



LOESS Soil Atlas



A toolbox for educators, researchers and engaged citizens



Healthy soils are vital for food, water, biodiversity and climate regulation, yet they are increasingly degraded across Europe. Improving soil literacy is key to reversing this trend.



The LOESS Soil Atlas gathers educational tools from the LOESS EU project, helping educators and interested citizens find relevant resources and inspiring soil education practices.



HOW TO ACCESS THE SOIL ATLAS

The Soil Atlas is freely available as a downloadable PDF on the LOESS project website: www.loess-project.eu where you can also access all educational materials produced by LOESS.



- **Learning scenarios**
Classroom-ready lesson plans featuring hands-on investigations for soil exploration (available in 13 languages).
- **MOOC**
Soil Education: an Integrated STEM Approach – A flexible online course supporting teachers and educators in integrating soil literacy into STEM learning.
- **Glossary of soil-related terms**
Clear definitions of key soil concepts (available in 9 languages).
- **Higher-education modules**
Including a Training Module for Students, University Course for Teacher Education, Online CERL Module for Lecturers, and a Workshop on turning soil problems into research questions.
- **Crowdmapping tool**
App and web interface enabling the recording of local soil conditions and contributing to Europe-wide soil data. (available in 14 languages).
- **Blueprint for Exemplary Sustainable Practices**
A practical guide for educators applying the 5E instructional model to soil-health teaching.
- **AR application**
An interactive augmented-reality experience visualising soil organisms, processes and ecosystems in an engaging, accessible way.
- **Case studies from across Europe**
Real examples of how schools, universities, communities, farms and NGOs teach and engage with soil health.



LOESS Soil Atlas



Find the right materials for your needs
based on the level of education:

LEVEL	AUDIENCE	MATERIALS
Primary	Primary teachers	<ul style="list-style-type: none"> • MOOC – Soil education: an integrated STEM approach – online course • Case studies of soil health education practices
Secondary	Teachers (11–18 years)	<ul style="list-style-type: none"> • Learning scenarios for schools – lesson plans • MOOC – Soil education: an integrated STEM approach – online course • Glossary of soil-related terms • Crowdmapping tool for soil health • AR application on Soil • Case studies of soil health education practices
Higher Education	University lecturers & students	<ul style="list-style-type: none"> • Soil, Society, and Sustainability: A Modular Teaching Framework for Higher Education • Educational Course for Biology and Environmental Education Teacher Students • Module for Lecturers on Community Based Research and Learning • Training Workshop: From soil problem to research question • Blueprint for integrating soil health education into teaching • Glossary of soil-related terms • European Voices on Soil Health Podcast • Crowdmapping tool for soil health • AR application on Soil • Case studies of soil health education practices
Vocational & Adult Education	VET trainers, adult educators	<ul style="list-style-type: none"> • Module for Lecturers on Community Based Research and Learning • Training Workshop: From soil problem to research question • Blueprint for integrating soil health education into teaching • MOOC – Soil education: an integrated STEM approach – online course • Glossary of soil-related terms • European Voices on Soil Health Podcast • Crowdmapping tool for soil health • AR application on Soil • Case studies of soil health education practices
General Education / Public	All audiences	<ul style="list-style-type: none"> • Glossary of soil-related terms • European Voices on Soil Health Podcast • Crowdmapping tool for soil health • AR application on Soil • Case studies of soil health education practices

