A MARSHALL PLAN TO COOL OUR PLANET

OUR PLANET IS ALIVE

To understand why we have such a perfectly balanced climate on planet Earth conducive to life that has been developing for 3,8 billion years on our watery planet, we need to accept and postulate that the planet is alive. ''The available paleodata testify for a stable maintenance of the values of global mean surface temperatures within the interval 5-25 C during the last seven hundred million years.'' (A. Makarieva [1]). **It is complex, interactive life itself that is regulating the global surface temperature** through the interaction with the water cycle, with water being the major greenhouse gas on Earth. The fact that the Earth is alive, is a basic understanding of Indigenous knowledge. Now western science needs to accept this Copernican shift in mindset and step out of the geo-mechanical world view in order to solve the crisis of life on our planet in dialogue with nature. The damage we have done to the biosphere will soon pass tipping points that will take her millions of years to rebalance into a new homeostasis, most likely without the human species, unless we act with this insight and with action the size and speed needed to turn the tide as fast as we can.

NATURE WILL SAVE OUR SPECIES IF WE SUPPORT HER

Forests are planetary organs of our planet that cool in at least three powerful ways:

- Storage of water in its soils and vegetation and sequestration of atmospheric carbon[2]
- The biotic pump function irrigating the continents and transporting heat to the outer atmosphere
- The creation of clouds increasing the albedo-effect of the planet reflecting energy back into space

Emerging science[3] supports the insights that the combined cooling effect of these three mechanisms (the list is longer, mind you) is much stronger than currently understood. Forests can really cool our planet!

Through forest and forest-like smart landscapes, including agroforestry and climate-smart cities, we can cool the planet at the speed and scale needed to avert a climate catastrophe. Restoring nature at scale will not only harvest significant amounts of CO2 but will also effectively restore the cooling capacity through the hydrological cycle, driven by the interaction between forests and the atmosphere and the recreation of lifegiving soils, securing carbon. We can reactivate and enhance the cooling power of Earth considerably by:

- preserving existing forests and creating new biodiverse forests
- supporting farmers worldwide to create agroforestry landscapes for food production with high cooling capacity.
- support smart regreening of our cities and other human infrastructure.

In return, nature will not only increase the Earth's cooling capacity, it will also have a dampening effect on extreme weather events and regulate the hydrocycle better, decreasing the immediate

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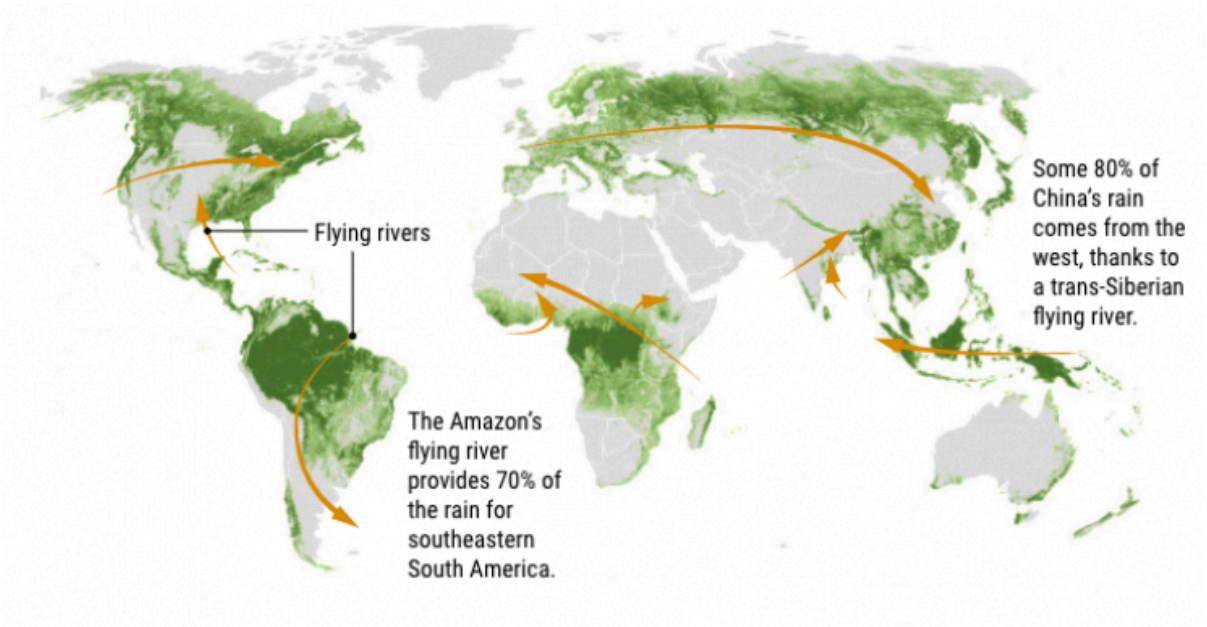
1 Biotic regulation: climate

2 https://cbmjournal.biomedcentral.com/articles/10.1186/s13021-018-0110-8/tables/2

3 Revealing the widespread potential of forests to increase low level cloud cover.

damage to the global economy. This frontloading of regreening the planet and especially the tropical zones, has positive consequences for the economy, from the perspective of risk management and has a large positive social impact, inverting the deeply painful inequality that exists. Meanwhile we can achieve our climate goals faster, cheaper and in a way that is just and deeply meaningful.

But we are running out of time, and we need to get this underway in years before climate chaos is overtaking us. Top scientist Luciana Gatti of INPE (the Brazilian counterpart of NASA) tells us that we have five years to avert a tipping point[4] in the Amazon Rainforest. Once we lose that forest, all our other efforts will be in vain.



THE EARTHSHOT TO COOL OUR PLANET

To turn things around, we need to embark NOW on this connected set of connected projects:

1. **Spread the deep knowledge that we are part of a living, intelligent planet** and bring new research to the front page demonstrating the combined cooling power of especially tropical forests, which has been hugely underestimated. Two cooling mechanisms have been largely overlooked: the biotic pump function and the formation of clouds by healthy forests increasing the albedo of the planet, reflecting energy back into space. The effect of healthy soils created by the foliage, creates sponges that retain water longer, increasing the time that vegetation can grow.
   We are calling on a group of top scientists[5] to calculate the total cooling effect, but it is very likely that the outcome is astonishing and shows that we can cool the planet with forests, while the decarbonization of the economy and the energy transition are continuing, driven by a price on carbon between 50 and 100 USD per ton and all the while the principles of Doughnut Economics and circular economics are being applied.

[4] Impending Amazon tipping point puts biome and world at risk scientists warn

[5] See below scientist we are talking to to come together to quantify total forest cooling

2. **Create a global financial structure for sizable amounts to enter the regeneration at scale and speed, involving the payment of hundreds of millions of people**, minimizing red tape through technology. We will kick off by Fridays for Future and all other climate youth movements demanding their families and the companies and governments they work for to finance the billions needed to kickstart a global campaign to reforest one football field per minute. But this is just the start. Demand corporations to off-set their emissions 100% now by adopting millions of hectares of tropical forest regeneration, family offices, push government funds, banks, to become part. Start a global regenerative revolution pushed by the youth.
3. **Create a digital architecture for global regeneration**, existing of at least the following elements:

- A. A global, but partly regionalized *platform* *to bring all stakeholders of regeneration together* with their skill sets, possibilities, finance, project proposals and needs together to create a global regreening project ecosystem, powered by hybrid finance including the automated payout of carbon credits based on satellite measurements of biomass increase.
- B. An application, called the *Arara App* *connecting the rural poor to the internet*, including information, communication, (micro-) finance and income based on the creation of biomass, C. Once A & B have sufficient volume, the *creation of a regenerative currency called Earth* to provide the flywheel of regeneration by keeping the currency circulating within the regenerative economy.
- D. The inclusion of blockchain connected through 100% internet connectivity for all communities. This enables rapid, detailed and transparent sharing of information and funds across borders, allowing for blended finance to enter into the plan to regenerate the planet and affected communities through nature protection and the payment of ecoservices for this work at a scale, speed and granularity that so far was impossible to organize. It allows the engagement of hundreds of millions of people in the tropical zone of the planet to be rewarded for taking part in the Marshall Plan, by awarding them the Ecoservice and carbon credits to the units of land (possibly hectares) under their care, by making each unite an NFT.
- E. The inclusion of new forms of bottom-up democratic decision making, based on technology enabled DAOs and smart contracts. *Note: the whole internet needs to be democratized and taken out of the hands of tech giants. This development is called Web3.*
- F. More will enter this list while the digital architecture is developing, such as IoT and other forms of AI combined with detailed properties in nature.

4. **Roll out large projects on the tropical continents** to pay for the protection and regeneration of forests and the introduction of large scale multi layered forms of agroforestry to produce food and other produce, **while having a global moratorium on the destruction of all primary forests** and continu protection, regeneration and reforestation efforts in the other climates.
5. **The most urgent of these large projects is the creation of the Great Green Wall for the Amazon** Averting the Tipping Point of Dieback of the great forest before the dieback gathers pace and becomes an unstoppable run-away effect.
6. **Start large scale local pilot projects** based on the above knowledge and possibilities in 2022. In Brazil, the 413.000-hectare Araribóia Indigenous Territory of the Guajajara People is ready to implement this under the leadership of the Indigenous Peoples. It will include tokenization for nature protection.
7. **Roll out dozens ambitious > 1000.000-hectare projects in the tropics**, specifically in West- and Central Africa, mountainous regions of Eastern Africa, in Southern and NE India, Myanmar, Thailand, Cambodia, South-China, on Sumatra, Kalimantan , West-Papua, North Australia, mangroves and even regreen some deserts.

I am asking you to connect your heart to our living Earth and future generations and help create a fast, huge mobilization based on these insights the size of which is unprecedented and join hands with Nature to avert a climate catastrophe through a sweeping movement taking over COP27 as a starting point to cool our beautiful, living, intelligent planet of which we are all born, our only mother Earth.

''Never doubt that a small group of thoughtful, committed citizens can change the world; indeed, it is the only thing that ever has.'' Margaret Mead

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Notes:

5. Scientists we are reaching out or talking to, in order to form a group to quantify total minimum forest cooling effects:

Dr. Antonio Donato Nobre

Dr. Luciana Gatti

Dr. Anastassia Makarieva

Dr. Peter Bunyard

Dr. Ugo Bardi

M.sc. Pieter-Paul de Kluiver

Dr. Walter Jehne

and Tartatchenko, Pocorny, Duvellier, Millan.

About the author:

Rob de Laet, Dutch, born 1956, adventurer, world traveller, philosopher, now living in a remote valley in the Brazilian rainforest, regenerating and rewilding himself. From an early age in the grip of the question of consciousness, the crisis humanity was heading for and is now in the midst of. Since 2013 full time focusing on resolving the crisis our species and planet are in. Member of several climate organisations.

‘’We will need to reinvent ourselves urgently to create a sustainable future for our offspring and all living creatures. We need to limit the damage to Nature and reconnect to our beautiful living, intelligent planet Earth, while birthing a new collective consciousness and an ecological civilization. In fact we need to all realize that we are indigenous to this miracle that is our planet, our only mother Earth.’’

Additional reading:

Biotic Pump Greening Group

Tokenizers can help protect the Amazon Forest and the Climate

Green Water Cools