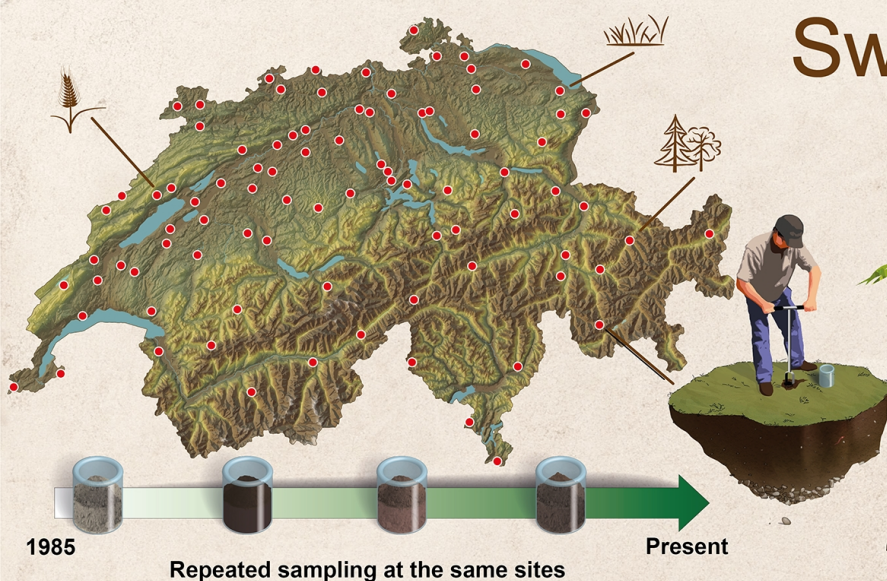


# Swiss Soil Monitoring Network

**NABO**  
nationale bodenbeobachtung



Soils perform many essential functions for ecosystems and humans. They provide habitats for plants and organisms. Not only agriculture and forestry, but also the availability of clean drinking water is dependent on healthy soils. To ensure long-term soil functionality, soil quality must be carefully observed. The Swiss Soil Monitoring Network (NABO) records and documents the evolution of soil quality based on data from long-term monitoring sites. Soils threats are assessed by soil properties and land-management data.



## Physical Soil Properties

- Bulk density
- Penetration resistance
- Soil structure



## Agricultural Management Data

- Crop rotation
- Fertilisers
- Plant-protection products
- Tillage, ...



## Healthy soils provide:



### Production



### Habitat



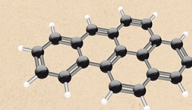
### Regulation



## Chemical Soil Properties

- pH, C:N, SOC
- Nutrients
- Pollutants

pH



## Biological Soil Properties

- Microbes: biomass & soil respiration
- Species richness & composition



## Monitoring Sites



## Sampling



## Sample Preparation



## Chemistry



## Biology



## Physics

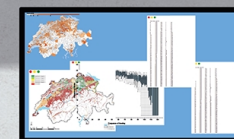


## Agricultural Management Data

## Reporting & Support



## Soil & Data Archive



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Swiss Confederation

Agroscope

Federal Office for Agriculture

Federal Office for the Environment FOEN