



<http://savory.global>

FACILITATING THE LARGE SCALE RESTORATION OF THE  
WORLD'S GRASSLANDS



# SCALING UP: THE GLOBAL NETWORK

A decentralized nodal network of regional learning Hubs, educating farmers on the benefits of Holistic Management and supporting implementation



SINCE 2009:



43  
Total Hubs

5,22  
Land Managers  
7 Trained

8,827,75  
Hectares of Land Under  
9 Management



Giving a  
**voice**  
to the land



# NZ Perspective

## The answer lies in the soil

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- Landcare estimates we loose 200 million tons of soil to the ocean annually through erosion
- Estimates of loss of 21 ton of carbon per ha from intensively grazed land
- High Inorganic N use
- High glyphosate use
- Low diversity
- Significant water quality issues



# PROBLEM

Reductionist thinking, industrialized agriculture, and extractive capitalism have wreaked havoc on our global grasslands, which represent 1/3 of Earth's land surface.



70%

Amount of Earth's grasslands facing desertification

\$24  
TRILLION

Global cost of poor land use by 2050

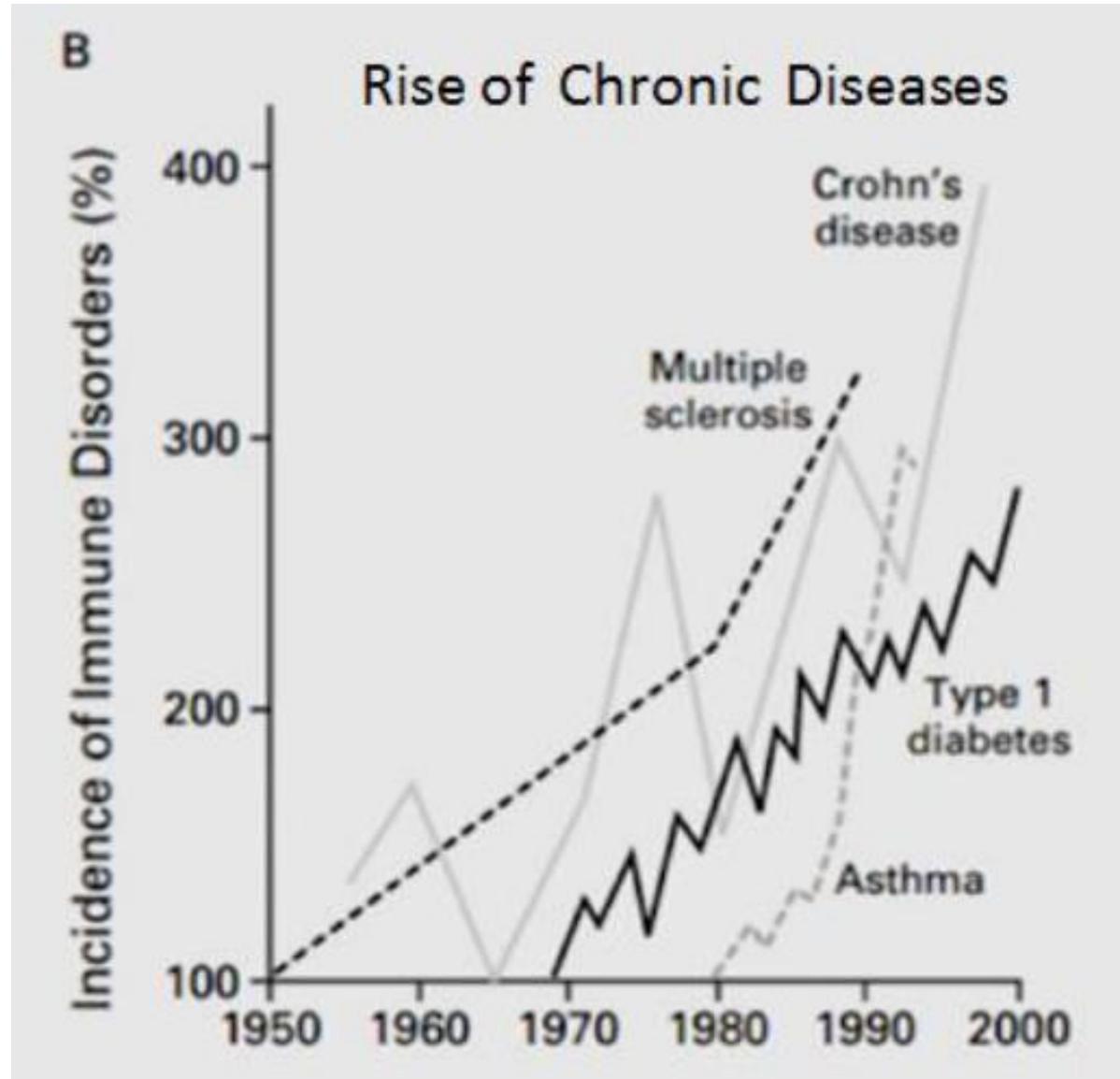
60  
YEARS

UN FAO's estimate of time left to farm at current rate of soil degradation

405  
PPM

Current level of atmospheric CO<sub>2</sub>, up from pre-industrial level of 280ppm.

# Impact of Agriculture on Chronic Disease Through Food



# New First World Epidemics

(Jan. 2019 Dr. Zach Bush)

Data for the US

<https://www.youtube.com/watch?v=HL6OPzQe9Is>

Autism 1:36 (in 1975 one in 5000 children with autism, by 2010 one in 100)  
by 2035 expect to hit 1:3 children with autism

Asthma 1:10

Attention deficit 1:8

Allergy 1:4

Diabetes 1:4

Obesity 1:3

Major depression 1:2

Cancer 1:2 (expect this to reach 70% by 2035, does not include skin cancers)

Dementia (by age 28, 100% of the US population is showing early signs of dementia)

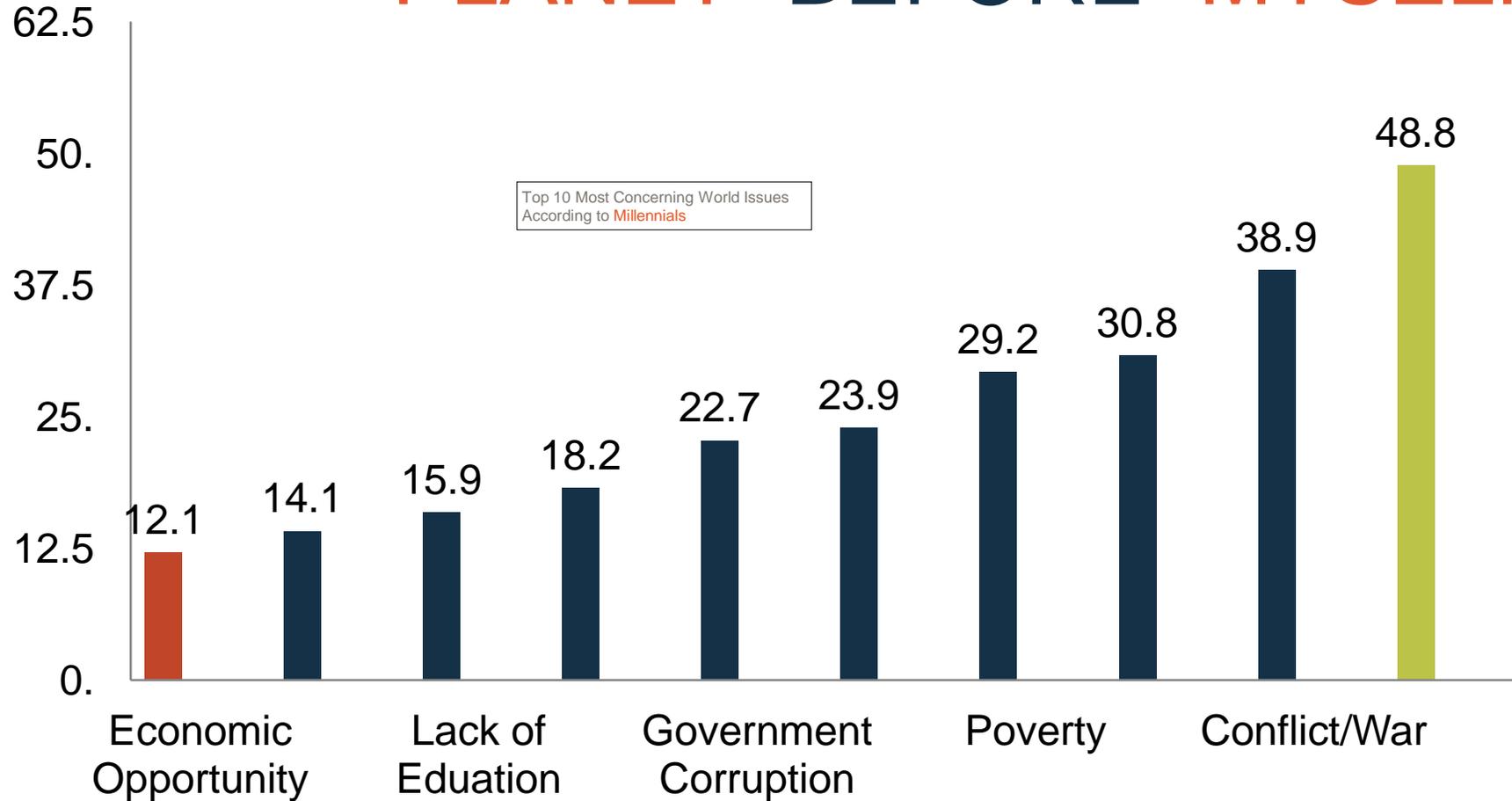
Infertility 1:4 females infertile 1:3 men infertile

In 1965, 4% of the US population had a chronic disease  
Today, 46% of the children have chronic disease



āta   
SIMPLY BETTER

# TODAY'S CONSUMERS PUT "MY PLANET" BEFORE "MYSELF"



**91%** of consumers believe companies that pollute the environment **should be fined**

**90%** would **switch brands** to one **with a cause**

**73%** would **spend more** on a product from **a sustainable brand**

**86%** do not believe that there is enough **information on products** for consumers to assess how sustainable they are

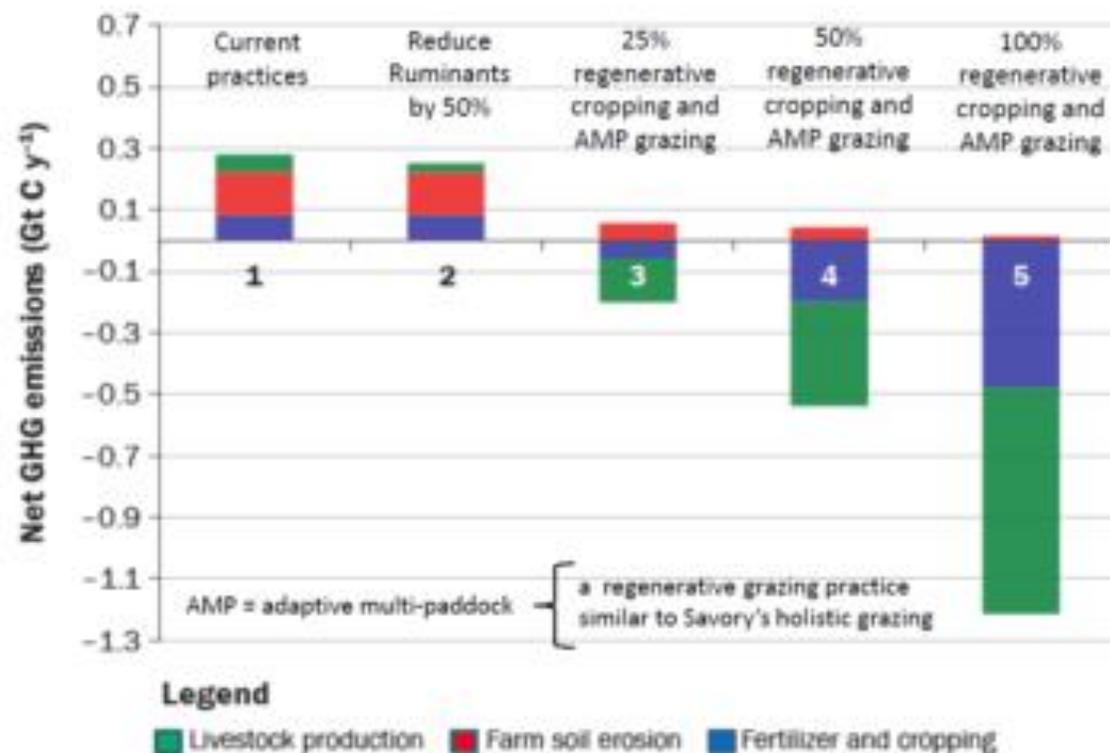
**Consumers are craving to engage with brands that will lead.**

# Ecosystem Function



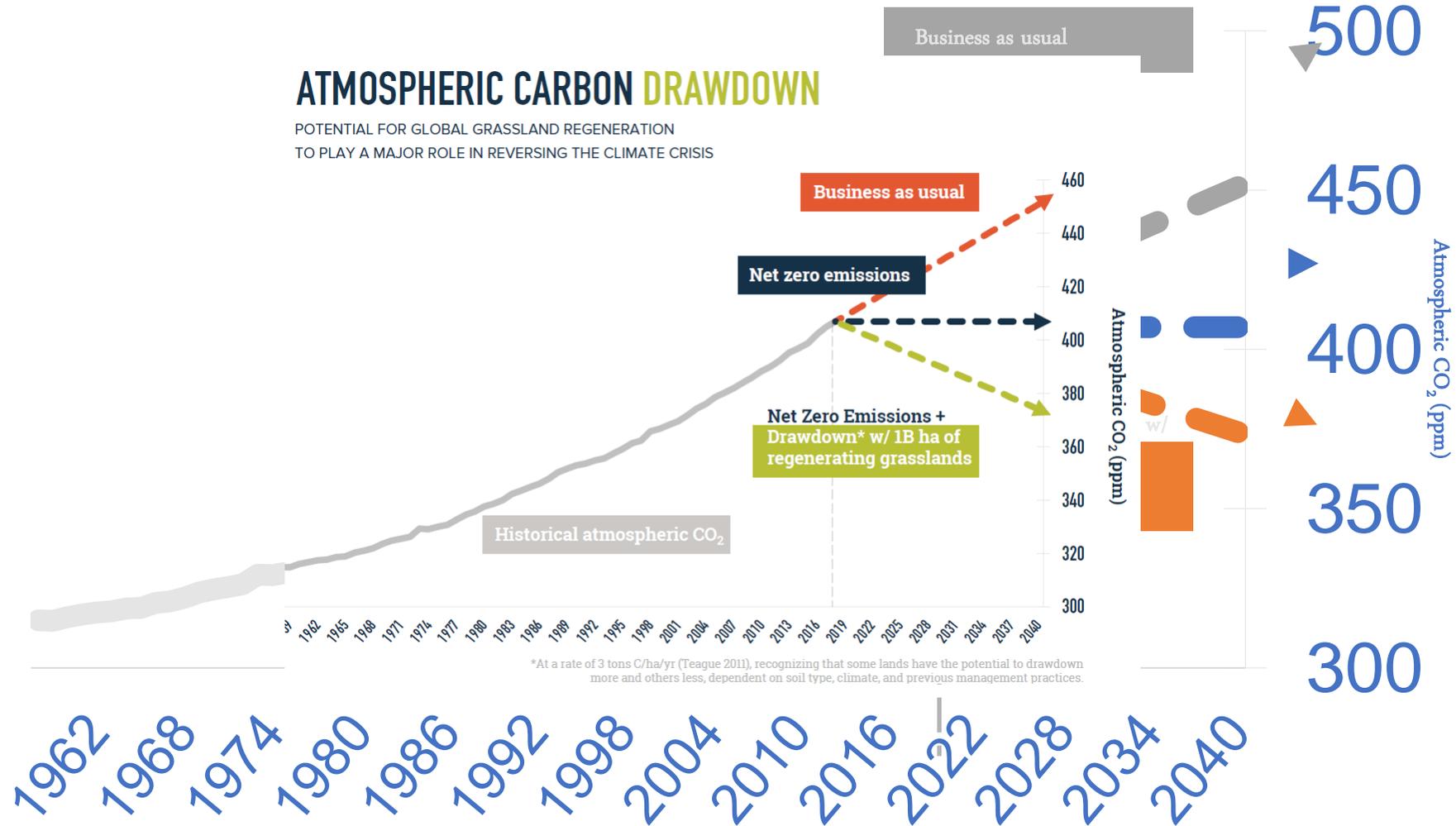
## Best working hypothesis for North American net agricultural greenhouse gas (GHG) emissions for a transition to regenerative cropping and regenerative grazing practices

Based on: W.R. Teague + 11 authors, *Journal of Soil and Water Conservation*, 71, #2, p. 156, 2016  
 See also Quivira Conference presentation: <https://www.youtube.com/watch?v=crG4L4I-OEg>



# ATMOSPHERIC CARBON DRAWDOWN

- POTENTIAL FOR GLOBAL GRASSLAND REGENERATION TO PLAY A MAJOR ROLE IN REVERSING THE CLIMATE CRISIS



\*At a rate of 3 tons C/ha/yr (Teague 2011), recognizing that some lands have the potential to drawdown more and others less, dependent on soil type, climate, and previous management practices.

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# PROVEN RESULTS

Land managers across the globe have been regenerating grassland ecosystems since Allan Savory first began teaching Holistic Management in the early 1980's.



## Ecological

By mimicking ancestral grazing patterns of grassland herbivores, Holistic Management restores ecosystem function at the landscape level.

## Economic

When regenerating soil fertility and growing more grass, input costs decrease while carrying capacity and the resulting profits increase.

## Social

Resources, support, and a decision-making framework allow for more easily dealing with the complexities of managing land and livestock.

# ATMOSPHERIC CARBON DRAWDOWN

“Properly managed grazing, if applied on **25% of our crop and grasslands**, would mitigate the **entire carbon footprint** of North American agriculture.”

- Teague & Rowntree 2016

Soil from properly managed grazing operations can sequester **4-7 tons more carbon/hectare/year** compared to continuous grazing.

- Teague 2018

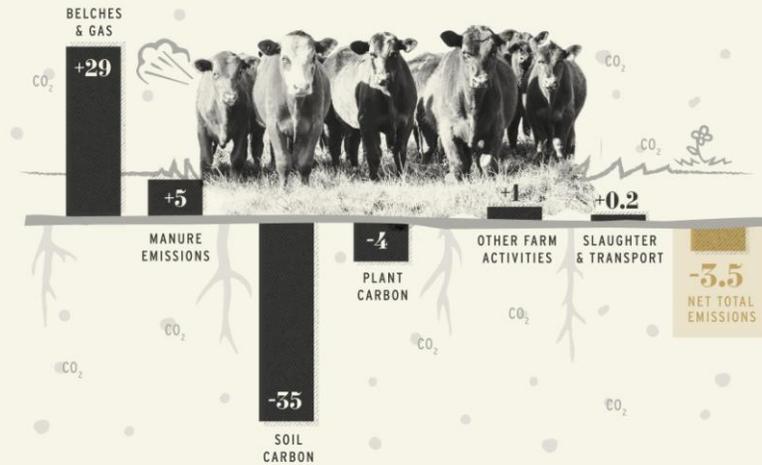


# CAN CATTLE BE GOOD FOR THE CLIMATE?

## WHITE OAK PASTURES BEEF SEQUESTERS MORE CARBON THAN IT EMITS

Emissions breakdown for every pound of White Oak Pasture's beef produced:

(POUNDS OF CO<sub>2</sub> EQUIVALENT)

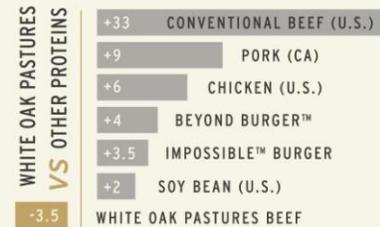


### REGENERATIVE PRACTICES THAT PUT CARBON UNDERGROUND



### NET TOTAL EMISSIONS

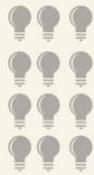
(PER POUND OF PRODUCT)



THROUGH WOP BEEF PRODUCTION IN 2017,

**919 TONS OF CO<sub>2</sub>**  
WAS SEQUESTERED IN THE SOIL  
(WITH THE HELP OF PLANTS + COMPOST)

THAT'S ABOUT THE EQUIVALENT OF SWITCHING **31,679** INCANDESCENT LIGHT BULBS TO LEDs



IN 2017, U.S. HAD OVER **30 MILLION CATTLE** and **11** MILLION WERE ON FEEDLOTS  
**WHITE OAK PASTURES HAD 3055** RAISED ON PASTURES

CREATED BY **EPIC PROVISIONS**

SOURCES: USDA National Agriculture Statistics Service Cattle Inventory [https://www.nass.usda.gov/Charts\\_and\\_Maps/Cattle/ncow.php](https://www.nass.usda.gov/Charts_and_Maps/Cattle/ncow.php) | Quantis, Carbon Footprint Evaluation of Regenerative Grazing at White Oak Pastures [www.quantis-intl.com](http://www.quantis-intl.com) | EPA, Greenhouse Gas Emissions

# WHY REGENERATIVE?



Modern **investors** and shareholders are beginning to equate negative environmental impact with risk, and ultimately volatility. Brands that are committed to regenerative outcomes can show why they belong in these savvy investors' portfolios.

Amidst today's mission-focused career trend, brands are showcasing their commitment to positive environmental outcomes to decrease **employee** turnover.



**Customers** are hungry to utilize their spending dollars as a force for good. Brands leading in this space have the opportunity to increase both customer loyalty and market share.



# Regenerative farm management

- creates a robust soil microbiome and supports common mycelial networks
- improves aggregate stability, soil structure and function
- increases soil carbon sequestration and carbon storage capacity
- enhances the capacity of the soil to act as an effective bio-filter
- evens out feed availability throughout the year
- maintains or improves herbage yield and production
- reduces urinary N excretion by 20 to 50%
- reduces reliance on high-analysis N and P fertilisers, herbicides, insecticides and fungicides
- optimises soil, plant, animal, and human health, water quality and farm profit

**When the entire farm functions on healthy soils catchment health and water quality are vastly improved. Healthy soils underpin high-yielding agricultural production, farm profit and the health of the nation.**





The protocol  
measures  
outcomes  
rather than  
practices

# Ecological Outcome Verification

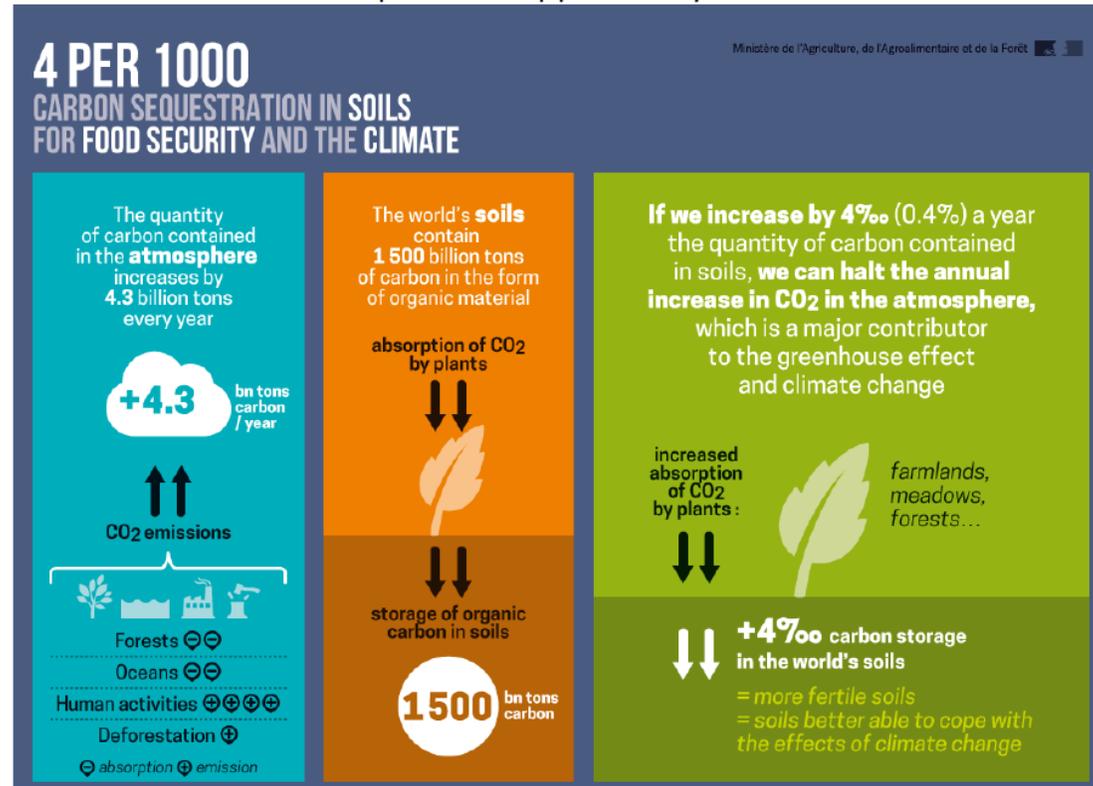
- 16 point monitoring strategy
- Leading and Lagging Indicators
- Short and Long-term monitoring
- Soil Health and Soil Carbon
  - Eight soil cores per long-term transect



## French Government's '4 per 1,000' Initiative proposed at the Paris Climate meeting COP 21

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France is committed to ensuring that at least 50% of its agricultural holdings will have adopted this approach by 2020.



Before

After

Annual

Perennial

Monoculture

Polyculture

Manipulation of Parts

Management of Wholes

Reactive

Proactive

*reductionist*

*holistic*

Savory



Australia

