

# Ecosystem Restoration through Regenerative Agriculture

A Restoration World Tour from the “4 per 1000” Fair

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RÉGÉNÉRATION  
CANADA

# State of global soil



**20.5-33 Pg soil/yr**

Erosion induced soil loss



**133 Pg**

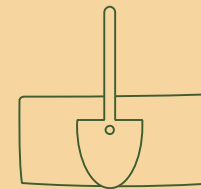
Soil Carbon lost  
since the dawn of  
agriculture

FAO



**4 tons/acre/yr**

Yearly top-soil loss



**66 Pg**

Soil Carbon loss since  
1850

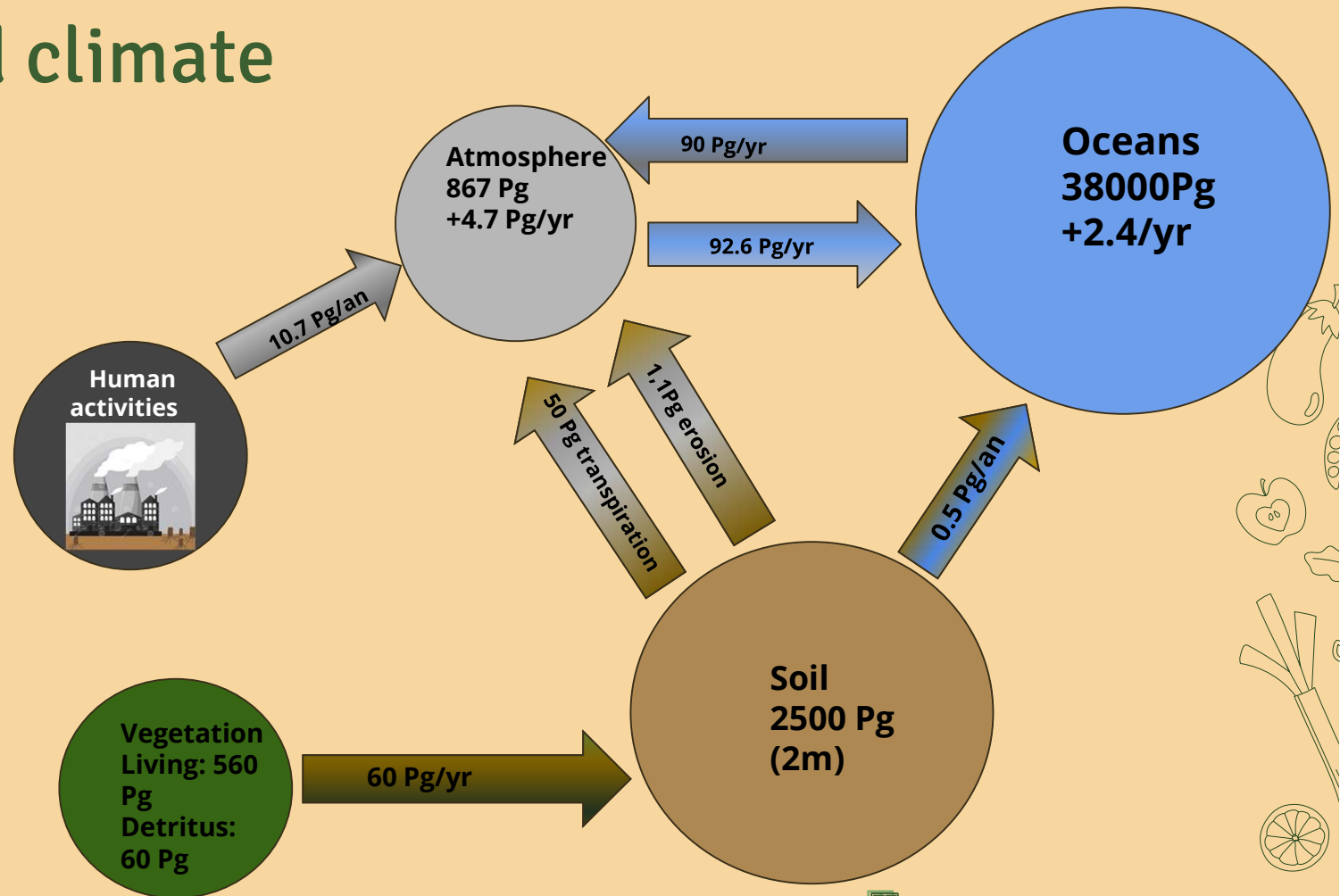


**25-75%**

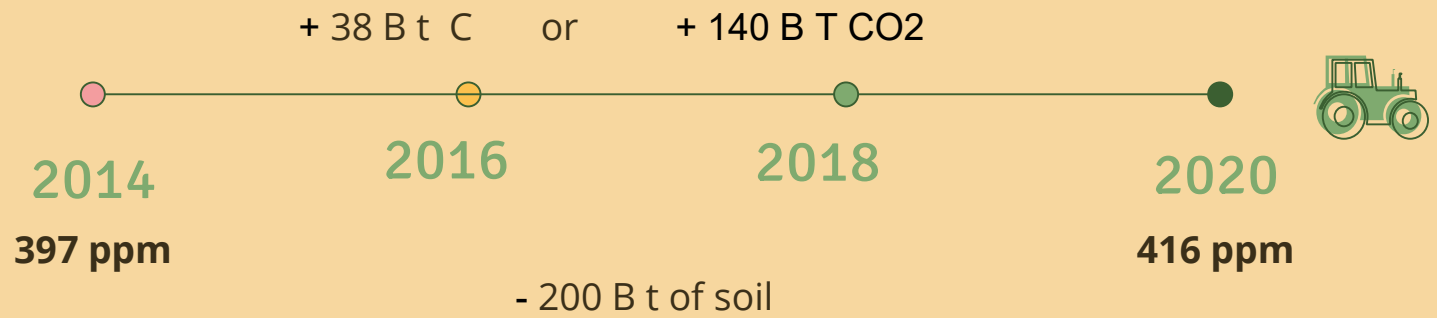
Carbon loss from  
agricultural land

Lal et al, 2015

# Soil and climate change



**+ 19 ppm**



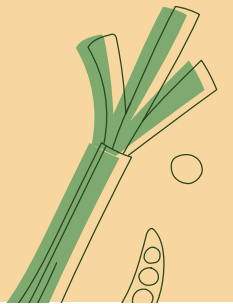
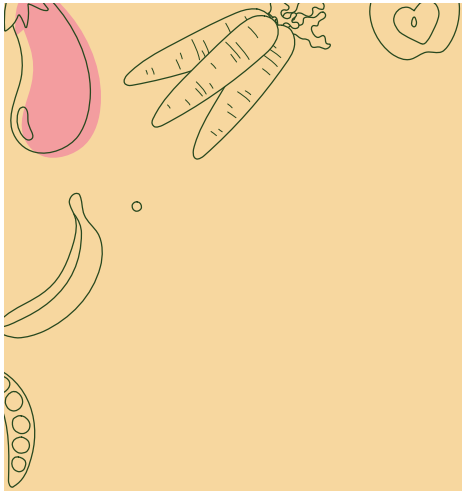
**2018**

Total emissions: 55.3 GT CO2 e  
From Agriculture : 6.2 GT CO2 e  
Food system at large : +/- 20 GT CO2 e

Rodale Institute, 2020



# Regenerative Agriculture

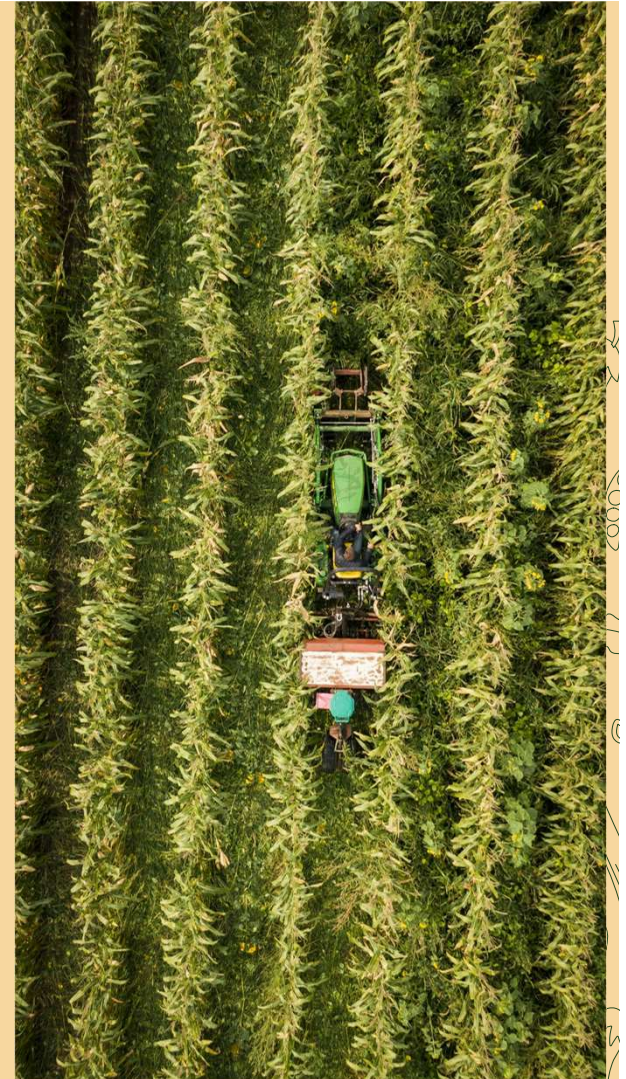




**Regenerative agriculture** is based on principles of land management which reverse current trends of degradation in soil, water and air quality by enhancing the soil ecosystem and restoring its biology. Principles of regenerative agriculture aim to draw down atmospheric carbon into soil and the aboveground biomass, helping to reverse climate change.



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# Ecological services of a healthy soil



Enhance crops and food nutritious values



Sequester and stock Carbon



Improve water cycles



Restore biodiversity



REGENERATIVE  
AGRICULTURE  
RÉGÉNÉRATRICE



illustration par / by  
LAUCOLO



# Regenerative Agriculture as a Restoration Strategy

Reduce usage of synthetic fertilizer

Reduce soil compaction

Enhance soil structure

Reduce erosion

Enhance biodiversity

Better crop yields

Increase organic matter

Improve water quality

Soil Carbon sequestration

More nutrition for the plant



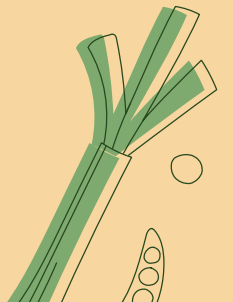
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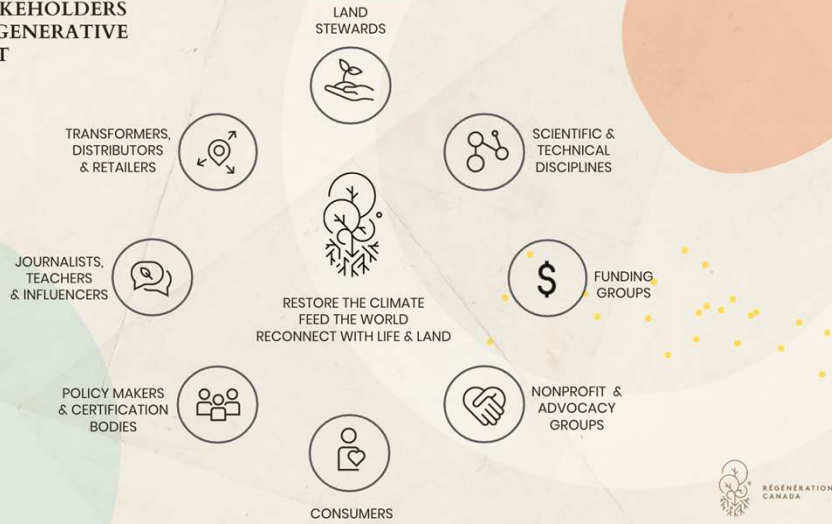
# RÉGÉNÉRATION CANADA

**Our mission** is to promote soil health regeneration across Canada to help mitigate climate change and build a healthy food system.

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## MAJOR STAKEHOLDERS OF THE REGENERATIVE MOVEMENT



## Multi-stakeholders Approach

## Our Strategy

- Awareness
- Network building
- Education



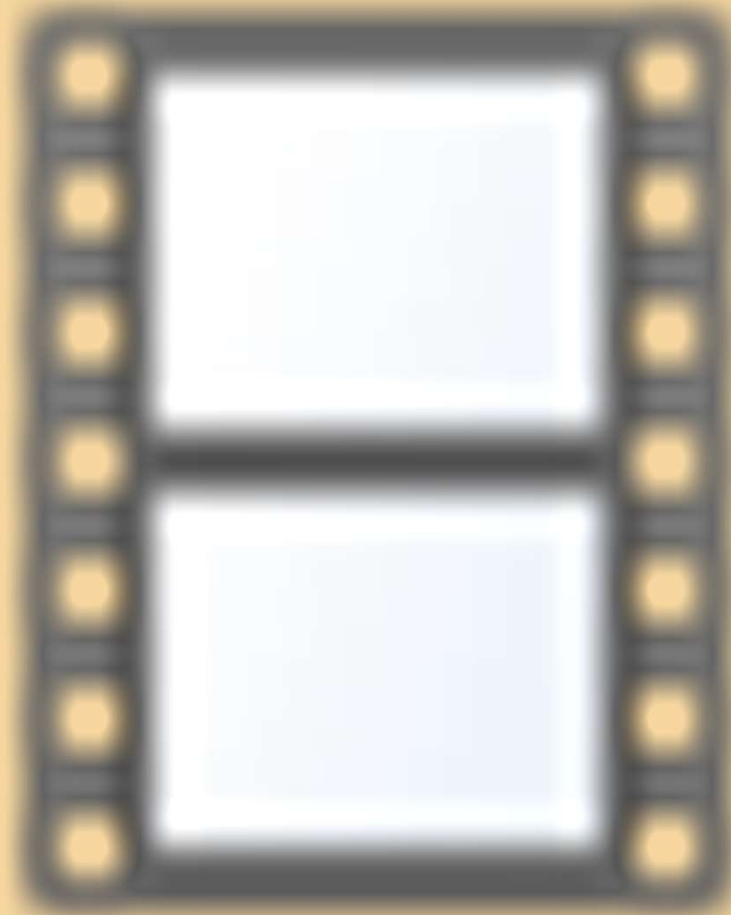


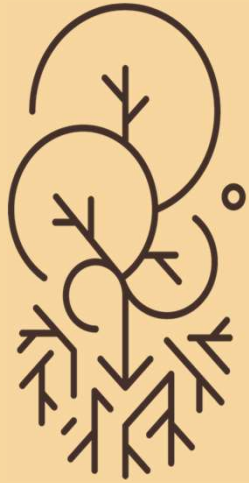
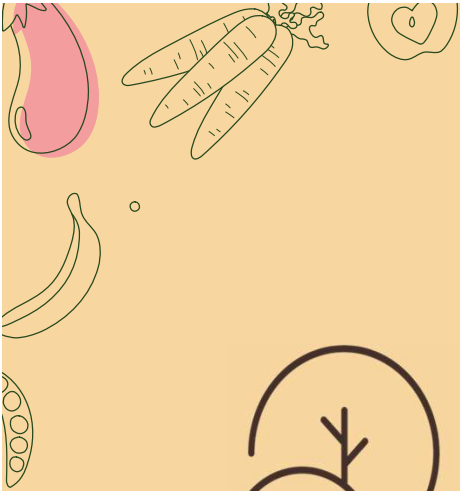
## Interactive map of regenerative maps in Canada

- Connects consumers to regenerative producers
- Encourage peer-to-peer learning among farmers
- Launched in March 2021
- 90 farms
- 78784 acres across Canada



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**Thank you!**

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