

We bring people, animals, plants and their environment in balance with hydrogen and oxygen infused water.

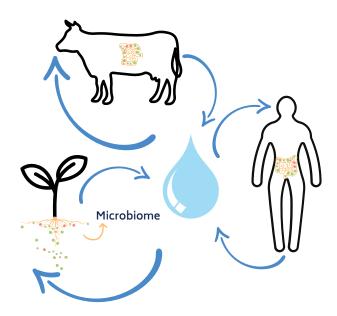


#### People, animals and plants

All life consists of a body with a microbiome that absorbs food and water and excretes residual substances.

We are also all part of the same water system. What one organism excretes affects what the other organism takes in. And that directly affects the balance and effectiveness of the microbiome. Unhealthy stressors such as bacteria, fungi, chemicals and toxins cause oxidative imbalance.

We focus on balancing regulated water systems with hydrogen and oxygen infused water. This invites good bacteria and other complementary organisms into the microbiome. In addition, it is an antioxidant.

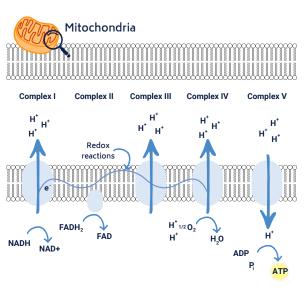


# The goal is to achieve a balance between oxidants and antioxidants

Every living organism is exposed to oxidation and antioxidation. If an imbalance arises, we call this aging.

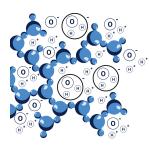
### The mitochondria are the powerhouses of our cells

Energy production in mitochondria is complex. Different parts of the cell work together to break down nutrients. The processing of glucose into energy (ATP) takes place in the mitochondria. If an oxidative imbalance occurs, the mitochondria work less well and the cell can eventually die. By creating a good balance between oxidants and antioxidants, the redox reactions harm as less as possible and the cells remain healthy.



## Hydrogen and oxygen infused water

We make infused water with our forced dilution technology. This is water with dissolved hydrogen and oxygen molecules that can be absorbed directly. In addition, nano particles allow us to add more hydrogen and oxygen and allow the molecules to travel further.



We can also enrich the water by dissolving other gases and liquids such as CO2, bases and acids.

#### **Plants**

The use of hydrogen and oxygen infused water ensures, among other things, that plants:

- Recovery faster from, for example, insufficient light
- Have a higher resilience
- Absorb nutrition better, so that less or no fertilizer is needed
- Require fewer to no chemicals and pesticides

Furthermore, a self-cleaning water system is created that is in balance and can be made circular.

#### **Animals**

Our infused water can be used in the water supply for animals. This has, among other things, the following effects:

- Increased resistance and less or no additional resources such as antibiotics are needed
- Reduced health problems such as stomach problems where methane gas is released
- Unwanted organisms such as lice stay away



#### **People**

We use our technology to accelerate recovery after an event on a therapeutic basis.

This can be in the form of night therapy or short therapy with sessions of 15 minutes. This involves inhaling hydrogen and oxygen in combination with drinking infused water.

#### We work cloud based

We connect the different systems to make them controllable.

#### Real-time insight



Our dashboard easily collects and combines the information from all sensors and systems to provide real-time insight.

#### From reactive to proactive



Integrate the insight in the current and future condition with existing processes to move towards condition-based control.

#### Continuous improvement



Search continuously for opportunities for operational improvements, supported by Machine Learning and Artificial Intelligence.

We are in TRL 7, 8 & 9
Our products comply with all relevant
European standards and regulations

www.fundamental.systems solutions@fundamental.systems +31 6 439 735 39







