# Regeneration



University for International Cooperation

Èduard Müller emuller@uci.ac.cr 1987

"Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs."





## Sustainable development

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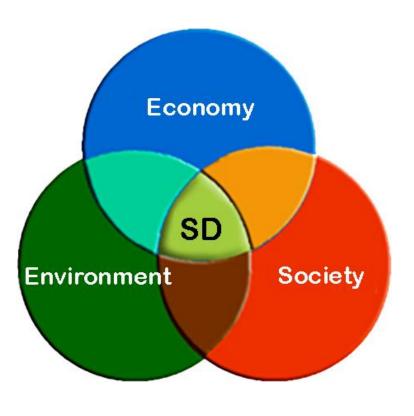
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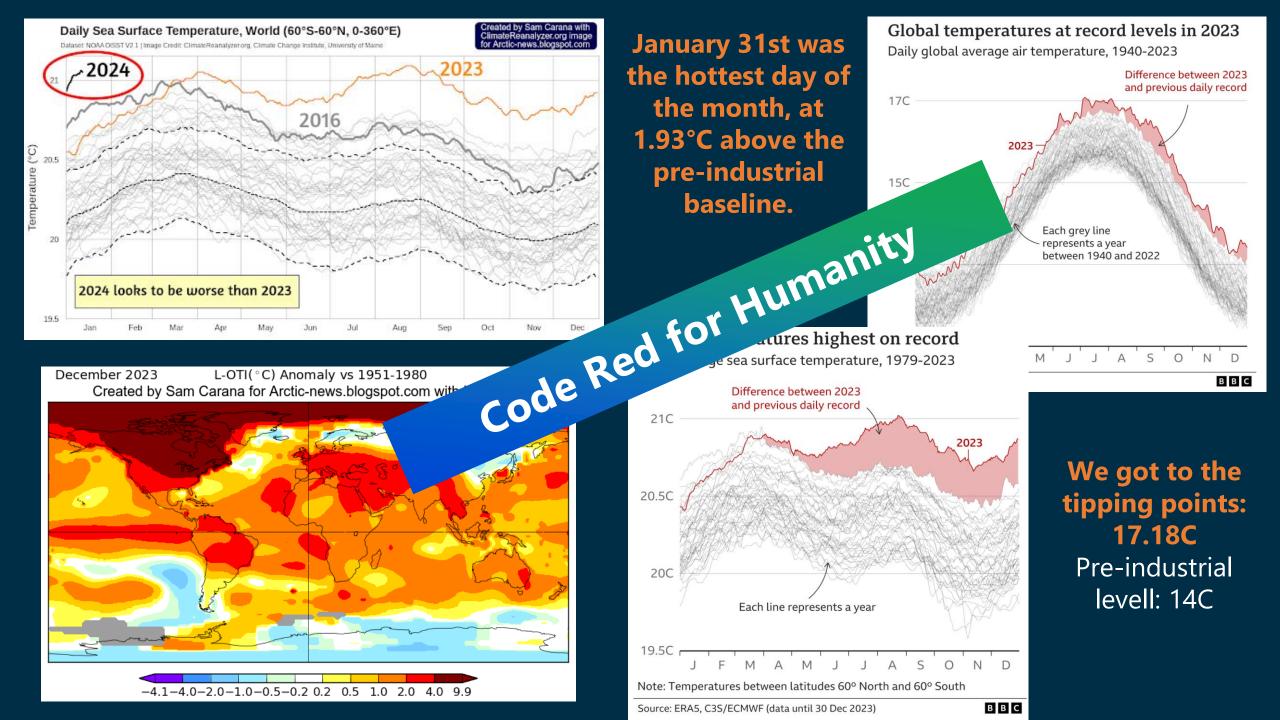
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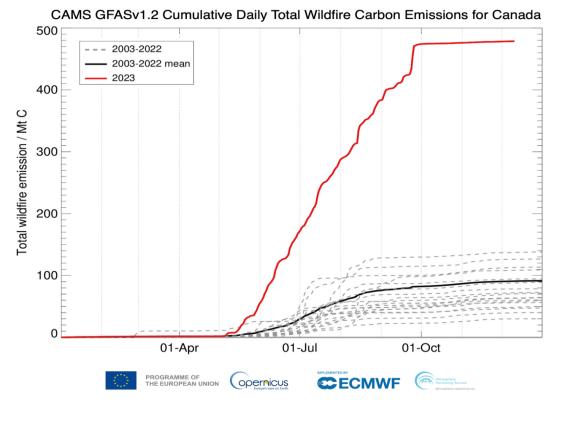
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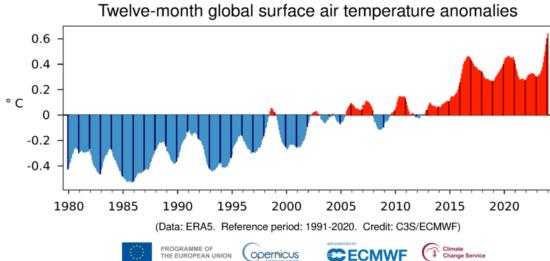
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Rio 1992





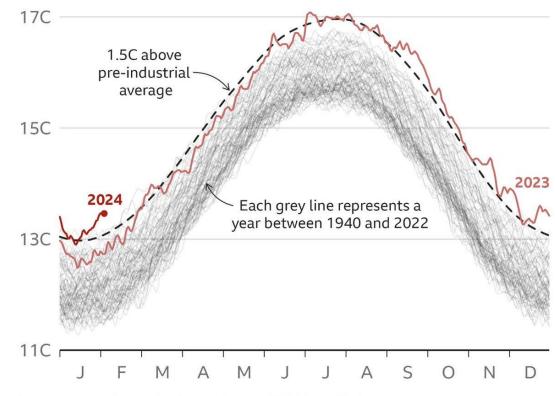




January 2024 was the hottest January on record, at 1.65°C above the pre-industrial baseline.

#### Global temperatures remain at record levels

Daily global average air temperature, 1940-2024



Note: Temperature data for 3 February 2024 is preliminary

Source: ERA5, C3S/ECMWF

VISUALIZING THE REGIONAL

**DECLINE OF EARTH'S BIODIVERSITY** 

### **Biodiversity - Abundance**

#### The Living Planet Index (LPI) tracks the abundance of mammals, birds, fish,

reptiles, and amphibians across the globe.

Between 1970 and 2016, vertebrate population sizes dropped by **68%** on average worldwide. However, this rate of this loss varies from region to region.

#### NORTH AMERICA

LATIN AMERICA

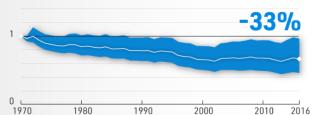
1980

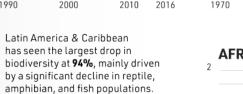
1990

& CARIBBEAN

0

1970





2010

2016

1970

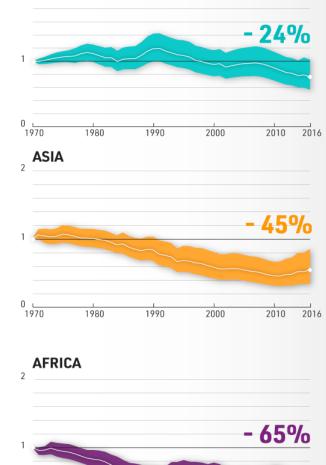


2000

#### **EUROPE** 2 Index value (1970 = 1)

1980

1990





Source: Living Planet Report 2020

2010

2016

2000



# Exponential change

- What will humans be doing in 5 years? In 10?
- What professions will still exist?
- What new "professions" are required?
- Solutions to current and future challenges?



After studying and working in HR, André studied sustainability management at Lisbon's School Of Economics & Management. He is responsible for the English speaking market of Youmatter since 2018.

How would you like to be living in 20 years? How about your grandchildren?

CALL ANTER SELLE

We stand at a critical moment in Earth's history, a time when humanity must choose its future.

Earth Charter

# We will need to navigate rough waters but we are still on time to build the future we want!

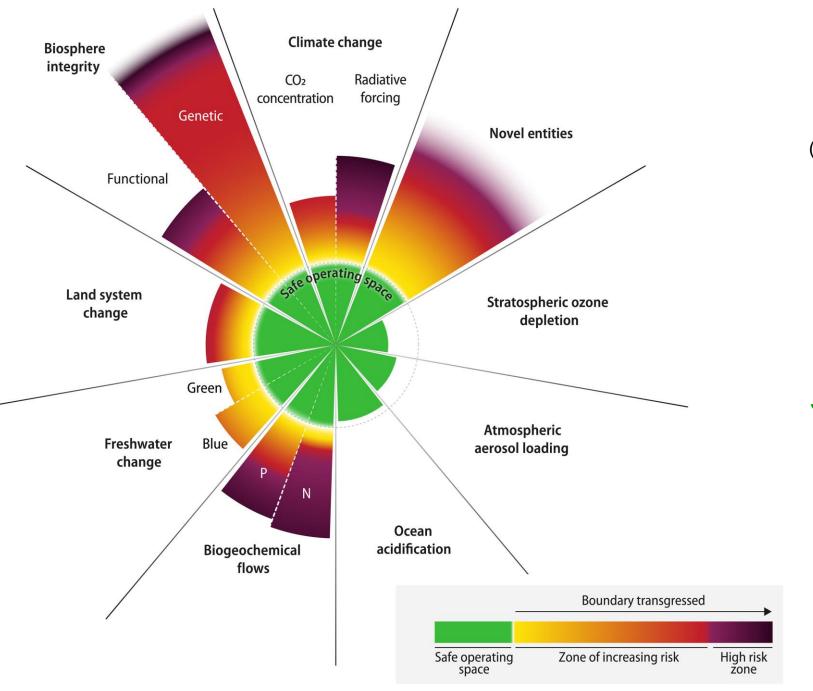


# We need to find multiple pathways TOGETHER!

Join us in co-creating a future of abundance and wellbeing!

# An invitation for you:

## How do we know where to start?

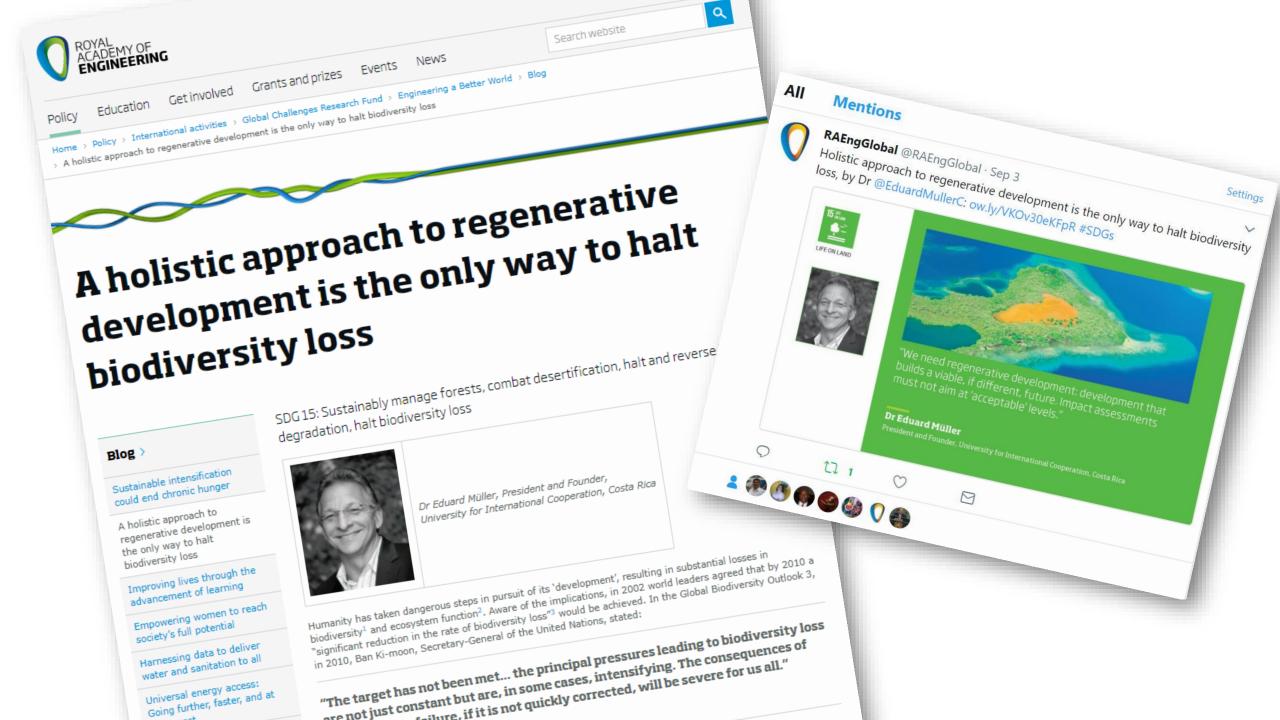


#### Updated Planetary Boundaries

(Figure from Wang-Erlandsson et al, 2022)

# Safe operating space for humanity

## Anthropocene



#### IVERSITIES RANKINGS DISCOVER EVENTS PREPARE APP

There are many similarities between the lifestyle in Singa much so that familiarising oneself with everyday life is likel, international students may still find something uniquely Sing

#### A high quality of life

Singapur

Save

ares

Mercer, the world's largest human resource management consu Singapore as the city with the highest quality of life in Asia in its 2 Survey.

Efficient city planning, a developed economy, superior geographica system, convenient transportation, a warm climate, along with a to atmosphere make Singapore a study destination suitable for people Singapore also embraces a rich culture of art, history, architecture,



ntastic Reasons To Study In Singapore

y Stephanie L Ipdated April 20, 2023



Sponsored by National University of Singapore (NUS)

Singapore, widely known among its multicultural and multinational residents as the Little Red Dot, has made its mark on the world with many top accolades.

Not sure

There are countless reasons to love this garden city, from its well-structured urban planning, to its fast-paced economic development, and its status as one of the safest countries in the

# What are our aspirations?

## **Biocapacity**

#### COUNTRIES WITH BIOCAPACITY DEFICIT

| Singapore            | 10,300% |
|----------------------|---------|
| Bermuda              | 5,610%  |
| Réunion              | 2,580%  |
| Israel               | 2,450%  |
| Barbados             | 2,130%  |
| Cayman Islands       | 1,880%  |
| Bahrain              | 1,690%  |
| United Arab Emirates | 1,570%  |
| Kuwait               | 1,570%  |
| Cyprus               | 1,540%  |

#### COUNTRIES WITH BIOCAPACITY RESERVE PERCENTAGE THAT BIOCAPACITY EXCEEDS ECOLOGICAL FOOTPRINT

| French Guiana                 | 3,950% |
|-------------------------------|--------|
| Suriname                      | 2,930% |
| Guyana                        | 2,090% |
| Gabon                         | 888%   |
| Congo                         | 738%   |
| Central African Republic      | 540%   |
| Bolivia                       | 402%   |
| Congo, Democratic Republic of | 234%   |
| Paraguay                      | 218%   |
| Eritrea                       | 212%   |

## What is development?



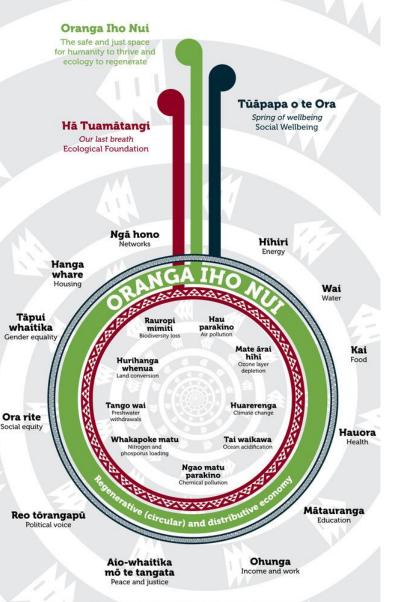


Construyendo Futuros regenerativos

Norway

## A Good Life For All Within Planetary Boundaries





A Māori perspective of the iconic doughnut economic model, reimagined by Teina Boasa-Dean and Juhi Shareef. This indigenous reimagining puts the ecological foundation at the centre, denoting that it is Ranginui (the sky, the father of all things) and Papatiānuku (the earth, the mother of all things) that together, enable humanity to thrive.

www.projectmoonshot.city

#### Te Reo Māori doughnut

The ego or the "I" is born of the division of our consciousness with self-consciousness, and it thrives in division and alienation. Thus, the nature of the ego is such that it is relentless in its denial of reality – this being the continuous, universal transformation, the cosmic flux we are all part of.

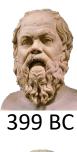
#### Without compassion, the ego can easily have us be our own worst enemy, no matter how wise our individual psyche, no matter how civil our society, no matter how profound our religion.

It is the compassionate element of our being that allows us to embrace our perceived errors and limitations, so we are able to learn from them, enjoy greater truth and be more in harmony with the universal ways.

## Challenge #1: Humans and Nature or Humans are Nature?

## Challenge #2

The reductionist approach of Western science and education!



• Socrates – Plato: Hypothesis, and one answer.



Aristotle - Logic: True or false.



Descartes: material and spiritual realms are disconnected.



 Isaac Newton: interactions are limited to forces exerted between the bodies.

1727



#### **Result:** Detached solutions

Avoiding meat and dairy is 'single biggest way' to reduce your impact on Earth

Biggest analysis to date reveals huge footprint of livestock - it provides just 18% of calories but takes up 83% of farmland



Cattle at an illegal settlement in the Jamanxim National Forest, northern Brazil. The 1.3m hectare forest is today a microcosm of what happens in the Amazon, where vast areas of land are prey to illegal woodcutters, stock breeders and gold miners. Photograph: Antonio Scorza/AFP/Getty Images

#### PLAN DE DESCARBONIZACIÓN COMPROMISO DEL GOBIERNO DEL BICENTENARIO





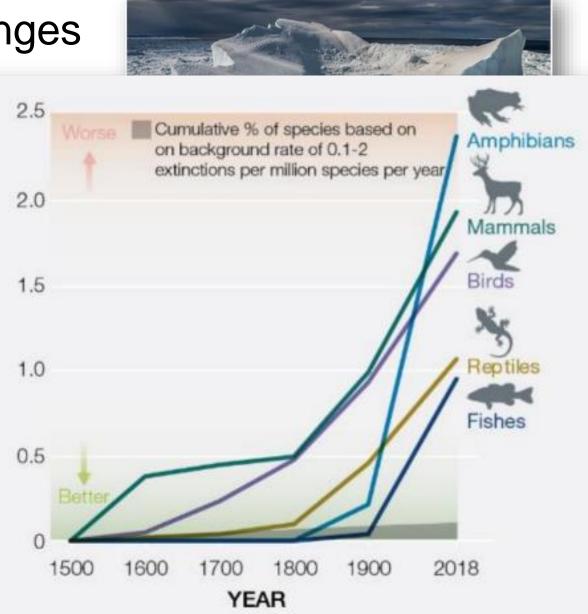
### Challenge #3: Exponential changes

Cumulative % of species driven extinct

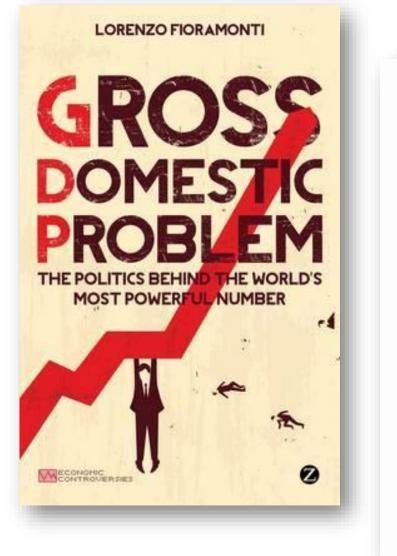
#### Hot poles: Antarctica, Arctic 40 and 30 degrees Celsius above normal

by Seth Borenstein





#### Challenge #4: Wide acceptance of wrong methods





WHY GDP DOESN'T ADD UP Joseph E. Stiglitz Amartya Sen and Jean-Paul Fitoussi

THE REPORT BY THE COMMISSION ON THE MEASUREMENT OF ECONOMIC PERFORMANCE AND SOCIAL PROGRESS

WITH A FOREWORD BY PRESIDENT NICOLAS SARKOZY

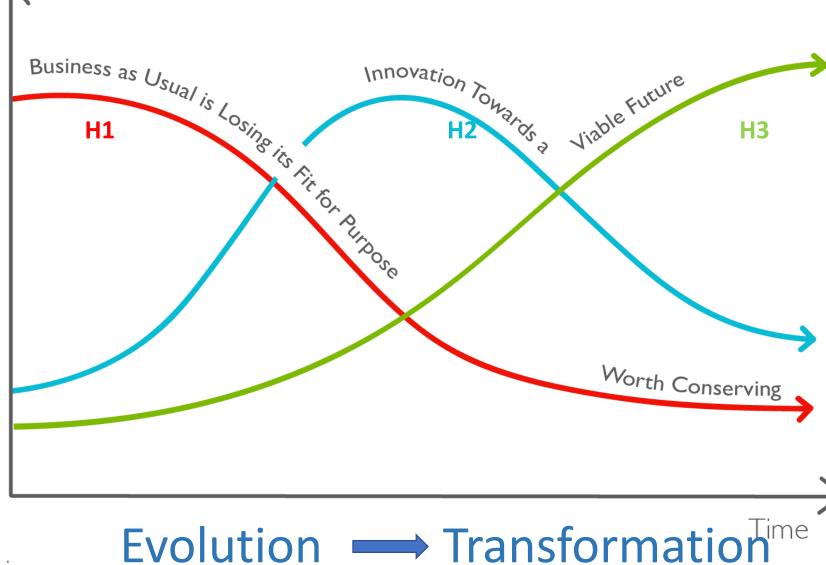


### Challenge #5: Unlearning





## 3 Horizons model



Regeneration

"You never change things by **fighting** against the existing reality. To change something, build a new model that makes the old model **obsolete**." B. Fuller

H3Uni.org

Conceptual framework E. Müller 2008 - 2016

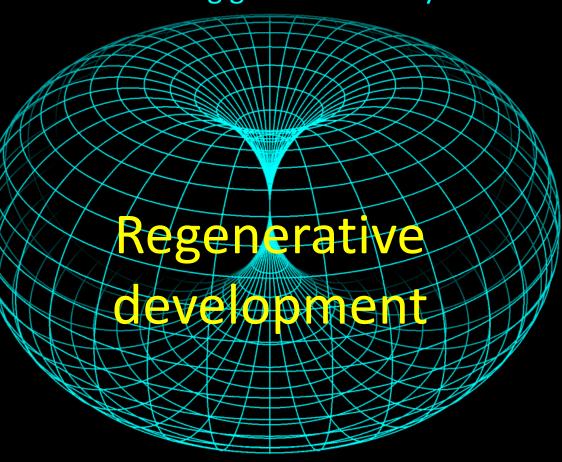
Spirituality

ethics, values, compassion, mindfulness, something greater than myself

#### Politics

Youth, young women, transparency, good for all

Culture Identity, equality amalgam, pride, heritage, feminine principle



Mother Earth Ecosystems – biodiversity Functional landscapes and seascapes

#### Economies

Regenerative, wellbeing, inclusion, for all life forms

Society Self determination, active participation

Toroid: Wolfgang W. Daeumler

## Regenerative development

- Wellbeing • Truly holistic development, departing form the reductionist approach and understanding that the basis of life is the integrity and function of all ecosystems that provide essential services to life on the planet.
- New symbiotic relationship with Nature benefit for all life >>> forms.
- It is about equality, transparency, peace, true education, enlightenment and happiness and HOPE!

Sustainability = minimize impacts

Regeneration = recover the capacity for life and increase benefits for all

Spirituality involves the **recognition** of a feeling or sense or belief that there is something greater than myself, something more to being human than sensory experience, and that the greater whole of which we are part is cosmic or divine in nature. ... An opening of the heart is an essential aspect of true spirituality.







# What Is Premeditated Ignorance?

Premeditated Ignorance is the quality or condition of deliberate unawareness. It is when people do not know because they do not want to know. For, if they did know, they would have to take responsibility for the knowledge; and, they would thereby be required to renegotiate their identity and to relinguish the status, privilege, and authority, that are derived from the false order of knowledge. At the very least, they would be compelled to leave their comfort zone.

# Best scientifically documented planetary extinction...

Data → Information → Knowledge → Wisdom?

In 2017 we produced the same amount of data as what was produced up to 2016.

# Wisdom

"Wisdom or sapience is the ability to think and act using knowledge, experience, understanding, common sense, and insight.

Wisdom is associated with attributes such as compassion, experiential self-knowledge, non-attachment and virtues such as ethics and benevolence."

https://en.wikipedia.org/wiki/Wisdom.

# Mother Nature's Wisdom

# We are nature Functional biomimicry

# **Regenerative society Participatory** Decision making Common Good Cooperation Wellbeing

# Culture

Identity Pride Heritage Values

Feminine principle Link to spirituality

# **Politics / policy** New ideas, new paradigms Youth actively involved Inclusive Common good above individual True democracy



Construyendo Futuros regenerativos



#### FOR AN ECONOMY In Service of Life



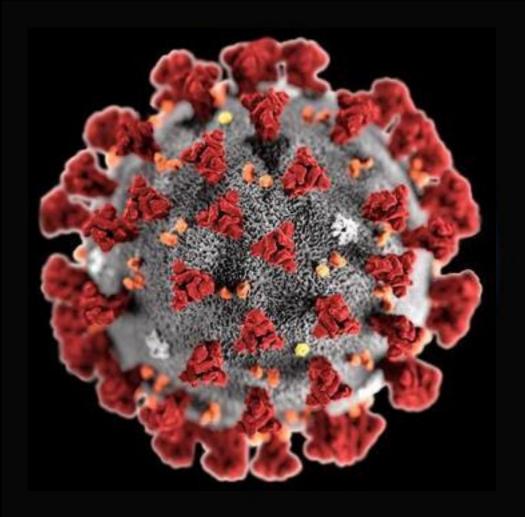
WEAll is the leading collaboration of organisations, alliances, movements and individuals working to transform the economic system

THOUSANDS OF PEOPLE AND Organisations are working Towards a Wellbeing Economy



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## Nature does not need us,



### we need nature.

We have become disconnected from Mother Earth.

We have not learned to become better human beings.

We prefer to remain blindfolded instead of confronting reality.

# We are Nature! We are one!









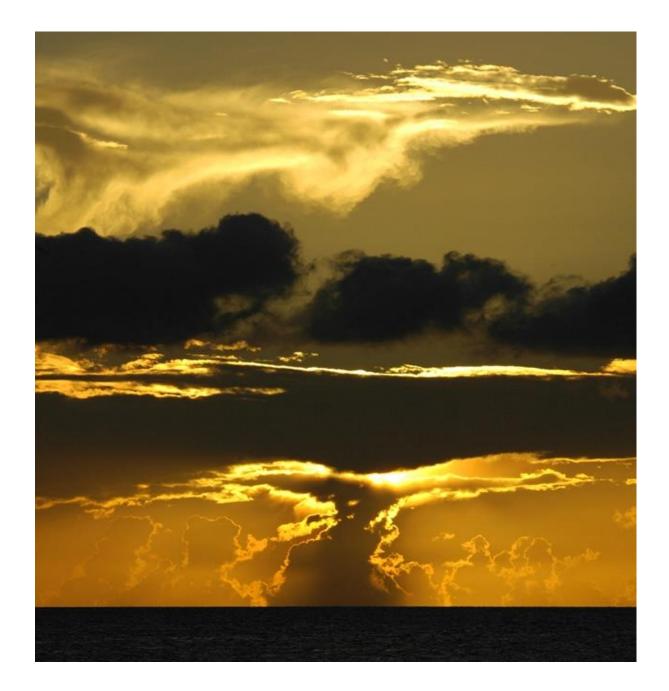


### Seva means giving more than you take.

Isha Black, 2020

Who is responsible for the future?

How do we build the future?







We build the future we want! Build a better tomorrow!



Are you going to be mere spectators of a "new normal" or are we going to co-create a better future?

The choice is ours: form a global partnership to care for Earth and one another or risk the destruction of ourselves and the diversity of life. Fundamental changes are needed in our values, institutions, and ways of living. We must realize that when basic needs have been met, human development is primarily about being more, not having more.

Earth Charter

### Food:

### Cause?

**Solution!** 





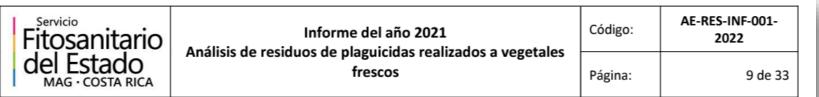
Noticias | Jun 3, 2015



### Costa Rica es el consumidor más voraz de plaguicidas en el mundo

por Jorge Araya





ÚLTIMA HORA

Un 64% de vegetales frescos nacionales tiene residuos de plaguicidas

Jeffry Garza jeffrygarza.asesor@larepublica.net | Jueves 11 junio, 2020 09:14 am



Imagen con fines ilustrativos. Shutterstock/La República

#### f

Un 64,2% de los vegetales frescos que se producen en Costa Rica tiene algún residuo de agroquímicos, reveló el último análisis de residuos de plaguicidas del Servicio Fitosanitario del Estado (SFE).

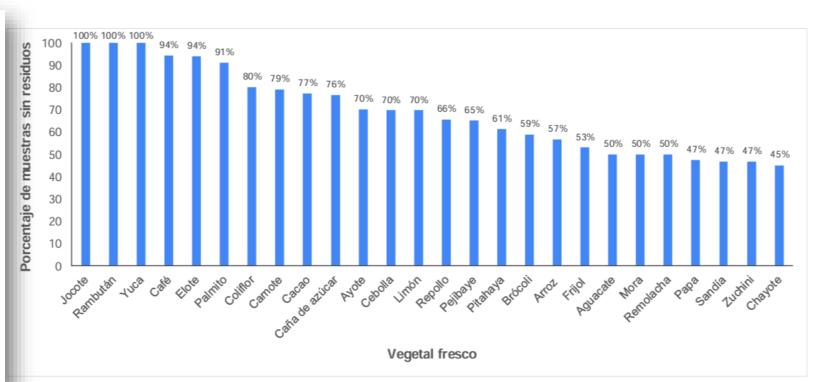


Figura 5. Porcentaje de vegetales frescos de producción nacional sin residuos de plaguicidas

detectados. Año 2021.



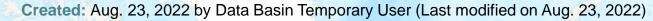
Log in

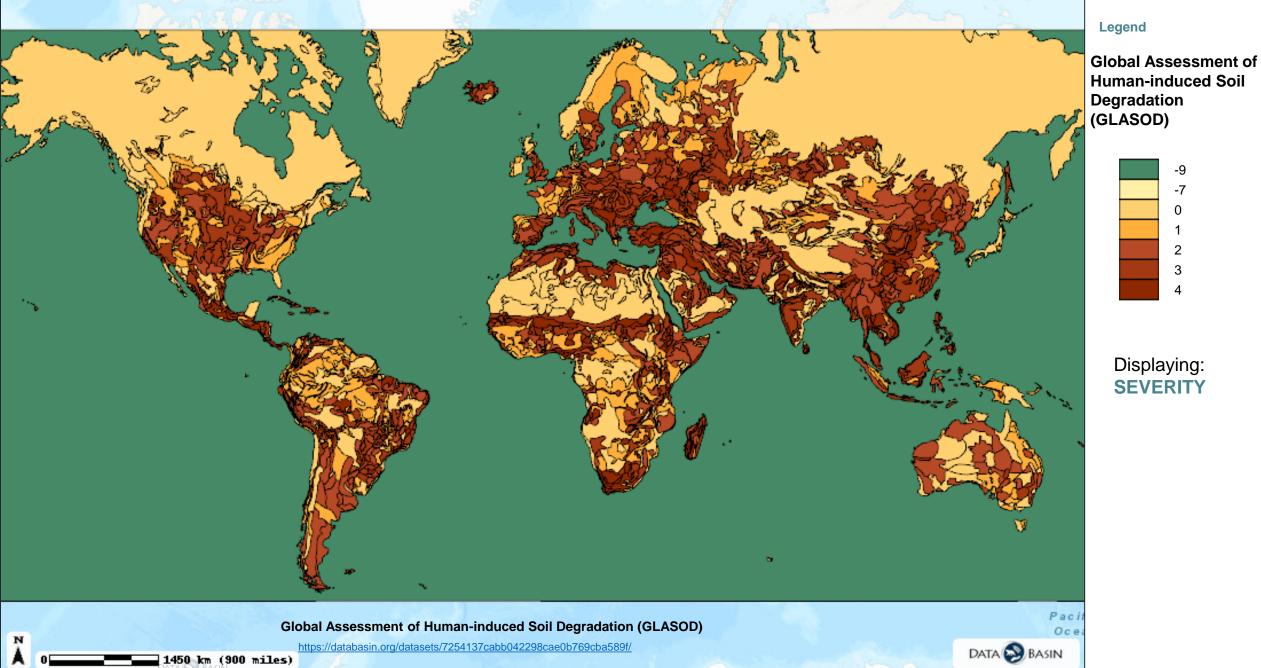
← / NEWS

"With negative impacts on the well-being of at least 3.2 billion people, the degradation of the Earth's land surface through human activities is pushing the planet towards a sixth mass species extinction,"

### Media Release: Worsening Worldwide Land Degradation Now 'Critical',

"Without urgent action, further losses of 36 gigatons of carbon from soils - especially from Sub-Saharan Africa – is projected by 2050 (equivalent to nearly 20 years of emissions from the global transportation sector - all freight and passenger traffic by land, air, water and sea)."



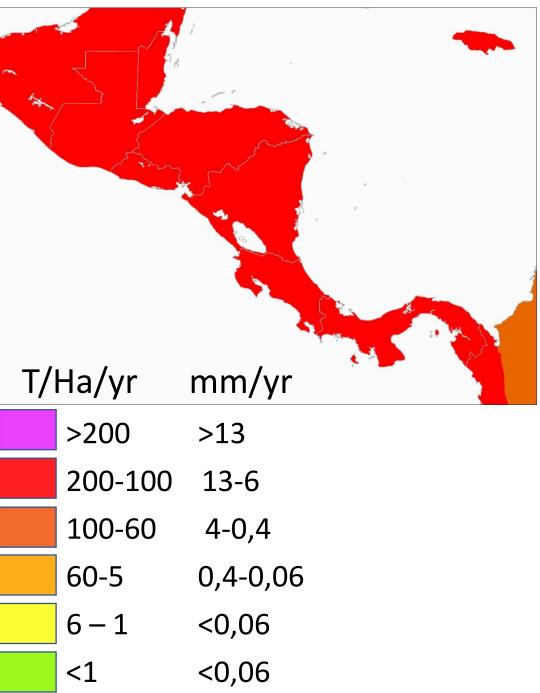


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### Erosion





Construyendo Futuros regenerativos

### **Agriculture is biology, not chemistry**



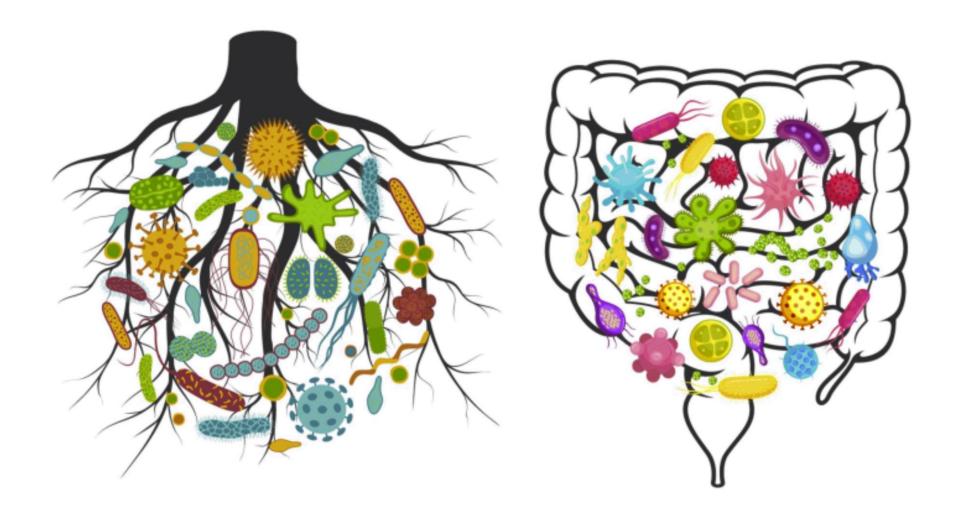


### Yogurt: Healthy?



INGREDIENTS: MILK, YOGURT (CULTURED MILK, CULTURED NONFAT MILK), CORN SYRUP, SUGAR, RASPBERRY SWIRL (SUGAR, WATER, RED RASPBERRY PUREE, PECTIN, CITRIC ACID, PHOSPHORIC ACID, MALIC ACID, XANTHAN GUM), WHEY, LEMON CAKE PIECES (WHEAT FLOUR, SUGAR, WATER, MARGARINE [PALM OIL, SOYBEAN OIL, SALT, MONO AND DIGLYCERIDES, ARTIFICIAL FLAVOR, COLORED WITH ANNATTO, CALCIUM DISODIUM EDTA, VITAMIN A PALMITATE], EGGS, POWDERED SUGAR, TURMERIC [FOR COLOR], MONO AND DIGLYCERIDES, LEMON OIL, CITRIC ACID, BAKING POWDER [SODIUM ACID PYROPHOSPHATE, SODIUM BICARBONATE, MONOCAL-CIUM PHOSPHATE], SALTJ, BUTTERMILK, CREAM, NATURAL FLAVOR, CITRIC ACID, SODIUM CITRATE, MONO & DIGLYCERIDES, LOCUST BEAN GUM, GUAR GUM, PECTIN, TURMERIC (FOR COLOR), CULTURES.\* \*LIVE AND ACTIVE YOGURT CULTURES INCLUDING S. THERMOPHILUS AND L. BULGARICUS.

CONTAINS: MILK, WHEAT, EGGS, AND SOY



Japan Prize Reaserch

SOIL SCIENCE AND PLANT NUTRITION 2020, VOL. 66, NO. 1, 1–9 https://doi.org/10.1080/00380768.2020.1718548

#### REVIEW





### Managing soils for negative feedback to climate change and positive impact on food and nutritional security

-157ppm

Rattan Lal

Carbon Management and Sequestration Center, The Ohio State Universi

#### ABSTRACT

The increase in atmospheric concentration of carbop enho 405 ppm in 2018, along with the enrichment of mean temperature increase of 1°C. Among genic sources, nistoric land use and conversion of natural to agricultural eco-systems has approximities to be an importance source. Global depletion of soil organic carbon stock by historic lap and soil degradation is estimated at 133 Pg C. Estimated to 2-m depth, C stock is 2047 Pg for corganic carbon and 1558 Pg for soil inorganic carbon, with a total of 3605 Pg. Thus, even a small ange in soil organic carbon stock can have a strong impact on atmospheric CO<sub>2</sub> concentration. Soil sink capacity, between 2020 and 2100, with the global adoption of best management practice which creates a positive soil/ecosystem C budget, is estimated at 178 Pg C for soil, 155 Pg C for biomass, and 333 Pg C for the terrestrial biosphere with a total CO<sub>2</sub> drawdown potential of 157 ppm. Important among techniques of soil organic C sequestration are adoption of a system-based conservation agriculture, agroforestry, biochar, and integration of crops with trees and livestock. There is growing interest among policymakers and the private sector regarding the importance of soil C sequestration for adaptation and mitigation of climate change, harnessing of numerous co-benefits, and strengthening of ecosystem services.

#### **ARTICLE HISTORY**

Received 5 November 2019 Accepted 16 January 2020

#### **KEY WORDS**

Soil carbon; anthropocene; historic carbon loss from soils; soil carbon sink; international initiatives on soil carbon sequestration



#### 🖌 Nacionales Internacionales Opinión Deportes Ambiente Economía Cultura Ciencia

Inicio / Ambiente / "Para frenar el calentamiento global hay que dejar de comer carne", dice Christiana Figueres

#### "Para frenar el calentamiento global hay que dejar de comer carne", dice Christiana Figueres

Por Lr21.Com.Uy - 3 Febrero, 2019 - EnAmbiente Q 2



Montevideo, 3 Feb (lr21.com.uy).- Para frenar la catástrofe en ciernes que significa el calentamiento global, hay que dejar de comer carne. Así lo afirmó Christiana Figueres, quien fuera hasta hace poco más de un año la máxima responsable las Naciones Unidas para el Cambio Climático y una de las voces con mayor autoridad para hablar de este tema.

"Salí de Davos alentada. A pesar de que el cambio climático ha sido catalogado por cuarto año consecutivo como la principal amenaza para la economía mundial, por primera vez se habla de él como algo a lo que hay que hacer frente de forma colaborativa", dijo la experta.

El 2019 arrancó con una noticia poco halagüeña: un estudio de la firma Rhodium Group confirmó que Estados Unidos sigue siendo el segundo mayor emisor de gases de efecto



Bill Gates Wants You to Avoid Eating Beef and Switch to Synthetic Meat to Fight Climate Change

nage credits: Reuters.

Scientific Challenges and Solutions for Cultured Meat Manufacturing

AB-GROWN

 Wiyoko Schinner

 Wiyoko John

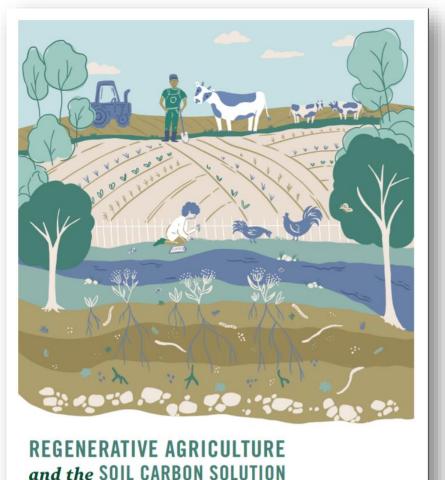
 Meatless Favorites. Made with Plants.

Vegan

MEAT

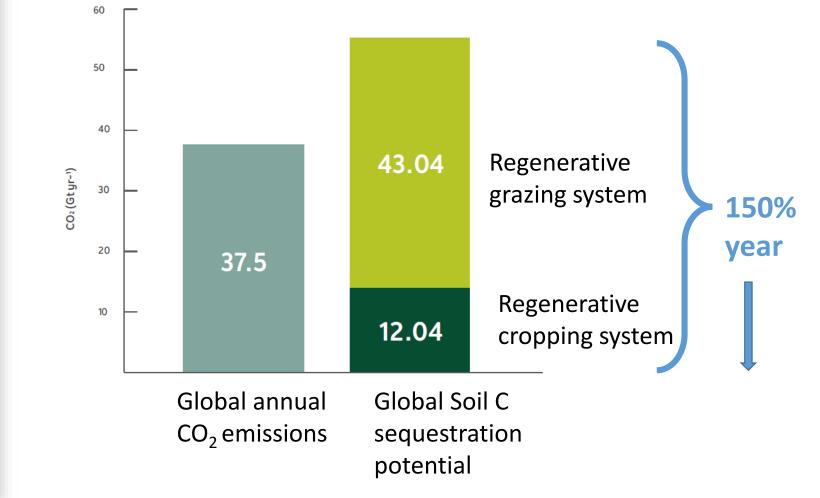
СООКВООК

Carbon sequestration potential of global adoption of regenerative agriculture



SEDTEMBED 2020

NSTITUTE.



AUTHORED BY: Jeff Moyer, Andrew Smith, PhD, Yichao Rui, PhD, Jennifer Hayden, PhD





### Holistic Grazing

3.500 million ha of grasslands could
capture 88 - 210 GtC, would bring us
down to 350 ppm CO<sub>2</sub> in 30 years.
2014, Seth J. Itzkan





Helping solve climate change from the ground up.

TCU addresses UN's pre COP 25 in Costa Rica on importance of soil health to fight climate change. About Us

# Measurement, Reporting & Verification MRRV GOLLEGTIVE

An expanding coalition of MRV (Measurement, Reporting & Verification) companies building an open MRV protocol (off-chain and on-chain) to accelerate investment in Nature-based-Solutions for climate mitigation.

join the collective

### SIF's Solutions: Better Measurement





• The University of Texas at Dallas has developed electrochemical sensors for SIF that measure soil organic matter, soil inorganic carbon, total soil carbon, pH, moisture, bulk density, nitrate and other soil health parameters **accurately**, **insitu and in real-time** 

Our **affordable sensors** have been validated by Texas A&M University and show over 90% accuracy both in-lab and in-field against the gold standard.



| THE UNIVERSITY OF TEXAS AT DALLAS |           |            | Info For K                | Resources 🔇   | Make a Gift | Search Q |
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News Center > Science & Technology

UTD Team's New Sensor May Be Groundbreaking Tool for Soil Health

By Kim Horner | March 8, 2023



UT Dallas researchers received funding from public benefit corporation Soil in Formation to create an electrochemical sensor designed to

*"Prasad said the sensor represents a paradigm shift in soil testing."* 

**PEER -REVIEWED:** "Prasad's team described the testing of soil using electrochemical sensors in an article published June 29, 2022, in the *Journal of <u>The Electrochemical Society</u>*."

#### 

BUSINESS | HEALTHCARE | TECHNOLOGY

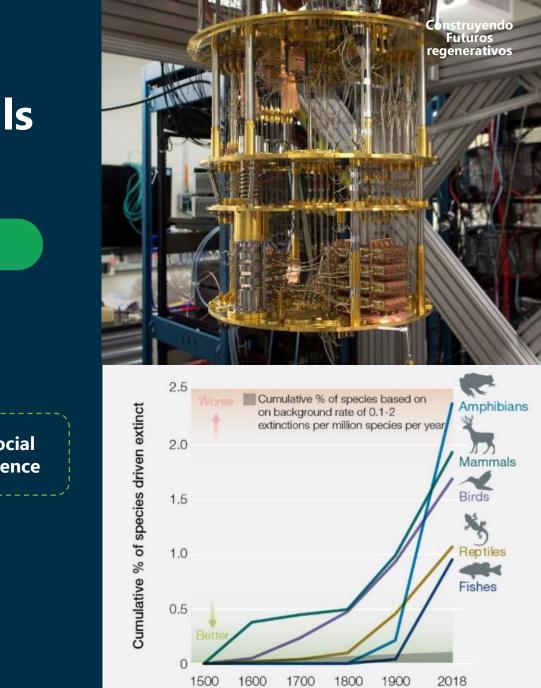
Building Dallas' Future Professionals, Leaders and Business

WORKFORCE AND ECONOMIC DEVELOP

#### 'Groundbreaking' Soil Sensors From UT Dallas Bioengineers Could Help Combat Climate Change, Food Insecurity

"This is the equivalent of having a wearable health sensor on your body that tells you in real time what's happening. Think of it as a wearable for the soil," Dr. Shalini Prasad said.

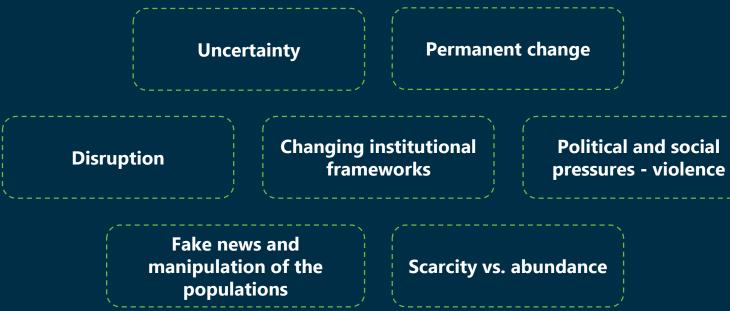




YEAR

# Educating the future professionals now!

**Exponentiality of planetary collapse and technological development** 



#### HIGHER EDUCATION IN THE ERA OF THE FOURTH **INDUSTRIAL** REVOLUTION

Edited by Nancy W. Gleason



### Regenerative Development in Higher Education: Costa Rica's Perspective

Higher Education in the Era of the Fourth Industrial Revolution, 2018 ISBN : 978-981-13-0193-3 Eduard Müller



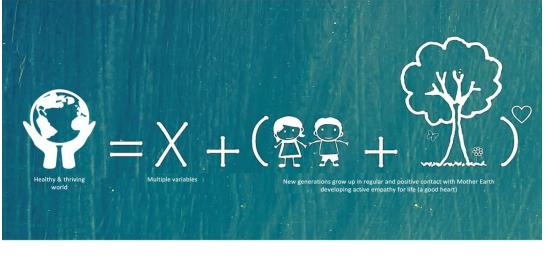
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### **Education for the Future?**

How do we learn to co-create the future we want? We are part of the answers if we act, now Principles and values – ethics and respect "Soft" skills = critical skills

It starts with me!

What do we need to learn? How do we learn? Why do we learn? Where do we learn? How do we measure what we learned?....



#### ania

#### Escalating "TiNi: Children's Land" methodology

An innovative methodology that catalyzes the regeneration of life with the new generations and Mother Earth as allies



#### Children's Land (TiNi)

It is a methodology that connects children and youngsters with Mother Earth and empowers them as agents of change for sustainable development. It consists in granting them a space of land, which can be from three pots, where they nurture life and biodiversity with love generating well-being for themselves, others and nature.

A Children's Land can be implemented at home, school, in the neighborhood or community, in urban and rural areas, and in various ecosystems. Children's land helps develop active empathy for life and is an indicator of the children's contribution to the sustainable development of their neighborhood.  ✓ Recognized as a good practice in Education for Sustainable Development by UNESCO (2012).

✓ Recognized by the Ministry of the
 Environment of Peru as a good practice of
 Education for Sustainable Development (2013).

√ Institutionalized by the **Ministry of Education of Peru** as EsVi – Spaces of Life, currently in +5900 schools. (2015).

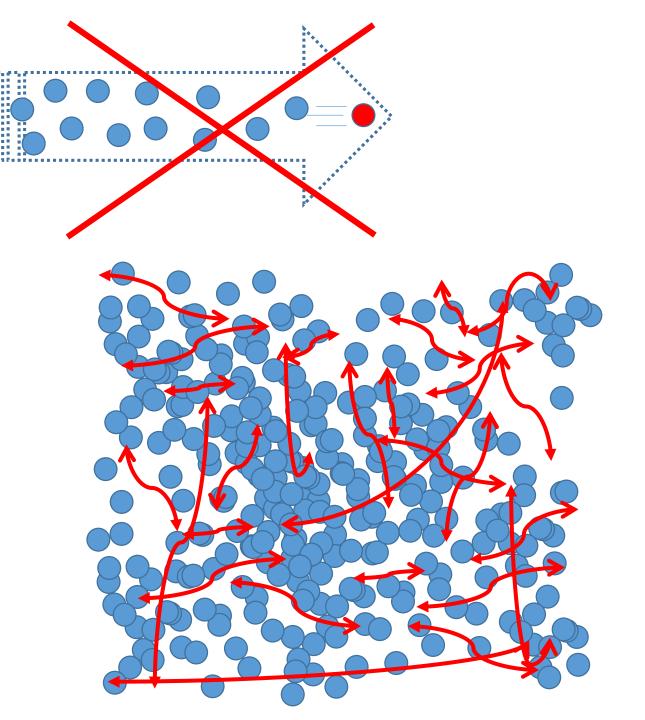
✓ Institutionalized by the Ministry of Education of Ecuador as Children's Land for Good Living, present in +6000 schools (2017).

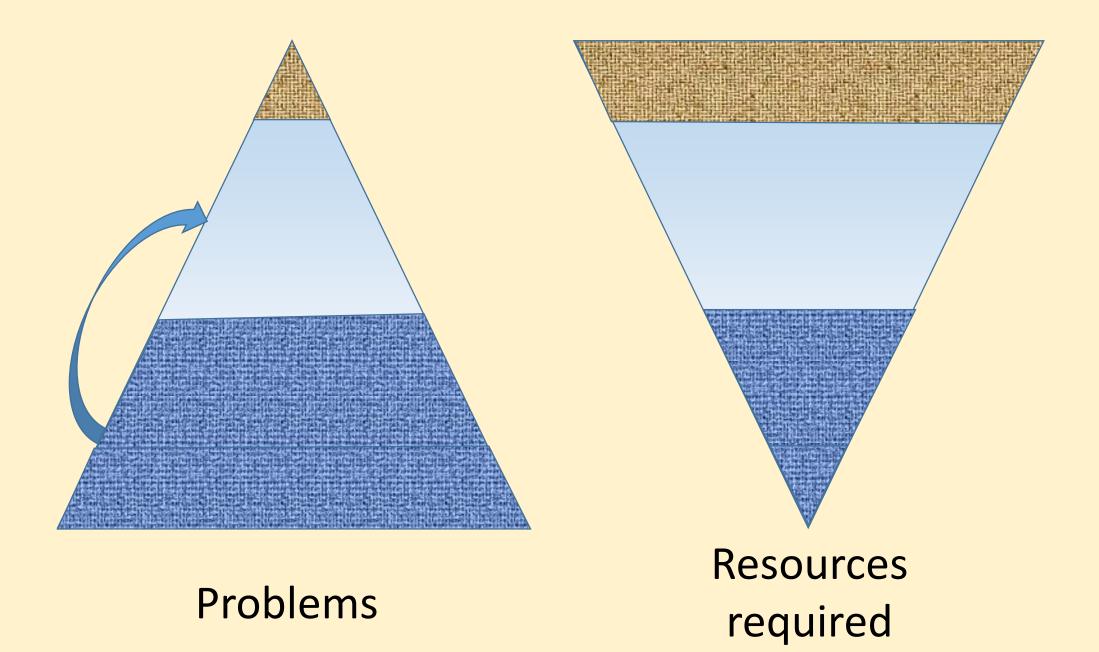
√ Recognized as one of the best 7 innovative initiatives in Latin America for social impact by **VIVA (2020)**.

√ Present in Peru, Ecuador (+ Galapagos), Colombia, Brazil, Chile (+ Rapa Nui), El Salvador, Canada, Japan and India. Complete redesign of education:

### Passion + spirituality

- Cooperation
- Co-creation
- Responsibility
- Creativity
- Mindfulness
- Resilience
- Adaptability
- Proactivity...





### Education for the future!

Clase abierta con Melina Ángel

#### Biomímesis para la regeneración

Jueves 12 de mayo, 5:00 p.m. (Costa Rica) Participación gratuita



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#### The Fierce Urgency of Now

The denigration of our planetary environment has reached a critical point — in the last 50 years there has been a 69% loss of biodiversity or insects, and forests, according to the World Wildlife Fund. This means that sustainability is no longer an option for humanity. One cannot the destroyed habitat. The only option left for us is regeneration. Regenerative Development is a holistic approach to development where the enhanced. Humans must re-vitalize, renew, and regenerate both community and planet to ensure not only our survival but the survival of

#### Certificate in Regenerative Entrepreneurship

**Professional Certificate** 

Be a pioneer in co-creating regenerative development initiatives and contribute to grow true and pragmatic solutions to solve the most challenging planetary issues.

Act

UCI Universidad para la Cooperación Internacional

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Are you ready to unlearn and transform your paradigms in a transdisciplinary journey?

Start date: May 31st, 2022

For more information: cre@uci.ac.cr



Nico

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#### Regenerate Costa Rica Hub

Recovering the safe operating space for humanity through carbon capture, biodiversity and wellbeing



Regenerative communities

Bringing together regenerative territories and bioregions: Learning sites.

Impact at scale

Agua y Faz Agua y

Osa

Regenerative entrepreneurs.



CARTAL INSTITUTE WORK REPORT HETWORK BOX REALING

REGENERATIVE

COMMUNITIES

CAPITAL INSTITUTE

Toward a Regenerative Economy, Together

Building on eight years of documenting eventplary regeneration projects through the Field Guide to a Regenerative

Economy and exploring the principles and intra-works of repensative economics that under on the regenerative work w

NETWORK

000008

Global regenerative university







Colombia Regenerativa



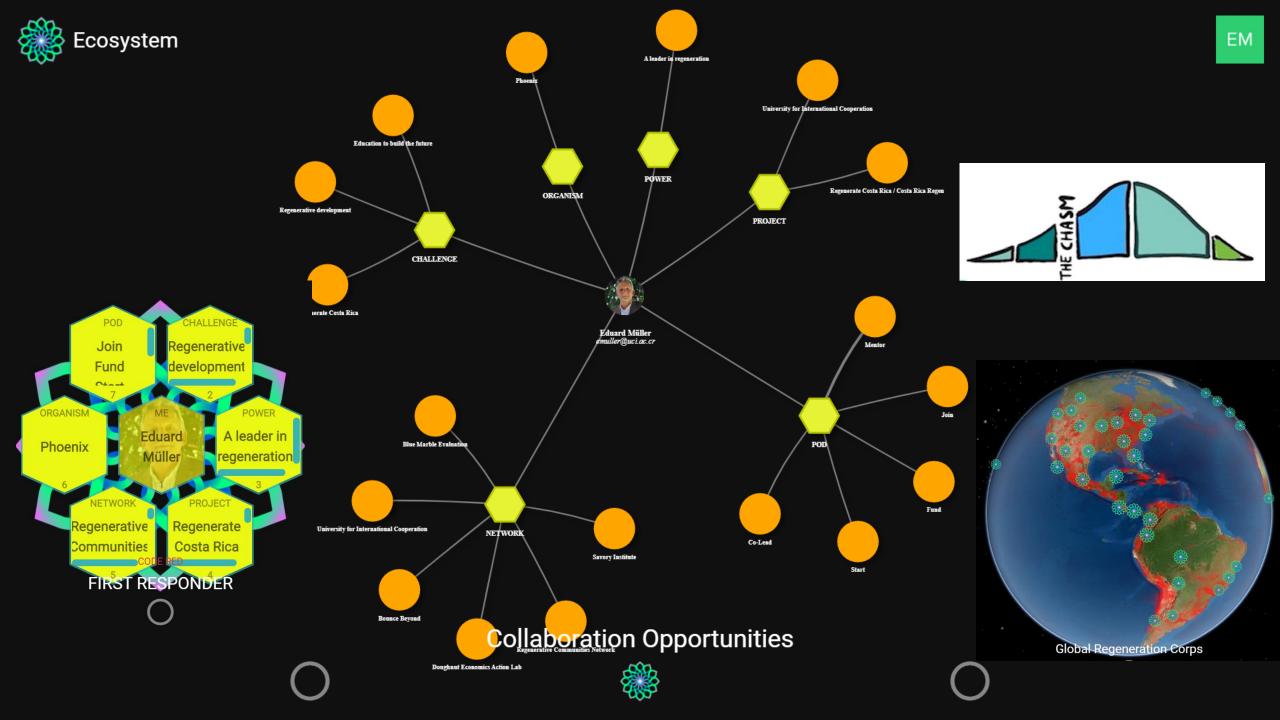
Fast Tracking Regenerative Agriculture and Bioregional Reorganization

Melina Angel, Luis Camargo, Eduard Muller

#CATALYST2030 #reGenerationRising #RegenAgriculture

Post COVID-19 Food Security and Community Resilience







O PASAPORTE \*\*\* PASAPORTE \*\*\* Proyecto de Proyecto de

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We have now crossed critical boundaries that threaten future life on Earth.

Hope! Yes, we can revert the damage through regeneration!

Humanity has already recognized that regeneration is one of the best alternatives to creating a better future for all. Investment opportunities for projects is increasing. Nevertheless, one of the main challenges is that we don't have enough people trained in regeneration. UCI is going to contribute to solving this with a unique global program to educate and train first responders for regeneration.

**Educating the** 

new professionals

n regeneration to

evert planetary

collapse.

#### **Regeneration networks**

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Bioregions + projects

Rutas de aprendizaje en línea Co-creating regenerative solutions through joint projects

Mentors

**Experts** 

Passaport

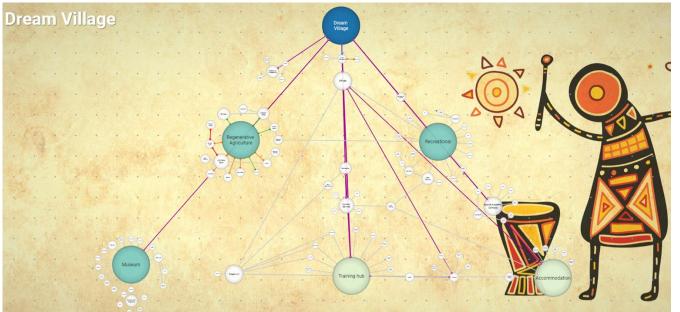
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#### **DREAM VILLAGE**

A regenerative and indigenous knowledge project for young africans



**7vortex** 



Dream Village is a regenerative and indigenous knowledge college that empowers individuals to turn their dreams into reality and *bridge the gap* between traditional and modern ways of living

Since 2018, we have trained over 50 young Africans to establish sustainable businesses that benefit society. Additionally, we have provided education and resources to over 2000 local smallholder farmers, particularly women and marginalized communities. Our focus on regenerative practices promotes biodiversity, improves soil health and reduces the impact of climate change on local communities





We empower young people with digital and ICT tools to improve their productivity and provide them access to the global knowledge base.

Why let valuable indigenous knowledge go to waste? Using digital tools, we engage youth in learning from the older generation and make the experience both fun and practical.



Join us in building a sustainable future by supporting us to train regenerative and indigenous practices in our communities. Together, we can plant, grow and harvest a thriving environment for all "Keep the smiles"



### What we need, urgently!

- Holistic approaches using different sources of knowledge (science, indigenous, local)
- Flexible pathways: principles, not recipes
- Research that allows for immediate action storytelling beyond publication
- Actions conducive to life regeneration
- Local well-being above corporate and trade
- Massive (re)education First responders for regeneration<sup>®</sup>
- Give HOPE and guidance

# We build the future we want!

Regenerate Costa Rica

University for International Cooperation





### Future?

#### Cooperation

- Scale
- Consciousness
- Business models
- Narrative
- Education
- Demonstration
- Guidance
- HOPE!



"Today we are in a new phase of humanity. We all are returning to our common house, the Earth: the people, the societies, the cultures and religions.

Exchanging experiences and values, we enrich ourselves and we complete ourselves mutually...

Leonardo Boff

Many things have to change course, but it is we ner a solution of our mutual belonging, and participate be shared with everyone.

This basic awareness would enable the development of new convictions, attitudes and forms of life.

A great cultural, spiritual and educational challenge stands before us, and it will demand that we set out on the long path of renewal. Let ours be a time remembered for the awakening of a new reverence for life, the firm resolve to achieve sustainability, the quickening of the struggle for justice and peace, and the joyful celebration of life.

Earth Charter

Construyendo Futuros regenerativos

### A new relationship between humans and planet



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## Is he prepared?



### Thank you!