Collaborative Project for social safety in Poland
Universal Map Module

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GEOPORTAL2

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Protecting people and property

The Emergency Notification System

- fast response,
- effective communication and proper analysis of information;
- human resource management.
Effective functioning of the emergency notification depends on modern IT and telecommunications tools which allow to rapid response and analysis of the crisis situation.
IT for protect people and property
Emergency number - 112

Public telecom network stationary & mobile

Telecom operator

Telecom operator

UKE PLI CBD

Location = Universal Map Module
In Poland, spatial visualization in the emergency notification system is provided by the Universal Map Module (UMM).

UMM was developed by the project GEOPORTAL 2.
Tasks of The Surveyor General of Poland (President of the Head Office of Geodesy and Cartography (GUGiK)):

• manages the central geodetic and cartographic resource

• establishes and operates the Geoportal as a central access point to spatial services

Making and using geoportals: Cartography in the Internet – Thu, 2:45 PM
Tales from the INSPIRE Implementation: From plans to practice: How far are we? – Thu, 11:00 AM
UMM Integration

CSS - Command Support System

Regional Emergency Centres

Police Service CSS

Fire Service CSS

Ambulance Service CSS

OSTi2
Universal Map Module applications
• API
• Presenting business objects (e.g. police patrols) with map visualisations as a background
• Enhancing everyday work of controller with a spatial context
• Visualisation of reported events
UMM Analyst Applications

- Desktop application
- Conducting attribute, 2D and 3D spatial (raster and vector) analysis simultaneously for GUGiK and Partner’s data
- Creating map visualisations for the purposes of operational maps
UMM User Application

- Web application
- Presenting map visualisations
- Presenting Partner’s data sets via network services
- Search functionality:
  - Addresses
  - Coordinates
  - Roads, areas of interest
  - POI
  - Responsibility areas
UMM Mobile Client

- Desktop application for mobile devices
- Search functionality:
  - Addresses
  - Coordinates
  - Responsibility areas
- Car navigation system
- Visualization of business objects with geodetic and cartographic data in the background
UMM in using
Police command center
UMM - partners and users

The Police

The State Fire Service

The Emergency Notification Centres

The Emergency Medical Services
Universal Map Module
Issues and challenges - in creating

Our inspiration to create flexible solution

- big organizational challenge
- different partners - different requirements
- linking reference spatial data and operational data from emergency services - protected data
- providing access to technical documentation, functional documentation and others to check
- ...

INNOVATIVE ECONOMY
NATIONAL STRATEGY
UMM flexibility

Flexible infrastructure

Flexible architecture

Flexible functionality

Flexible API
Universal Map Module is universal and flexible - it has collection of methods available in the application programming interface (API) typical for GIS named "generic interface". The generic interface can be used by next entities who need to perform operational activities on the reference spatial data.

UMM uses the data collected in the infrastructure for spatial information, the data are provided by services in accordance with the INSPIRE guidelines.

UMM is an example of good practice of INSPIRE implementation.
Thank you for your attention!

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