

Tools to estimate SOC and net GHG balance

4 per 1000

Monitoring climate benefits of sustainable land management with a focus on Soil Organic Carbon

27th April 2021

Aim of the event:

Learn about linked tools to:

- Choose carbon friendly sustainable land management (SLM) practices
- Estimate the climate change/SOC impact of your SLM activities
- Collect compatible data on a mobile phone

The linked tool set



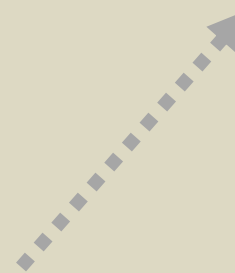
Choose appropriate SLM technologies from the WOCAT database



Estimate the C and GHG impacts including SOC of the SLM technologies with the CBP tools



Gather field data on land use and management and soils to support/inform the CBP and WOCAT



Who might the tools be useful to?

- GEF Agencies
- UN Agencies
- 4 per 1000 activities
- Land Managers
- NGOs
- Government Ministries
- Etc.!



4 per 1000 aims to tackle climate change by increasing carbon stored in soils

-a need for tools and information



While pursuing the indispensable effort to decrease drastically the green house gases (GHG) emissions due to human activities, increasing soil organic carbon sequestration could make a substantial contribution to GHG mitigation efforts. A theoretical annual increase of the world soil organic carbon stock by 0.4% of its value would be larger than the 2015 annual increase in CO₂ in the atmosphere, which is a major contributor to the greenhouse effect and climate change : this is the origin of the "4 per 1000" title of this initiative.

increased absorption of CO₂ by plants :



farmlands, meadows, forests...



+4% carbon storage in the world's soils
soils better able to cope with the effects of climate change
= less CO₂ in the atmosphere

- Choosing SLM technologies with the WOCAT database
- Estimating climate change impacts with the CBP tools and linking back to WOCAT
- Collating supporting data in the field with LandPKS