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

EIONET Workshop on soil

Ispra, 4-5 March 2009
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

EIONET Workshop on soil
Ispra, 4-5 March 2009
Practical Arrangements

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