How far are we?
Polish NSDI
Polish NSDI:

- **Project Geoportal 2**
- Geoportal – datasets and services
- Geoportal statistics
- Geoportal – other developments
- Future developments
Geoportal 2 project

- GEOPORTAL 2 is one of the biggest projects in Poland focusing on development of Spatial Data Infrastructure (SDI)
- The main goal of the GEOPORTAL 2 project, launched by the Head Office of Geodesy and Cartography (GUGiK), is to provide to citizens, business and public administration access to public registers containing high quality and reliable data using web services
- GEOPORTAL 2 concentrates more on development of services providing access to registers containing spatial data rather than on data
- The GEOPORTAL 2 Project – is funded under the Innovative Economy Operational Programme (OP IE) priority axis 7 „Information Society – establishment of electronic administration”
- Budget: above 120 mln PLN (~ 28,5 mln EURO)
- Time frame: July 2009 – March 2015
Dear All!

Welcome to the new edition of the national geoportal. We are pleased to introduce you to the results of more than two years of intense work that was carried out under the framework of the GEOPORTAL 2 project.

We are aiming at creation of truly innovative solutions in the area of space data supply. Therefore, GEOPORTAL 2 has importantly enlarged the range of functionalities that have been made available to the portal users so far. Starting from now, the users will be able to experience new quality in the area of access to data sets that are owned by the public administration. Thanks to geoportal, the services of spatial data infrastructure have been made available, not only for selected administration units, responsible for state registers, but also for a large number of both private users and legal entities.
Polish NSDI:

- Project Geoportal 2
- Geoportal – datasets and services
- Geoportal statistics
- Geoportal – other developments
- Future developments
Network services

- **75 view services**: 59 WMS, 16 WMTS
  - including INSPIRE services: 6 WMS, 6 WMTS,
- **29 download services**: 18 WFS, 6 WCS, 5 ATOM
  - including INSPIRE services: 6 WFS, 5 ATOM,
- **2 discovery services**:
  - Including one INSPIRE discovery service,
- **Other services**: metadata validation, OpenLS, etc.
- **coordinate transformation service**: 1 WCTS
- **94 external services connected to Geoportal**:
  - 81 WMS services and 13 CSW services.
Map brokers

**National broker**
http://mapy.geoportal.gov.pl

**Domain broker**
http://mapy.geoportal.gov.pl/imap/?gpmap=gp1

**INSPIRE broker**
http://mapy.geoportal.gov.pl/imap/?gpmap=gp3

More information about brokers
Presentation „Cartography in the Internet and the National Spatial Data Portal”
by Eliza Asendy
Room 5  2014.06.19 14:45
Available data sources

- General Geographic Database
- Vector Map Level 2 (VMap2)
- Topographic Database
- Ortophotomaps
- Rasters of topographic maps
- Rasters of thematic maps
- Cadastral data (2 data sources)
- State Boundary Register
- State Register of Geographic Names
- Register of geodetic network
- INSPIRE datasets
- Metadata (184,679)
- And other

29 TB of data!
Available INSPIRE datasets

- Transportation
- Cadastral parcels
- Geographical names
- Administrative units
- Addresses
- Soil
- Land cover
- Buildings
- Orthoimagery
- Elevation
- Production and Industrial Facilities
- Area management/restriction/regulation and reporting units
- Utility and governmental services

Annex I datasets available on Geoportal

More information about data harmonisation in Poland „Central European Perspective of Bringing INSPIRE into Practice”
by Marcin Grudzień
Auditorium 3  2014.06.16 14:00
Polish NSDI:
- Project Geoportal 2
- Geoportal – datasets and services
- Geoportal statistics
- Geoportal – other developments
- Future plans
Geoportal
Number of requests
Geoportal
Number of unique IPs
Geoportal
Response times

Response times in April 2014

- 84% - 0 - 1 seconds
- 3% - 1 - 3
- 2% - 3 - 5
- 2% - 5 - 10
- 2% - 10 - 30
- 2% - 30 - more
Agenda

Polish NSDI:

- Project Geoportal 2
- Geoportal – datasets and services
- Geoportal statistics
- Geoportal – other developments
- Future developments
Geoportal on mobile devices

WindowsPhone

IOS

Android

WindowsPhone

Geoportal on mobile devices

WindowsPhone

IOS

Android

Geoportal on mobile devices

WindowsPhone

IOS

Android

Geoportal on mobile devices

WindowsPhone

IOS

Android

Geoportal on mobile devices

WindowsPhone

IOS

Android

Geoportal on mobile devices
Geoportal on mobile devices

Support for mobile web browsers
Addresses – geocoding service

Geocoding service:

- OpenLS interface
- free
- flexibility - support for structured or not-structured request
- link http://mapy.geoportal.gov.pl/openLSgp/

```xml
<xsl:Request method="GeocodeRequest" version="1.0.0" requestID="ID_1">
  <gugik_ols:GeocodeRequest>
    <gugik_ols:AddressPoint countryCode="PL">
      <xls:Street>Ul.</xls:Street>
      <xls:Street>Pulawska 10</xls:Street>
      <xls:Place type="Municipality">Piany</xls:Place>
    </gugik_ols:AddressPoint>
  </gugik_ols:GeocodeRequest>
</xsl:Request>
```

Addresses – geocoding service

Geocoding service:

- OpenLS interface
- free
- flexibility - support for structured or not-structured request
- link http://mapy.geoportal.gov.pl/openLSgp/

```xml
<xsl:Request method="GeocodeRequest" version="1.0.0" requestID="ID_1">
  <gugik_ols:GeocodeRequest>
    <gugik_ols:AddressPoint countryCode="PL" id="http://geoportal.gov.pl/PZGIK">
      <xls:Street>Pulawska 10</xls:Street>
    </gugik_ols:AddressPoint>
    <gugik_ols:AdministrativeUnit hierarchyLevel="wojewodztwo" id="14"/>
    <gugik_ols:AdministrativeUnit hierarchyLevel="powiat" id="1418"/>
    <gugik_ols:AdministrativeUnit hierarchyLevel="gmina" id="1418043"/>
  </gugik_ols:GeocodeRequest>
</xsl:Request>
```

Addresses – geocoding service

Geocoding service:

- OpenLS interface
- free
- flexibility - support for structured or not-structured request
- link http://mapy.geoportal.gov.pl/openLSgp/

```xml
<xsl:Request method="GeocodeRequest" version="1.0.0" requestID="ID_1">
  <gugik_ols:GeocodeRequest>
    <gugik_ols:AddressPoint countryCode="PL" id="http://geoportal.gov.pl/PZGIK">
      <xls:Street>Pulawska 10</xls:Street>
      <xls:PostalCode/>
      <gugik_ols:AdministrativeUnit hierarchyLevel="wojewodztwo" id="14"/>
      <gugik_ols:AdministrativeUnit hierarchyLevel="powiat" id="1418"/>
      <gugik_ols:AdministrativeUnit hierarchyLevel="gmina" id="1418043"/>
    </gugik_ols:AddressPoint>
    <gugik_ols:GeocodeMatchCode accuracy="0.9"/>
  </gugik_ols:GeocodedAddress>
  <gml:Point>
    <gml:pos>21.026680271456385 52.074573580146485</gml:pos>
  </gml:Point>
</gml:Point>
```
Addresses – download service

Service publishing registry of addresses:

- complete up-to-date address register
- free
- available as web service
- containing around 7 000 000 address points
- simple, easy to use structure
- XML – each record contains all information form names of administrative units, through settlement name, postal code, street name till building number and coordinates
- interfaces: SOAP, REST, HTML
Geoportal API:

- JavaScript library
- Allows to be easily embedded on any website
- Supports many map compositions
- Supported methods
  - Place marker(s) at coordinates
  - Place marker(s) at address location
  - Search for address
Statistical module

http://mapy.geoportal.gov.pl/imap/?gpmap=gp2
Metadata tools

- support for any profile based on ISO standards
- support for 8 predefined metadata profiles
- available online

Metadata validator
Universal Map Module (UMM)

- Universal map component enhancing Command Support System (CSS) of Polish emergency services
- One solution for all emergency services
- Integrated with Command Support Systems (CSS) in order to deliver “spatial” functionality
- Delivering State Geodetic and Cartographic Datasets in order to support business processes of emergency services

SDI Module

- Software components designed to allow to publish the spatial datasets and metadata via network services
- Available free of charge for public governmental and local organisations

More information UMM „Collaborative Project for Social Safety in Poland. Universal Map Module” by Agnieszka Gruchała Room 4 2014.06.18 14:00
Production, Test & training environment:

- approximately 80 clusters
- approximately 218 virtual machines
- 2.08 TB RAM
- 812 x CPU cores
- approx. 30 TB storage space for data
Behind the scenes

- Hardware developments
  - New servers
  - New network tools – firewalls, load balancers
  - New database platform – Exadata
  - New storages – SONAS
  - New air conditioning
  - Back-up power supply
  - Monitoring tools
- Implementation of ITIL
  - Service desk
  - Incident management
  - Change management
  - Problem management
Polish NSDI:

- Project Geoportal 2
- Geoportal – datasets and services
- Geoportal statistics
- Geoportal – other developments
- Future developments
Future plans

- Geoportal 3D,
- Publication of new national datasets (BDOT10k, PRG, PRNG, control point network, ZSIN, etc.)
- Publication of INSPIRE datasets from annexes II and III
- Publication of ATOM services for national datasets
- Building internet shop
Future plans - CAPAP

Analytical Centre for Public Administration (CAPAP)

Goals of CAPAP

- Taking advantage of a full potential of spatial data by citizens, business and public administration
- Creation of analytical environment allowing publication of advanced services for public administration
- Development of spatial data infrastructure
- Increasing access to spatial services and datasets or public administration
- Increasing quality and interoperability of electronic public services
Thank you for your attention

Questions?

www.geoportal.gov.pl

marcin.grudzien@codgik.gov.pl