



This project has received funding from



European Union Horizon 2020 research and innovation programme.
Grant agreement: 635750
Project officer: Antonio Pérez-Rendón
Duration: 2015-2020



Chinese Academy of Agricultural Sciences
Chinese Academy of Sciences



Swiss State Secretariat for Education, Research and Innovation.
Contract: 15.0170-1

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Interactive soil quality assessment in Europe and China for agricultural productivity and environmental resilience ...



Project partners

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| 1 Wageningen University, Netherlands | 10 Stichting Dienst Landbouwkundig Onderzoek, Netherlands | 18 Institute of Agricultural Resources and Regional Planning of Chinese Academy of Agricultural Sciences, China |
| 2 Joint Research Center, Italy | 11 Institute of Agrophysics of the Polish Academy of Sciences, Poland | 19 Northwest A&F University, Institute of Soil and Water Conservation, China |
| 3 Research Institute of Organic Agriculture, Switzerland | 12 Estonian University of Life Sciences, Estonia | 20 Soil and Fertilizer Institute of the Sichuan Academy of Agricultural Sciences, China |
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| 7 Institute for European Environmental Policy, UK and Belgium | 16 University of Miguel Hernández, Spain | 24 Institute of Soil Science of the Chinese Academy of Sciences, China |
| 8 Foundation for Sustainable Development of the Mediterranean, Italy | 17 Agricultural University Athens, Greece | 25 Gaec de la Branchette, France |
| 9 ISRIC World Soil Information, Netherlands | | |



... providing decision makers with science-based, easy to apply and cost-effective tools to manage soil quality and function.



Innovative methods to assess soil quality in different pedo-climatic zones, integrating soil science, agricultural and land management practices.

Soil quality indicators tailored for and tested by farmers for farmers in Europe and China.

The app will be developed, tested, evaluated and improved by farmers, scientists, practitioners, agricultural service providers and policy makers.

An app for mobile devices anywhere in the world, providing location-specific soil quality information and sustainable land use management options.

Information about the environmental footprint of farming activities, options for sustainable land use and the effects of widespread adoption of sustainable land practices generated from existing databases and shared among farmers, scientists, regional and national policy makers.

Agricultural soils world-wide are subject to threats and pressures including: increasing demand for food and biofuels, changing diets, land degradation and associated productivity decline, all made worse by climate change.

Reliable knowledge and data help land users assess their soils and make well-informed decisions about its use. When information on alternative land use practices is easily available, it supports farmers in improving their land management.

A circular collage divided into three equal sectors. The top-left sector shows a topographic map with contour lines, elevation markers (e.g., 400, 420, 440, 460, 480, 500, 520, 540, 560, 580, 600, 620, 640, 660, 680, 700, 720, 740, 760, 780, 800, 820, 840, 860, 880, 900, 920, 940, 960, 980, 1000), and labels like 'Hn21 VI' and 'Kp2023'. The top-right sector shows a cross-section of a soil profile with a reddish-brown, eroded surface and a green forest in the background. The bottom sector shows a red tractor pulling a trailer in a green field, with a black car parked nearby and several hay bales in the foreground.

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Europe

- Case study sites
- Countries involved in the project