

# SOIL FORMATION PROCESSES



## MINERALISATION

- Definition: process where organic matter in the soil is broken down by microorganisms into mineral nutrients such as nitrogen, phosphorus and potassium (remember: organic matter → inorganic)
- Microorganisms:** tiny organisms such as bacteria and fungi break the organic matter → simple mineral (inorganic) compounds.
- Nutrients:** Organic matter → converted to mineral nutrients → taken up by plants → growth and development.  
Decomposers (nitrate, phosphate & sulphate) - carbon, hydrogen + oxygen → inorganic - CO<sub>2</sub> & H<sub>2</sub>O
- Environmental requirements:** suitable temperature, humidity, and a pH balance favourable for the activity of microorganisms.
- Importance for Plants:** nutrient release - soil fertility - healthy plant growth.

## HUMIFICATION



- Definition: transformation = plant + animal residues → humus
- Organic matter deposition:** Dead plants, animals and microorganisms → into the soil, retaining organic matter in the upper layers of the soil.
- Decomposition:** Microorganisms such as bacteria and fungi break down the organic matter by decomposition processes (● simple - sugars + starch ● proteins + cellulose; ● tannins)
- Formation of humus:** decomposition → organic matter (breakdown of organic compounds) + humus + dark-coloured, rich substances (not easily decomposed)
- Humification:** accumulation of humus in the soil horizon → improves soil fertility - ↑ water retention and nutrients.
- Depth distribution:** Humification occurs in the topsoil, which extends deep into the horizons of the soil.

## LEACHING

- Definition: movement of soil particles through water passing through the soil (freely downward)
- Requirements for Leaching:** presence of water that can pass through the soil - freely (e.g. rainfall or irrigation) + soil structure - water permeability (sand - large pores)
- Factors that Promote Leaching:**
  - bare or no vegetation cover that promotes erosion.
  - steep slopes that allow water to drain down quickly.
  - loose soil structure that is easily moved by water.
- Impacts of Leaching:**
  - loss of fertile topsoil - plinthite formation.
  - clogging of rivers and streams with mud.
  - reduction in water quality & nutrients (metal ions<sup>+</sup>)
  - dissolved materials - deep groundwater / surface water



## PLINTHITE formation

- Definition: movement of the groundwater table up and down over the seasons → groundwater table rises during wet seasons and decreases during dry seasons (flat, humid tropics - tropical climate)
- Influence:**
  - wet season - increase rainfall (the groundwater table + deeper lying soil layers + water (waterlogged) + chemical changes (iron → ferric))
  - dry season - lower table (iron → ferric)
- Formation of Plinthite layers:** Repeated movements of the groundwater table + deposits of soil particles and minerals at different depths + plinthite layers → succession of different soil textures and colours
- Plinthite:** oxidized iron horizon + red colour (aluminae - + iron bands left behind after leaching of silicate from surface soil)
- Leach:** silicate (silicon) leached downwards - potassium, calcium + magnesium ions easily leached
- Physical properties of soil:** water retention, drainage, and air space between soil particles

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**Anthony S. Fauci**

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