Unexpected effects of SDI implementation
Based on Geoportal.gov.pl

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Architecture
1. Spatial data database
2. Metadata database
3. Catalogue server
4. View services server
5. Download services server
6. Geoportal web page and map viewer

Map products
- Cadastral data
- General Geographic Database
- Topographic Database
- Orthophotomaps
- Rasters of topographic maps
- Rasters of thematic maps
- State Boundary Register
- State Register of Geographic Names
- other
Infrastructure

- 18 blades
- 68 processors
- 344 cores
- 809 GB RAM
- 160 TB of disk space

Extending the bandwidth

Date

Mb/s
Number of geoportal.gov.pl users

- Forestry Authorities
- Border Control
- Municipalities,
- Telecommunication companies
- Gas
- Electric
- Water management

Months of 2010. Total for 2010 – 2 million users

Cadastral Parcels WMS - Requests per month

Total per 10 months: 56,306,057
Time spent using Geoportal

30 minutes
Average time spent on geoportal.gov.pl

- 30.10%
- 14%
- 13.30%
- 19.20%
- 8.50%
- 5.70%
- 8.70%

Cadastral Parcels WMS – GetMap response time

- 93% of responses in less than 1s.
UNEXPECTED EFFECTS OF SDI IMPLEMENTATION

Fishers - selection of fishing rods

Find fisheries by:
• searching for underwater hills or places of lush vegetation,
• getting GPS coordinates of the place
• going there with a bike or a boat.

And all of this is happening in Google Maps era, once you could expect that there is no need for additional map providers.

“the quality of the geoportal maps and Google is incomparable... especially for rural and wild areas”
Gliding

Many requests to provide functionality of showing flight paths in Geoportal, both designed and filed.

Air accident documentation

Landing fields identification

Gliding cntd.
Real estate market

Real estate agents – customer games
Hide and seek
Game of cat and mouse

Downloading the data – to keep it „safe”

Cadastral Parcels WMS usage (local node)
Cooperation – Flood management authority

WMS services usage – OpenSource, homemade scripts
WMS services usage

Thank you

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