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

- Category
- Source document
- Time
- Place

Record
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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