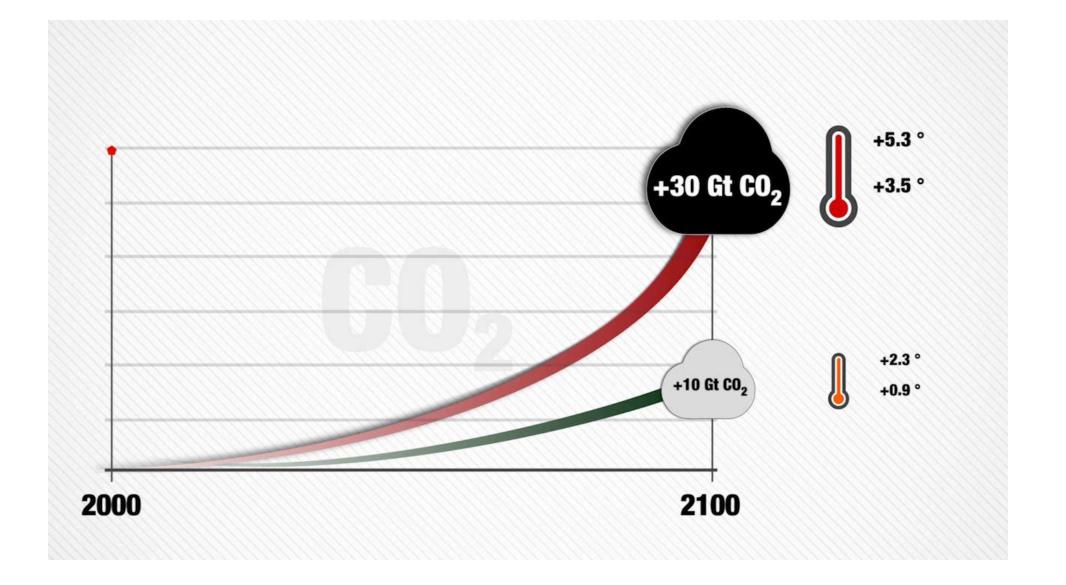


PART I: UNSUSTAINABLE USE OF THE PLANET?

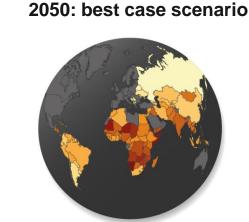
A global collapsed is still the reality. We stewards are failing!



Food insecurity and climate change vulnerability: present day, worst case and best case scenarios

Present day

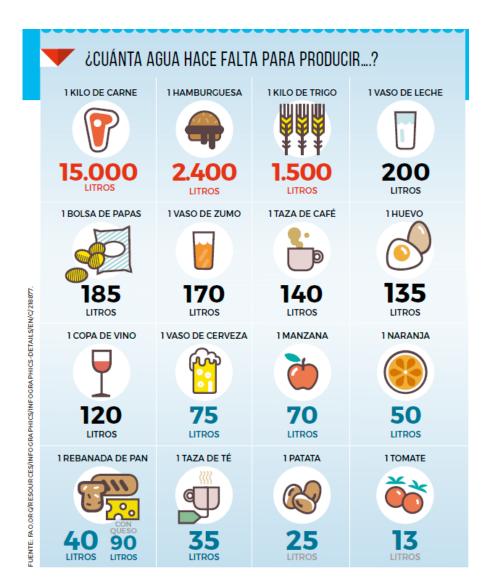






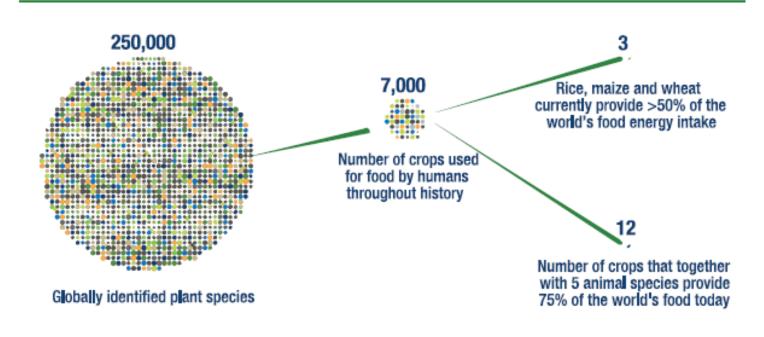
2050: worst case scenario

Water intensity: Liters per product



Very little diversity in the way we eat now:

Shrinking diversity



Source: FAO, 1997.

Growing (Mal)nutrition...and food waste



FAO: no food waste campaing 2018

PART II: IS THE THERE HOPE?

Yes a coalition of the willing acting together with faith and hope!



Utin lap Banana

B-carotene content= 8508 mcg/100gBanana intake (g/d/p) = 93

RDI for Vit A covered = 220% by banana intake (%)



Cavendish Banana

B-carotene content= 26 mcg/100gBanana intake (g/d/p) = 93

RDI for Vit A covered = 0.7% by banana intake (%)

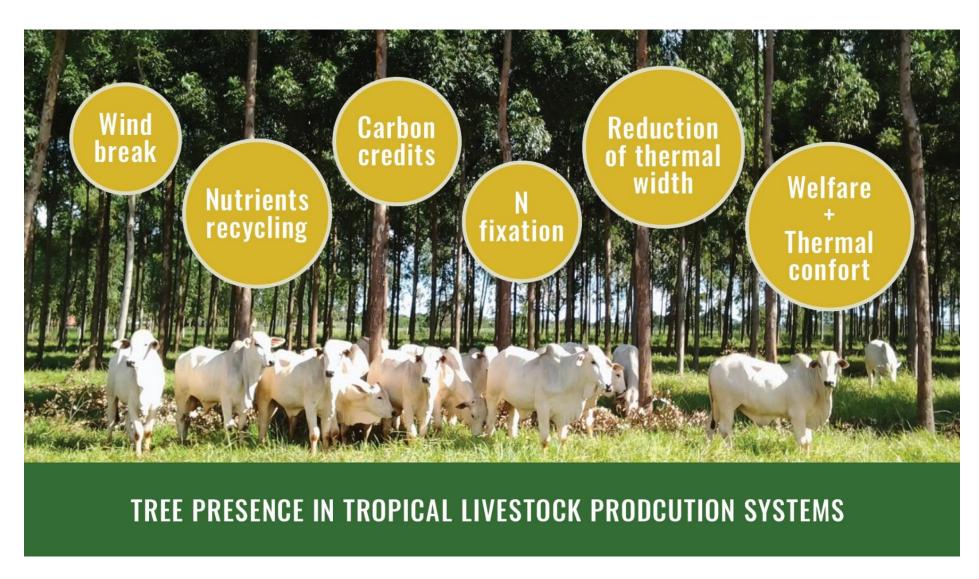
Even CO2 neutral coffee is an option







Brazilian CO2 neutral Beef



Loving ugly fruits and vegies





Why loving 'ugly' fruit and vegetables does more than just reduce your #foodwaste bit.ly/2yNmIGc

#ZeroHunger



What role does DSI have for the planet's and peoples 'challenges?

Digital Sequencing Information underpins many large scale investments in biotechnology and biological research.

more products will emerge from DSI separate from biological material of origin

more products will emerge from DSI analysis



design and manufacture of: medicines biofuels enzymes materials

disease diagnosis pathogen detection nutritional advice

SDG Targets and Indicators relevant to biodiversity

| SDG | SDG Title | Relevant SDG Targets | Indicators |
|------------------------------|--|--|--|
| 1 NO POVERTY | End poverty in all its forms everywhere | 1.2 / 1.4 / 1.5 | 1.2.2 / 1.4.2 / 1.5.2 |
| 2 ZERO HUNGER | End hunger, achieve food security and improved nutrition and promote sustainable agriculture | 2.1 / 2.2 / 2.3 / 2.4 / 2.5 | 2.1.1 / 2.1.2 2.2.1 / 2.2.2 / 2.3.2 2.4.1 / 2.5.1 / 2.5.2 |
| G CLEAN WATER AND SANITATION | Ensure availability and sustainable management of water and sanitation for all | 6.3 / 6.6 | 6.3.2 / 6.6.1 |
| 13 CLIMATE ACTION | Take urgent action to combat climate change and its impacts | 13.1 / 13.2 / 13.3 | 13.1.1 / 13.2.1 / 13.3.2 |
| 14 LIFE BELOW WATER | Conserve and sustainably use the oceans, seas and marine resources for sustainable development | 14.1 / 14.2 / 14.4 / 14.5 14.6 / 14.7 / 14.b / 14.c | 14.1.1 / 14.2.1 / 14.4.1 14.5.1 / 14.6.1 / 14.7.1 14.b.1 / 14.c.1 |
| 15 LIFE ON LAND | Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss | 15.1 / 15.2 / 15.3 / 15.4 15.5 / 15.6 / 15.8 / 15.9 15.a / 15.b / 15.c | 15.1.1 / 15.2.1 / 15.3.1 15.4.1 / 15.4.2 / 15.5.1 15.6.1 / 15.8.1 / 15.9.1 15.a.1 / 15.b.1 / 15.c.1 |

| SDG | SDG Title | Relevant SDG Targets | Indicators |
|--------------|---|----------------------|---------------------|
| 1 NO POVERTY | End poverty in all its forms everywhere | 1.2) 1.4 / 1.5 | 1.2.2)1.4.2 / 1.5.2 |
| | | | |

1.2 - By 2030, reduce at least by half the proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions

1.2.2 - Proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions

PART III: IF WE FAIL?

Our planet and our people in danger.

How a Warming Planet Drives Human Migration

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

