Improving public safety with National Security Map

Head Office of Geodesy and Cartography

8th September 2017

Marcin Grudzień
Agenda

- Public security
- National Security Map (NSM)
- Statistics
- Conclusions
Who we are?

- Head Office of Geodesy and Cartography (GUGiK) is Polish National Mapping and Cadastral Authority
- Involved in coordination of INSPIRE implementation in Poland
- Also directly responsible for harmonisation of datasets for 15 INSPIRE themes
Security’s stakeholders

- Administration of civil construction, Sanitary-epidemiological service
- Non-governmental organisations
- Emergency management services: Police, Fire service, Border guards, Health service, Regional emergency centres (112)
- Media
- Local governments
- Military
- Municipality police
- Citizens
The broken windows theory is a criminological theory of the norm-setting and signaling effect of urban disorder and vandalism on additional crime and anti-social behavior. The theory states that maintaining and monitoring urban environments to prevent small crimes such as vandalism, public drinking, and tail-jumping helps to create an atmosphere of order and lawfulness, thereby preventing more serious crimes from happening.
Main issues with reporting crimes

- Social callousness – people get used to petty crimes, so they do not care or notice

- Reluctance to denounce – cooperation with the police is considered by some people as something inappropriate

- It is time consuming
  - Let’s create an application
API

- Presentation of users’ business objects using state, official spatial data as a background
- Additional functionalities allow to:
  - Create private and public map compositions
  - Create, update and delete business objects using GUI
  - Define own markers
  - Define clusters of objects
  - Connect external WMS, WMTS services
- Online documentation
Portal that allows people to report online location of: minor criminal offences and potentially dangerous sites

Crowdsourced data from citizens

https://mapy.geoportal.gov.pl/iMapLite/KMZBPublic.html
Mobile applications for:
- iOS
  https://itunes.apple.com/pl/app/imap-mobile/id598579288
- Android
- Many other minor improvements
Reported crimes

- Act of vandalism
- Illegal rubbish dump
- Pouching
- Illegal clearance of trees
- Illegal car race
- Incorrect car parking
- Damaged greenery
- Quad race in forest
- Exceeding speed limit
- Public drinking
- Burning up grass
- Cruelty to animals
- Beggary
Potentially dangerous situations

- Homeless people
- Unlisted swimming area
- Grouping area of adolescents endangered by demoralization
- Dangerous location on waters
- Unprotected railway pedestrian crossing
- Unprotected grade crossing
- Damaged road infrastructure
- Drowning
- Drugs abuse
- Homeless dog
- Collision with wild animal
- Traffic organisation problem
National Security Map – business process
Statistics

Types of most often reported security issues

- Incorrect car parking: 28%
- Exceeding speed limit: 26%
- Public drinking: 24%
- Other: 22%
### Statistics

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Police officers – local coordinators</td>
<td>2,526</td>
</tr>
<tr>
<td>Users (July 2016 to 29th August 2017)</td>
<td>908,279</td>
</tr>
<tr>
<td>Average number of monthly users</td>
<td>67,868</td>
</tr>
<tr>
<td>Average numbers of daily entries</td>
<td>1,099</td>
</tr>
<tr>
<td>Number of all reported events (till 29th August 2017)</td>
<td>466,975</td>
</tr>
<tr>
<td>Number of confirmed notifications</td>
<td>192,764</td>
</tr>
<tr>
<td>Number of rejected notifications</td>
<td>266,980</td>
</tr>
</tbody>
</table>
Statistics - awareness

Have you heard about National Security Map?

- Survey carried out in January/February 2017 – 3 months after launch of NSM for the area of entire Poland
- Commissioned by the Police
- Survey technique – face-to-face meetings
- Survey done by independent research centres
- Population 17 000
By utilizing INSPIRE framework NMCAs offer loads of spatial data services, building API working on top of the services makes spatial data more user-friendly

- Be open, be flexible

- Your products are your best advertisements

- VGI is a future of SDI, therefore we plan to deliver a product that will allow users to prepare maps similar to NSM without need of coding
Thank you for your attention

Questions?

www.geoportal.gov.pl

marcin.grudzien@codgik.gov.pl