

Soil data in Slovakia

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Slovak Environmental Agency

Slovak organisations owning soil data

- Agricultural soil (Ministry of Agriculture of the SR):
 - Soil Science and Conservation Research Institute (SSCRI)
 - Central Controlling and Testing Institute in Agriculture (CCTIA)
- Forest soil (Ministry of Agriculture of the SR):
 - National Forest Centre (NFC)
- Soil (Ministry of Environment of the SR)
 - State Geological Institute of Dionyz Stur (SGIDS)
 - Slovak Environmental Agency (SEA)

Slovak Environmental Agency

- managed systematic inventory of contaminated sites in the SR and built up information system of contaminated sites (2006 -2008)
- provides risk analyses of contaminated sites (2009 -2010)
- participated in CLC project (1990, 2000,2006)
- is provider of 10 partial monitoring information systems including soil
- is provider of several map services, meta-data register for environmental department
- cooperates with the MoE SR in implementation of INSPIRE directive in Slovakia
- evaluates state of soil as a part of the environment in the form of indicators and reports
- is NFP SK, PCP TE

Data requirements from DG Environment for ESDC (priorities) / data owners and scientific potential in Slovakia

1/ Risk areas for

- acidification **SSCRI, CCTIA, NFC**
- erosion **SSCRI**
- organic matter decline **SSCRI, NFC**
- salinisation **SSCRI**
- compaction **SSCRI**
- landslides **SGIDS**

Spatial and statistical data is available from national soil monitoring network of agricultural and forest soils, from Soil portal of SSCRI, from BioSoil project - NFC

2/ Data (and metadata) quality, utilization of historical data, methods, access, and data-exchange formats (INSPIRE)

3/ New European Soil Database, based on a 1:250,000 scale (as data is gathered and provided by Member States)

- basic soil data (pH, Cox, N, P,K, heavy metals) **SSCRI, NFC**

Spatial and statistical data is available from national soil monitoring network of agricultural and forest soils, from Soil portal of SSCRI, from BioSoil project - NFC

4/ Risk maps for Europe for the different soil threats, with particular emphasis on

- soil organic matter loss **SSCRI, NFC**

Spatial and statistical data is available from national soil monitoring network of agricultural and forest soils, from Soil portal of SSCRI, from BioSoil project - NFC

5/ Data concerning contaminated sites

- **SEA (regionally SSCRI, NFC)**

Spatial and statistical data is available from national survey of contaminated sites

Data requirements from the European Environment Agency for ESDC

1/ Data and maps on

- loss of organic matter **SSCRI, NFC**
- susceptibility of subsoil to compaction **SSCRI**
- susceptibility of subsoil to salinisation **SSCRI**
- susceptibility of subsoil to erosion **SSCRI**

Spatial and statistical data is available from national soil monitoring network of agricultural and forest soils, from Soil portal of SSCRI, from BioSoil project - NFC

2/ Updated datasets on “Progress in the management of contaminated sites”

- **SEA**

Spatial and statistical data is available from national survey of contaminated sites. SEA provides risk analyses of contaminated sites and related actions.

3/ Follow up of the soil country analysis

- **SEA,SSCRI, NFC, SGIDS**

Dataflow system

- We suggest to use **Central Data Repository** for soil dataflow
- Coordinator from EEA or JRC should manage process of dataflow
- Asked data should be firstly clearly defined
- Data providers for specific characteristic should be nominated by NFP per each country
- Nominated data providers should have direct access to Central Data Repository

Needs or interests of Slovakia regarding the ESDAC – EIONET collaboration

– Needs

- **Specification of whole process** of data providing (required data, time schedule, evaluation of process)
- Clear **specification of asked data** and their characteristics
- **Evaluation of submitted data - harmonisation** of methods, standards not only according to INSPIRE but also harmonisation of data – soil samples collection, processing and evaluation process within EU countries
- **Information on prepared projects** and possibility to participate

– Interests

- Slovak organisations owning soil data are opened to collaborate with EEA, JRC in the way of data providing or in scientific - technical support in frame of new projects or in ongoing projects (i.e. CLC – GMES CLC – data verification process)

Preparation of Slovakia to INSPIRE directive implementation

- National Concept on Informatization of Public Administration
 - Was prepared by Ministry of Environment of the SR (MoE SR) in 2008 and deals with some issues related to INSPIRE (i. e. Spatial data register)
- Directive transposition - new law on National Spatial Data Infrastructure is under preparation in the SR:
 - Responsible body
 - Ministry of Environment of the SR in cooperation with National coordination body (PS INSPIRE@SK)
 - » MoE SR organisations, others ministries and their organisations
 - » Geodesy, Cartography and Cadastre Authority of the SR
- Main issues
 - Metadata and data specifications:
 - **Spatial data register** will be established
 - Network Services:
 - **National Geoportal** will be established, there are experience with national (National Spatial Data Infrastructure in Slovakia) and international (EnviroGeoPortal) projects
 - Data sharing:
 - system is not clear so far

Specific actions which have been taken for the implementation of INSPIRE regarding soil data and information in Slovakia:

- Soil Science and Conservation Research Institute (<http://www.vupop.sk>) is a provider of Soil portal (<http://www.podnemapy.sk/>) aimed at agricultural soil and related GIS analyses outputs

Info Servis VUPOP - Register pôdy LPIS

500,000

Vrstvy

Voľiteľne Aktívne

- BPEJ
- Kultúrne diely
- SMO 10000
- SMO 5000
- Lokality
- Okresy
- Katastre
- ortofoto 2006
- ortofoto 2002

Aktualizovať mapu

[Návod](#)

zmliečtva a ochrany pôdy
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