INSPIRE as a Powerful Tool for Managing and Opening Environmental Data

Leszek Litwin

Maria Lenartowicz¹, Alina Litwiak², Elżbieta Duraj², Łukasz Łukasiewicz², Leszek Litwin²

¹Chief Inspectorate of Environmental Protection, Warsaw (Poland)
²Institute of Spatial and Cadastral Systems Ltd. (ISPiK S.A.), Gliwice (Poland)
Chief Inspector of Environmental Protection in Poland:

In relation to INSPIRE implementation in Poland Chief Inspector of Environmental Protection is a leading institution within spatial data theme regarding „Environmental monitoring facilities”, referred to in section 3, point 7 of the Annex to the Act on spatial information infrastructure 1:

„Environmental monitoring facilities, defined as the location and operation of environmental monitoring equipment and measuring and control points for monitoring emissions, state of environmental resources and other ecosystem parameters, in particular biodiversity of biological conditions of vegetation”

1 Act of March 4 2010, on spatial information infrastructure (Journal of Laws No 76, item 489)
Name of the project:

"Implementation of the requirements of the INSPIRE directive/Adaptation of SEM spatial data resources to the requirements of the INSPIRE Directive - Phase I"

Building Infrastructure for Spatial Information (INSPIRE) in Chief Inspectorate of Environmental Protection – main goals:

• Development of the technical project for the implementation of the spatial information infrastructure node,

• Development and implementation of a node of spatial information infrastructure in the competence of CIEP for the purpose of SEM/Inspectorate of Environmental Protection,

• Selecting data/datasets relating to the theme "environmental monitoring facilities" from CIEP data resources, and supplementing those data with metadata
Building Infrastructure for Spatial Information (INSPIRE) in Chief Inspectorate of Environmental Protection – main goals:

- Two-step practical training in the form of workshops covering the subject of implementation
- Preparation of detailed post-implementation documentation including user and administrator guides
- Identification of datasets owned by Inspectorate, which could fall within the scope of other spatial data themes and their possible links to theme 7
Building Infrastructure for Spatial Information (INSPIRE) in Chief Inspectorate of Environmental Protection – expected results:

- creation, validation and publication of geoinformation metadata
- harmonization, integration and publication of data on environmental monitoring facilities under the State Environmental Monitoring, including the spatial data
- creation, testing and publication of spatial data services
- creation and publication of IIP node including INSPIRE Geoportal
INTERNET

Integration Platform - IUIP

OGC data sources

Map Server - ISDP
System management module
Data modules
Metadata editor

GeoportalToolkit GPT4
Metadata Catalog&Client
INSPIRE Portal
E-learning Portal
OGC Services

INSPIRE Spatial Database

E K O I N F O N E T – monitoring source databases
INSPIRE GeoPortal:
Search for metadata

<table>
<thead>
<tr>
<th>General</th>
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What are you looking for?

- dataset
- series
- service

What words are you looking for?

- search for all terms
- search with some of the terms

What extent you are interested in?

version 1.0
Harmonized data (GML fragment):

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  - <base32:localId>INSPIRE_EF_MMS_MonitoringPrzyrody_MPP_2011</base32:localId>
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</base32:Identifier>

- <base32:Identifier>
  - <base32:localId>INSPIRE_EF_MMS_MonitoringPrzyrody_MPP_EMP_MOP</base32:localId>
  - <base32:namespace>PLZ1POS.2467</base32:namespace>
</base32:Identifier>

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      - <base33:localId>INSPIRE_EF_MMS_MonitoringPrzyrody_MPP_EMP_MOP</base33:localId>
      - <base33:namespace>PLZ1POS.2467</base33:namespace>
    </base33:Identifier>
  </ef:inspireId>
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  - <ef:mediaMonitored/>
  - <ef:geometry>
    - <gml:Polygon gml:id="gml:id_F3EBE23C9C8A62EE0490A086A4C4CAC_geom" srsName="EPSG:2180">
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        </gml:LinearRing>
      </gml:exterior>
    </gml:Polygon>
  </ef:geometry>
</ef:EnvironmentalMonitoringProgramme>
Accomplished in the course of the project:

- SDI Node (INSPIRE Portal, INSPIRE Geoportal, Metadata editor and Catalog, INSPIRE e-learning Portal,
- Services: view, download, discovery
- Geoinformation metadata
- Harmonization of spatial datasets
- Training (in progress)

Currently, training and implementation work are still underway. SDI node will be available to the public in autumn 2014.
Thank you very much ;-) 

Maria Lenartowicz – responsible for the realisation of the project at Chief Inspectorate of Environmental Protection

ISPiK S.A. Project Team:

Łukasz Łukasiewicz – Project Manager
Elżbieta Duraj, Alina Litwiak – metadata & data harmonization
Piotr Bajerski PhD ing., Paweł Czepelak, Grzegorz Kęs, – database and data harmonization experts
Leszek Litwin, PhD – INSPIRE data & metadata expert

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