



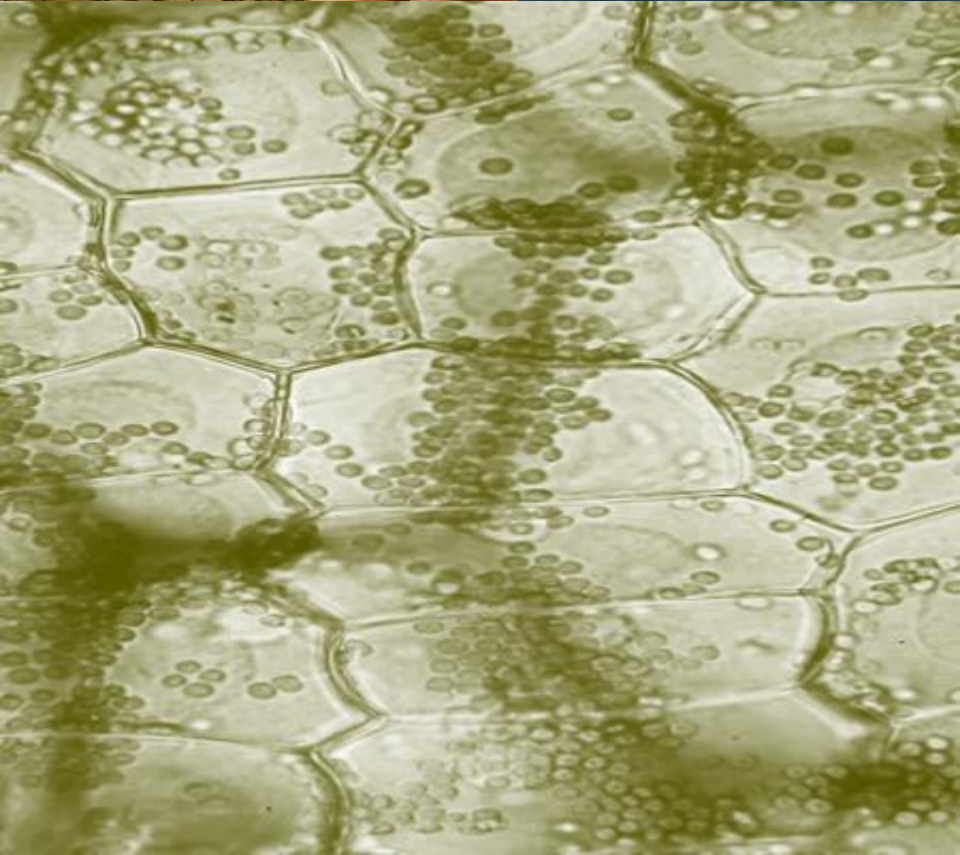
THE PROBLEM

Today, our planet faces many
CHALLENGES
which put various types of
STRESS on plants.





THE PROBLEM



PLANTS ARE SEVERELY AFFECTED BY STRESS

Physiological functions diminish
Hormones are imbalanced
Antioxidant enzyme activity is reduced
Photosynthesis is decreased

AS A RESULT

Nutrient uptake is reduced
Immune system is suppressed
Susceptibility to diseases increase

YIELD & PLANT QUALITY DECREASE

Chemical fertilizers cannot
alleviate these negative effects,
they even create pollution and
health risks.



OUR PURPOSE



Climate-smart bio-inputs for sustainable agriculture

PRODUCE CLIMATE-SMART BIO-INPUTS
to stimulate the natural processes in order to

- improve the quality of the soil,
- enhance the nutrient uptake and use-efficiency,
- increase plant tolerance to stress and diseases

WHICH IN TURN
increase the crop yield and quality while
decreasing the use of chemical fertilizers
and pesticides.



OUR SUSTAINABLE SOLUTION

Wide range of bioactive compounds

➤ Mariker products contain **a wide range of bioactive compounds that work synergistically** to cope with plant stress, regenerate soil and increase yields.

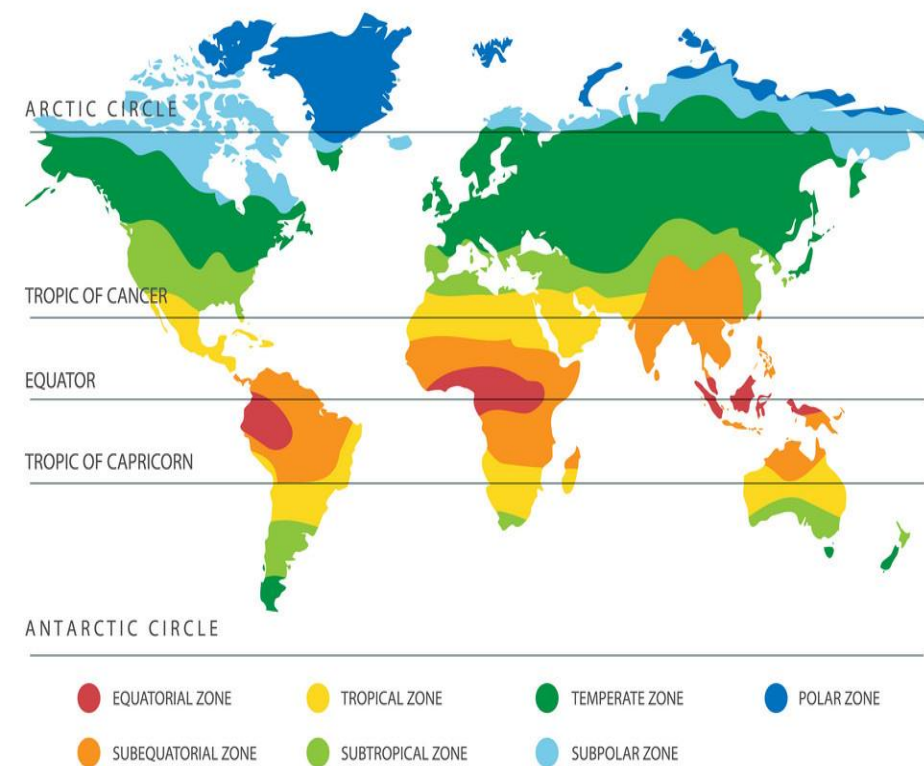
➤ **Our innovation** comes from the precise formulations that create the synergism between common biostimulants and selected **enzymes, phytohormones, beneficial microorganisms**

➤ **Validation**
 ✓ We conducted field studies under different climatic and soil conditions.
 ✓ We conducted greenhouse studies
 ✓ We published 200+ scientific articles

➤ **Our products boost plants' immune system and improve nutrient uptake efficiency:** plants become more resilient to stress, increased resilience increases yields.

➤ **Our products contribute to regenerative agriculture :** improve soil health and fertility, protect water resources and biodiversity.

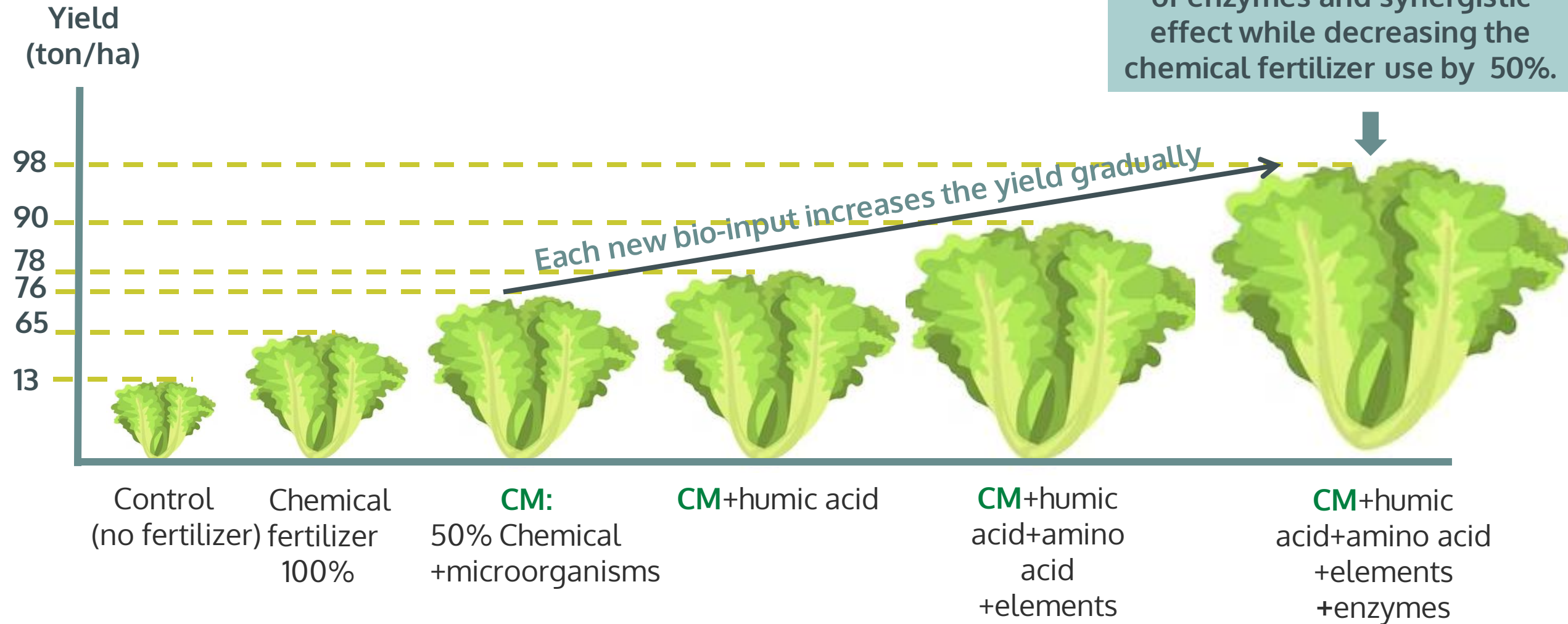
➤ **Our products**
 ✓ **reduce the use of chemical fertilizers and pesticides:** less carbon emission, less pollution
 ✓ **bioremediate soil:** pollutants are removed



CASE SOLUTION

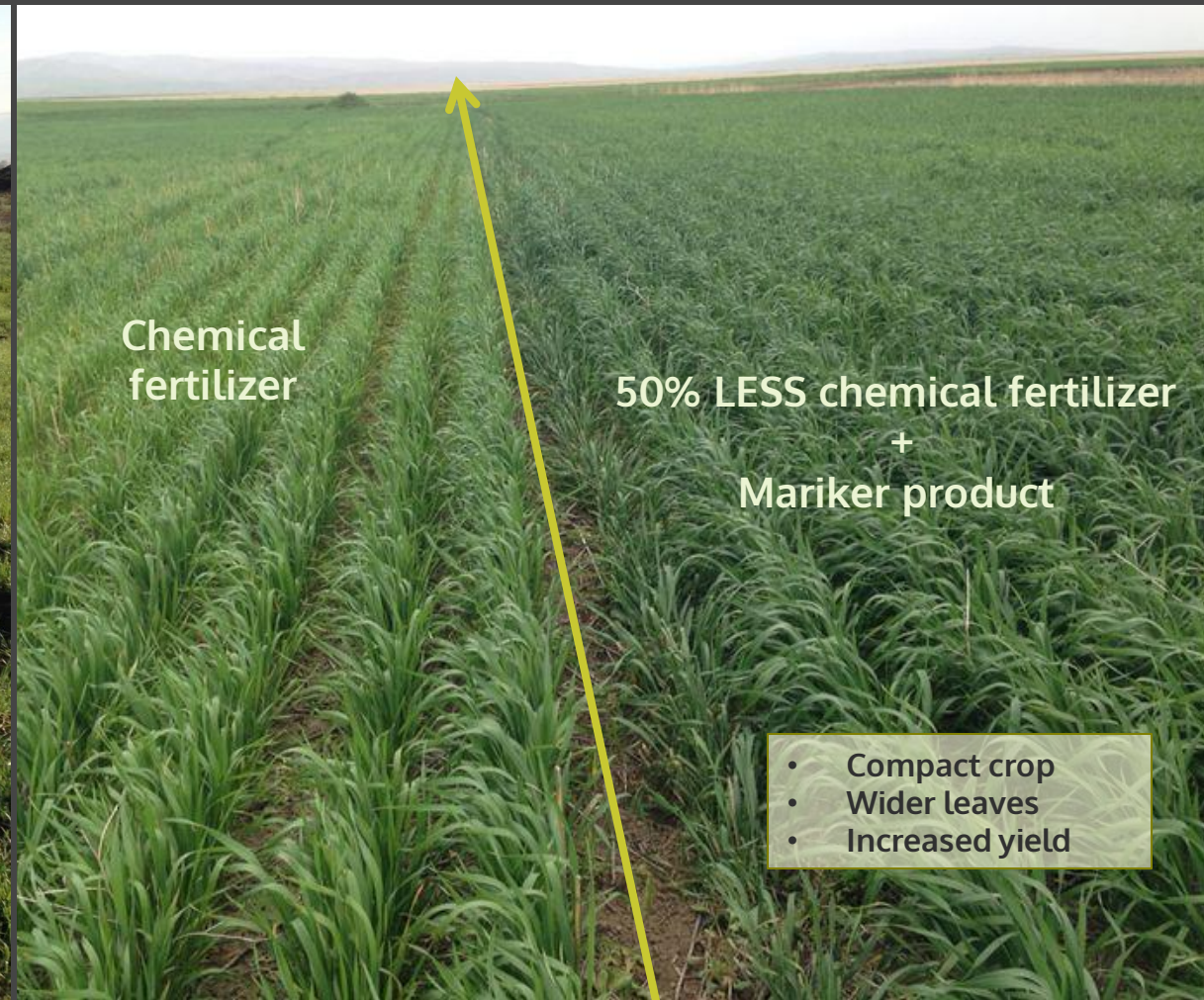
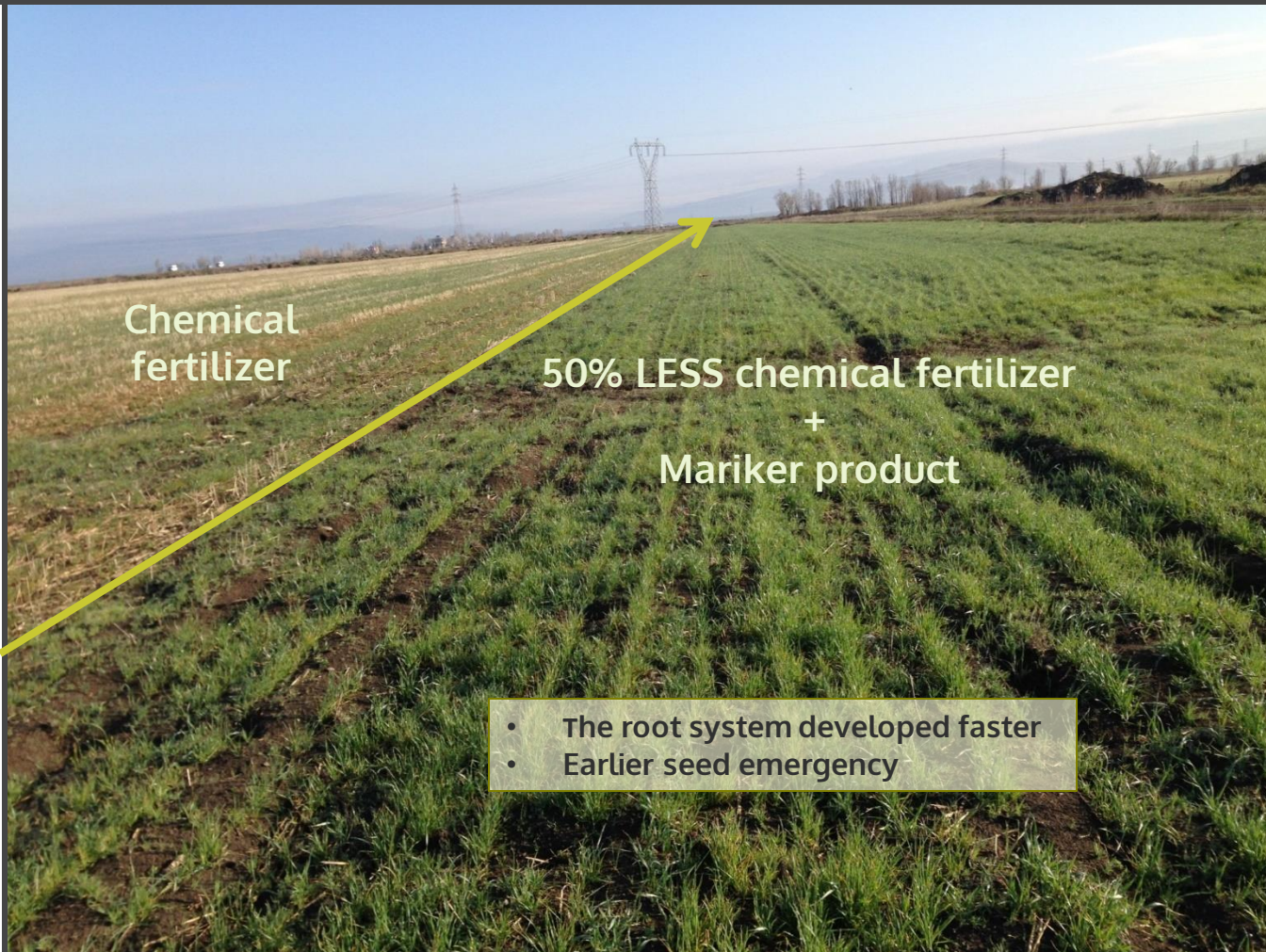
Lettuce Field

We achieved the highest yield (7.5 times) due to the presence of enzymes and synergistic effect while decreasing the chemical fertilizer use by 50%.



CASE SOLUTION

Winter Wheat Field, degraded soil

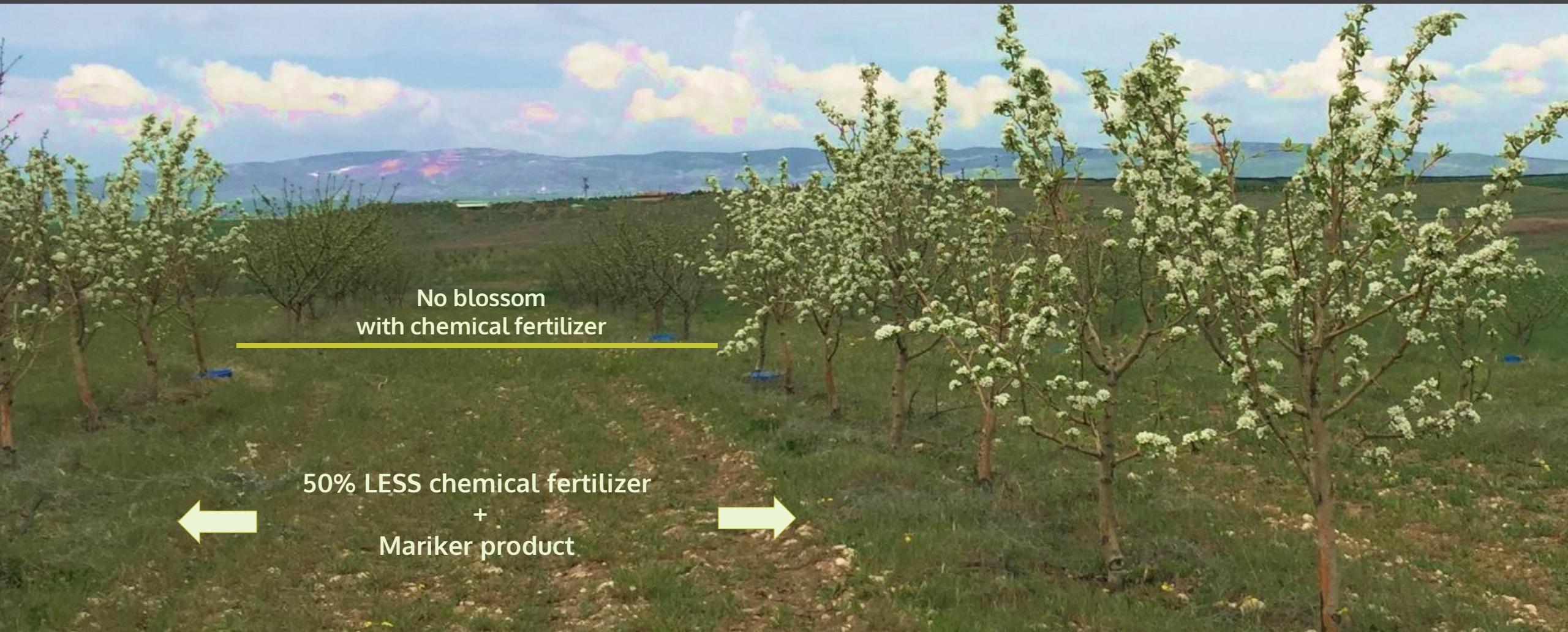


YIELDS: 100% chemical: **5960 kg/ha**
50% chemical+ Kiana: **7315 kg/ha**
Difference: **1.355 tons/ha**

Degraded soil: Biodiversity is low,
salinity is high,
lime content is high (pH>7.5)

CASE SOLUTION

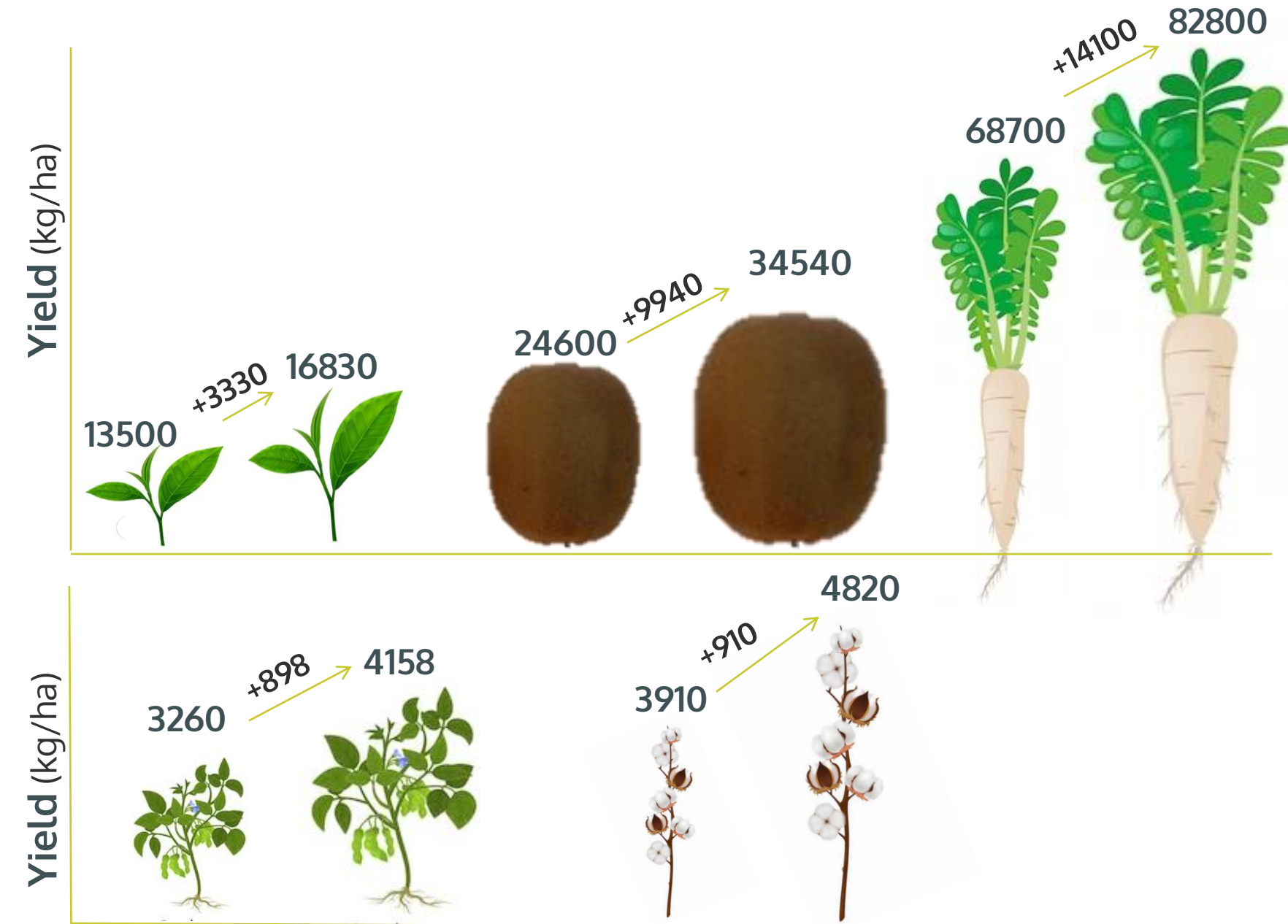
Cherry Blossom Field, cold stress



100% chemical: 0 kg/ha
YIELDS: 50% chemical+ Kiana: 18400 kg/ha
Difference: 18.4 tons/ha

Without cold stress 100% chemical:
15300 kg/ha

CASE STUDY RESULTS



Significantly increased yields with Mariker products and 50% less chemical fertilizer compared to 100% chemical fertilizer application in

- ✓ tea
- ✓ kiwi
- ✓ sugar beet
- ✓ soybean
- ✓ cotton