EJP SOIL
European Joint Programme

TARGET STAKEHOLDERS

SOIL COMPACTION BOOSTS GREENHOUSE GAS N2O

FACT

N2O is the strongest greenhouse gas and it comes mainly from agricultural soils

EFFECT

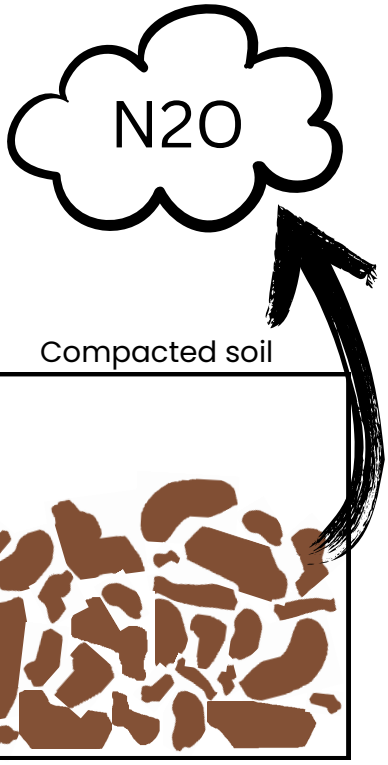
Topsoil compaction increases N2O emissions by up to 42 times

HELP

Mitigation strategies aim to loosen the soil and recover pore system funtionality

AUTHORS

Mansonia Pulido-Moncada, Søren O. Petersen, Lars J. Munkholm (2022)



Oxygen needed

Traffic and animal-induced compaction can lead to an increased N2O emissions by decreasing soil oxygen supply. How this happens is discussed in this review.

EJP SOIL INNOVATION HIGHLIGHTS


Foto: M. Gerzabek

TOWARDS CLIMATE-SMART SUSTAINABLE MANAGEMENT OF AGRICULTURAL SOILS

EJP SOIL is a European Joint Programme on Agricultural Soil Management addressing key societal challenges including climate change and future food supply. https://ejpsoil.eu/

The goal is to improve the understanding of agricultural soil management by finding synergies in research, strengthening research communities and raising public awareness.

1100+ experts, 24 countries, addressing multiple aspects of soil management across different European agroecosystems.

EJP SOIL FUNDED PROJECT
TRACE SOIL

The project aim is to identify the mechanisms underpinning trade-offs and synergies of soil carbon sequestration, greenhouse gas emissions and nutrient losses in agricultural soils across Europe, and propose climate-zone specific indicators and measures to mitigate trade-offs.

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TARGET EJP SOIL EXPECTED IMPACT AND EU MISSION SOIL OBJECTIVES

Understanding of soil management for climate change mitigation, adaptation, sust production & sustainable environment

Mission SOIL: Improve soil structure to enhance soil biodiversity

HIGHLIGHT FACTS FROM:
EJP SOIL project
TRACE SOIL

Applicability:
all climatic zones according to Metzger et al. (2005)
https://doi.org/10.1111 j.1466-822X.2005.00190.x

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