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PROJECT PARTNERS

SIEUSOIL

SINO–EU SOIL OBSERVATORY FOR INTELLIGENT LAND USE MANAGEMENT

AIM

- SIEUSOIL aims to design, implement and test a shared China-EU Web Observatory platform that will provide Open Linked Data to monitor status and threats of soil and assist in decision making for sustainable support of agro-ecosystem functions.

OVERALL CONCEPT

- A framework of sustainable soil and land management, focused on soil pollution mitigation and soil preservation, by integrating, comparing, improving and exchanging technologies between EU and China.
- A harmonised land information system and land suitability based management ICT tool for mitigating the impacts of climate and land use change in EU and China targeting the loss of prime land.

THE PLATFORM

- The platform will be an integrated platform consisting of advanced land use, crop and soil sensing tools, land monitoring, measuring of pollutants and data fusion, digital soil mapping and land suitability management information systems, to achieve sustainable land management and maximise land productivity and socio-economic benefits, while minimising environmental impacts.

PILOT LOCATIONS

- The SIEUSOIL methodology will be implemented in 7 Pilot locations in EU and 4 in China in a co-creation with relevant stakeholders.

SIEUSOIL ADVANCES

- An Observatory platform to support the wise management of soil.
- New methods for precision agriculture.
- A land suitability analysis tool to manage the impacts of climate and land use change.
- Advanced evaluation of soil quality indicators for land suitability.
- An open platform for the integration of soil management practices in a decision support system (DSS).
- Tool for correlating land use modelling and soil quality.
- Web-based viewer and services to unlock the compiled geo-information to multiple actors.
- Reports on site-specific tillage describing advantages and shortcomings.