

## Why RebeARTH

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### Improve Your Yields and Product Quality Through Bio-Stimulation

RebeARTH helps the plant to reach its optimum productive power in a natural way, produce more and of better quality. It stimulates processes in the soil and the plant such as microbiology, genetics, photosynthesis, auto-immune, hormonal and (re)production. In the same process, the negative effects of various forms of stress that affect the productivity and health of the plant are strongly reduced or eliminated.

#### Eliminate Stress

Stress is a major cause of low productivity and bad quality products today. It interferes with several important processes such as the availability of nutrients, the micro life of the soil and the total development of the plant from root to fruit. RebeARTH eliminates stress, so the soil and the plant behave in a more optimal way, resulting in a significant increase in quality and productivity.

All crops are affected by some level of stress that interferes with their natural processes of productivity, plant health and harvest quality. Sorts of stress:

1. Phenological changes: germination, vegetative development, flowering, setting, fruit development
2. Agricultural practices: sowing, transplanting, pruning, flowering stimulation
3. Climate: dry, excessive rain, cold, heat
4. Nutritional excesses & deficiencies
5. Chemical application and poisoning

With RebeARTH these negative effects are reduced and productivity and health are restored to the soil and plant.

#### Improve Processes in the Soil and Plant

In the soil, RebeARTH stimulates and strengthens beneficial microbiology towards a natural balance, thus improving pathogen control. It stimulates root development, with more roots and absorbent hairs, the plant is able to nourish itself better in a natural way and produce important components of its defensive system. In that state a plant is able to defend itself much more against pests and diseases.

Besides increasing productivity, the final product of the plant (seed, leaf, flower or fruit) will have a higher concentration of solids. With more solids the final product is more resistant, of better quality (taste/color) and with a longer shelf life.

#### Proven Innovative Technology

RebeARTH is an advanced technology developed in the Netherlands over the past 20 years. With its origin in naturopathic medicine for human health it combines the functions and benefits of many natural inputs into one product. It works on the level of ionic charges, harmonizing charges to minimize the negative effects of nutrient and molecule excesses and deficiencies in the soil. With the combination of functions RebeARTH combines, we see increased availability of nutrients for the plant.

# The Benefits of Bio-Stimulation with Rebearth

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## Soil micro life

1. It accelerates the reproduction of beneficial microorganisms
2. It enhances the functions of the beneficials (N-fixation, solubilization, defense)
3. It creates limiting conditions for pathogens

## Root system (roots)

1. Stimulates growth in time and size
2. More production and stability of absorbent hairs (important for Ca)
3. Healthier roots, better resistance to fungi (fusarium, phytophthora) and insects

## Plant development

1. Faster natural growth (less braking) in various crops
2. More homogeneous plant size, less difference in height
3. Increases photosynthesis and protein production at all stages

## Plant Health

1. Strengthens all plant tissue, increases dry matter.
2. Strengthens auto-immune system (repellent, toxic, repair)
3. Reduces presence and damage from diseases and pests

## Productivity

1. Increases branching, number of flowers, fruit set, number of fruits and total kilos
2. Improves weight in dry matter (starch, protein, minerals) of leaf, fruit and grains/seeds
3. More export quality or premium product, less damage

## Harvest quality

1. Improves shelf life and resistance to pests, diseases and post-harvest dehydration
2. Improved taste due to greater variety and concentration of components in the dry matter
3. Sizes of produce are more homogeneous, more commercial

## Compatibility

1. Rebearth is compatible with all types of input, like fertilizer, pesticides and herbicides
2. Does not require a specific soil and water pH level
3. Can be applied as a foliar application in wet conditions and low sun/heat

## Pesticides and biological inputs

1. Rebearth reduces stress to the plant caused by pesticides without affecting its function
2. Rebearth has a synergy with biological inputs as well as fertilizers
3. Works great with bio-fertilizers, mycorrhizae, tri-choderma and soil improvers

## About Artificial Inputs, Cost Reduction and Testing

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### Fertilizers (artificial/chemical)

**We have seen in multiple trials that reducing NPK (mainly Nitrogen) and even eliminating fertilizers altogether still gives an increase in productivity and crop quality.**

But REBEARTH can very well be used in combination with any fertilizer, preferably Organic fertilizers. Although Rebearth improves plant conditions and nutritional efficiency, local conditions do vary.

### Pesticides

**For greater health of the soil, groundwater, plant, root system, foliage, flower and fruit, we recommend reducing the amount of pesticides since the application of REBEARTH will increase the self-defense system of the plant that seriously reduces the presence of pests and diseases.** For instance in Africa and South America, the application of Rebearth has proven to be very effective in eradicating Fall army-worm, Striga-weed, aphids, root-rot, nematodes, stem-borer and many common bacteria and fungi. **Eliminating pesticides altogether is advised.**

### Hormones

**We recommend minimizing or eliminating the use of hormones at all stages.** Rebearth acts as a de-stresser and gives the information that your plants genetics use to grow without stress, without being held back by nutrient or chemical excesses or deficiencies.

### Testing

**We advise testing with a Rebearth only test plot next to the regular method and monitor the results.**

**NOTE:** For best comparison. Be sure that run-off Rebearth treated water and or spray can't effect the regular treated crops. So keep control plot at enough distance and never at a down hill location.

### The Use of Rebearth in Agriculture Means:

1. **Organic and Chemical free Plant and Soil care**
2. Higher germination percentage (especially with seed treatment)
3. Faster, wider and better quality vegetative development
4. Reduction of soil fungal damage
5. Better flowering and setting, more commercial fruit
6. More homogeneous fruit development per plant
7. Reduction or illumination of most invaders like: aphids, thrips, whitefly, leaf-miner, Fall Armyworm, mildew, Striga-weed (takes more seasons), many bacteria and fungi
8. Heavier fruit, dry matter, more compact
9. Brix level can increase, if too low. In case of good Brix, the taste is improved by increasing acids and proteins in the pulp
10. Longer shelf life and stress resistance in logistics
11. **In Short: Rebearth is a Vitalizer for Soil and Plant**

## Application Guidelines For Optimal Performance

**Rebeart works through Bio-stimulation without physical molecules. If the product evaporates it can't function. This is why it is of great importance to take into account the following application guidelines for Rebeart to work.**

### Make sure the soil is wet

**Rebeart ONLY works when applied on a well moistened soil.** The moisture in the soil is needed to conduct the bio-stimulation effect. Only apply Rebeart after rain and preferably at the end of the day.

**Without rain: Water the soil first, then apply Rebeart diluted in water in the given dilution.**

### Make sure Rebeart gets into the soil

**Rebeart has to penetrate the soil and mix with the water in the soil.** Applying the product on top of a layer of weeds or leaf litter prevents it from penetrating the soil. If the Rebeart evaporates in that condition, it will have no further effect. Clean the ground or root area and ensure that the application is directly to the soil.



### Apply Rebeart to root zone along drip-line

**Rebeart has to reach the roots of the plant.** Rebeart works in the direct area surrounding the plant, it affects the rhizosphere and has to touch the roots to support them so that the product is absorbed. In case of trees apply around the drip-line, where most roots with absorbent hairs are.

### Make sure the irrigation system works well

**In case of drip irrigation make sure ALL nozzles work well and aren't covered.** The irrigation water has to reach the soil and the root zone of the plant.

### When used with fertilizers and other inputs

**Rebeart can be mixed with any product, including systemic and biological fungicides.** It is not affected by pH or temperature. The only thing that affects it, is if the product is frozen. Applying Rebeart with fertilizers has a synergistic effect and reduces operating costs if less fertilizer is used.

**We recommend using at least 50% less artificial fertilizer and do tests without any.** Applying on top of granular fertilizers in the soil also has the same synergy. We recommend mixing Rebeart with fertilizers if possible. The use of microbiology and organic inputs in conjunction with Rebeart can also be beneficial to the plant, Rebeart enhances the effectiveness.

### Foliar application

**Foliar application can be useful as a support to soil application.** We advise more than half of the application to be made to the wet soil. It can be combined with microbiology, soil improvement or systemic fungicide applications. Foliar application works better with a coagulant that helps penetrate the product into the foliage.

**To avoid evaporation apply with little or no sun or heat, in the early morning or at the end of the day.**