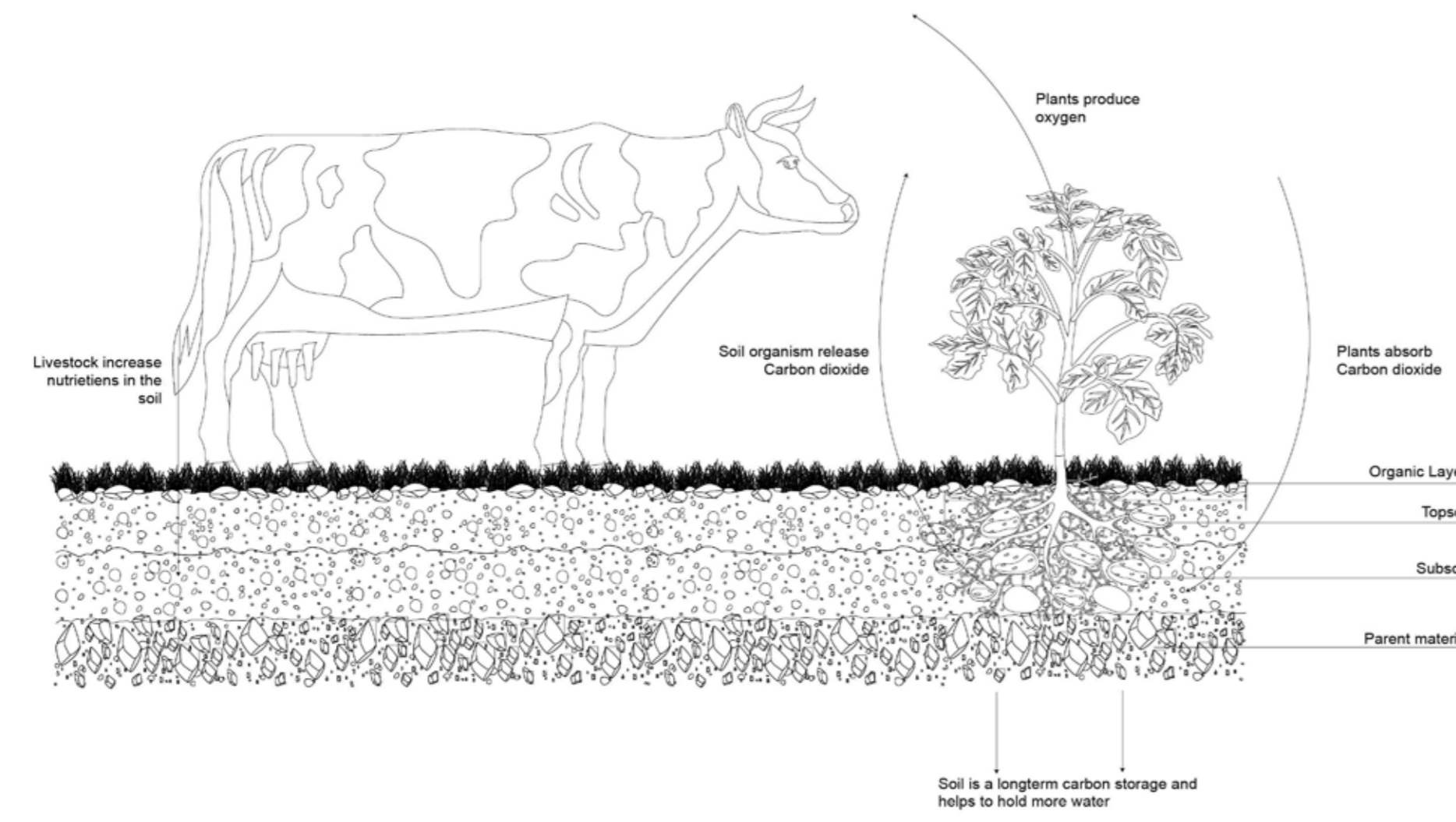


HOLY SOIL

RICK APON

Healthy soil ensures healthy food and healthy food ensures healthy people and animals. Healthy soil is the basis for a healthy life and offers various processing options. There are four soil types in the Netherlands. Every soil has its own composition in amount of water, permeability and acidity. Every plant has its own ideal living conditions. By building in layers against the houses per soil type, we are able to imitate a natural process called erosion. In addition, all valuable land remains usable because the house is being built underneath. Due to the shifting of the soil, the soil continues to refresh and we prevent exhaustion. Three principles are important to keep the soil as healthy as possible. The right PH value per crop, Use of compost/manure, Crop rotation These principles are each applied in their own way.

The plan is divided into three parts. Food processing/distribution, food cultivation and fertilizer production. This process can be treated as a cycle and ensures the optimal input and output of foodstuffs.



1. The right PH value per crop

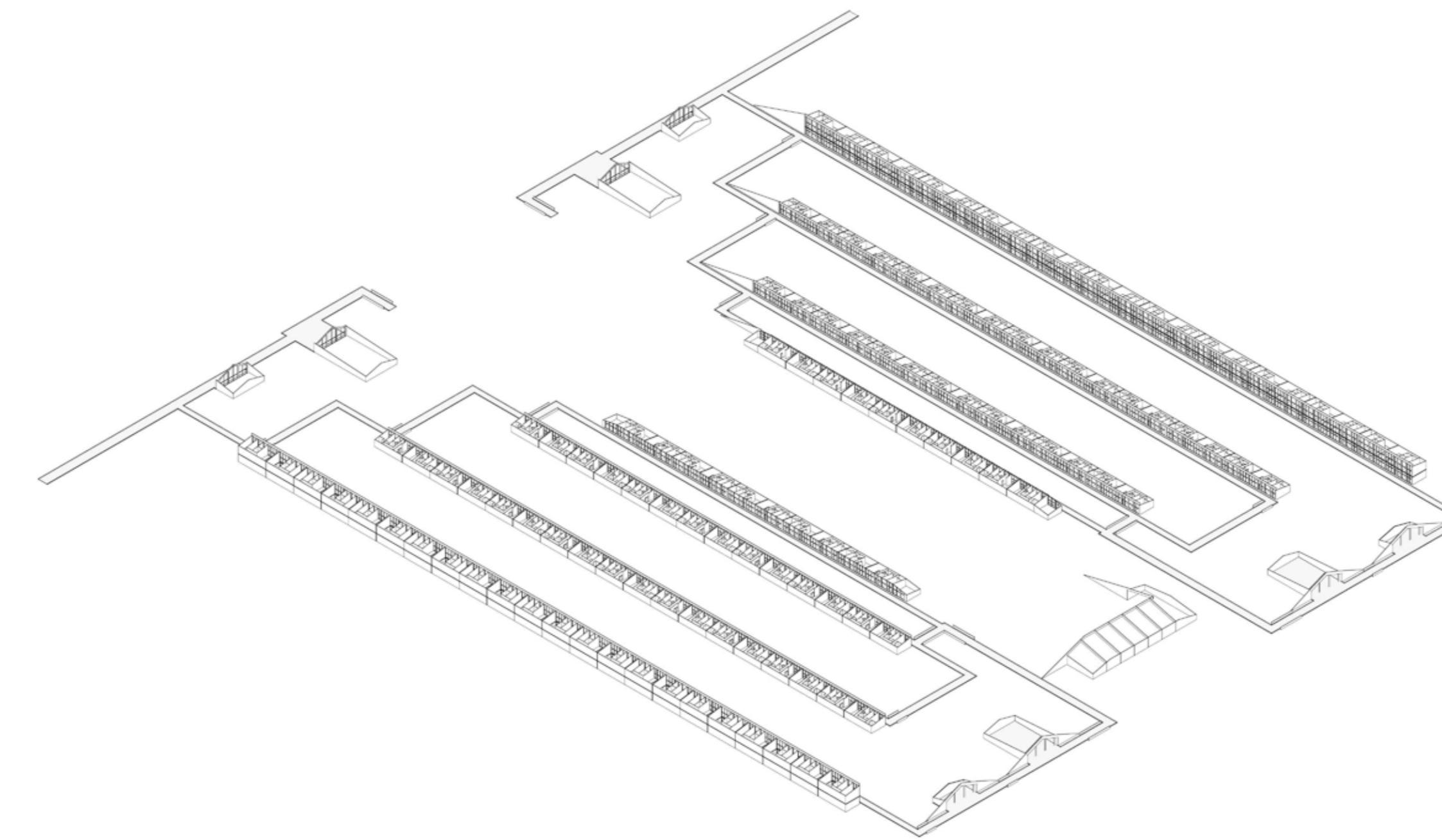
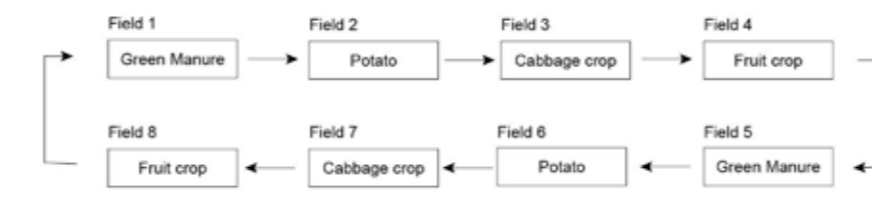
Clay	Loam	Sandy Loam	Sand
30% sand 30% loam 30% clay	2% sand 85% loam 10% clay	30% sand 60% loam 10% clay	80% sand 2% loam 2% clay
pH value 7.2-7.8	pH value 6.7-7.3	pH value 6.2-6.8	pH value 5.2-5.8

2. Add the right nutritional needs

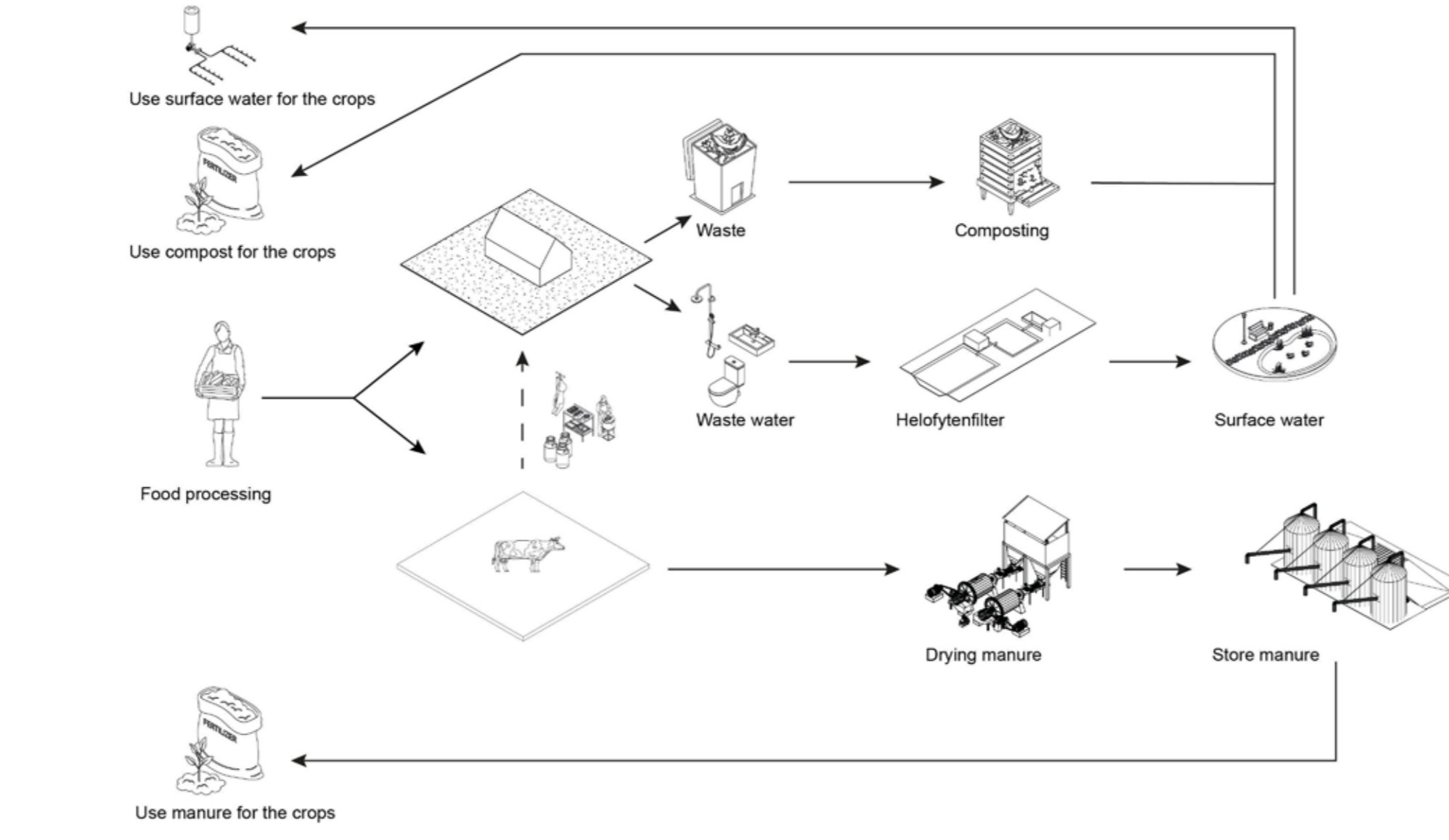
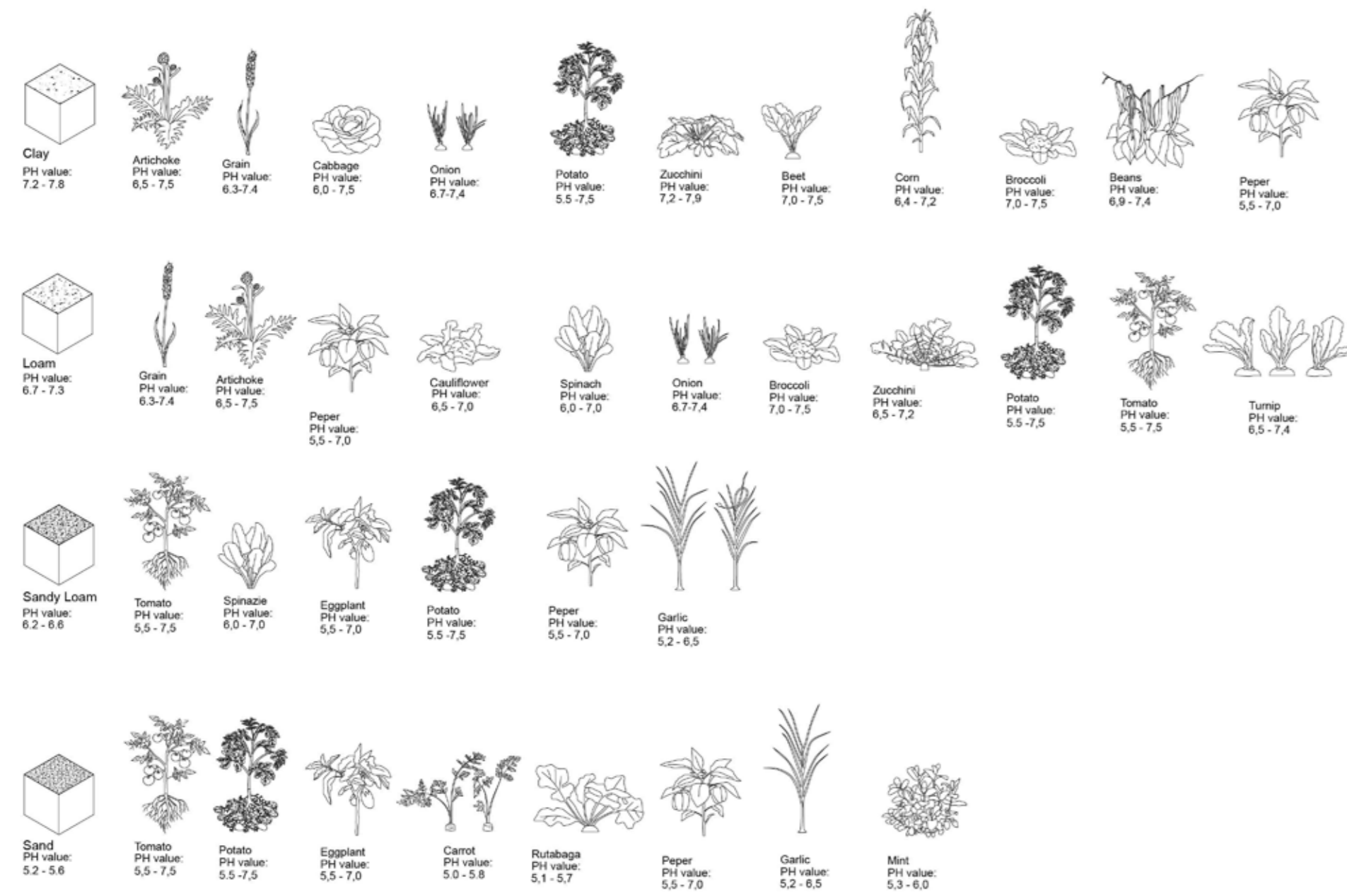
Fertilizers
 Nitrogen: Worm compost, GFT compost, Hay, Blood meal, Horn meal, Dried cow dung, rabbit dung
 Phosphorus: Dried Chicken Manure, Pigeon Manure, Rabbit Manure
 Potassium: Chicken manure, Goat manure, Garden compost, Straw, Dried cow manure
 Magnesium: GFT compost, Chicken manure

Adding green manures for supplying minerals

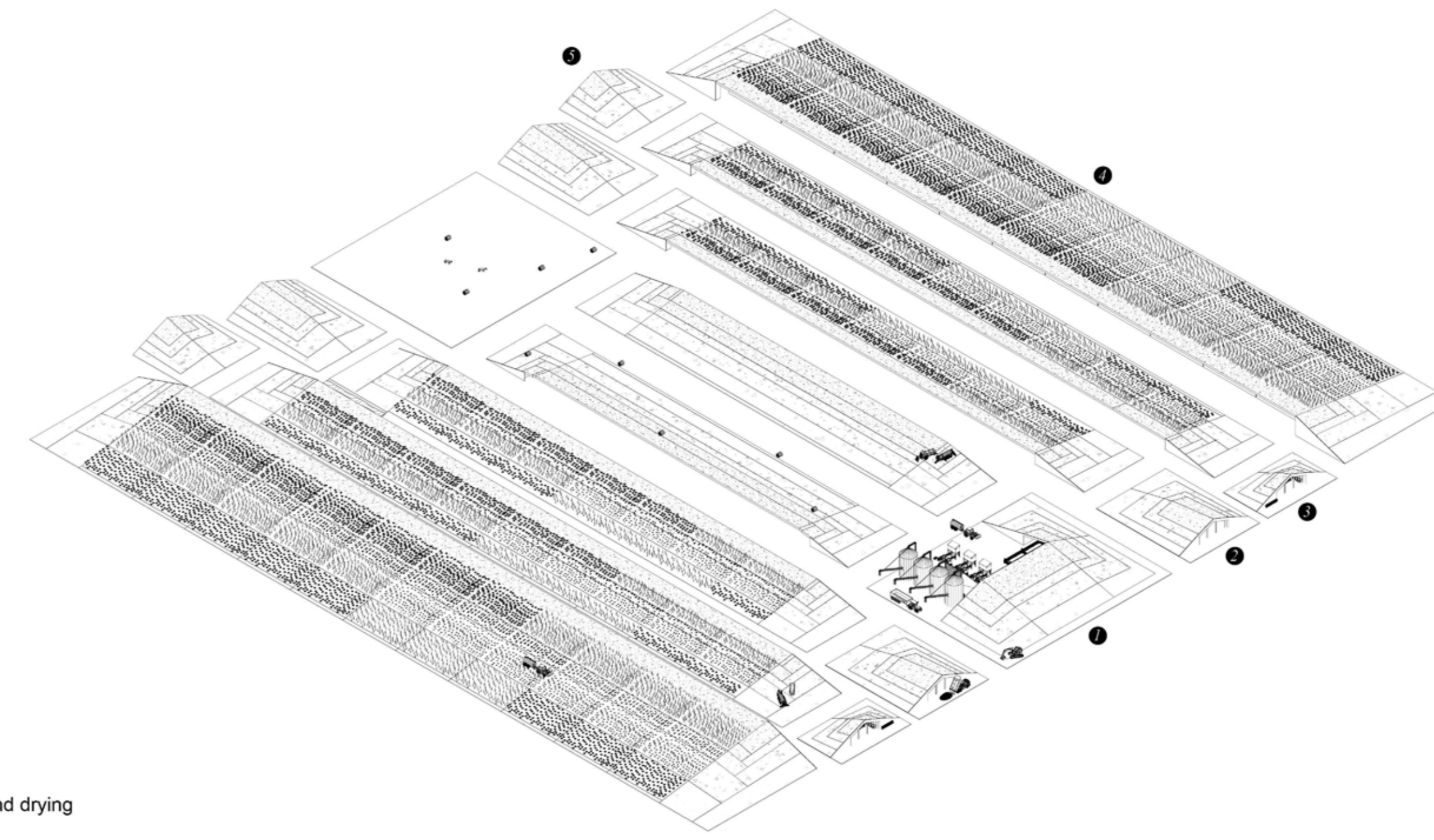
3. Apply crop rotation to avoid exhaustion



CONCEPT

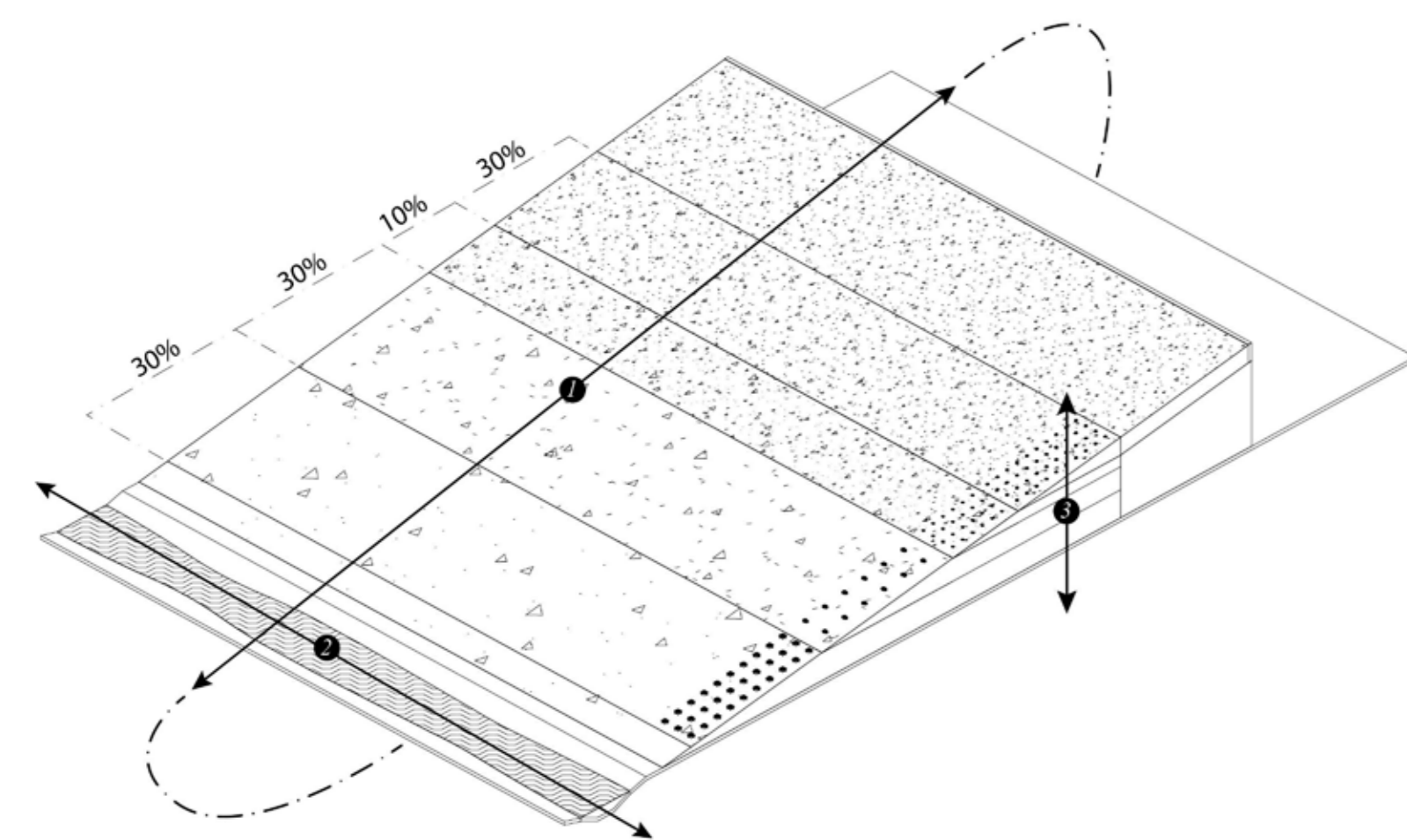


ARCHITECTURE



- Manure storage and drying
 - Soil purification
 - Composting
 - Rotating cropfields
 - Food processing
- AGRICULTURE

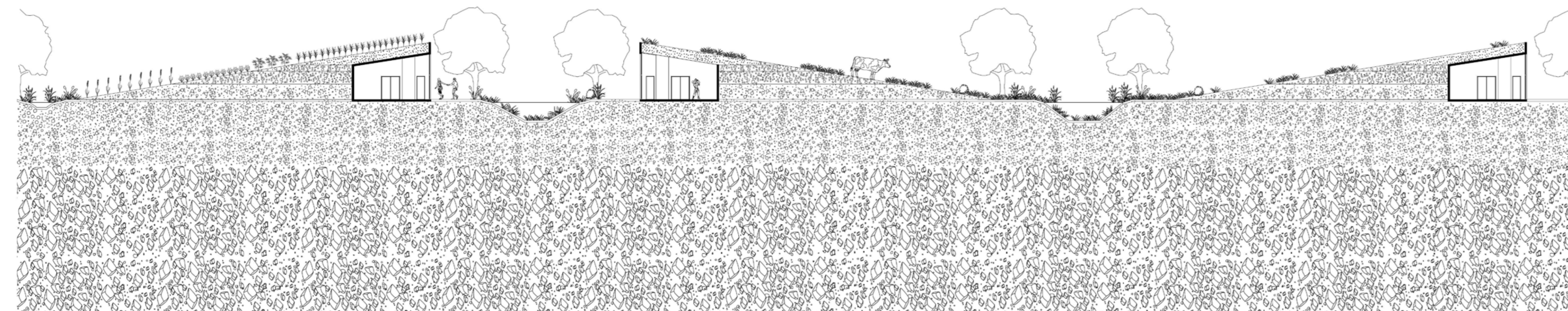
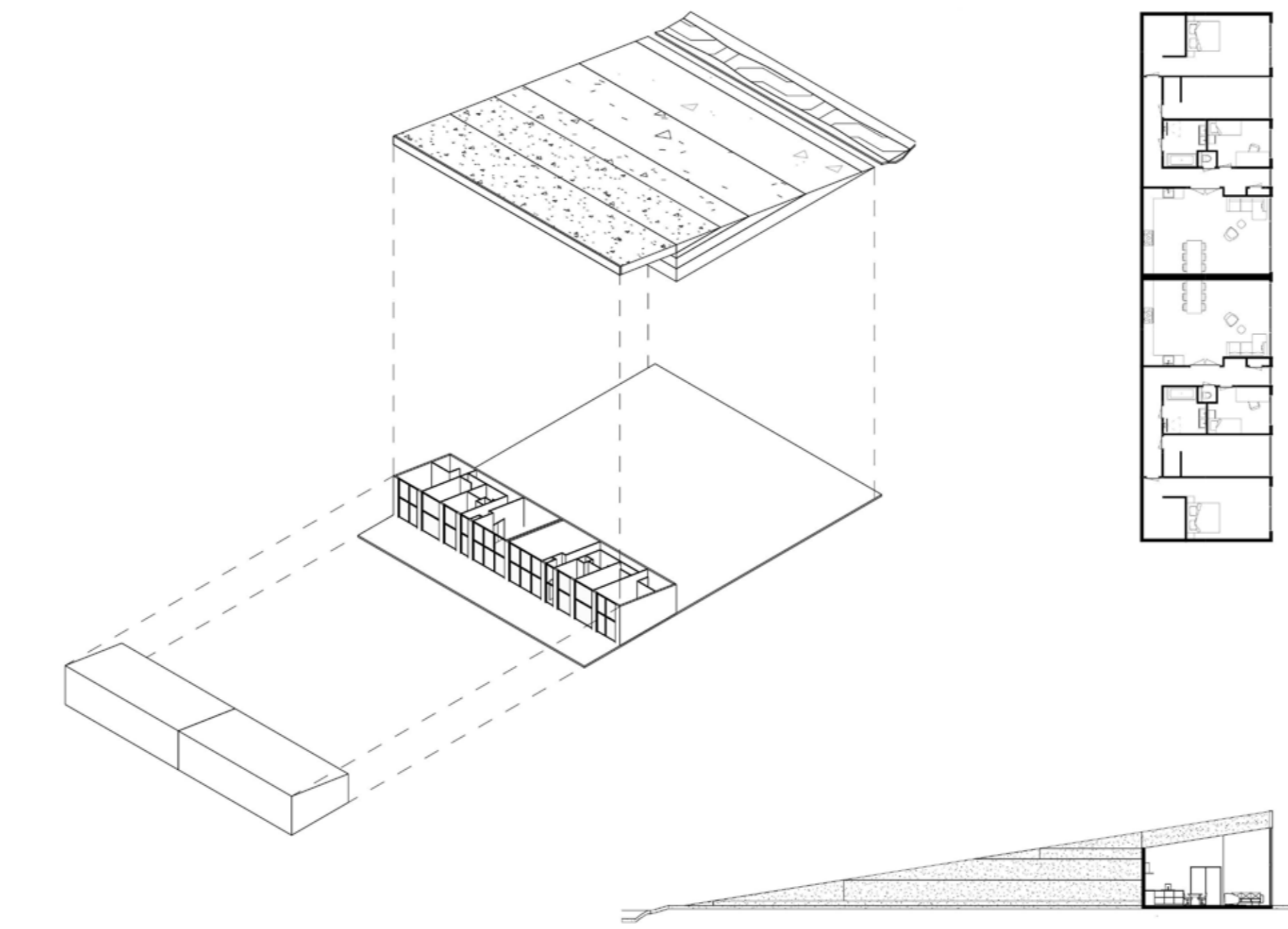
CATALOGUE (CROP TYPES) AGRICULTURE



- Logic 1: Regenerative soil, water, orientation and crop percentage
- Logic 2: Mobility, waste collection, water circulation, food collection and soil collection
- Logic 3: Soil layers, crop types and erosion process.

CONCEPT ARCHITECTURE

AGRICULTURE PROCESS

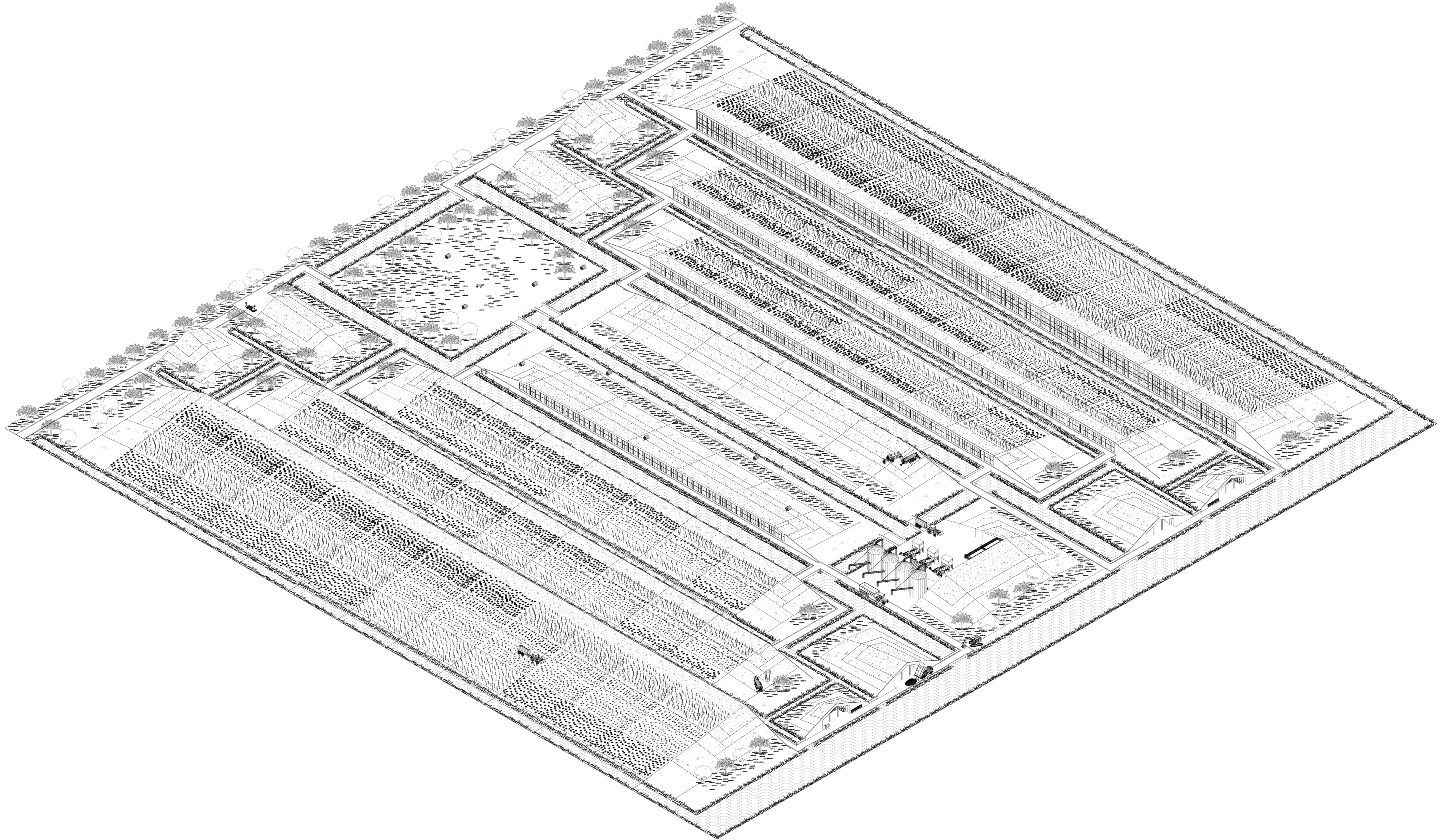


CIRCULAR PRINCIPLES AGRICULTURE

NATURE

HOLY SOIL

RICK APON



TOTAL PLAN