

Universitat Politécnica de Valencia, setiembre 2022

Dr. Rene Castro Salazar

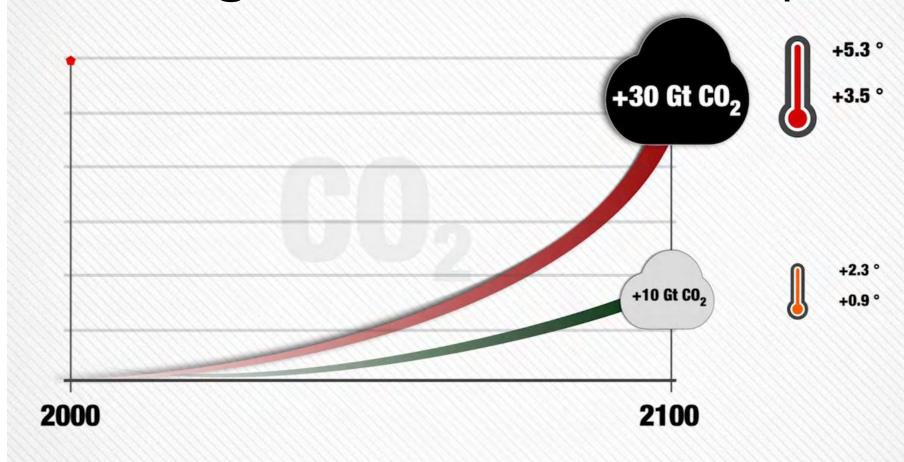
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The ethical dimension. Our common home is in danger

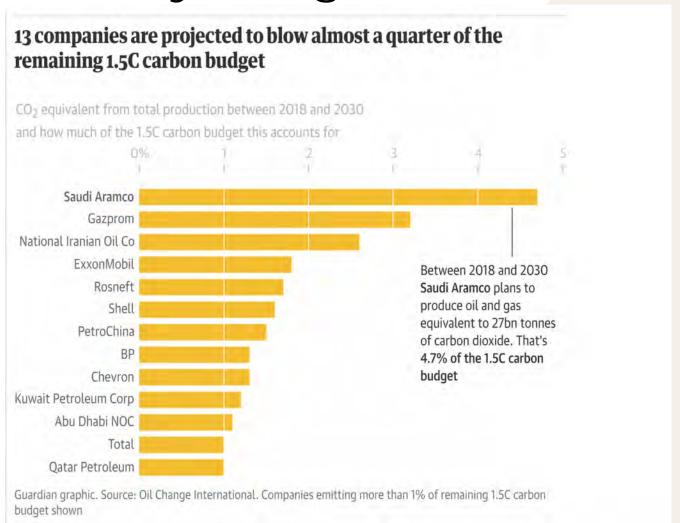
I) Climate Change is a global shock

The World's still walking in the wrong path

Following the destructive path



OIL companies increasing their use of CO2 planetary budget



Ref: The Guardian, October 10, 2019

II) Paris agreement offers hope

Developed and developing countries, big and small need to act now.

Low carbon
coffee + trees=
CO2 neutrality in
Costa Rica

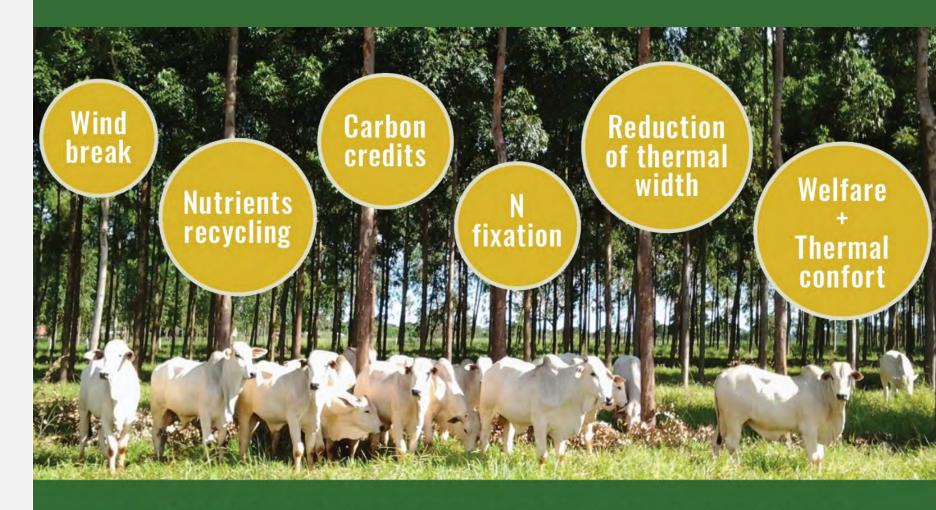




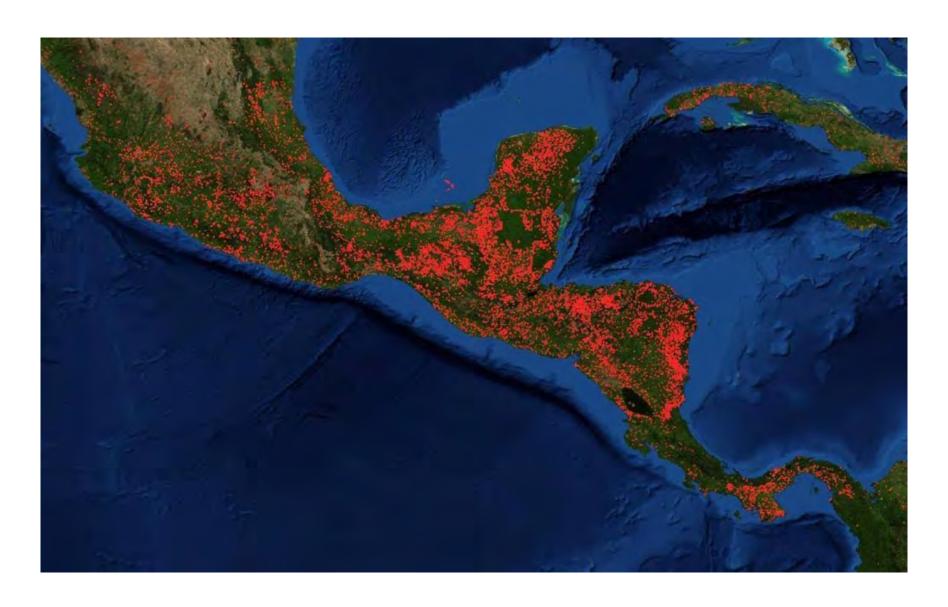


Ref: RCS Self elaboration 2020

Brazilian CO₂ neutral beef



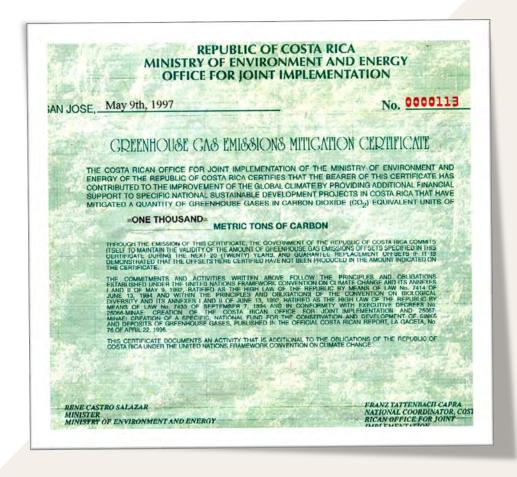
TREE PRESENCE IN TROPICAL LIVESTOCK PRODUCTION SYSTEMS



Ref: Bernardo Aguilar and Costa Rican ministry for the environment, August 29 2019



The first CO2 certificate sample from 1997...then Kyoto Protocol collapsed.

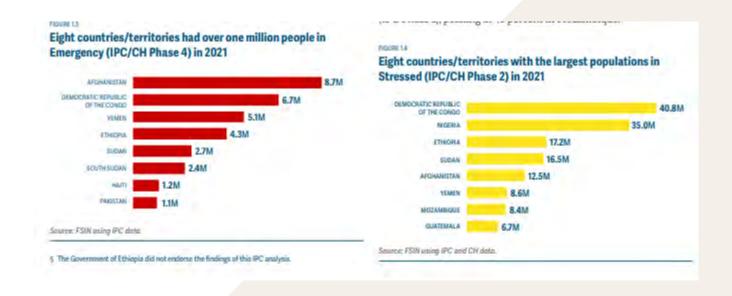


Ref: First transaction in the World, Costa Rica and Norway 1997.

III) Food crisis: distribution chain interruption, increasing prices and waste

After the climate and the COVID shocks...the food shock

Extreme cases in food emergency in 8 countries



Food loss is a CRIME and waste comes in different shapes



In developing countries 40% of losses occur during harvest and processing level



In industrialized countries 40% of losses happen at the retail or consumer level



Destroyed in transport



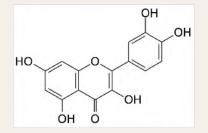
Not bought at a supermarket



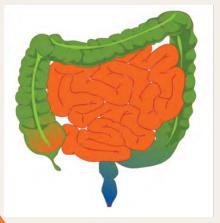
Thrown away by the consumer

...and in new forms

Malnutrition

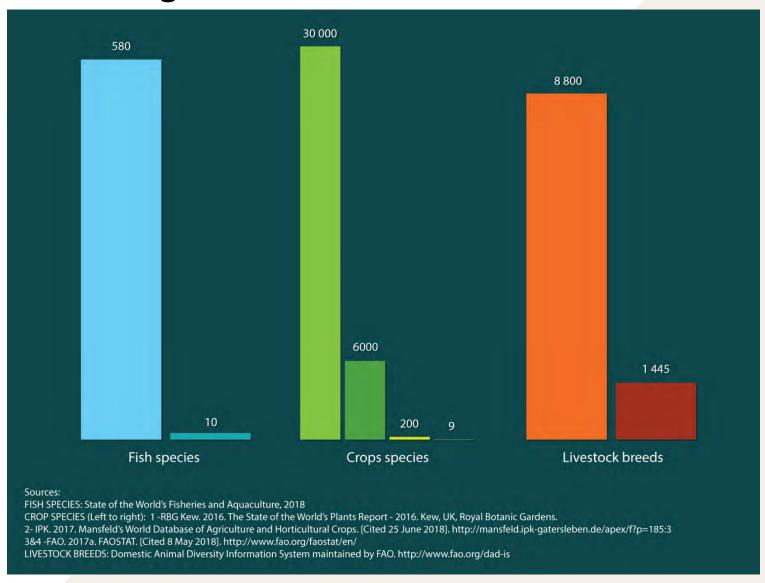


In both developing and industrialized countries losses also happen within the consumer



Nutrients are lost when dietary intake and nutritional requirements do not match

A less diverse diet is bad for biodiversity and nutrition



Growing (Mal)nutrition...and food waste...the ethical dimension



Food is an inalienable right

"Hunger is criminal. Food is an inalienable right"

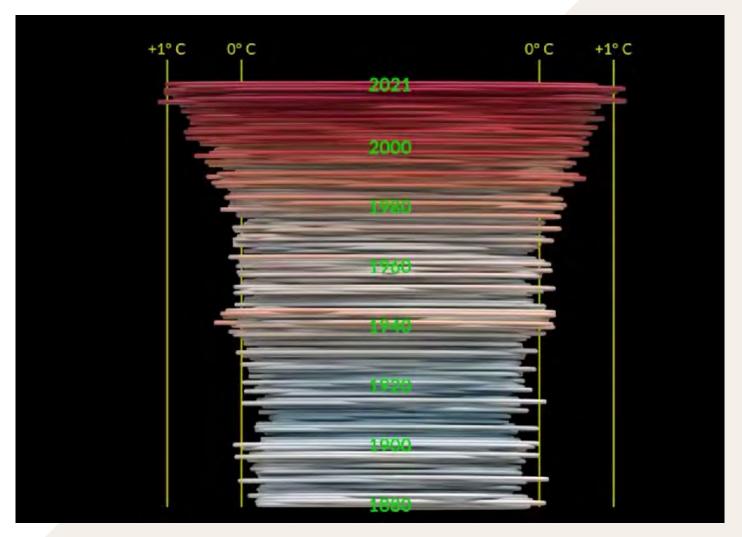
(Pope Francis, 2014, p. 37 FAO Dialogues, 2016)



Part IV: If we fail?

Forced permanent migration and social chaos.

The climate spiral 1880-2021



Ref: Centro Nacional de Ciencias Atmosféricas, Universidad de Reading, @climate Hawkins, March 2022

How a Warming Planet Drives Human Migration

Climate displacement is becoming one of the world's most powerful — and destabilizing — geopolitical forces

