



Food and Agriculture
Organization of the
United Nations

GLOBAL SOIL
PARTNERSHIP

12th Plenary Assembly

03-05 June 2024

Examples from FAO

NEXT, ABC-Map & AURORA

Laure-Sophie Schiettecatte & Christophe Besacier

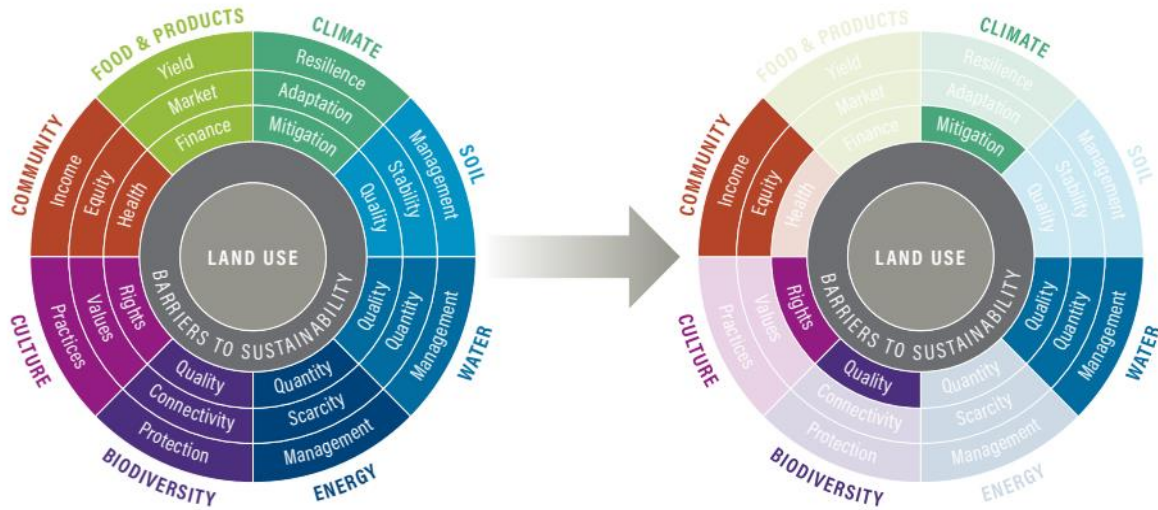


GLOBAL SOIL
PARTNERSHIP



AURORA

Assessment, Understanding and Reporting Of Restoration Actions



<https://auroramonitoring.org/#/>

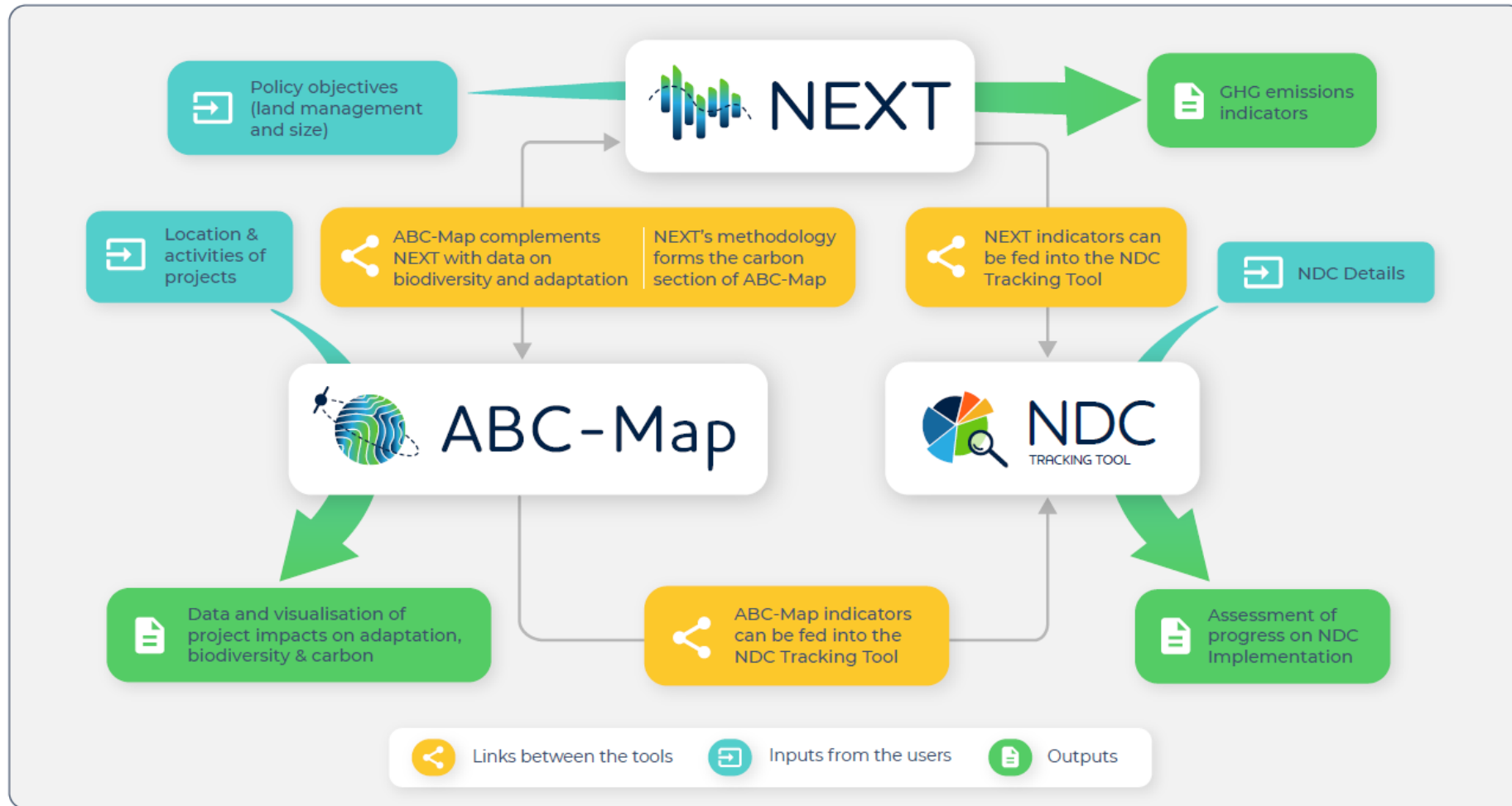
- Based on the publication [The Road to Restoration](#) (FAO & WRI, 2019)
- Helps in the development of a monitoring system tailored to stakeholder needs
- Supports the identification of indicators and measures to track progress towards objectives
- Integrated into the [Framework for Ecosystem Restoration Monitoring](#) (FERM) of the UN Decade on Ecosystem Restoration



Soil Partners' Day | 03-05 June 2024



NDC TOOLBOX



Soil Partners' Day | 03-05 June 2024



NDC Expert Tool (NEXT)

- An Excel-based tool aligned with the Enhanced Transparency Framework (ETF) for GHG accounting (IPCC)
- Provides an analysis period up to mid-century, or a 30-year time series
- Supports the estimation of annual GHG emissions over the implementation period and beyond, with a high level of disaggregation of results (GHG and non-GHG), e.g. annual changes of agricultural gases, the percentage of reduction in deforestation, SOC changes.
- Support countries in monitoring, planning and policy development, and identifying untapped mitigation measures to raise ambitions and achieve climate commitments.
- Can be used for projects, programs, policies, NDCs and long-term strategies.



Soil Partners' Day | 03-05 June 2024



NDC Expert Tool (NEXT)

- 4/1000 interface presents the annual evolution of SOC, in particular for annual systems, agroforestry, pastures and forests for which stocks are increased, decreased or preserve.
- Changes in soil carbon socks take into account N₂O emissions (direct and indirect) that could be generated according to changes in soil management, changes in land use and fertilizer application

MINERAL SOILS INDICATORS

AREA UNDER SUSTAINABLE MANAGEMENT PRACTICES, in ha	2025	2026	2027
Cumulative area with enhanced SOC (except forest)	375	750	1,125
Cumulative forest area with enhanced SOC*	702	1,403	2,105
Cumulative annual cropland area with enhanced SOC	0	0	0
Cumulative agroforestry area with enhanced SOC	375	750	1,125
Cumulative grassland area with enhanced SOC	0	0	0
Soil area under no tillage	0	0	0
Soil area with manure inputs	0	0	0
Soil area with residues retained	0	0	0

*wetlands are not integrated

BALANCE MINERAL SOC, in tCO ₂ -e (Cumulative)*	2025	2026	2027
Forest SOC preserved	0	0	0
Forest SOC enhanced	0	0	0
Forest SOC loss	0	0	0
<hr/>			
Agricultural SOC preserved	0	0	0
Agricultural SOC enhanced	-1,573	-4,719	-9,438
Agricultural SOC lost	0	0	0
<hr/>			
Annual cropland SOC preserved	0	0	0
Annual cropland SOC enhanced	0	0	0
Annual cropland SOC lost	0	0	0
Agroforestry SOC preserved	0	0	0
Agroforestry SOC enhanced	-1,573	-4,719	-9,438
Agroforestry SOC lost	0	0	0
Grassland SOC preserved	0	0	0
Grassland SOC enhanced	0	0	0
Grassland SOC lost	0	0	0
<hr/>			
N ₂ O emissions (direct & indirect) from soil management	0	0	0
N ₂ O emissions (direct & indirect) from PRP	0	0	0
Total	-1,573	-4,719	-9,438

* These parameters are to support the 4/1000 initiative



Soil Partners' Day | 03-05 June 2024



ABC-Map

A free **geospatial app** that provides holistic environmental assessments of projects in the AFOLU sector.

The carbon section of ABC-Map is a **simplified** and **georeferenced** version of NEXT



Soil Partners' Day | 03-05 June 2024



Contact

- AURORA: NFO-FLRM@fao.org
- NEXT: NDC-Tool@fao.org
- ABC-Map: abc-map@fao.org

Website

- [AURORA \(tool\)](#)
- [NEXT \(technical guidance and tool\)](#)
- [ABC-Map \(online tool\)](#)



Soil Partners' Day | 03-05 June 2024





Food and Agriculture
Organization of the
United Nations

THANK YOU



GLOBAL SOIL
PARTNERSHIP

