

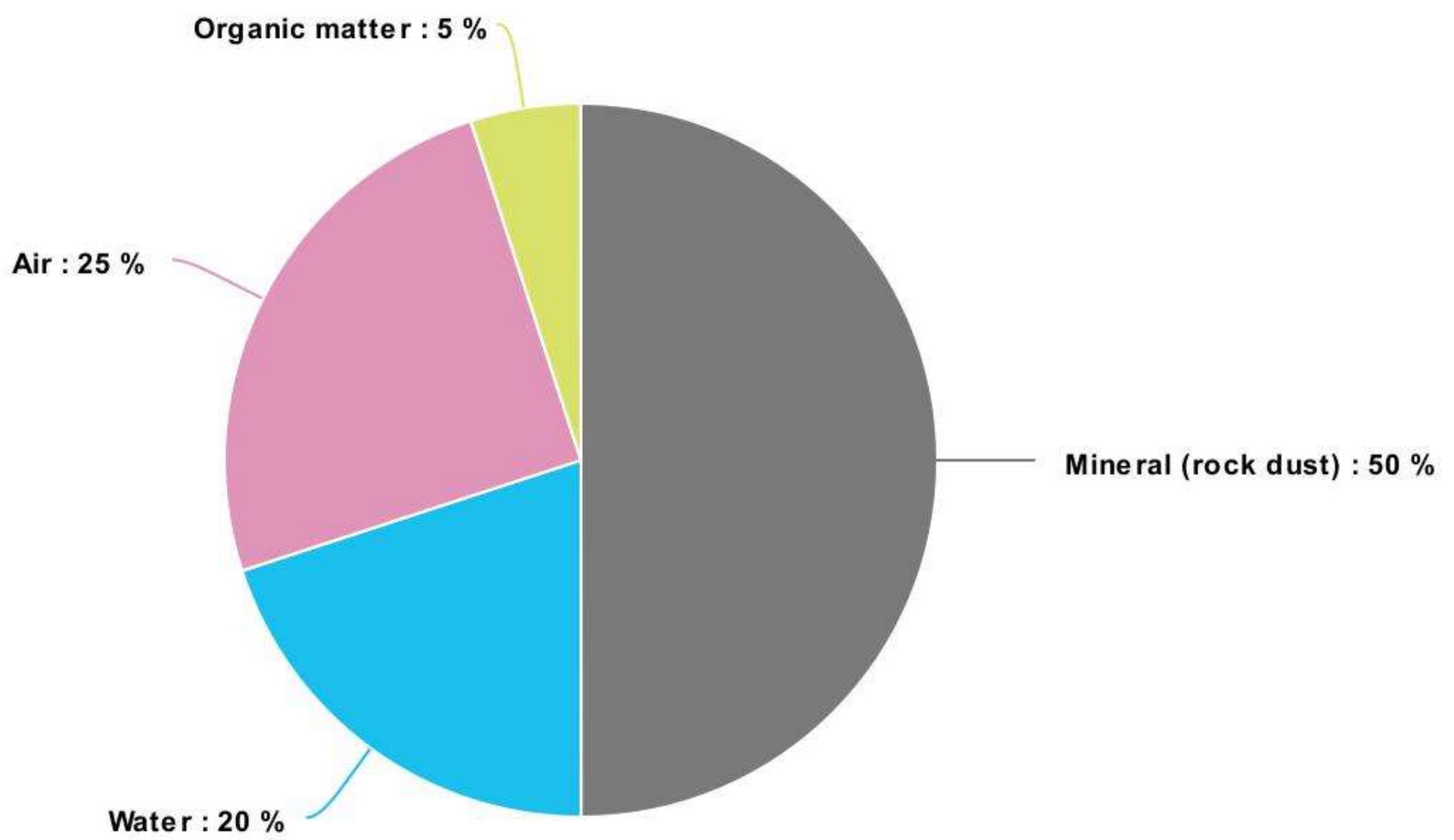


What is healthy soil – and how does compost fit in?

What functions does healthy soil perform?

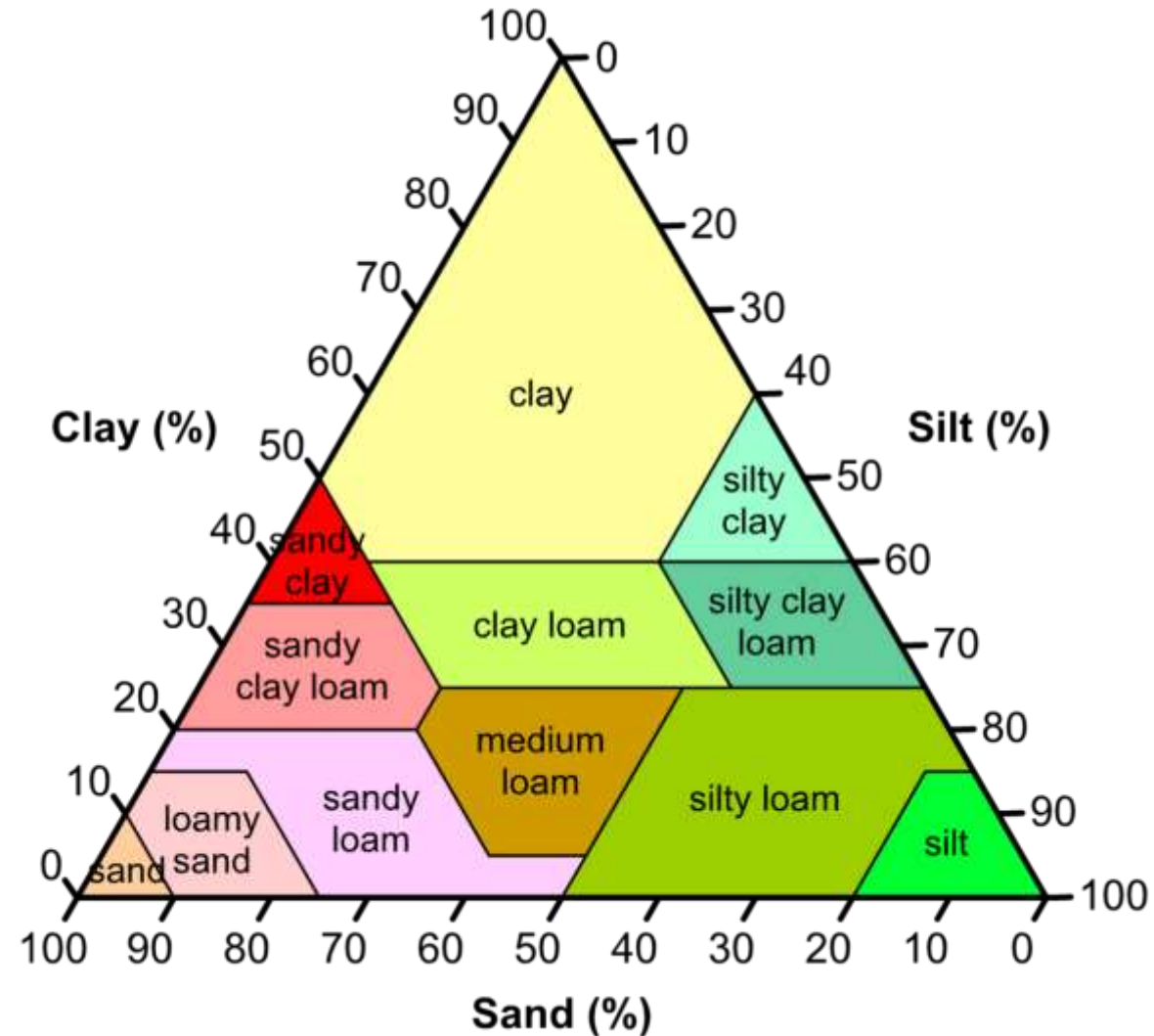
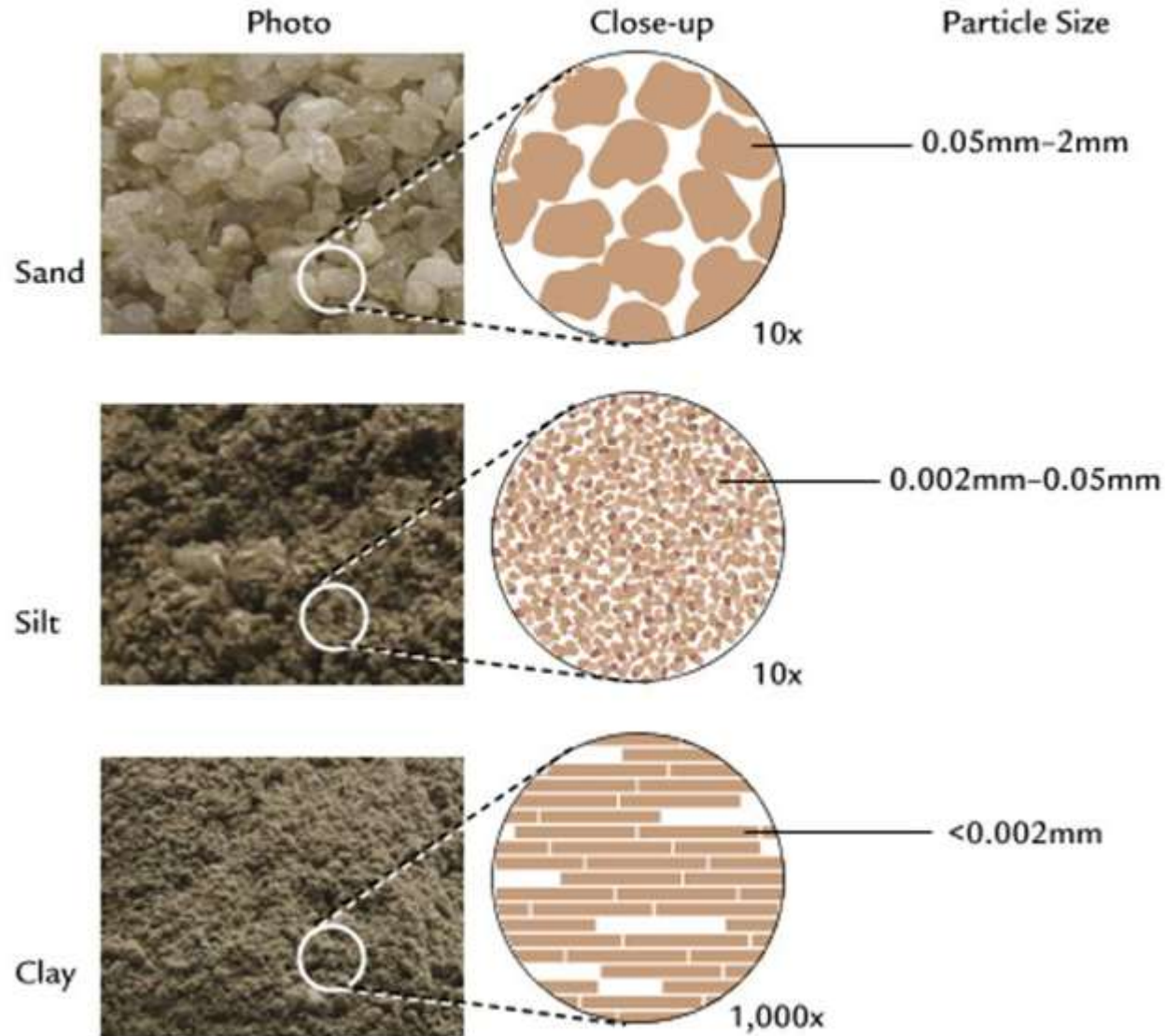
- Nurturing plant roots
- Decomposing dead plants and animals
- Habitat for an ecosystem of soil organisms
- Soaking up and filtering water
- Storing a pool of carbon

Soil

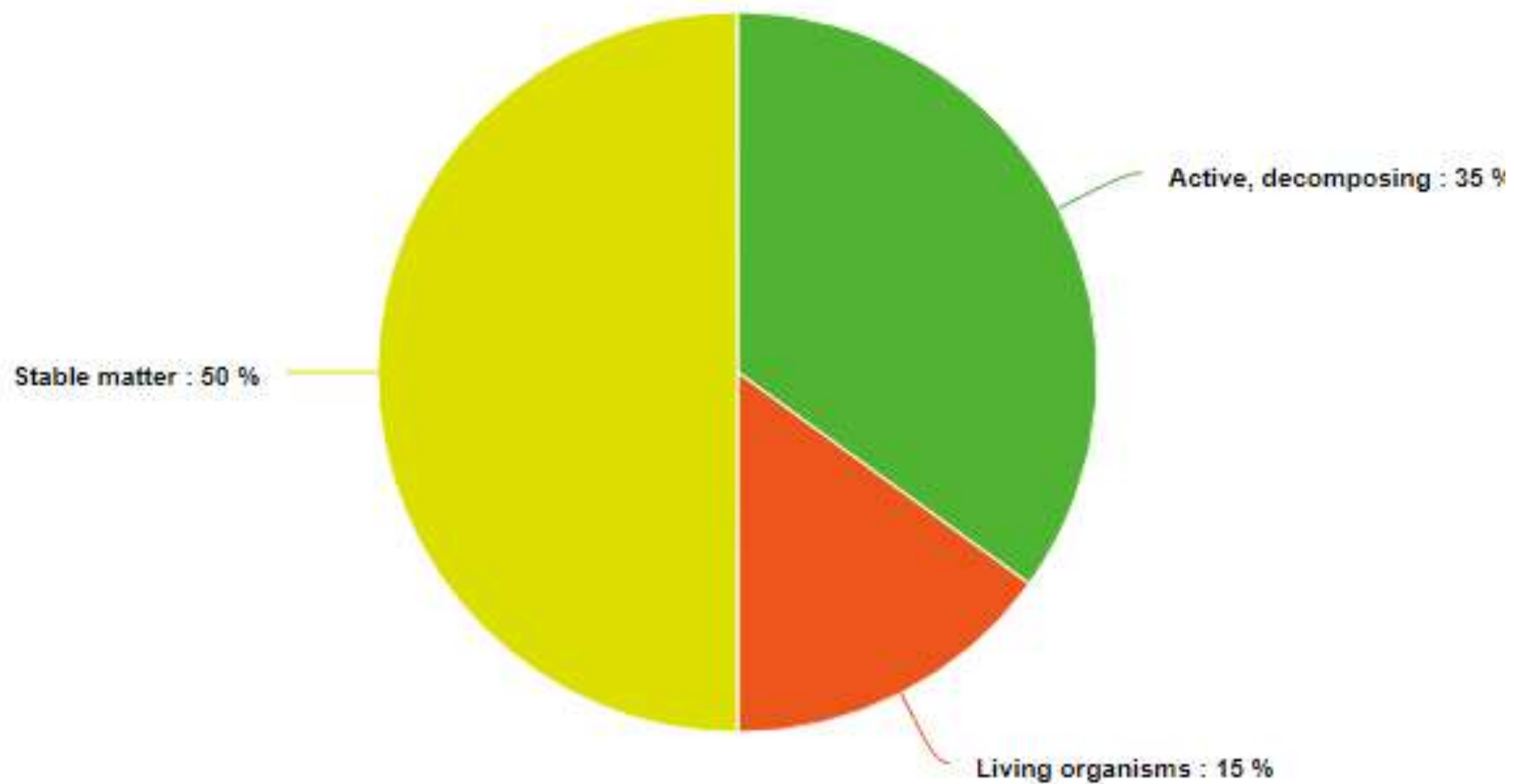


■ Mineral (rock dust) ■ Water ■ Air ■ Organic matter

Sand, Silt, and Clay



Soil organic matter

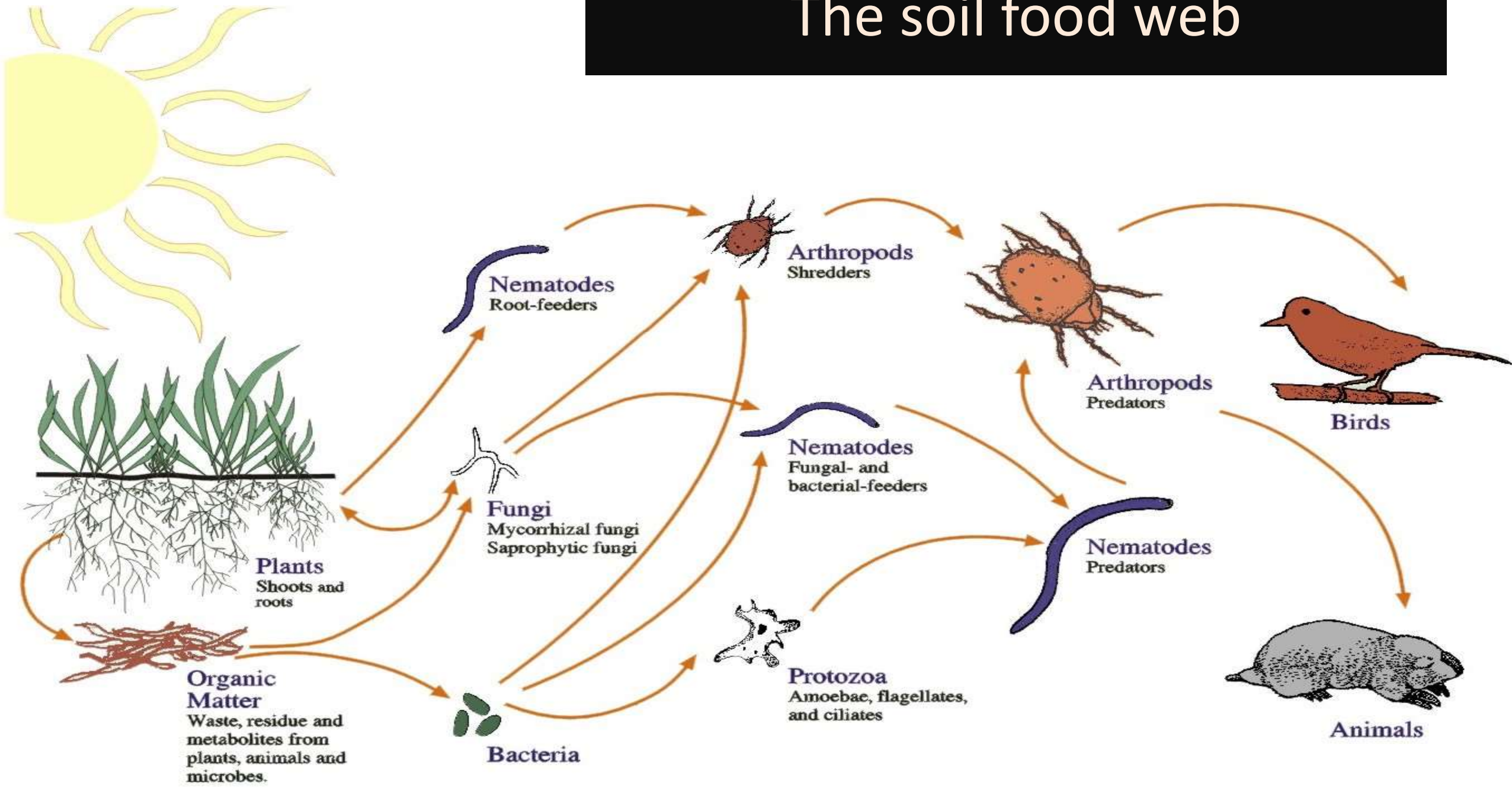


Active, decomposing

Living organisms

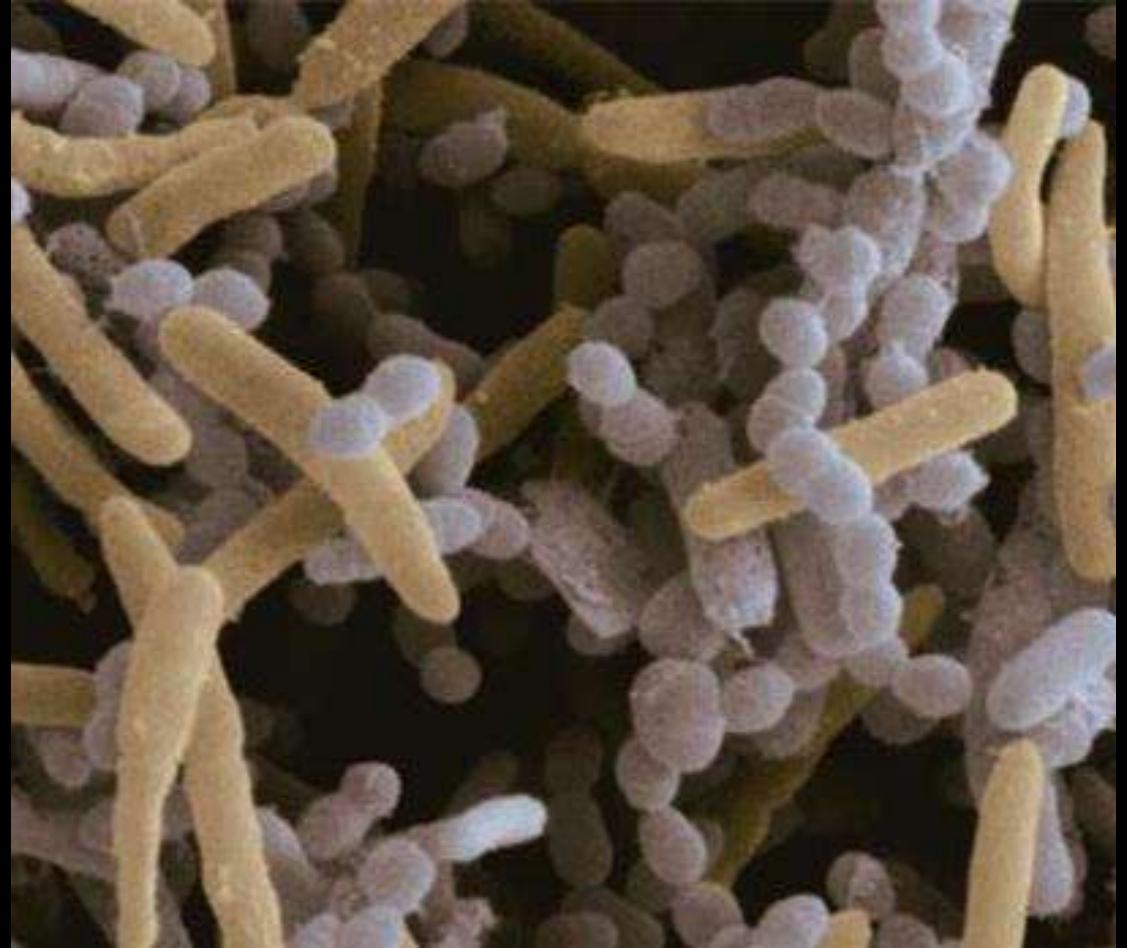
Stable matter

The soil food web



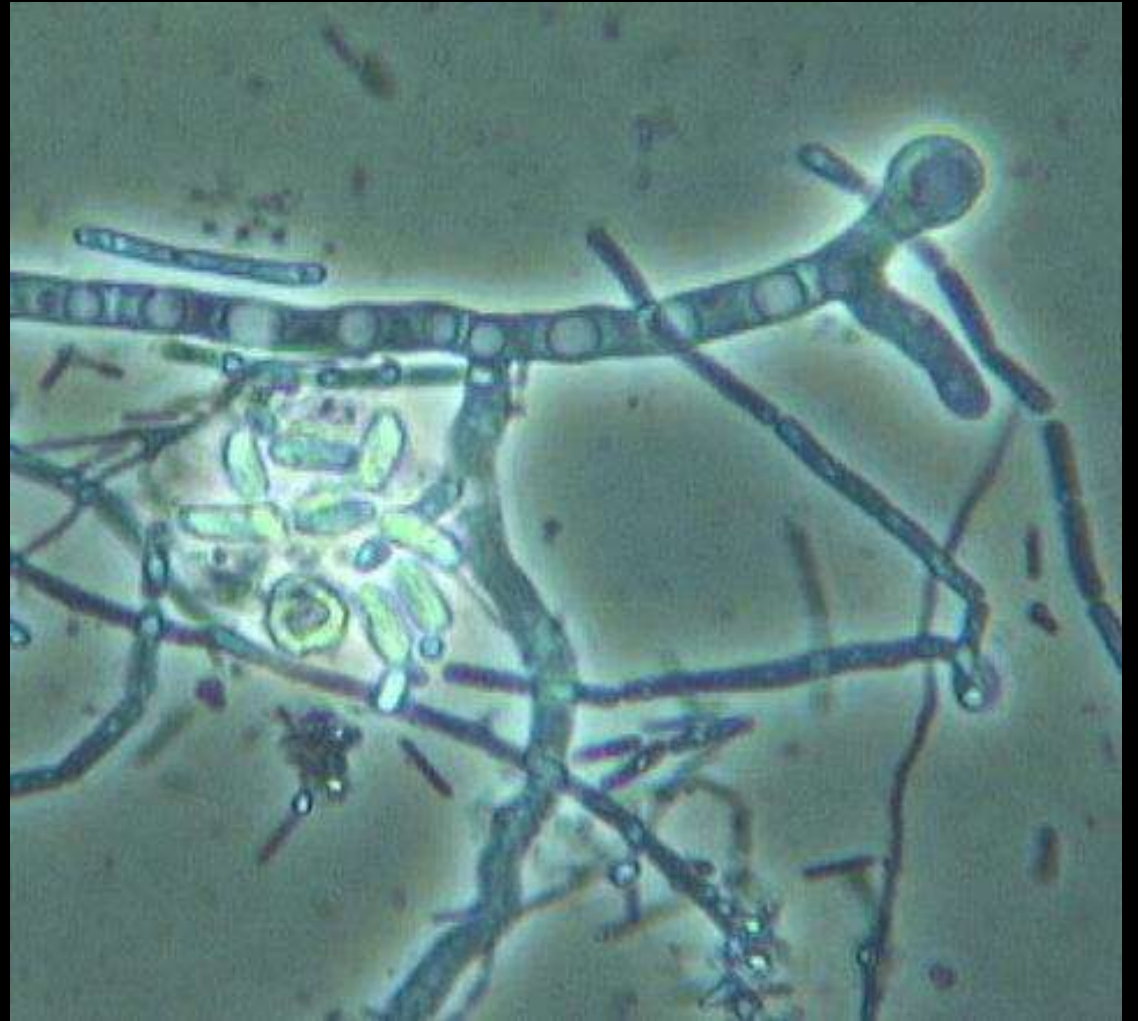
The soil food web

Bacteria



The soil food web

Fungi



The soil food web

Protozoa



The soil food web

Nematodes



The soil food web

Arthropods



The soil food web

Earthworms



The soil food web

In a teaspoon of healthy soil,
you will find:

- 100,000,000 – 1,000,000,000 bacteria
- Several yards of fungal filaments
- 10,000 – 1,000,000 protozoa
- 200 nematodes
- A few arthropods
- Maybe an earthworm



Soil structure and aggregate particles

soil particle



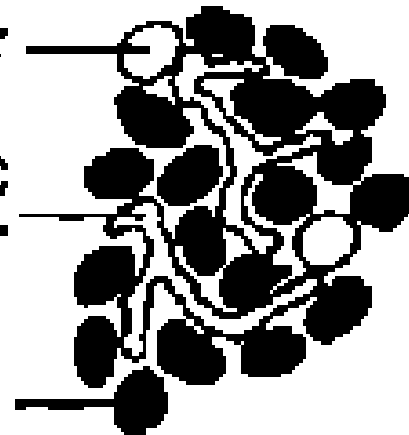
soil aggregate



fertilizer

organic
matter

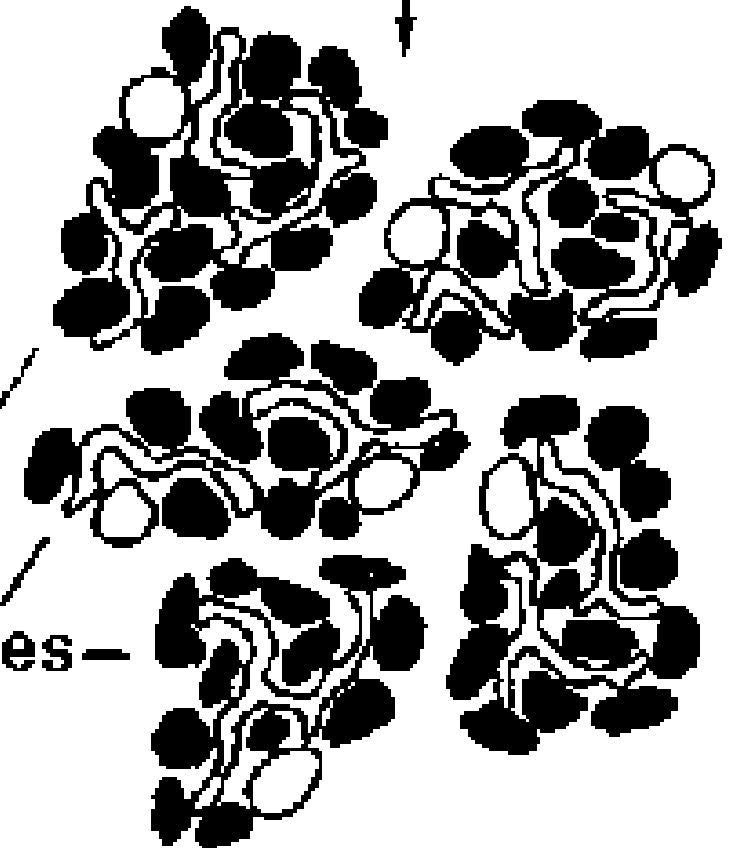
soil
particle



soil structure



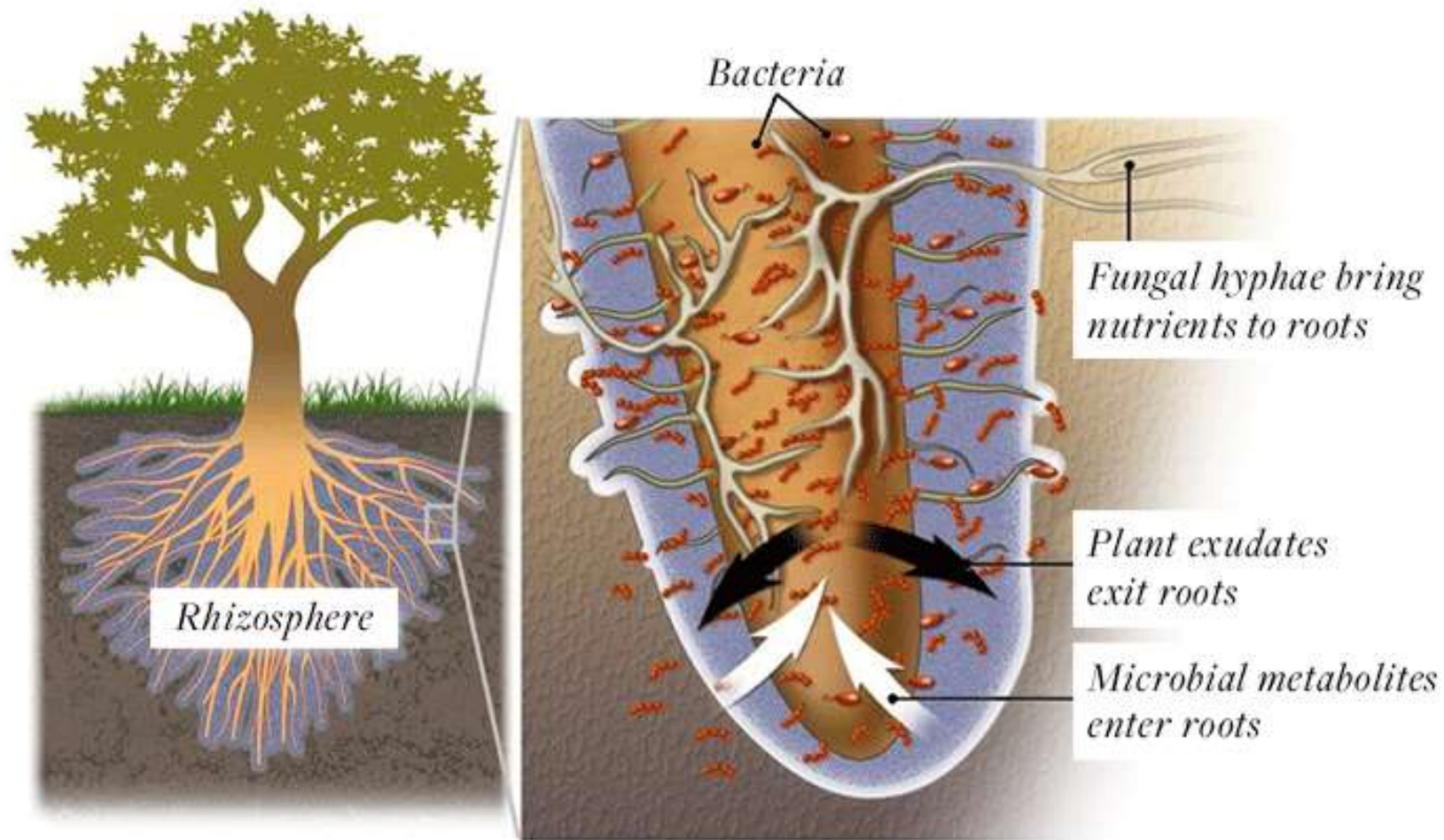
aggregates



Soil Video

- https://www.youtube.com/watch?v=cx_hmse9Se8

Symbiotic relationships: The final piece of the soil puzzle



We can store carbon in the soil.



Story of Soil Video

- <https://www.youtube.com/watch?v=K1NsqR6OX-k>