

LET'S NOT SPOIL OUR SOIL

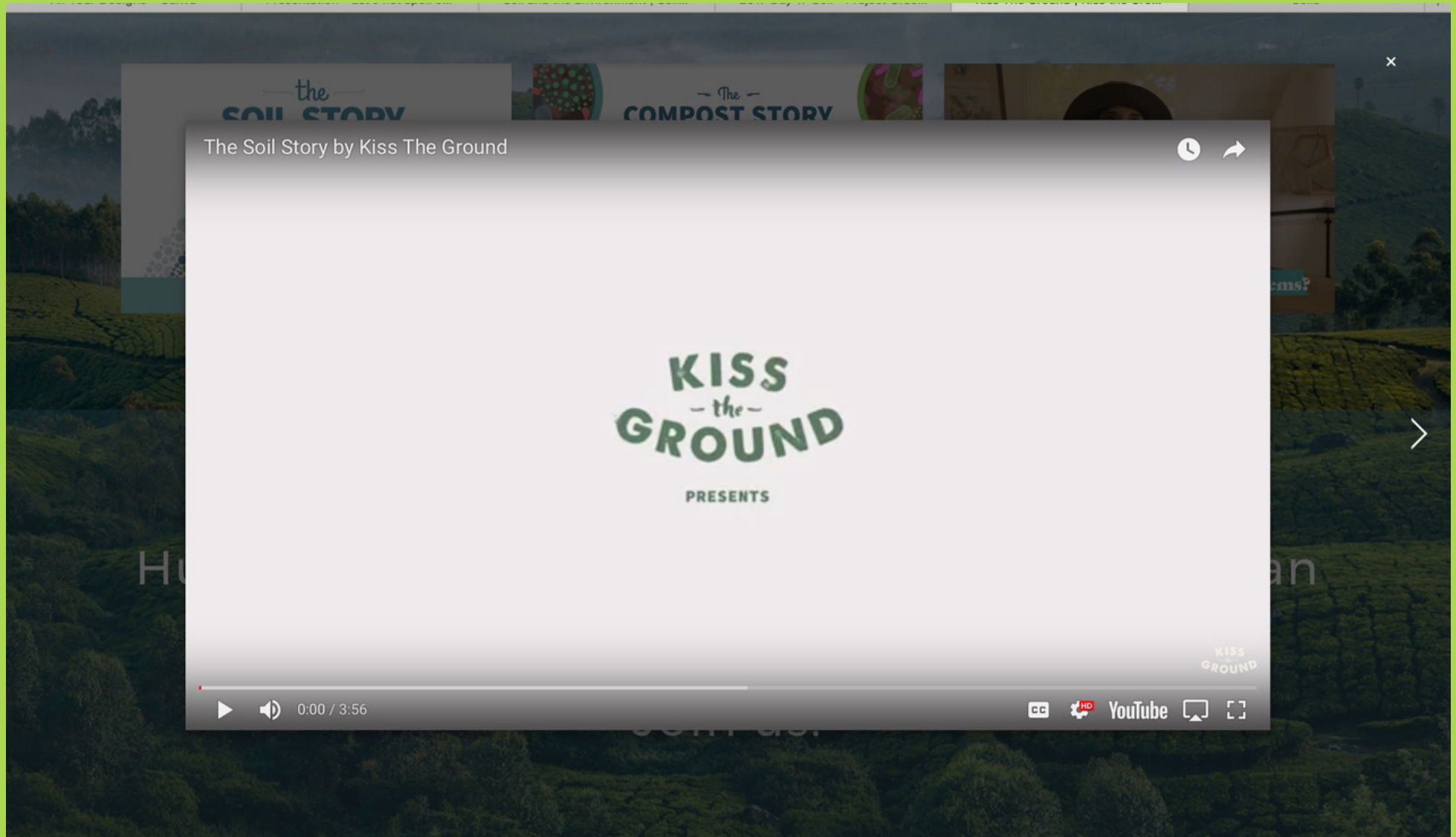
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<https://kisstheground.com>

WHY SHOULD WE CARE?

ECOSYSTEM SERVICES

Air Quality and Composition

- prevents erosion
- air particulates can accumulate in lungs
- EX: Dust Bowl

Temperature Regulation

- chemical reactions
- biological reactions
- help in seed germination, plant/animal decay

Carbon and Nutrient Cycling

- large amounts of stored carbon(5x)
- balance of organic compounds
- similar to Nitrogen and Phosphorus



Water Cycling and Quality

- soil acts as a sponge
- water can be taken by plants, microbes, etc.
- aquifers, lakes, then ocean
- soil acts as a filter

Natural "Waste" and Decomposition

- converts waste into reusable items
- decomposition of waste
- RECYCLING

UNFORTUNATELY

Practices such as farming, urbanization, and mining are damaging our soil's quality. Instead of hurting our environment we should work together and find solutions for this problem.

SOLUTIONS

01

Farmers can utilize: crop rotation, conservation tillage, terraces, windbreakers, contour plowing

02

Reduce deforestation, since forest and soil sequester carbon, but when cut release carbon dioxide, climate change

03

Land reclamation: encompasses activities centered towards restoring the previous organic matter and soil's vital minerals



MEET SOME SOIL HEROS



Vandana Shiva

Her books *The Violence of the Green Revolution* and *Monocultures of the Mind* pose essential challenges to the dominant paradigm of non-sustainable, industrial agriculture. Through her books *Biopiracy*, *Stolen Harvest* and *Water Wars*, Dr. Shiva has made visible the social, economic and ecological costs of corporate-led globalisation.



Paul Hawken

Paul has founded several companies, starting in the 1960s with Erewhon Trading Company, one of the first natural food companies in the U.S. that relied solely on sustainable agricultural methods. He went on in 1979 to co-found Smith & Hawken, the retail and catalog company.

THANK YOU QUESTIONS?



I'm sorry you may have mentioned
this in your presentation, but how
does farming affect our soil?
-Deborah Duarte



FARMING AND SOIL

Erosion commonly occurs following conversion of natural vegetation to agricultural land – carrying away fertile soil as well as fertilizers, pesticides and other agrochemicals. Soil carried off in rain or irrigation water can lead to sedimentation of rivers, lakes and coastal areas



I enjoyed being a teacher for five minutes because I could see how my audience was attentive to the presentation. It was an awesome experience because I was welcomed and received a positive feedback! I will continue to present more to my fellow peers about environmental issues.