

# Global Compost project

there is too much carbon in the air,  
and too little in the soil

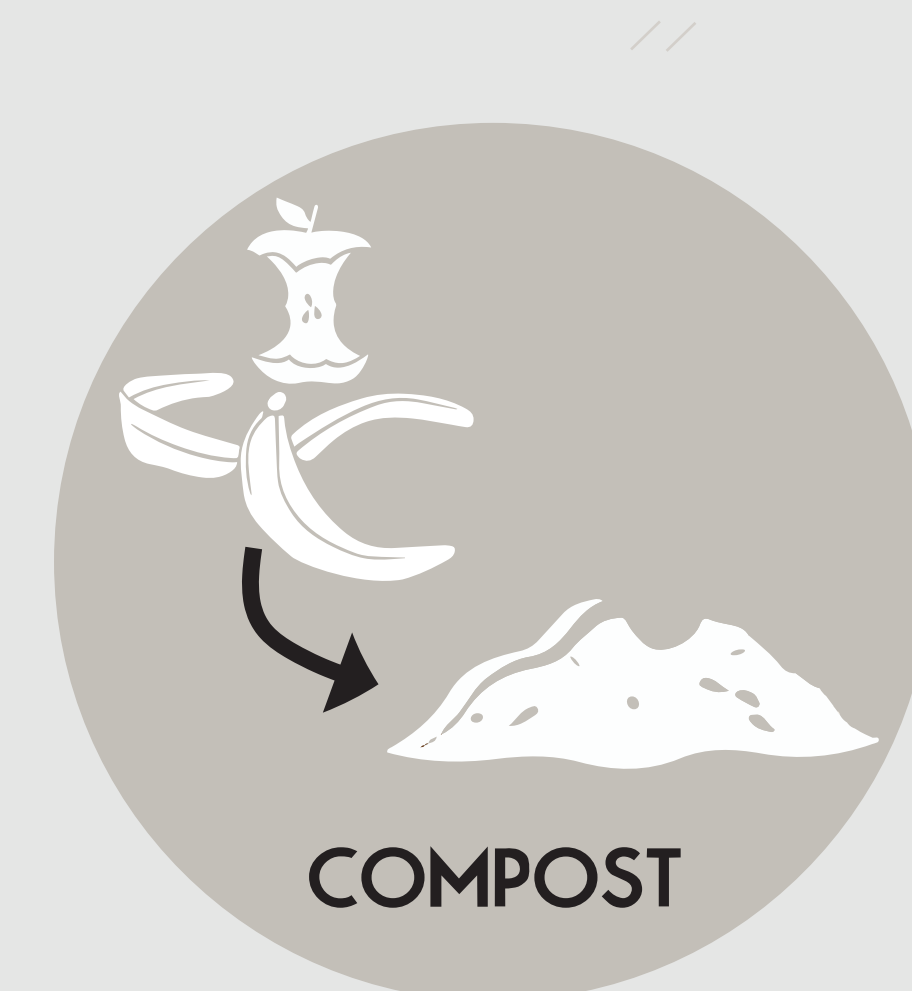
## THE CARBON CYCLE

Carbon based molecules are the building blocks of all organic matter. On earth there is a finite amount of carbon and it cycles. A major part of it is the process of photosynthesis, in which plants produce food by pulling carbon out of the air and converting it into oxygen and glucose (energy).

Currently there is too much carbon in the air and too little in the soil, which is resulting in natural depletion, deforestation, ocean acidification, desertification.

### COMPOSTING

- the tool to clean up our mess



COMPOST

Applying a 1cm layer of compost to once acre of grasslands, pulls 1.5 tons of carbon from the air back into the soil

CARBON IS.....

CO<sub>2</sub> IN AIR

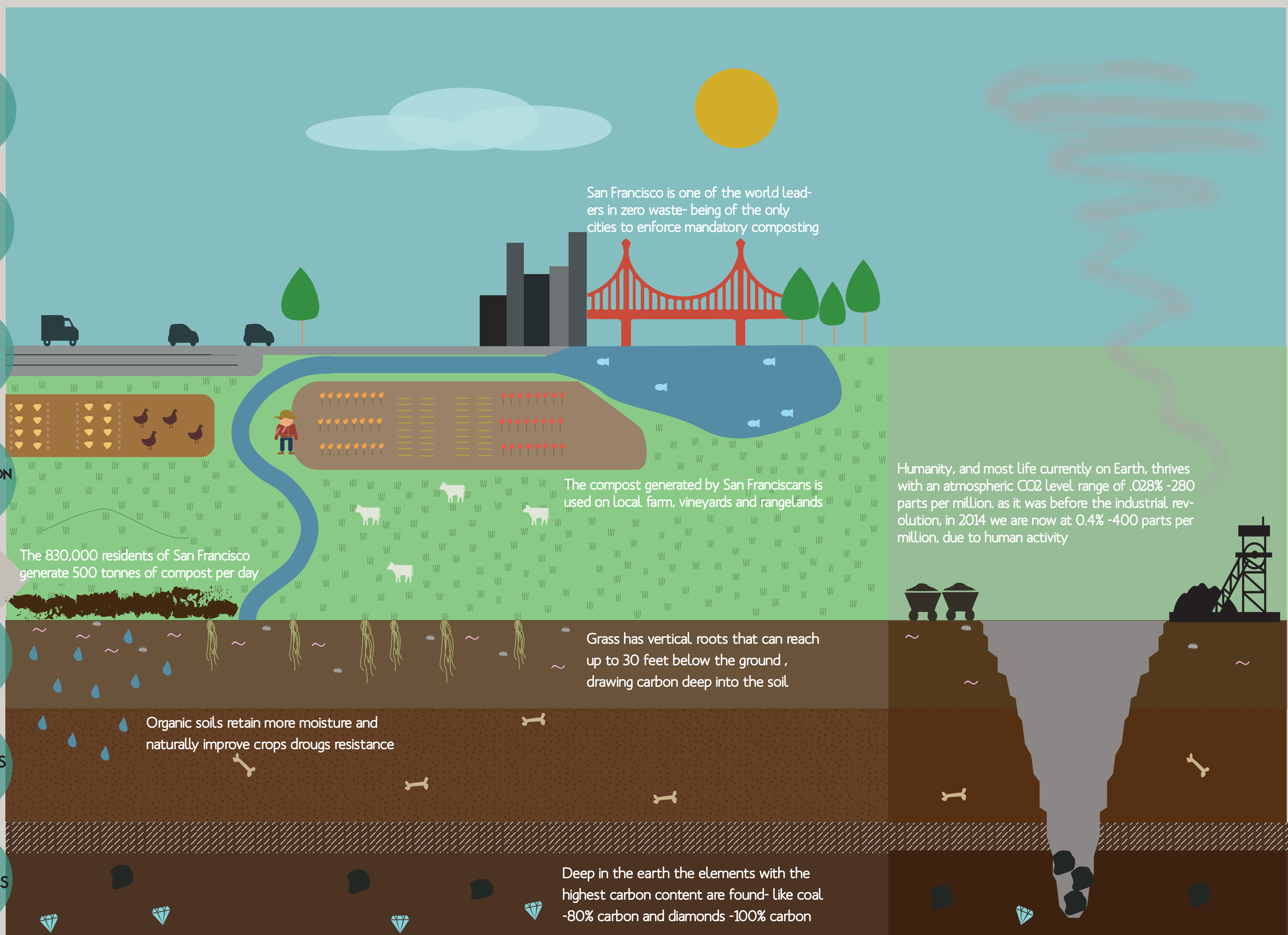
18% OF HUMANS

ACIDIFICATION IN WATER

FOSSIL FUELS IN ENERGY

NUTRIENTS IN SOIL

COAL & DIAMONDS IN THE EARTH

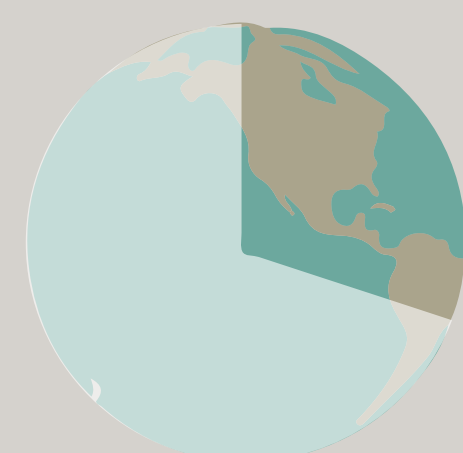


## COMPOSTED SOIL

How to: We take anything that was ever alive- plants, animals, food, cotton, roadkill, brown waste, yard waste, green waste etc etc...

-Pile it one meter high, and aerate it, this makes the microbes inside thrive- moving quickly, to break down matter into pathogen free- nutrient rich compost, to be applied to vegetation.

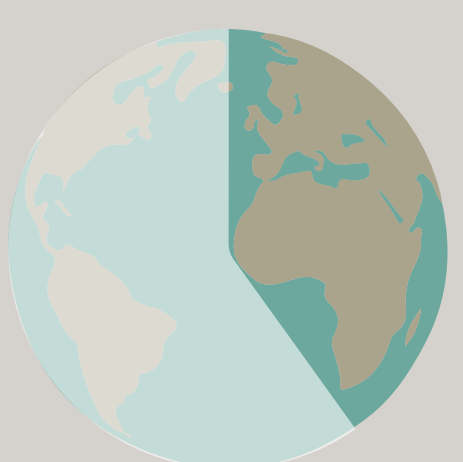
Adding compost to grazed grasslands has been demonstrated to be an effective way to increase soil carbon sequestration and avoid emissions related to the anaerobic decomposition of organic waste material in landfills. Grazed grasslands represent a large portion of agricultural working lands, and a number of recent studies have highlighted that globally grasslands are in a state of degradation.



30%

of the USA is grass lands

That is 770 million acres of grass rangelands to be covered in compost



40%

of the Earth is grass lands

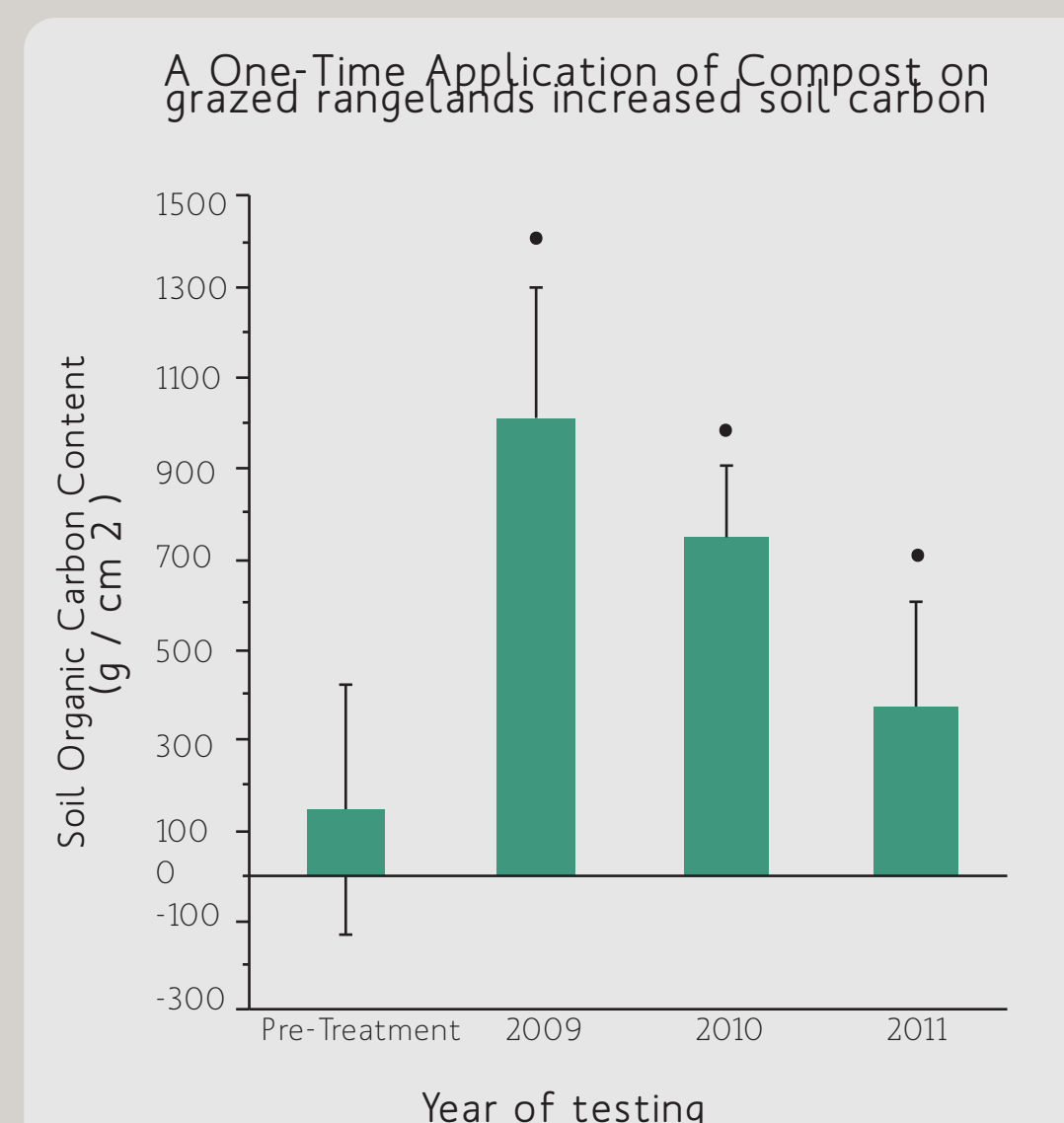
A one time application of 1cm of compost on a hectare of rangelands, every 10 years  
- will annually pull 1 tonne more of CO<sub>2</sub> from the air than a non composted hectare

## HOW COMPOST RECAPTURES CARBON

● Avoidance of anaerobic decomposition of organic waste that would otherwise go to landfill and release the greenhouse gasses of Methane and CH<sub>4</sub>

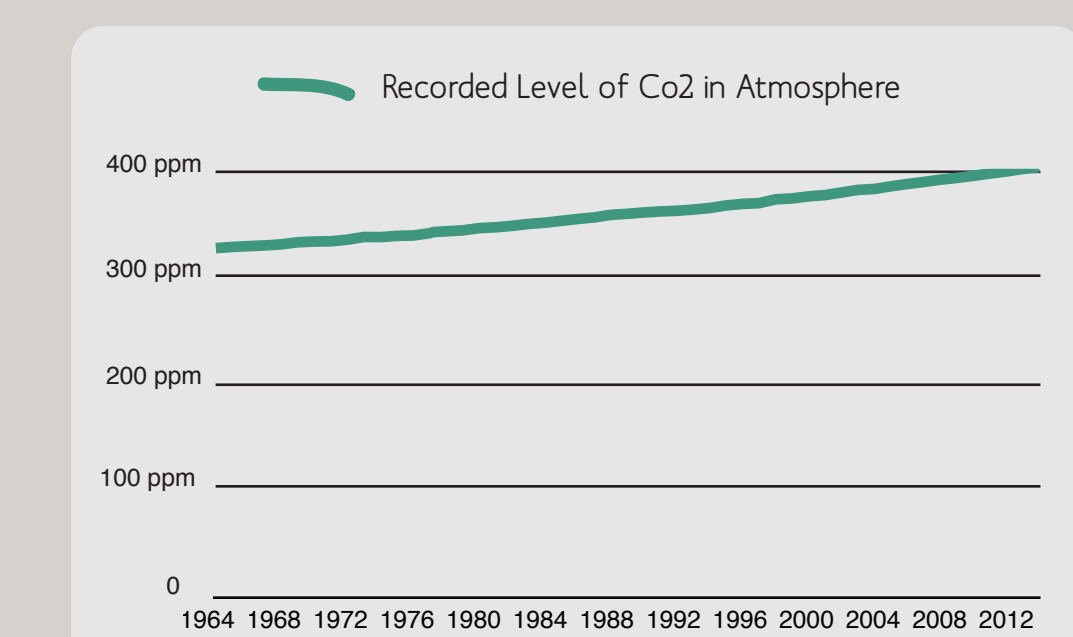
● Direct increase in soil organic carbon content through adding a carbon source from compost to soil

● The indirect increase in soil organic carbon sequestration through enhanced plant growth, boosting photosynthesis, as well as improved water holding capacity in the soil



## Carbon Dioxide Pollution:

Greenhouses gases, such as carbon dioxide, trap heat in the atmosphere and regulate our climate. These gases exist naturally, but humans add more carbon dioxide by burning fossil fuels for energy (coal, oil and natural gas) and by clearing forests. Greenhouse gases act like a blanket, the thicker the blanket, the warmer our planet becomes.



## Causes of increased CO<sub>2</sub> content in atmosphere:

