

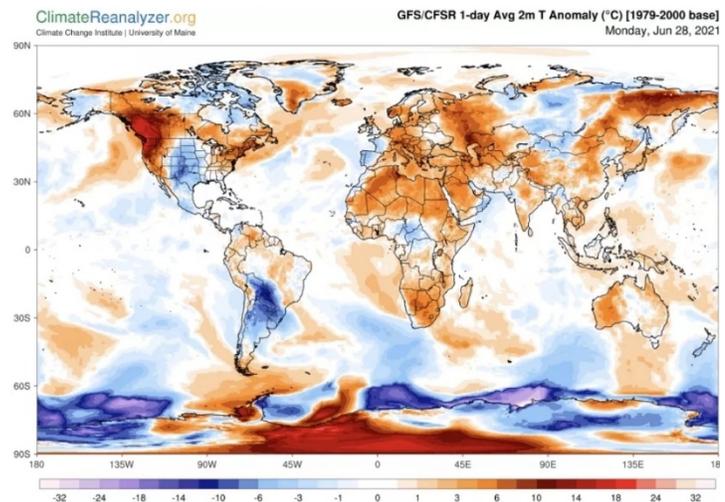
## Planetary emergency that can still be reverted if we act now!



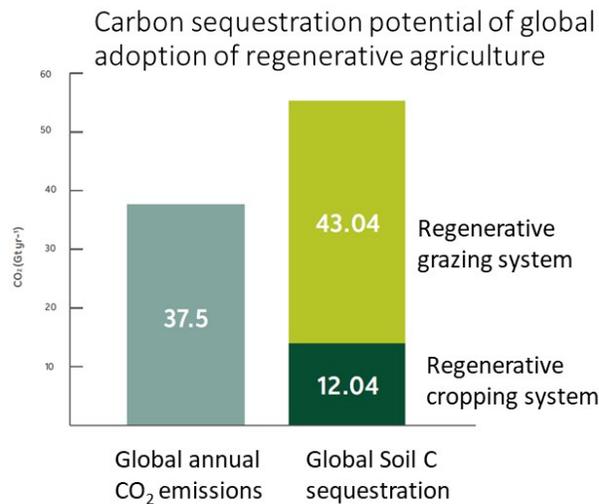
<https://newswp.com/global-warming-canada-faces-heat-wave-nearing-50-c/>

Over the last few days, we are witnessing severe changes in the weather around the world. While deadly, high temperature records are being broken in North America, in southern South America we are breaking records for abnormally cold temperatures, and the first cyclone in history forms off the coast of southern Brazil in June, in the middle of winter. Last year we experienced temperatures close to 40C north of the Arctic Circle and witnessed massive fires in Australia, Siberia, United States, Brazil, Bolivia, Congo, and many other countries. Scientists predicted years ago that we would soon enter what they call abrupt climate change or "hot house". For most people this is news without major consequences, and we see the world focused on China's cryptocurrency. However, humanity needs to wake up and start acting now, fast and at a global scale.

Extreme heat at high latitudes generates a chain of effects that are bringing us closer to tipping points. One example is the rapid thawing of permafrost, soils rich in organic matter that have been frozen, in some cases for thousands of years. As it thaws, the organic matter decomposes, releasing methane. This methane, in the first few years, has a warming capacity up to 80 times greater than CO<sub>2</sub>. This means that, locally, the temperature shoots up exponentially, melting even more permafrost, releasing even more methane. Humans are trained to think linearly and have difficulty to understand exponential growth. Nevertheless, once these tipping points are crossed, this feedback mechanism can cause unstoppable catastrophic changes in a matter of months or a few years. Its consequences will change living conditions abruptly, much sooner than predicted by the statistical models currently used for political decision-making.



Biodiversity loss is the most critical issue for survival of nature and humans. 50C does not affect only humans. All living beings are impacted, including trees, insects, mammals and even earthworms. These massive and abrupt changes are already creating conditions for trees and forests to release more CO<sub>2</sub> than they capture. Water cycles, reproduction and growth patterns in plants and animals are affected. Pollination, diseases, collapse of ecosystem function are all being observed throughout the planet. Corn for example will not grow grain above 32C. We need to act.



Rodale Institute. (2020). *Regenerative Agriculture and the Soil Carbon Solution*.

The good news is that we can reverse this situation in a few decades by capturing carbon in soils through holistic livestock and regenerative agriculture. According to the Rodale Institute (Rodale Institute, 2020), transforming cattle management alone could capture more carbon than is emitted by the current development model. If we add regenerative agriculture, we could return to pre-industrial levels of carbon in the atmosphere by 2050, even if energy, economic or consumption models are not changed. Regenerative development is about bringing all the solutions we have at hand and demonstrating with examples how this can be done. Regenerative Costa Rica is beginning to prove that this is achievable in the short term

and will be a roadmap for other countries to follow. We go beyond regenerating the environment. Economic, social, cultural, and political regeneration are key to achieving the change in paradigm needed. And the spiritual dimension is probably the one that will allow us to make the required shift on a personal, family and community scale.

To do this, we do need a new “type” of professionals, people from all ages that are willing to join a global movement and make the changes we need. We call them the *First Responders for Regeneration*. Most educational programs are not preparing these new professionals, capable of facing current and future challenges and cooperating globally to co-create and implement new solutions. Therefore, the University for International Cooperation, Ubiquity University and Green Project Management have come together with many other global leaders in regeneration to offer the first program in the world of its class, the Masters in Regenerative Action. This is a highly innovative program, even in the learning methodologies used. Students can tailor their education according to their own wishes. They will not only be engaged with these globally renowned mentors but will be connected to their networks and to bioregions and cities where regenerative action is happening and they can immediately start being part of building the better planet we need.

Here is just a preliminary list of partners that is growing day by day.

UCI

UU

GPM

DEAL/Kate Raworth

Capital Institute/John Fullerton

Regenerative Communities Network.....