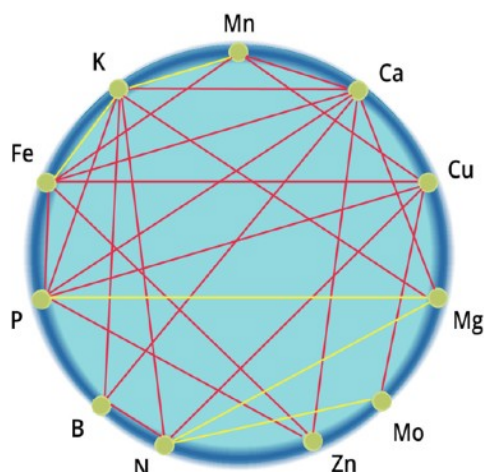
**BECAUSE THE AMPLITUDE OF A WAVE DECREASES WITH DISTANCE DUE TO A DISTRIBUTION OF ENERGY OVER A GROWING AREA, ARE THE SIGNALS STRONGER NEAR THE SOURCE AND DO THEY BECOME WEAKER WITH DISTANCE?**

No, they are not stronger when they are close to the source. It is important to keep in mind that waves propagate much faster in water than in air and our frequencies, on the contrary, tend to increase as they propagate in water. Obviously, there will then be a maximum distance limit, within which the signal will begin to decrease until it disappears; from the tests carried out so far, we have been able to show that up to about 5200 feet 1.5 kilometers the signal remains full.

We would need to have an "infinite" irrigation system to accurately determine how far our frequencies travel.

**PLANTS USE 14 DIFFERENT MINERAL NUTRIENTS TO GROW. BUT APPARENTLY NOT ALL NUTRIENT STIMULATION FREQUENCIES HAVE BEEN INCLUDED IN THE KPB TECHNOLOGY FOR WHAT REASON?**

Vitamins and minerals within a biological system influence each other, with synergistic or antagonistic effects, depending on their presence and combination. For this reason, we had to focus on finding an effective and acceptable balance. Whenever we change the balance between minerals, there are decreases or excesses of the values in some of them. Because the topic is complex, so far, we have focused on the best balance so that it works for the majority of crops. This step alone required extraordinary work by research and development with hundreds of tests and improvements to achieve the desired goal. The table below shows the Synergy and Antagonism table



Synergy (yellow)  
Antagonism (red)

## **SOME EVIDENCE OF NUTRIENT RETENTION HAS BEEN OBSERVED WITH AN INCREASE IN THE CATIONIC EXCHANGE CAPACITY OF KPB TECHNOLOGY TREATED SOILS. HOW DO YOU EXPLAIN THIS TECHNOLOGY?**

A greater ability of the plant to use minerals can cause it to absorb less, leaving more in the soil. It is an interesting theory, but we are unable to state it with certainty. In addition, it cannot be ruled out that the major minerals present in the soil may be due to a chain mechanism of synergies between minerals that, starting with those reinforced by KPB technology, automatically lead to an increase in others found in the soil. This would explain how the soil would be induced to retain these nutrients regardless of the lower absorption in plants. The two theories are not necessarily mutually exclusive, indeed they could both be valid. As for nitrogen, an indispensable element for crops, the technology provides that the nitrogen present in the air is better absorbed into the soil, as well as reducing its evaporation from the soil. Furthermore, from some laboratory analyses of the substrate of pot cultures, it emerged a smaller amount of nutrients remained in the substrate at the end of the scientific test in the treated pots, compared to those irrigated with control water. It was hypothesized that the treated plants had a greater capacity to absorb nutrients present in the substrate than the control plants.

## **IT IS WELL KNOWN THAT SALT WATER INHIBITS RADIO WAVES. BASED ON THIS, CAN WE EXPECT THAT IN AREAS WITH EXCESS SODIUM IN WATER, KPB TECHNOLOGY SIGNALS CAN BE REDUCED?**

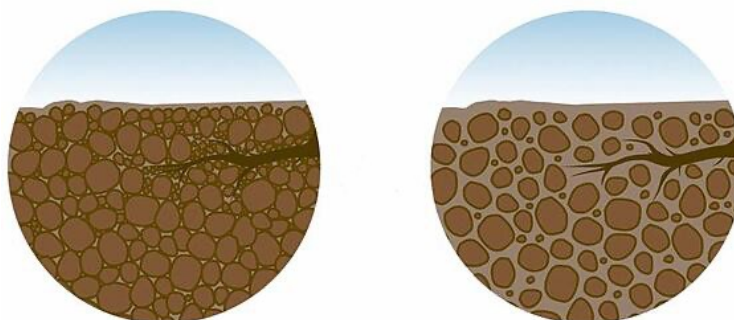
By evaluating the factors on which the KPB technology was developed, sodium should even increase the effectiveness of the signals as saltwater increases the speed of propagation of frequencies. While we have never run any tests to confirm what science says in this context, this holds true in the case of our technology. This could also demonstrate that cytoalgorithms are not radio waves like those we are used to, but much more subtle wave harmonics and therefore potentially underlying other laws.

**THROUGH THE USE OF KPB TECHNOLOGY THERE WAS AN ACCELERATED WATER INFILTRATION IN THE SOIL AND A LOADING OF THE SOIL COMPACTION THAT WAS GREATER THAN EXPECTED FROM HYDRATION ONLY.**

**WHY SHOULD KPB TECHNOLOGY TREATED WATER FLOW INTO SOIL FASTER AND WHICH ASPECTS OF KPB TECHNOLOGY PROGRAMMING COULD MAKE THE SOIL LESS COMPACT?**

What we think occurs in the soil through our technology is a reaction of chemical bonds through negative electromagnetic charges, which interact on calcium, phosphorus, potassium, magnesium, and silicon (contained in the clays).

What has been observed is an optimized soil water retention mechanism. We can also assume that our frequencies activate a mechanism of greater molecular aggregation of the soil, so that the fuse of soil leave between them empty spaces through which water can infiltrate more easily. To give an example, you could imagine two glass vases: small grains are inserted in one while marbles are inserted in the other. The vase with the marbles will allow a greater imbibition and capillarity to the water because it leaves more empty space between one marble and the other, which is filled by the water upwards, starting from the bottom of the vase, while with small grains we would probably have a superficial imbibition on the upper layers but little capillarity, depending on how small and compact the grains are. Similar objects can be found similarly used in agriculture from a chemical point of view, with the application of potassium-based polymers which are spherical nanoparticles that settle into the soil and increase the soil structure, depending on the temperature. It is plausible that our frequencies achieve the same result as a better structuring of the terrain, but without using any additional system.



## DURING THE COMPARATIVE TEST OF NEWLY PLANTED SEEDS, IT WAS NOTED THAT SEEDS TREATED WITH KPB TECHNOLOGY OFTEN DO NOT GROW AS WELL AS THE CONTROL SEEDS. IT SEEMS THAT THEY HAVE BEEN "WATERED TOO MUCH". WHAT COULD BE THE EXPLANATION?

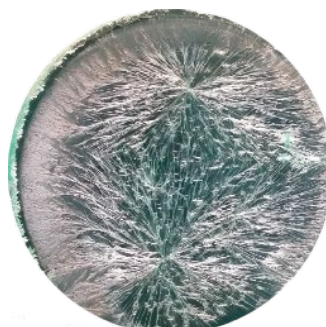
The seeds do not need to be irrigated in the first phase because the exchange of water takes place inside the seed itself, which does not change on the outside until it has developed a root system. As the root system develops and begins to absorb water, our technology creates an enhancement of water assimilation, which could "drown" the plants, but the important point to understand is that this does not happen because of an insufficiently developed root system, but because of an underdeveloped foliar system. In fact, KPB technology keeps the presence of water in balance through foliar transpiration. For this reason, the use of the technology during sowing is not recommended, but it should instead be used on plants with a root / foliar apparatus that is already minimally developed.

## WATER CRYSTALLIZATION ANALYSES REVEALED AN IMPROVEMENT IN KPB TECHNOLOGY TREATED WATER. HOW DOES THIS TYPE OF ANALYSIS WORK AND WHAT DOES IT HIGHLIGHT?

Crystallization analyses consist of freezing the water sample at low temperatures in a short time to make a kind of "photograph" of the structure. This photograph has no relevance from a chemical point of view, but only from a physical point of view, as the consistency of its structure can determine its positive value if observed by a laboratory technician competent in this type of test.



Control Water



Kyminasi Water



## TO SUM UP, HOW COULD ONE DESCRIBE THE ACTION OF KPB TECHNOLOGY?

The simplest possible explanation could be that because water is a polar molecule (positive-negative pole), it creates a magnetic field during the flow which passively extracts the signals from the micro-transmitters. Then the signals are transported from the water to the earth, which retains the treated water and transfers it to the plants through the root system. Once the water is absorbed, the information becomes part of the biological system that uses it as new guidelines for behavior, improving its performance and using it to its advantage to keep itself in balance naturally.

# Testimonial

"I noticed that the plants irrigated with the Kyminasi Plants system sprouted faster and grew faster than the control group... At about 6 weeks, the control group with normal water was significantly smaller and less green than the Kyminasi Plants group.

We are excited about the potential of this technology for agriculture in South Africa."

### **Piet Botha, Johannesburg, South Africa**

"I conducted an experiment using Kyminasi Plants on tomatoes. A cold wave occurred which caused the death of all control plants due to a fungus. However, almost all but a few plants irrigated with Kyminasi Plants survived.

I have performed several other tests on other crops. Plants treated with Kyminasi Plants grew faster, appeared healthier, and yielded better fruit than any control group.

Lettuce was thicker and longer than the control groups. Pumpkin cultivation grew faster and fruited early, allowing me to get a crop, unlike the control group which died before fruiting, due to an early frost. I also picked one more pumpkin at the end of the season with Kyminasi Plants.



I also had watermelons with a Brix value of 14 (my normal value is 11-12) and 19 Brix for melons (compared to 14).

I am proud to have been one of the first to use this technology and I am sure that I will be using it for many more years."

### **Art Heinemann (Farmible Acres Farm), Tonasket, Washington, USA**

"I ran several side-by-side tests of the Kyminasi Plants system in my garden.

Overall, the plants of Kyminasi Plants have grown more quickly, becoming larger than the control plants. They also looked much healthier.

We ran another experiment indoors and saw a huge difference in insect resistance compared to the control planter."

### **JK, Florida**

"There was an area where the plants died, and in my professional experience they were irrecoverable.

I was extremely impressed when, in less than 3 weeks, with Kyminasi Plants technology, the entire area regained life and began to bloom and grow perfectly healthy.

The rest of my farm is growing faster, stronger, healthier and faster than I thought. I would never have believed it if I hadn't seen it with my own eyes. Seeing is believing"

### **Wayne P., Australia**

"We were running a time-lapse experiment on two plants side by side using an indoor LED lighting system. We used a mixture of organic soil and loam soil and planted wheat grass, cucumbers, and periwinkle flowers from seeds.

We planted about 10 seeds per variety per culture tank.

The purpose of the experiment was to show the difference in the growth rate between plants irrigated with Kyminasi Plants technology and normal water.

After a week, the experiment was interrupted by Hurricane Irma. We were forced to evacuate the office for 5 days. During this time, we were unable to water or otherwise care for the plants.

Results: Upon returning to the office, we checked the planters and noticed that the control planter was completely infested with insects - they were on the plants, in the ground and around the inner walls of the planter. The Kyminasi Plants planter was practically free of insects, despite being right next to the other planter."

### **Harvest Harmonics Corporate Headquarters, Florida**

"Our tests showed a 70% weight gain in a highly controlled professional environment. We never expected to achieve such an increase, given the remarkably high level already reached, without the use of this technology.

Pepper plants showed a higher flowering at the beginning of the season.

The most impressive results were the increase in harvest, the increase of the shelf life of products for 10-14 days. That's from first-hand experience, and the fact that this technology was helping plants create a self-sustainable ecological system. You should see it yourself to believe it."

**W. Bongiorno, Panama**

Date: April-May 2019  
Location: Minoprio Analisi e Certifications, Italy  
Commissioned by: Biomedic Clinic and Research  
Crops: Spring Barley

## Summary of Toxicity Trial

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After careful study, the researchers found that using the Kyminasi Plants Booster micro-transmitters system did not inhibit germination or growth of the plants. The research facility concluded that the differences in germination and growth of the plants was statistically insignificant, thus proving that the Harvest Harmonics system produced no phototoxic effects on the treated plants.

For full details, please see the complete report attached.



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**Subject: phytotoxicity test results of the technological application of the irrigation water activation - ref. MAC Offers 04/2019 to 05/2019**

## **PREMISE**

In relation to the offers indicated in the subject, an assignment was conferred to Minoprio Analisi e Certifications S.r.l. di Fondazione Minoprio (CO) to carry out preliminary experimental activities in order to verify the possible effects on the vegetative activity of a technological application of irrigation water activation implemented by you.

The experimental test carried out involved the implementation of a phytotoxicity test to assess any negative effects of water treatment.

The results of the present preliminary experimentation may lead to the definition of tests on a larger scale. The experimental test was carried out at the Minoprio Foundation facilities. The experimental methodology implemented, results and conclusions are shown below.

## MATERIALS AND METHODS

The job order included the realization of the following experimental test.

Spring barley test (ref. UNI EN 1608601\_2012)

The test aims to assess any phytotoxic aspects on germination / growth of plant species (germination and growth inhibition).

As a substrate, according to the reference standard, peat was used with a humidification degree of H3-H5 (Van Post scale), with addition of calcium carbonate for pH correction and 2.25 g of 18-11-18 fertilizer (N - P<sub>2</sub>O<sub>5</sub> - K<sub>2</sub>O).

Spring barley was used for the test. Sowing took place on 03/26/2019 in pots with a capacity of 750 ml (20 seeds / pot). The pots were placed in an iron / glass greenhouse (Hortiplus glasses), on pallets with ducts, with a minimum temperature of 12° C and aeration at 18° C. The pots were divided into two experimental theses:

- Specimen 1 (control): irrigation with tap water.
- Specimen 2 (test): irrigation with activated water.

For each specimen, 4 replicas have been prepared, with 3 replica pots (total 240 seeds / specimen).

For the first 5 days pots were covered with non-woven fabric and kept moist with nebulization\* (always differentiating the two types of irrigation water); on the fifth day, the germination rate for each pot was determined.

Subsequently the irrigation was carried on at first with a nebulizer and then with a watering can or a spray gun, always with the utmost care to avoid contamination between the plants of the different experimental theses.

On 04/23/2019 the fresh and dry (75° C) biomasses were determined for each individual pot (replicas 2, 3, 4).

\* Nebulization: watering via a mist or microjet spray

The results were subjected to statistical analysis to verify the possible presence of germination and growth inhibition.

Replica 1 pots were left in cultivation without irrigation until May 6th, 2019, date on which the irrigation with the two different types of water was restored.

The observation of any signs of recovery was kept active until May 15th, 2019.

On May 10th, on samples of treated and untreated water, the main irrigation water characterizing parameters were determined.

## RESULTS AND STATISTICAL INTERPRETATION

The following tables summarize the results obtained and the outcome of the processing of the same (analysis of variance and Duncan test: different letters correspond to significantly different values for P = 0.05).

Spring barley test (ref. UNI EN 1608601\_2012)

The results obtained highlight a significant absence of germination and growth inhibition.

Table 1 shows the results related to the germination rate. Data shows a significant results homogeneity (modest coefficient of variation) and a complete absence of germination inhibition using activated irrigation water (specimen 2).

Table 1: germination inhibition

thesis replica pot germinated seeds number germination rate (%) germination average rate (%) germination rate coefficient of variance germination inhibition (%)

1 - control	1	1	20	100			
1 - control	1	2	18	90			
1 - control	1	3	20	100			
1 - control	2	1	18	90			
1 - control	2	2	18	90			
1 - control	2	3	18	90			
1 - control	3	1	20	100	92.08	15.79	=
1 - control	3	2	17	85			
1 - control	3	3	17	85			
1 - control	4	1	17	85			
1 - control	4	2	18	90			
1 - control	4	3	20	100			
2 - treated	1	1	20	100			
2 - treated	1	2	20	100			
2 - treated	1	3	18	90			
2 - treated	2	1	17	85			
2 - treated	2	2	20	100			
2 - treated	2	3	19	95			
2 - treated	3	1	18	90	92.08	19.17	<b>0.00</b>
2 - treated	3	2	20	100			
2 - treated	3	3	18	90			
2 - treated	4	1	16	80			
2 - treated	4	2	16	80			
2 - treated	4	3	19	95			

Growth outcomes are shown in Table 2 (fresh aerial biomass weight) and in Table 3 (dry aerial biomass weight). Assuming that the reference standard indicates to quantify the growth inhibition on the fresh biomass weight only, the test conducted has provided the calculation also on the dry weight, considering this data more robust and reliable.

Table 2: growth inhibition (fresh weight)

thesis replica pot avg fresh wt (g) avg fresh wt / pot (g) plants nos. / pot plant fresh wt pot (g) plant avg fresh wt Pot (a) plant wt coef, of variance germination inhibition (%)

1 - control	2	1	22.26		19	1.17			
1 - control	2	2	20.02		19	1.05			
1 - control	2	3	15.78		19	0.83			
1 - control	3	1	20.61		19	1.08			
1 - control	3	2	18.07	19.124	16	1.13	1.019	36.74	=
1 - control	3	3	26.53		20	1.33			
1 - control	4	1	13.67		19	0.72			
1 - control	4	2	17.40		18	0.97			
1 - control	4	3	17.78		20	0.89			
2 - treated	2	1	15.07		20	0.75			
2 - treated	2	2	20.90		19	1.10			
2 - treated	2	3	16.50		19	0.87			
2 - treated	3	1	19.17		20	0.96			
2 - treated	3	2	13.89	17.088	17	0.82	0.938	23.72	<b>10.65</b>
2 - treated	3	3	18.29		18	1.02			
2 - treated	4	1	16.23		17	0.95			
2 - treated	4	2	19.91		19	1.05			
2 - treated	4	3	13.83		15	0.92			



Table 3: growth inhibition (dry weight)

thesis replica pot avg avg dry plants plant dry plant plant wt germination dry wt wt l pot nos.  
/ pot wt pot (g) avg dry coef. of inhibition (g) (g) wt pot variance (%) (ci)

1 - check	2	1	2.00		19	0.105			
1 - check	2	2	1.83		19	0.096			
1 - check	2	3	1.38		19	0.073			
1 - check	3	1	1.84		19	0.097			
1 - check	3	2	1.55	1.683	16	0.097	0.090	34.64	=
1 - check	3	3	2.19		20	0.110			
1 - check	4	1	1.18		19	0.062			
1 - check	4	2	1.58		18	0.088			
1 - check	4	3	1.60		20	0.080			
2 - treated	2	1	1.33		20	0.067			
2 - treated	2	2	1.82		19	0.096			
2 - treated	2	3	1.41		19	0.074			
2 - treated	3	1	1.69		20	0.085			
2 - treated	3	2	1.17	1.482	17	0.069	0.081	26.23	<b>11.95</b>
2 - treated	3	3	1.63		18	0.091			
2 - treated	4	1	1.36		17	0.080			
2 - treated	4	2	1.78		19	0.094			
2 - treated	4	3	1.15		15	0.077			

The results show a modest growth inhibition (10.65% for fresh weight and 11.95% for dry weight). It can be stated with certainty that this value is not statistically significant, meaning that the use of activated water has no phytotoxic effects on plant growth.

This statement is confirmed by the statistical analysis (ANOVA) carried out on the results obtained (Table 4) and the Duncan test results (95% confidence).

Table 4: Duncan test results with 95% confidence

Thesis Count Average fresh g Standard deviation Coefficient of variance Homogeneous groups

<b>1 - control</b>	9	<b>19.1244</b>	3.78339	19.783%	<b>a</b>
<b>2 - treated</b>	9	<b>17.0878</b>	2.60458	15.2423%	<b>a</b>

Thesis Count Average fresh g Standard deviation Coefficient of variance Homogeneous groups

Thesis	Count	<b>Average dry g</b>	Standard deviation	Coefficient of variance	Homogeneous groups
<b>1 - control</b>	9	<b>1.68333</b>	0.31301	18.5946%	<b>a</b>
<b>2 - Treated</b>	9	<b>1.48222</b>	0.254695	17.1833%	<b>a</b>

(if present, statistically different averages for P = 0.05 correspond to different letters)

The results of the water analysis carried out on May 10th highlighted the absence of significant differences for the main characterization parameters for irrigation water (pH, electrical conductivity, carbonates and bicarbonates, calcium, magnesium, sodium, SAR).

The results are reported in the attached Test Reports no. 19211/564 and 19211/565 issued on May 13th 2019.

## **COMMENT ON RESULTS AND FINAL CONSIDERATIONS**

The results of the growth test with spring barley showed no phytotoxicity of the water treatment system.

Available for clarifications and further details.

for Minoprio Analysis and Certifications

agronomist doctor Massimo Valagussa

(With the collaboration of Dr. Piero Frangi of the Minoprio Foundation)

Vertemate con Minoprio, June 10th, 2019



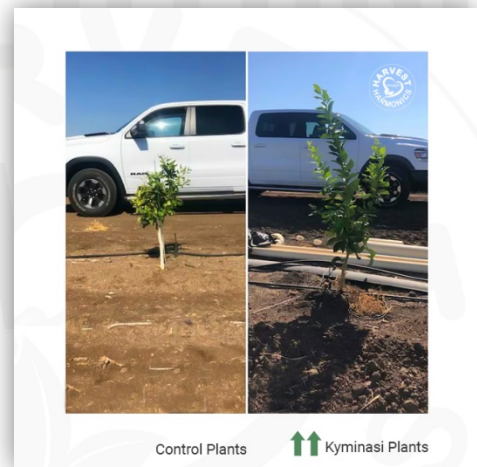
## Results in Citrus Trees – July 2020 Porterville, California

### Details

KR Citrus grows installed **Natural Kyminasi Plant Booster (KPB) Technology** to see if it would help bring them to maturity sooner. Despite installing in February 2020, he did not really begin irrigating consistently till late May 2020.

### Results

In just over 6 weeks of watering with the Natural Kyminasi Plant Booster (KPB) Technology, the owner noticed significant differences in the size and canopy density of his new trees. His trees were about the same size and canopy density as his neighbor's trees, which were planted a year earlier. This is a 100% faster growth rate (same size at 1 year vs 2 years compared to his neighbor's trees). He also noticed a deeper green in the leaves of his trees, indicating healthier trees. The owner was so impressed that he purchased another CB system for his mature 100-acre organic orange groves.



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## Melons Results – September 2019

### Edible Acres Farm, Tonasket, WA

#### Details

Edible Acres is a 12-acre organic farm in Tonasket, Washington USA. It lies on the northern border with Canada. Art Heinemann is known for the high quality of his fruits and vegetables. Art installed the Kyminasi Plant Booster on his farm beginning in 2017. He has tested the Kyminasi tech on several varieties of fruit and vegetables. In June 2019, he planted several varieties of melons. This was done from seed at the last possible moment to get a harvest before the weather turned too cold.

#### Results

The leaves of the vines were larger and standing upward, rather than running along the ground. He measured a 20% increase in yield and 3-4% increase in Brix over the prior years and the standard measurements for these varieties.



↑↑ Kyminasi Fields



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## Peppers Results – Sept, 2019

### Place: Edible Acres Farm, Tonasket, WA

#### Details

**Natural Kyminasi Plant Booster (KPB) Technology** increases production while improving the size and flavor of peppers. Edible Acres is a 12-acre organic farm in Tonasket, Washington USA. It lies on the northern border with Canada. Art Heinemann is known for the high quality of his fruits and vegetables. Art installed the Kyminasi Plant Booster on his farm beginning in 2017. He has tested the Kyminasi tech on several varieties of fruit and vegetables. In June 2019, he planted bell peppers and hot red peppers. After 3 months, the plants were producing 15-20 peppers per plant; 80% of which were fully grown. The peppers had consistent shape and ripeness. They tested at 10 Brix, which is 40% higher than the 5-7 average Brix for this variety.

#### Results

The plants were still blooming in September, which is at the end of his season. Art also noted that the pepper plants had so much energy that they were developing woody stems. This indicates that the plants were transitioning into perennials, which is highly unusual for his area (peppers usually only develop into perennials in warmer regions). See our CEO's interview with him here: <https://www.harvestharmonics.com/project/peppers/>



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## Peppers Results – Spring 2015

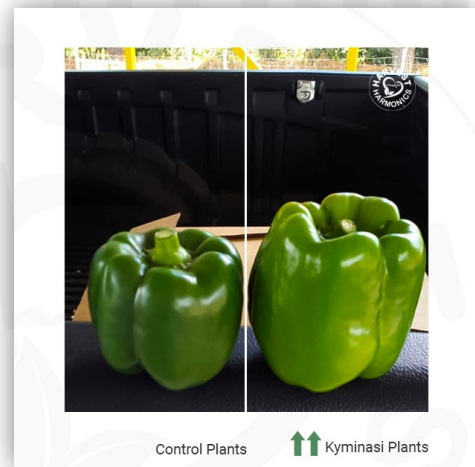
Place: Place: Pepper King Farms, Bajo Boquete, Panama

### Details

**Natural Kyminasi Plant Booster (KPB) Technology** increases yield by 70% by weight. Pepper King Farms is a farm in Panama that grows several varieties of bell peppers, onions, and other vegetables in greenhouses. Pepper King had been growing in greenhouses on the farm since 2011. They are the largest pepper farm in Panama. The owner installed the Natural Kyminasi Plant Booster (KPB) Technology is one of his greenhouses and compared the results of that greenhouse to his other greenhouses.

### Results

Kyminasi greenhouse produced 70% more peppers by weight versus the control greenhouses. The peppers averaged about 20%-30% larger than control specimens. The added weight resulted from a thicker skin membrane. An additional test was done on the fruit to measure the difference in the shelf life of the peppers. Similar specimens were placed on a shelf and allowed to decompose over 30 days. The Control peppers decomposed at the normal rate. The Kyminasi peppers decomposed at a rate 10-14 days slower than the control peppers, indicating a better shelf life and overall better quality than the control fruit. A disease-infested his greenhouses toward the end of the season and all control plants died within one week of exposure. The Kyminasi Plants showed more resiliency, living for an additional three weeks before finally succumbing to the disease. The owner Ariel Flores remarked that he had never seen plants fight off such a virulent attack before.



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## Results in Peppers – Dic, 2019

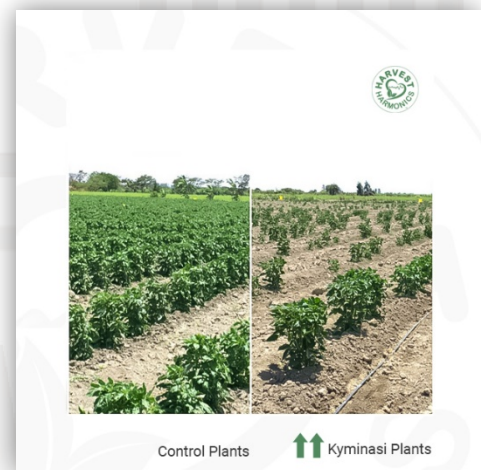
### Place: Guillermo Caceres Paijan, Peru

#### Details

**Natural Kyminasi Plant Booster (KPB) Technology** increases germination rate and flowering. Kyminasi Plant Booster was installed in a bell pepper field in December 2019. The field with Kyminasi Plant Booster and control field are comparable in size; about 10 acres each. The fields are adjacent to each other and were planted at the same time; approximately 1 month before the Kyminasi Plant Booster was installed.

#### Results

After just 16 days, the Kyminasi Plant Booster field germinated faster and more uniformly than the control field. The control field has many gaps where germination failed or was very slow. After only 16 days using Kyminasi Plant Booster, crops are flowering early, with more buds per plant than control. 30% more blooms than normal for that field (12 per plant average vs 8, which is standard). Plants show more vigor and the leaves and stems are darker green and healthier than control plants. See the video walkthrough of the fields here: <https://www.harvestharmonics.com/project/peppers/>



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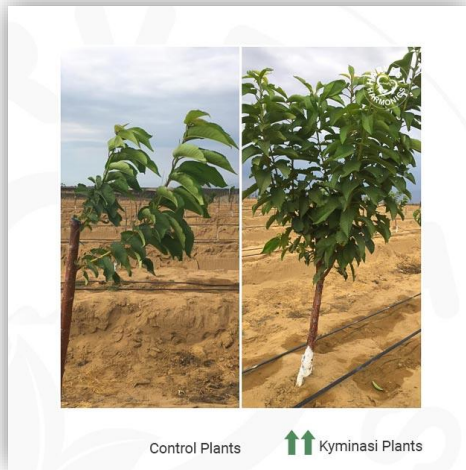
## Results in Cherry Trees - December 2019 Valle de Jequetepeque, Peru.

### Details

Agricola Cerro Prieto is a large plantation in Northern Peru. They grow avocados, blueberries, asparagus, and table grapes on over 3,200 hectares (43,750 acres). For the last 3 years, they have failed to grow high-value cherries.

### Results

Cherry trees produce after 3 years of non-production. After 26 days, the cherry trees were growing and showing signs of improvement. They dug up the soil near the trees and saw that the root volume of the Crop Booster trees was **50% more developed than the control trees.**



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## Results in Cherry Trees - December 2020 Fundo El Carmelo, Chile.

### Details

Kyminasi Plant Booster Technology was installed in a Cherry field.

### Results

At the end of the harvest, the Kyminasi plant's technology field obtained 25% extra production compared to the control field.

- Kyminasi Plants crop B field: 23.438 KG at \$6= \$140.628
- Control Range: 18.735 KG at \$93.675

The extra pounds and extra value in the price resulted in an additional profit of \$46.953 for the farmer per hectare.



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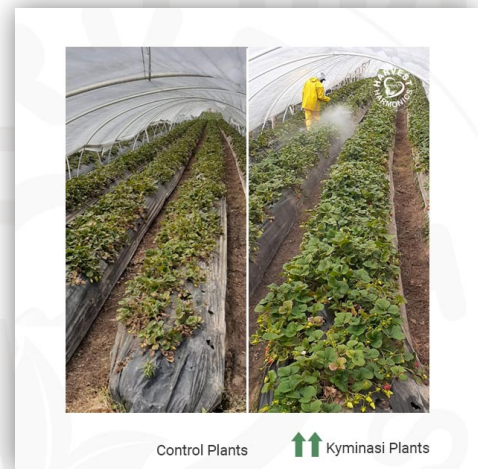
## Results in Strawberries – Aug 2020 Quito, Ecuador

### Details

Mr. Danilo installed CB with his strawberry field.

### Results

The farm was going through a very harsh summer. The heat is very intense. The plants are scorched and stressed. Using Crop Booster for only a month, the results were fantastic! The leaves were greener, healthier, and compared to the control field it was already bearing fruits! The control in comparison was very stressed plants and has no fruits. With these results, the owners of the farm have decided to buy Crop Booster for the rest of their field.



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## Results in Tangerines – December 2019

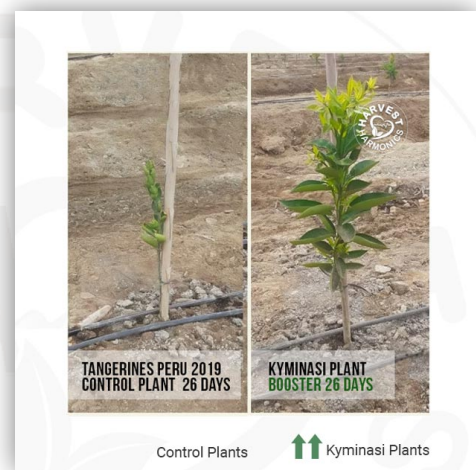
### La Calera Farm, Chincha, Peru

#### Details

“We installed Kyminasi Plant Booster on 1.5 ha (3.75 acres) of a grove of tangerines in December 2019 in Peru. La Calera has over 4500 hectares (11,250 acres) of citrus, avocados, table grapes, and other fruit.” Tangerine trees grow faster and flower earlier; **demonstrating a 30% increase in growth rate.** The tangerine seedlings were about a month old when the validation began.

#### Results

The Kyminasi Plant Booster trees grew faster, with more leaves, and even began flowering after 26 days. The farmer suggested that the growth of the Kyminasi treated trees resembled 3-month-old trees, not 2-month-old trees. The trees averaged 5cm taller. The leaves are much greener as well, indicating a much healthier plant than the control plant. See the video below: <https://www.harvestharmonics.com/project/tangerines/>



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## Results in Tomatoes – Sept 2017 Edible Acres Farm, Tonasket, WA

### Details

Edible Acres is a 12-acre organic farm in Tonasket, Washington USA. It lies on the northern border with Canada. Art Heinemann is known for the high quality of his fruits and vegetables. Art installed the **Natural Kyminasi Plant Booster (KPB) Technology** on his farm beginning in 2017. He has tested the Kyminasi Technology on several varieties of fruit and vegetables. In 2017, he planted heirloom tomatoes and did a comparison between a control group and test group watered with Kyminasi Plant Booster. In 2017 Kyminasi tomatoes survive a fungus attack.

### Results

After 4 weeks, low light levels and a fungus combined to kill all of the control plants. The **Kyminasi Plant Booster** plants survived, and when the light levels increased a couple of weeks later, they grew and started producing fruit. Watch his testimonial here: <https://www.harvestharmonics.com/project/tomatoes/>



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## Results Wheat – November 2019-March 2020 Rancho Santa Clara, Huamantla, Tlaxcala, Mexico

### Details

Rancho Santa Clara is a 250 hectare (625 acres) farm that grows corn, barley, and triticale wheat. **Kyminasi Plant Booster (KPB) Technology** was installed on Triticale wheat crop in comparison to an untreated plot.

### Results

The Kyminasi Plant Booster field grew much darker green, indicating more chlorophyll and better health than the control plot. The plant growth is much denser, which indicates a higher yield by weight than control crops. Harvest is expected in early March. **The estimated yield increase is 15-20%**. The farm owner is an agronomist and will be conducting soil tests, nutrient tests, and production yield calculations.



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## Plums Results – June 2020

### Alvarez Harvesting Visalia, CA

#### Details

Alvarez Harvesting grows several varieties of tree fruit. The owner Gabe Alvarez contacted us because one of his fields was underperforming. The plums in that field were not sizing up as they should, despite extra care. This threatened to ruin his yield, as he would either have to let that field go unharvested or leave the fruit on the trees longer and pay extra labor fees to pick that field later. He installed the Kyminasi Plant Booster system on the troubled field about 9 days before harvest. Within 3 days, he already noticed the trees looking healthier and the fruit started increasing in size. By harvest time, the Kyminasi fruit had come up to the same size as his other fields, and Mr. Alvarez was able to pick all of his fields at the same time, saving him a lot of money in labor costs. The plums measured 17-22 Brix, where his normal Brix is 15-17. This year, he only used one application of nitrates, fertilizers and herbicides. Normally, he uses 3 or more applications per year. This saves him about \$74 per acre on input costs. He is expecting to see larger sizing and better brix on his later varieties this year. He is also going to conduct Brix and shelf life on his Friar plums and nectarines as well.



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## Asparagus Results – Jun 2020

### Peru.

### Details

The Kyminasi Plant Booster was installed on 2.5 hectares (6 acres) of asparagus on one of the largest farms in Peru. Similar sections were compared, which had similar production over the last several years.

### Results

During the 30 day harvest, the Kyminasi Plant Booster field consistently produced more yield. The total harvest of the Kyminasi field was compared to the production of several fields. The Kyminasi field produced a total of 6,285 kg per hectare, versus 4217 kg per hectare on the control fields. The farmer is now using the Kyminasi Plant Booster on all of his crop varieties.



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## Asparagus Results – Jun 2020

Peru.

DATA Kgr/ha/day		
Harvest Days	KPB	Control
	T0	T1
1	14	21
2	61	22
3	196	139
4	315	203
5	538	344
6	681	371
7	403	288
8	288	193
9	234	181
10	261	200
11	300	209
12	246	158
13	224	224
14	208	160
15	258	204
16	271	218
17	286	185
18	363	167
19	268	238
20	257	128
21	287	139
22	182	139
23	143	87
	6285	4217



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# 200% Improved Water Penetration

Date: November 2020

Place: Paine Chile.

Details: **Kyminasi Plant Booster** installed on a grove of Almond Trees.

Results: After two months of irrigating, water infiltrated to a depth of 100 cm in 10 hours. Previously it took 12 hours to saturate to a depth of 40 cm. KPB treated water infiltrated three times faster, was 200% more efficient and resulted in a 66% reduction in water usage!

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WATER  
EFFICIENCY

