

# GIS of Traditional Folk Culture



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# ■ Project Introduction

**Geographical information system for traditional folk culture (1750 – 1900)**

Duration 2012 – 2015

## Goals

- Collect records about traditional folk culture in Moravian country between years 1750–1900
- Spatiotemporal analysis of acquired data
- Web GIS presentation of acquired data



# ■ Moravia

Moravia is historical country covering one third of the Czech Republic





# ■ Who stands behind?

**Ministry of Culture of the Czech Republic**

Project funding

**Masaryk University, Czech Republic**

– **Department of European Ethnology**

Data acquisition, data analysis

– **Institute of Computer Science**

Database model, web GIS presentation



## ■ Why is it important?

To help preserve culture heritage.

Traditional folk culture in the Czech republic

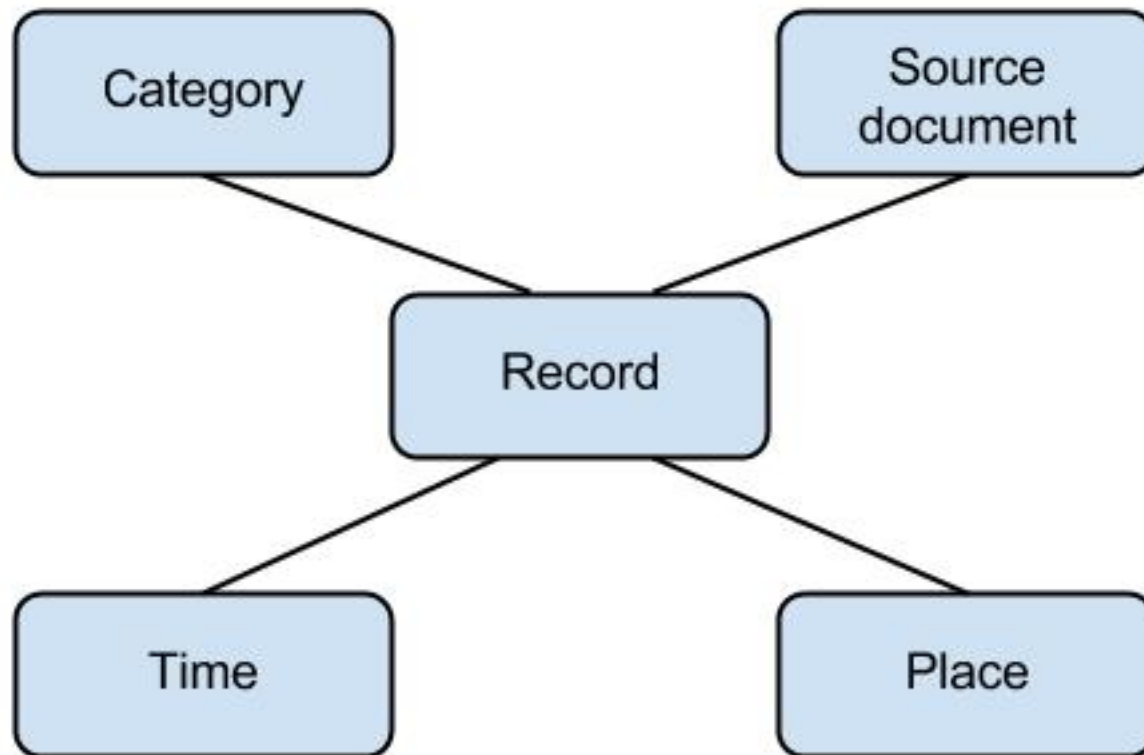
- Long and rich history
- Bearer of patriotism on national and regional level, especially in the past

Records about the traditional folk culture were **never before collected in one place** to enable complex research on this phenomenon.

# ■ Moravian Folk Culture



## ■ Data model





# ■ Data types

## Record

10,000 records (June 2014)

- Mention about some custom, product, song, etc.
- Linked with photographs and scans

## Source document

- Published document  
Chronicle, book, article, map
- Object  
Museum exhibit, building



# ■ Data types

## Category

- Tree structure of 1200 categories  
e.g. Music -> Musical instrument -> Bagpipes

## Place

- Municipality, parish, legal district, manor, or ethnological region  
Most of them are historical regions

## Time

- Year or interval of years



# ■ Web GIS presentation

## Search and show records

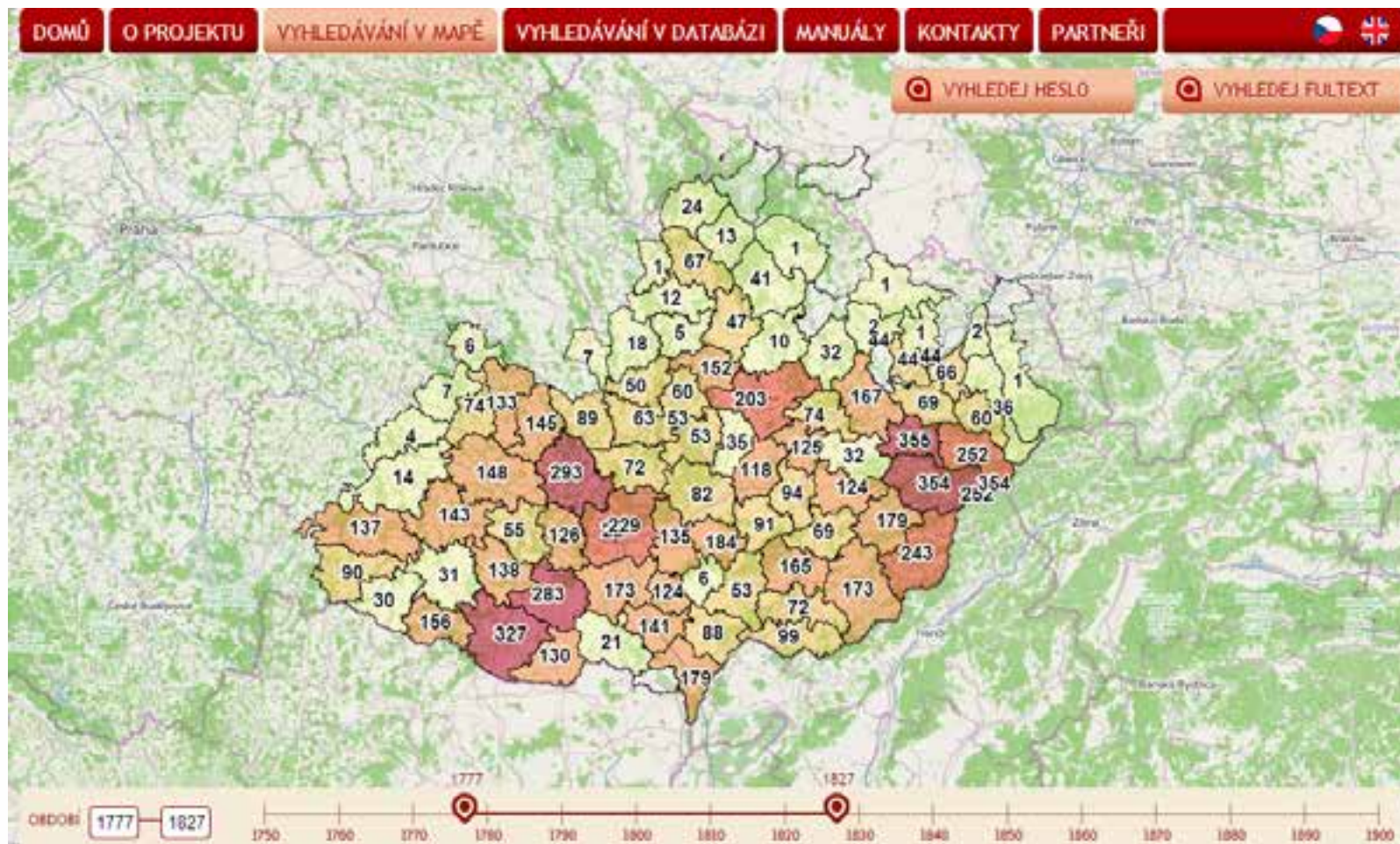
- Filter by space, time, and category (key word)
- Fulltext search
- Show attached documents

## Visualize number of records per locality

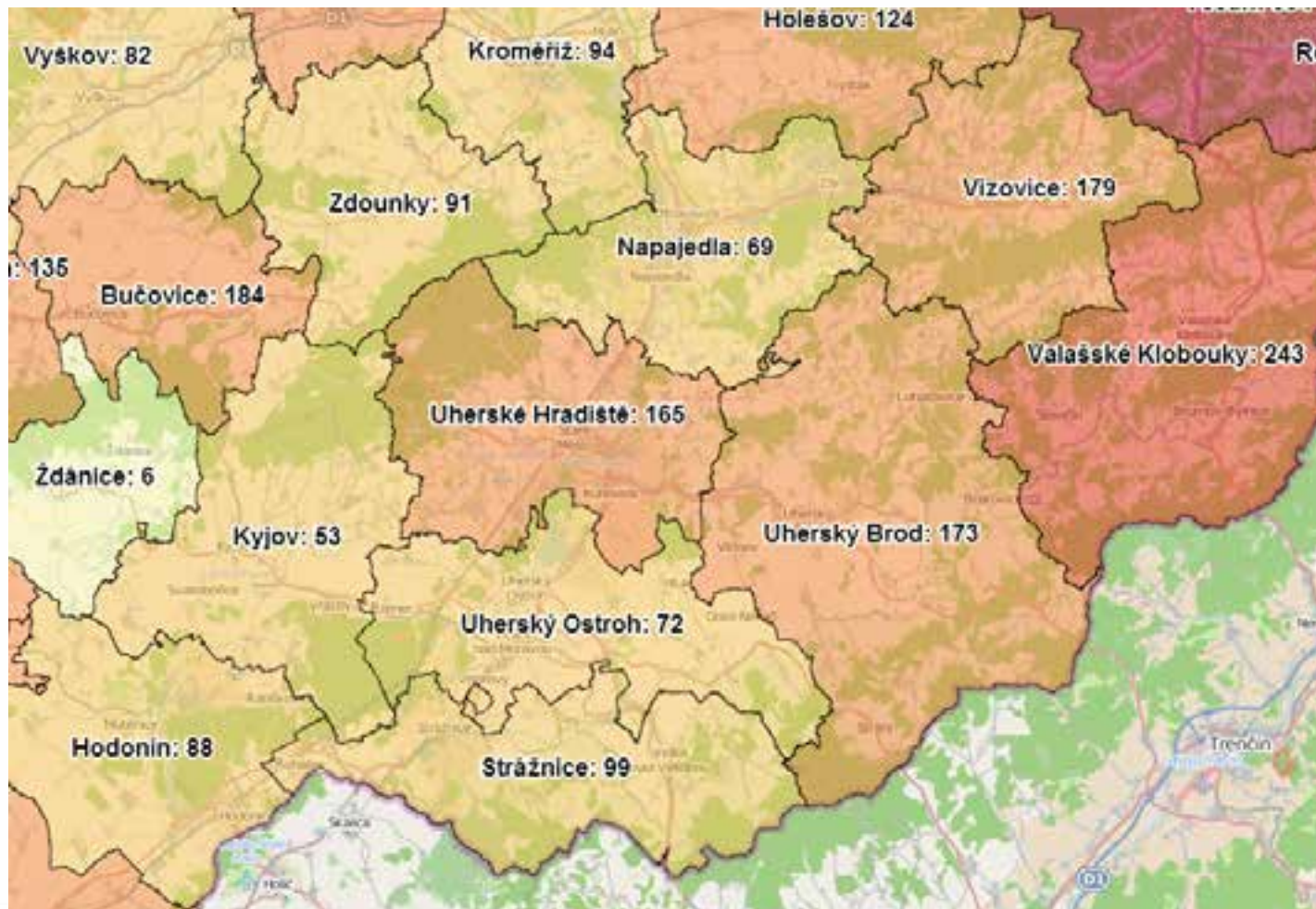
Choropleth map

## Find historical places

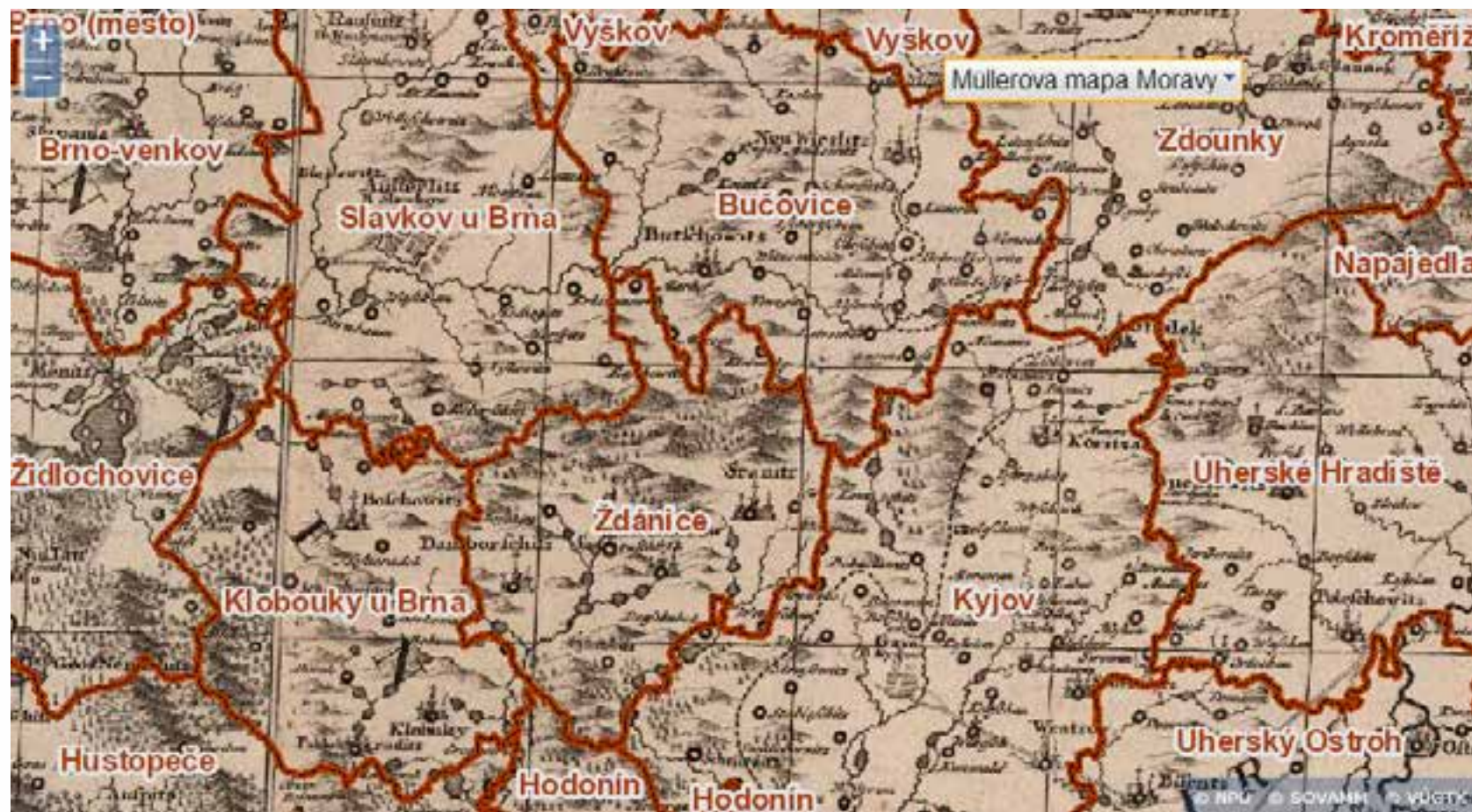
# ■ Choropleth map



# ■ Choropleth map



# ■ Combination with old map





# ■ Technological background

## Database

- Microsoft SQL Server

## Server

- ArcGIS Server

## Client

- HTML5, Google Closure Library, OpenLayers 3

## Interface

- ArcGIS REST API, Web Feature Service



Thank you for attention!

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