



Press release

A totally innovative and natural technology to rehabilitate polluted sites

The economic losses caused by soil degradation are estimated at around 10% of the world's GDP

A Swiss company at the forefront of innovation in sustainable development, Exlterra (Excellence for the Earth) has developed a revolutionary technology that makes it possible to clean up a polluted site without the traditional removal of soil and without using any chemicals or other products. This is achieved by harnessing forces and renewable energy sources present in nature. This method does not require energy consumption and does not require any maintenance. This technology has already been successfully deployed at a site known for its high pollution levels. The first extensive results with this disruptive technology will be unveiled in April 2021. They are already proving to be astonishing and very promising for our planet and our ecosystem.

Geneva Switzerland / Hazel Park (Detroit), MI, USA - March 3, 2021 - The technology developed by Exlterra to clean-up contaminated soils enables the treatment of all types of soil pollution, whether accidental or related to the global increase of human activity on earth.

This technology has already been successfully installed in 2019-2020 in partnership with a world-renowned research institute, which is responsible for evaluating and validating the results. These results are in line with Exlterra's forecasts and confirm the effectiveness of this natural breakthrough technology.

The Exlterra system is very simple to install in the ground. It uses the properties and renewable energies found in nature and, in particular, considerably accelerates the natural decomposition process of contaminants in the soil. Two innovations in this family of technologies have already proved their effectiveness and are marketed in both Europe and the United States: NEPS (Nutrient Enrichment Passive System) to tackle soil impoverishment and GEPS (Groundwater Energy Passive System), manage stormwater issues. These innovations are based on the unique expertise and understanding of living systems developed by Exlterra.

Soil pollution: a major problem with far-reaching consequences

The human, ecological and economic impact of soil pollution is considerable and exponential. These long lasting contaminations affects our health, compromises our food security and the quality of drinking water, alters biodiversity and contributes to the forced displacement of populations. The economic losses caused by soil degradation are estimated at around 10% of the world's GDP.

« Reducing pollution has become a central issue for most governments as the consequences are so disastrous, explains Frank Muller, CEO of Exlterra. We must learn to manage a heavy legacy while preserving the future. Cleaning up and remediating polluted land is therefore a major priority, in order

to make them viable again. Our solution demonstrates that we can do this without chemical artifacts and without condemning or displacing contaminated soil. We also know that today there is no solution for certain types of pollution. Our process is a natural response to this alarming situation.»

The negative impact related to soil pollution is tremendous ¹⁾ for :

- The economy: global economic losses caused by soil degradation are expected to exceed 10% of the world's annual GDP
- Desertification : the number of inhabitants in the most arid areas of the earth could account for 45% of the world's population in 2050
- Biodiversity: soil pollution directly disturbs ecosystems by affecting certain components of the food chain.
- Population displacement: soil degradation and climate change will have driven between 50 and 700 million people to emigrate by 2050
- The climate: in the first decade of the 21st century, soil degradation released between 3.6 and 4.4 billion tons of CO₂ into the atmosphere.

“Soil pollution is the result of nature's inability to absorb the amount of contaminants that accumulates,” adds Andrew Niemczyk, President and CTO of Exlterra. *“Exlterra is taking action, with the sole objective of developing the technologies of the future that use resources and natural properties whose potential is not yet harnessed, but which are already showing very promising results.”*

About Exlterra

Exlterra (Excellence for Earth), a Swiss based company with offices in Detroit (Hazel Park) at the forefront of innovation, develops, produces and commercializes sustainable technological solutions applied to the environment.

Based on the principles of effectiveness, simplicity, and sustainability, Exlterra's products harness nature's forces and renewable energy sources to operate and achieve tangible results. They are energy-passive and maintenance free. Those innovations tackle soil impoverishment (Nutrient Enrichment Passive System - NEPS®), manage stormwater issues (Groundwater Energy Passive System – GEPS) and remediate contaminated soils.

Specifically designed to install its technologies, Exlterra has also developed and produces HAZL® and MAZL, two ultra-light and compact drill rigs.

Since its foundation in 2013 following the meeting of Polish born US inventor Andrew Niemczyk and Swiss entrepreneur Frank Muller, Exlterra has been awarded eight patents and successfully installed its technologies on three continents. The company is active on the European, American and Japanese markets.

Exlterra – rebalancing nature to preserve life

<https://www.exlterra.com/>

Sources dealing with soil pollution

- Food and Agriculture Organization of the United Nations - Soil Pollution: A Hidden Reality <http://www.fao.org/3/I9183EN/i9183en.pdf>
- European Commission – Science for Environment Policy - In-depth Report: Soil Contamination – Impacts on Human Health

https://ec.europa.eu/environment/integration/research/newsalert/pdf/IR5_en.pdf

- Cleaning up Toxic Soils in China: A trillion-dollar question
<https://www.iisd.org/articles/toxic-soil-china>
- Soil Science Society of America
<https://www.soils.org/about-soils/contaminants>
- ¹⁾ Soil pollution, its effects on our future and what we can do to reduce it
<https://www.iberdrola.com/environment/soil-pollution-causes-effects-solutions>

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