



# BE SMART WITH GIS

Kielce, Poland  
November 14-15, 2019  
Jana & Miloslav Michalko



# Who we are?

academia  
infographics 3D maps  
webmaps QGIS workshops  
small company geodata  
**open source enthusiasts**  
GIS consulting young people  
geovisualizations research  
public sector building SDI

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# Our team



Jana Michalková, CEO

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Cartography and GIS analyst,  
Ph.D. lecturer and researcher  
in regional geography



Miloslav Michalko

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Geodata expert, GIS  
consultant, Ph.D senior  
researcher in regional  
geography

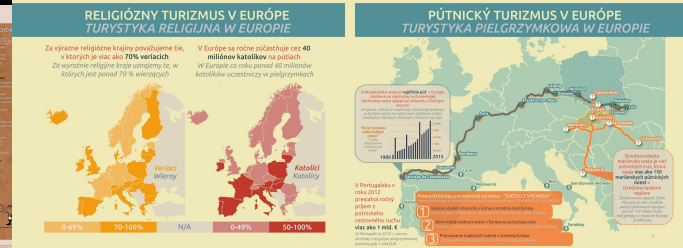
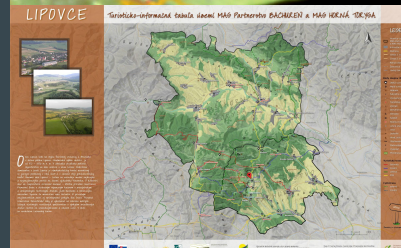
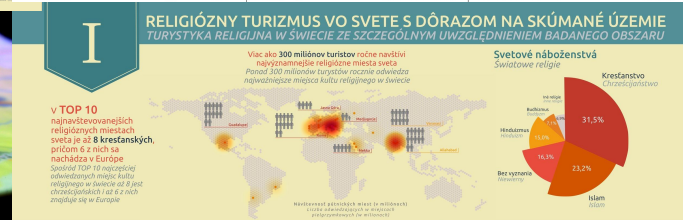
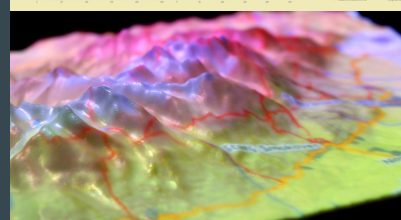
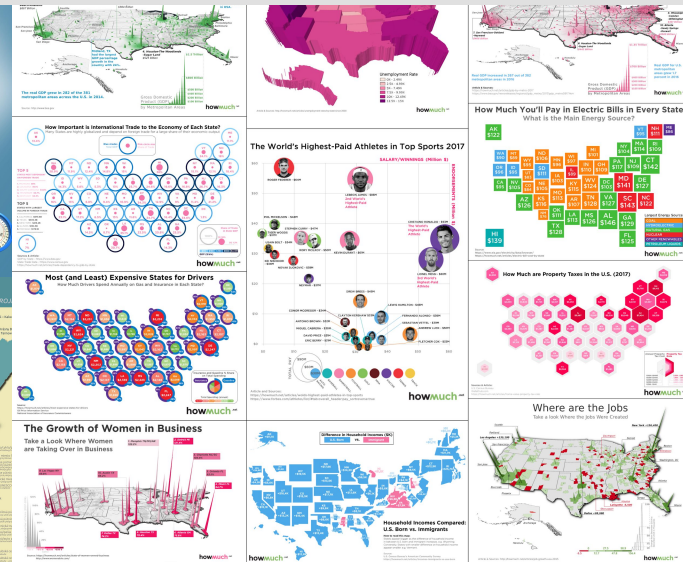


Jakub Kovář

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Geodata expert junior,  
student of geography and  
applied geoinformatics

# What we did?



# What we are working on?

## Project Catching up Regions

2018-2019

### Goal:

- Building of regional Spatial Data Infrastructure (SDI)

### Partners:

- World Bank (WB)
  - European Commission (EU)
  - Prešov Self-governing region (PSK)
    - with our GIS expertise assistance
  - Prešov university
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# Project Catching up Regions

## Capacity building in GIS with our assistance

### Series of trainings and support such as:

- Project management,
- Geospatial data collection, analytics, and OSM community
- Geospatial web tools and standards
- Geoportal admin and data integration
- Introduction in agile/scrum methodology
- Introduction in web mapping and data visualization

## What else was done for building SDI at regional level

- Partnerships with strategic organizations at local, national and international level
- Budget, investment and procurement
- Geoportal content management system
- National government support

# Project Catching up Regions

## Expected outputs for PSK

### Internal geodata management:

- Education
- Health
- Social affairs
- Property management
- Transport

### External geodata management:

- Tourism
- Roma population
- Social affairs
- Property management

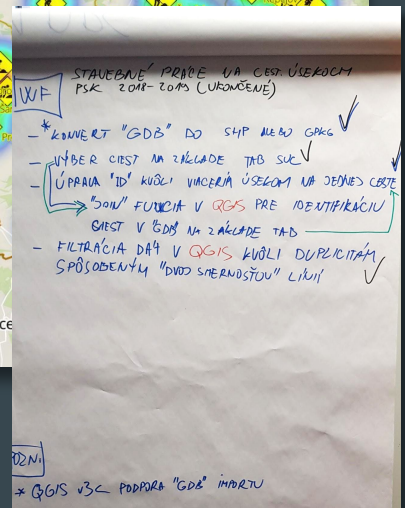
### Establishment of GIS division:

- Capacity building
- Define the activity framework
- Establish new partnership in the region



## How did we proceed...

**Potential End Goal:** Comprehensive map of roads under reconstruction and costs





# How do we understand **SMART** in sense of **self-government**?

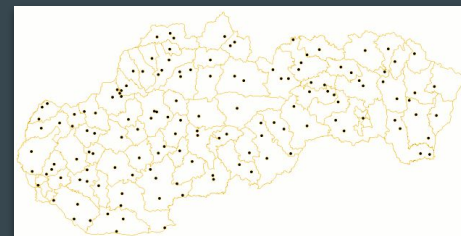
Open data for  
public sector

High quality data  
for decision  
making process

Open and  
transparent as  
much as possible

# SMART in Slovakia conditions

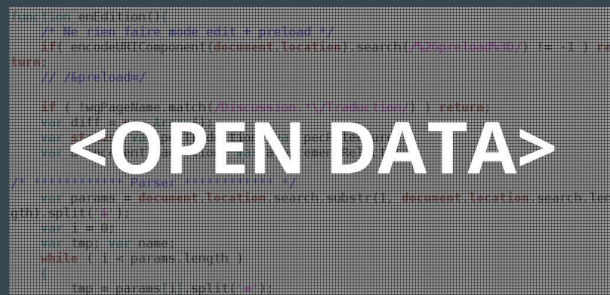
**There is no coordination process at any level**



**National level:** Office of the Deputy Prime Minister for Investment and Informatics

**Jun 2019:** Visions and Strategies for the Development of Slovakia until 2030 (proposal)

**Min of Transport:** Concept of Urban Development of the SR until 2030

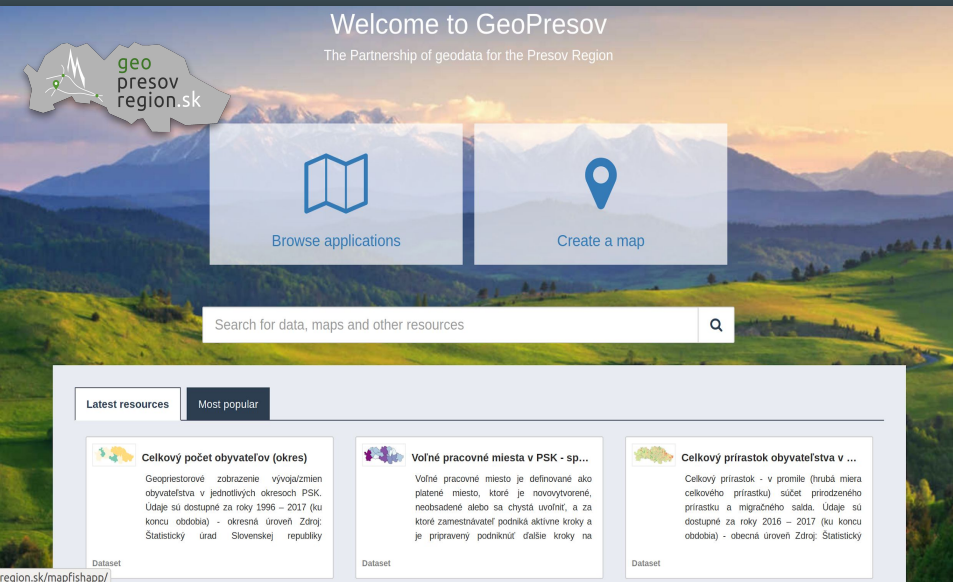


# SMART in Slovakia conditions

In **2018** the city of **Prešov** received the support of the **European Investment Bank** in developing the **Smart City concept** and is still working on it



# Quadruple Helix based on GIS



## Project Catching up Regions = **Theory** + **Practice**

- **4 helixes** = 4 groups of actors
- **SDI = glue/connection**
- result = **effective mutual cooperation**; more efficient ways of working and building more attractive environments

# Quadruple Helix based on GIS





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## Thank you!

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