

7th Meeting of the International Network of Soil Information
Institutions (INSII)
Online
meeting

09-10-11 November 2021

Soil Nutrient Maps

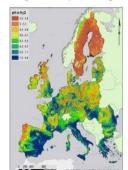
Carolina OliveraSanchez Vinisa SaynesSantillan Yuxin Tong Yusuf Yigini





Maps of Soil Chemical properties at European scale based on LUCAS 2009/2012 topsoil data

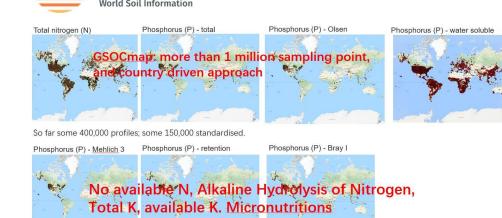
This group of datasets contains 8 chemical properties: pH, pH (CaCl), Cation Exchange Capacity (CEC), Calcium carbonates (CaCO3), C:N ratio, Nitrogen (N), Phosphorus (P) and Potassium (K) using soil point data from the LUCAS 2009/2012 soil surveys (around 22,000 points) for EU-26 (not included Cyprus and Croatia). The chemical properties maps for the European Union were produced using Gaussian process regression (GPR) models. Resolution: 500m. Format: TIFF; projection information: ETRS89 / LAEA Europe





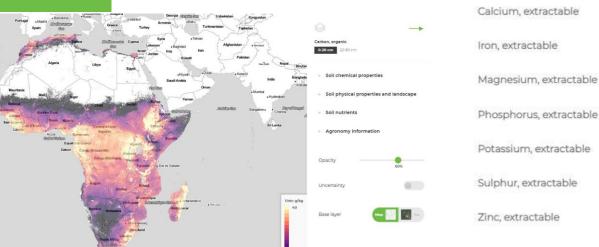
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- pH in Water (H2O) H pH in CaCl2 solution Cation Exchange Capacity
- Calcium carbonates



hat kind of Soil Nutrient Maps are there in Soil nutrients

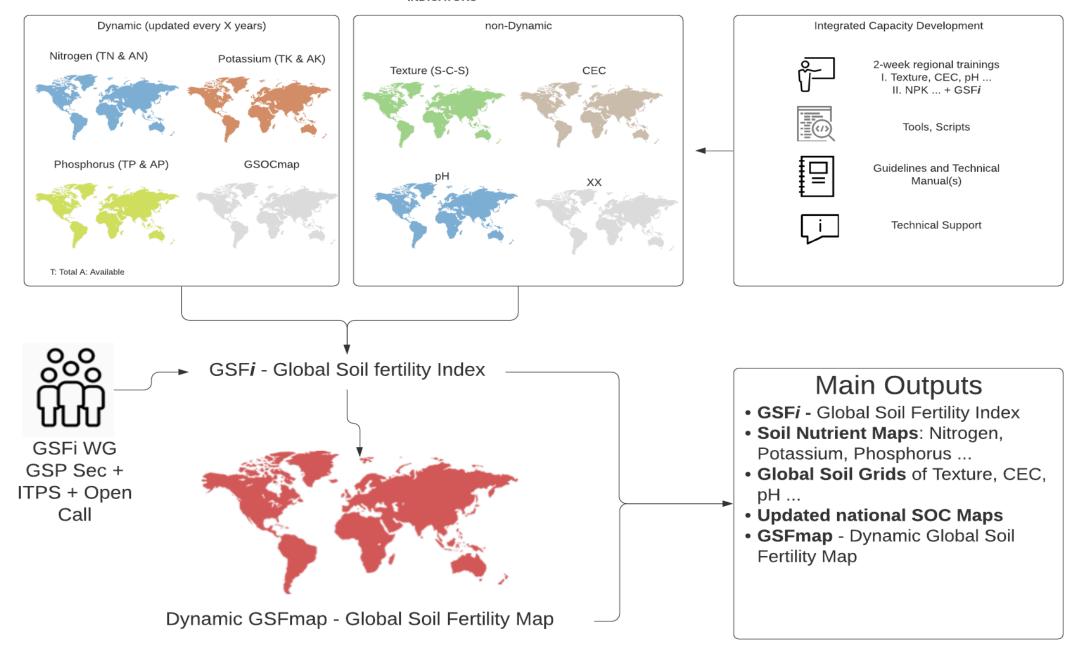
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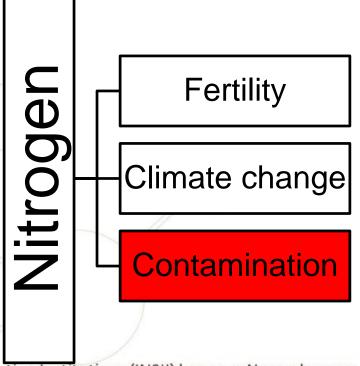




How to link the soil nutrient maps to other global hotspots? Example Nitrogen:



- Capture occurs at much slower rates
- Mitigation strategies cannot be based on a corrective approach, they must be preventive.







> Experiences and lessons from the soil nutrient maps development.

Global and national maps

What methodologies are used for developing those maps? Their advantages and disadvantages?

Country driven.





What can be the added value of soil nutrient maps?

Mineral and organic fertilization, sustainable soil management recommendations (cover crops, erosion control, etc), greenhouse gas emissions potential for mitigation, water and soil pollution potential, soil micronutrients availability

What methodologies we should use to develop those maps? Do the methodologies feasible?

Soil nutrient maps and added value maps





Call for participation in a working group to develop the soil nutrient maps

