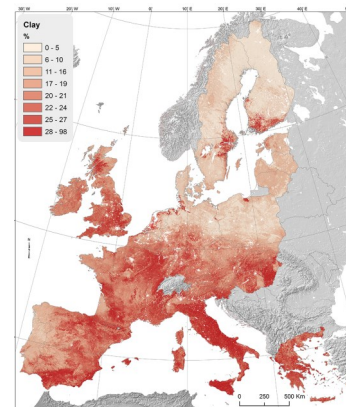


### Topsoil physical properties at European scale (using LUCAS topsoil)

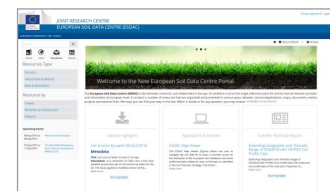
The LUCAS topsoil database was used to map soil properties over the geographical extent of Europe. Several soil properties were predicted using hybrid approaches like regression kriging (topsoil texture and related derived physical properties). Regression models were fitted using, among other variables, remotely sensed data coming from the MODIS sensor. The high temporal resolution of MODIS allowed detecting changes in the vegetative response due to soil properties, which can then be used to map the distribution of soil features. Cross validation of the fitted models proved that the LUCAS dataset constitutes a good sample for mapping purposes. **Predicted properties:** Clay content(%), Silt content(%), Sand content(%), Coarse fragments(%), Bulk density, USDA soil texture, Available Water Capacity (AWC).



<http://esdac.jrc.ec.europa.eu/content/topsoil-physical-properties-european-scale-using-lucas-topsoil>

### European Soil Data Centre (ESDAC)

The European Soil Data Centre (ESDAC) is the thematic centre for soil related data in Europe. It is the single reference point for relevant soil data and information at European level. It contains a number of resources that are organized and presented in various ways: datasets, services/applications, maps, documents, events, projects and external links. After more than 10-years of service, the European Soil Portal is replaced with the ESDAC. A new portal was developed incorporating all data and information from the European Soil Portal. The new portal is more dynamic, with better look and feel and with emphasis on data.



<http://esdac.jrc.ec.europa.eu/>

### SmartSOIL Final Conference, 30 Sep 2015 in Brussels

SmartSOIL is an EU-funded project which identified and developed options to increase C stocks and optimise C use (flows) whilst maintaining sustainable SOC stocks. The conference seeks to bring together stakeholders, such as representatives of the European Parliament, European Commission, farmers' unions and advisory services, NGOs, Member States and regional authorities, as well as researchers. <http://esdac.jrc.ec.europa.eu/event/smartsoil-sustainable-soil-management-aimed-reducing-threats-soils-under-climate-change>



### European Food Safety Agency (EFSA) new data

New data has become available in relation to "Scenario Selection and Scenario Parameterisation for Permanent Crops and Row Crops on Ridges in Support of Predicting Environmental Concentrations of Plant Protection Products and Their Transformation Products in Soil" (OC/EFSA/PRAS/2013/01). A database was compiled of the spatial distribution of permanent crops in the EU. A total of 2013 combinations of crop, soil and climate ('plots') were parameterised in GeoPEARL model.



<http://esdac.jrc.ec.europa.eu/content/european-food-safety-authority-efsa-data-persam-software-tool>

### **More Details**

**Download the ESDAC Newsletter:** [PDF Format](#). **Feedback:** [panos.panagos@jrc.ec.europa.eu](mailto:panos.panagos@jrc.ec.europa.eu)

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