



BIOTREX

FOR FOOD COMPANIES

An opportunity we all miss

One teaspoon of soil contains a few billion microorganisms. They build a thriving ecosystem, working in unison with plants, animals, and sometimes humans. We have been harnessing their powers for millennia, but only in the last decades have we become aware of their real potential. The biology of the soil is the deciding factor in effectiveness of agriculture.

Soil microbiology has the answers to the most pressing problems in today's agriculture. They take up the role in which they always excelled - regulating the ecosystem.

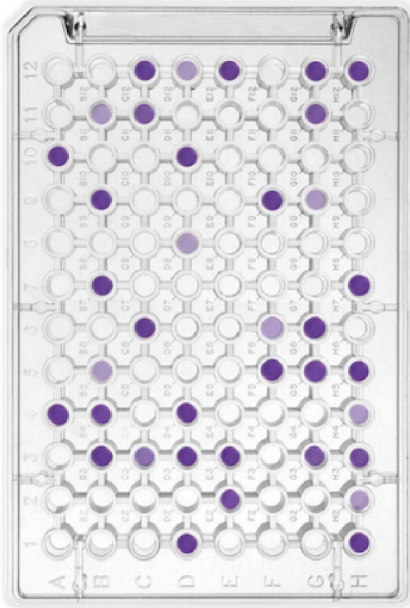


Microorganisms help store carbon in the soil. The humification process creates organic carbon in the form of humus. The decomposition process of organic matter is driven by specialised microbial workers. The more we care about them, the more carbon dioxide will be sequestered beneath the surface.

Microorganisms make our food more nutritious. Biodiversity in the soil manifests itself in the vigorous processes of mineralisation and bio-mobilisation. The plants' vitality depends on them. There are a lot of different mechanisms that make it possible. The plants that grow from the soil will be healthy and nutritious only if the diverse microbiome provides the wide variety of nutrients that they need.

Microorganisms make the soil more resilient. They are the driving force behind soil creation. Preventing soil degradation is inherently connected with the protection of the microbiome. A healthy, active and biodiverse ecosystem will be sustainable in the long term.

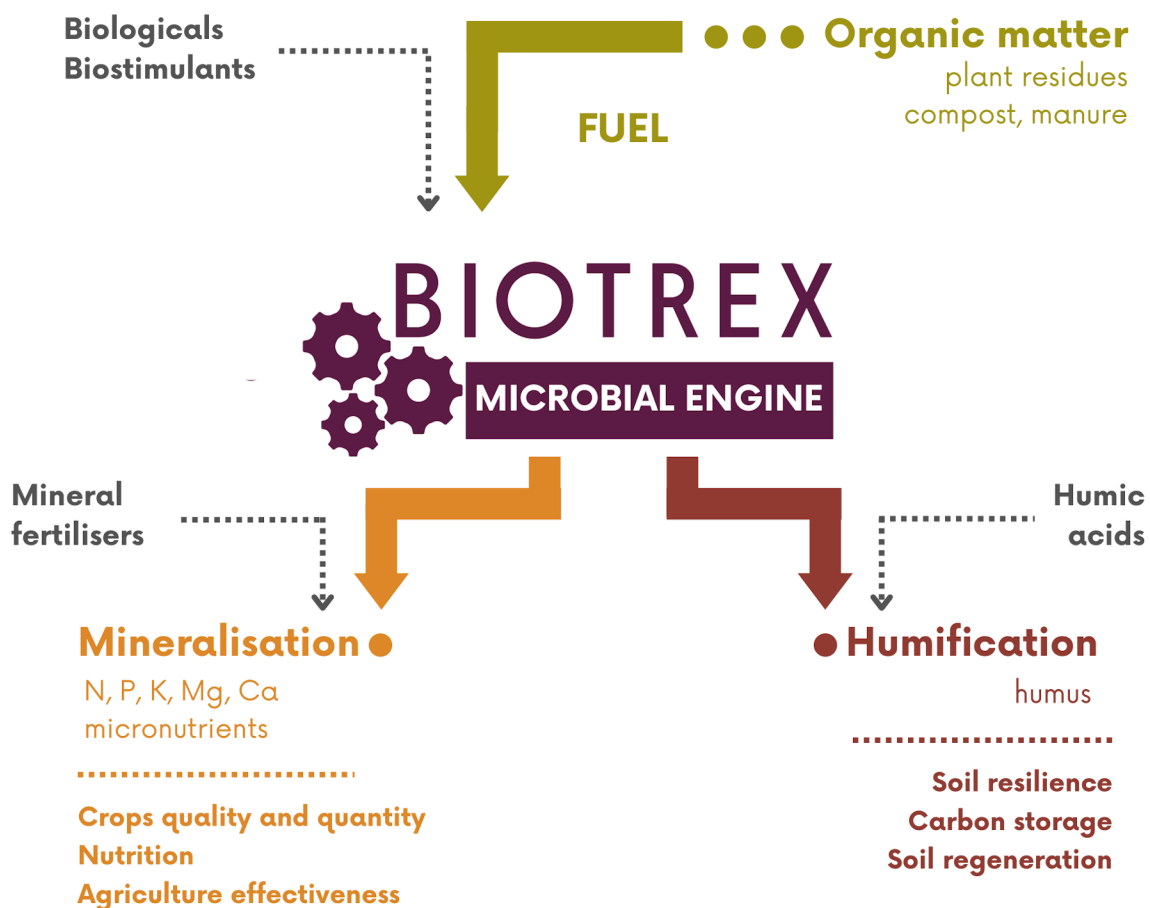
Science behind BIOTREX



A universal microbiological soil health indicator

We measure soil microbiome biodiversity and activity. Our approach is the holistic evaluation of the entire soil microbial community. The soil microorganisms are observed while digesting 95 different carbon sources. How and why? We are thrilled to tell you! Simply ask us or visit biotrex.eu. There is a lot more science than can fit on this page, but we are happy to talk about it!

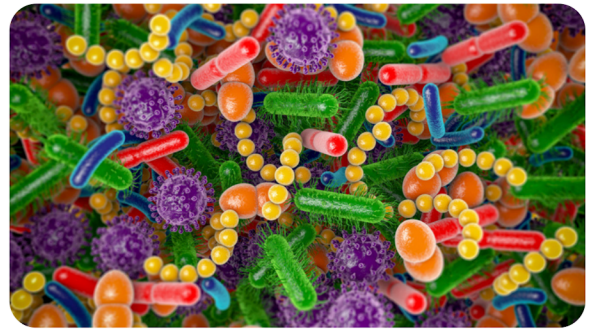
Biodiversity-oriented farming is aiming towards accelerating the natural processes that drive soil fertility. Most of the sustainable and regenerative agriculture practices are based on facilitating this process, but they lack sufficient indicators and are tested only with long trial and error research.



BIOTREX index

Easy, quick and meaningful indicator

The microbiological ecosystem in the soil is more than the sum of its parts. The complex interactions between the microorganisms, their environment and plants are what make it special. BIOTREX takes all this complexity and summarises it in one number - the BIOTREX index. It is easy to compare, analyse and understand. We provide a colour scale which helps to interpret the result. The index is precise enough to notice even the smallest changes, but no science degree is needed to apply it in practice.



BIOTREX index in the field

intensive agriculture



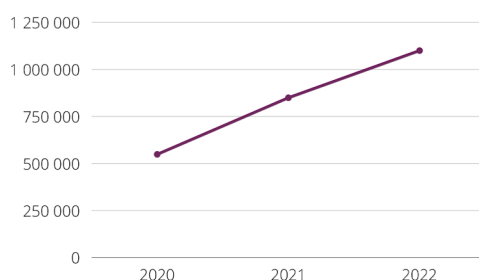
This soil is lacking in microbial life. There is high risk that it will degrade over time. The work needed to produce the crops will be extensive.

sustainable agriculture



This soil is rich in microbes. It can be improved, but at the moment the risk of degradation is low. Less work needed to produce enough crops.

regenerative agriculture



This soil is in the process of being improved. The microbial life starts to flourish. Yield and crop quality are expected to improve drastically. The practices are working well and the microbes are the first to appreciate it.



Using BIOTREX to grow your potential

BIOTREX is a ready to use solution for biological soil analysis.

1. You choose the fields and take samples.

We can help with this. The better we plan the trials, the more knowledge you gain. You don't even have to leave your office, we can take care of everything.

2. The soil is analysed in SomiGRO laboratory in Poland.

It takes no more than two weeks from the fields to the results. This is when the science happens - bring a lab coat and a pair of gloves.

3. You receive the report.

You gain the knowledge. This is when the real progress begins. From now on you are allied with the microbes.

Order and know in a matter of days

BIOTREX is immediately influenced once regenerative agriculture practice is incorporated. The path from the decision to evaluate to the final results can be made in two weeks. The results are comprehensive but the wait time is short!

Build your scale and set your goals

It's easy to create your own soil quality scale with BIOTREX. We can do this for you! We will help you set your own goals, interpret microbial improvement and the value this brings for your customers and the environment.

Build promotional materials

BIOTREX is not only a tool for conducting accurate research projects, but also communicating the results. Soil Mark and BIOTREX index are effective branding tools. Report sustainability progress with the right utilities that we provide.

Integrate data from other sources

BIOTREX can be incorporated into existing analytical models. Multiple parameters of the soil and crops can be co-analysed. We cooperate with a multitude of researchers to provide insight into the soil, nutrition and environmental impact.

BIOTREX for your needs

Screen your suppliers' practices and give them a tool to improve them

Microbial activity and diversity can be great indicators of regeneration efforts' effectiveness. BIOTREX makes working on sustainability with your contractors and suppliers transparent and efficient. Comparing and sharing practices between your suppliers can bring your efforts to the next level.



Show your efforts in striving for the better product from the ground up



All of our food starts its journey in the soil. Striving for the best quality and nutrition starts there. To show the efforts for sustainability, health and nutrition, we have to use indicators. BIOTREX lets you share the effects of your efforts with your customers, suppliers and contractors.

Take a holistic look at the environmental impact and find innovations

The challenges of sustainability can only be overcome with innovation, effort and knowledge. Environmental impact can be both negative and positive. BIOTREX can help you choose and evaluate solutions for regenerating the soil. What if compostable packaging could boost the soil microbiome in the long term?



How to start using BIOTREX today

Test it. Know it. Utilise it.

BIOTREX is made to be a tool in your hand. It is ready to use for you - starting today. The report is delivered within two weeks from sampling. Incorporating it into reporting systems is easy. The results are precise and transparent. It's easy, it's quick, and it's meaningful.

Starting soil analysis seems to be difficult.

With us, it isn't!

Here is what to do.

First, get in contact with us. The details are on our website and on the back of this page. We will help you with everything.

We offer a lot of samples and blind tests at the beginning of a collaboration. **We'll get to know each other!** We work towards a common goal.

When we are ready to start a project, it doesn't get more complicated. We offer a range of coordination and advisory services - **from the field to the final report.**

If you want to seamlessly add any other testing methods, it's easy too! Our goal is soil health, so we cooperate with a multitude of soil testing companies to provide you with **comprehensive insight into crops, nutrition and soil quality.**

And yes, you can have the results on a satellite map! We provide custom reporting and all other support you might need.



People behind BIOTREX

Japanese roots

The method was invented by Dr. Kazunari Yokoyama, a former researcher at the National Agriculture and Food Research Organization (NARO). Based on his research, DGC Technology commercialized it in 2010, and over the last decade, BIOTREX has been used in over **20,000 cases** by numerous farmers, corporates, and local governments in Japan.



Polish spirit

The European laboratory providing BIOTREX analysis is located in Poland. SomiGRO is a team of dedicated specialists ready to help you with your needs. Since the start of the cooperation in 2021 we analysed samples from Netherlands, Germany, Spain, France, and obviously Poland. If you happen to be in Warsaw, feel free to visit us anytime!



Let's discover together
what BIOTREX can do for you!

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