

# CentropoMAP CentropoSTATISTICS

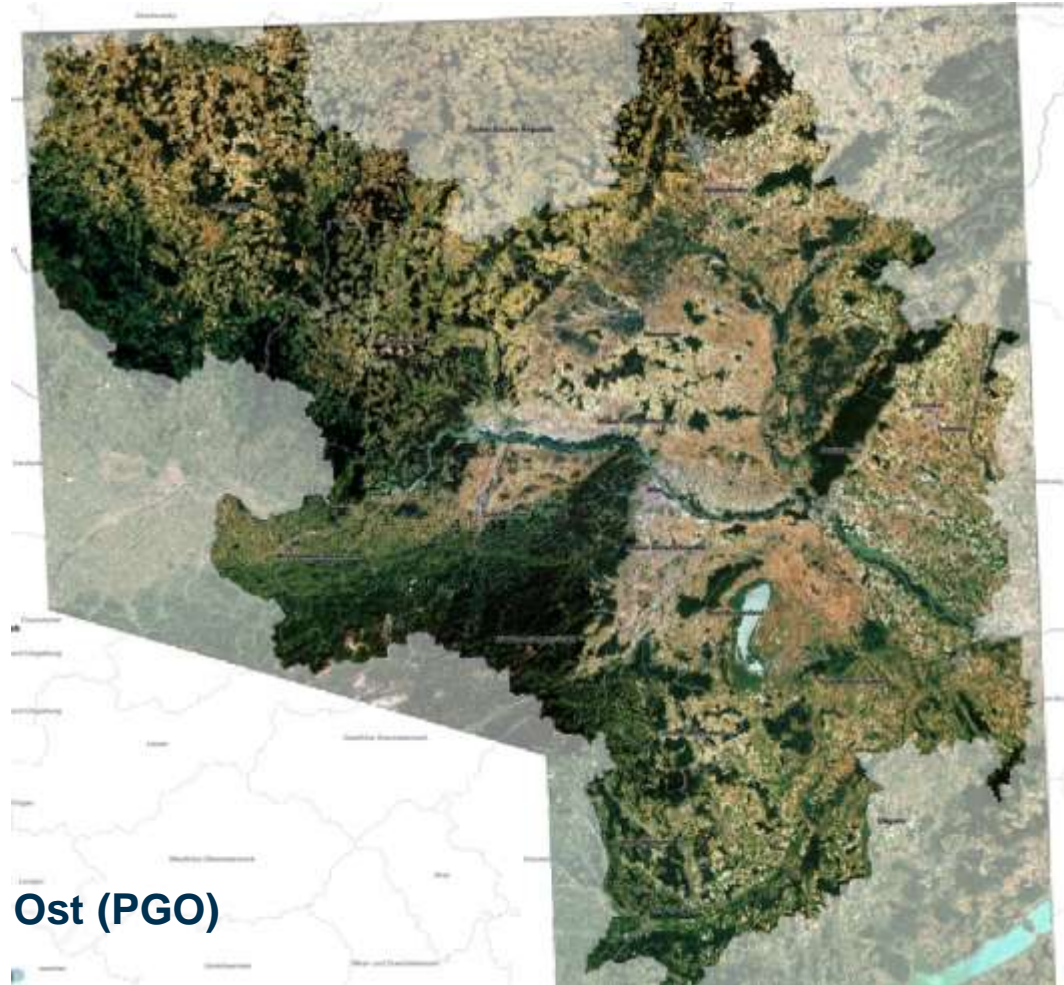
## CentropoSTATISTICS as a Means of Cross-Border Presentation of Statistical Data

**Manfred Schrenk\***  
**Clemens Beyer\***  
**Norbert Ströbinger\*\***

**\* MULTIMEDIAPLAN.AT**  
Schwechat, Austria

**\*\* PLANUNGSGEMEINSCHAFT OST**  
Vienna, Austria

on behalf of the **Planungsgemeinschaft Ost (PGO)**  
(Eastern Austrian Planning Association)



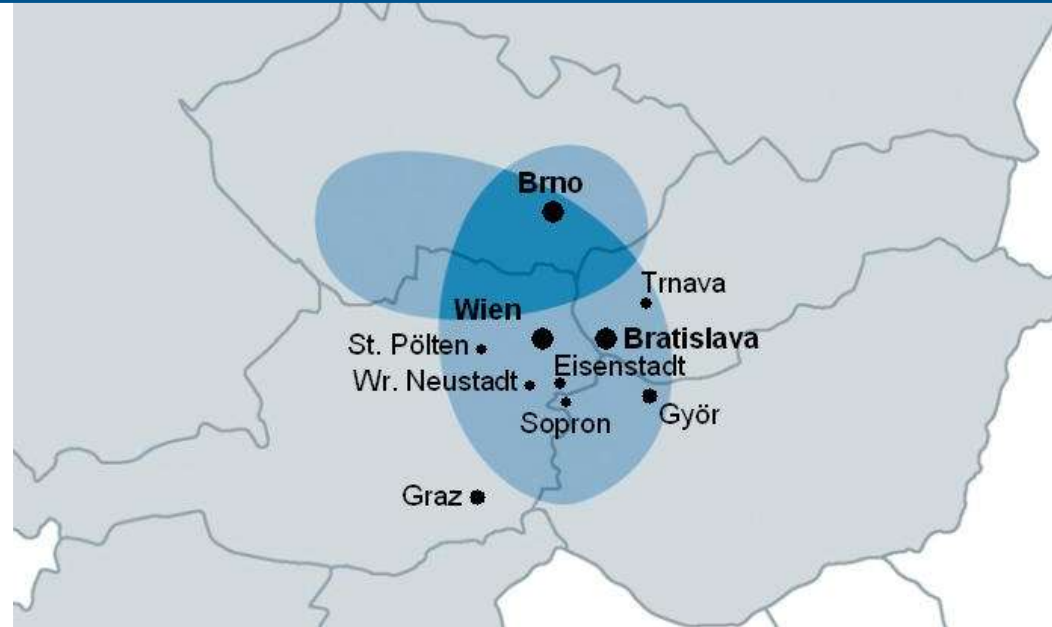
# Contents

---

- ▶ The Centrope Region
  - CentropeMAP
  - CentropeSTATISTICS
  - Perspectives

# CENTROPE Partner Regions

- Czech Republic
  - Region: South Moravia
  - City: Brno
- Slovak Republic
  - Region: Bratislava, Trnava
  - Cities: Bratislava, Trnava
- Hungary
  - Region (county): Győr-Moson-Sopron, Vas
  - Cities: Győr, Sopron
- Austria
  - Region (federal states): Burgenland, Lower Austria, Vienna
  - Cities: Eisenstadt, St. Pölten, Vienna
  - *Interested: Wiener Neustadt*



# CENTROPE Region



(Source: Wikipedia)

## Population

6 million  
of which 3 million  
in cities



## Economy

3.8 million employed  
55-65 % in service sector  
unemployment rate between  
4 and 14 %  
GDP growth between  
0.8 % and 3.6 %  
since 2003

## Infrastructure

3 international airports  
(Brno, Bratislava, Vienna)  
2 Danube river ports  
(Vienna, Bratislava)  
Pan-European corridors

# Contents

---

- The Centrope Region
- ▶ CentropeMAP
- CentropeSTATISTICS
- Perspectives

# Challenges

---

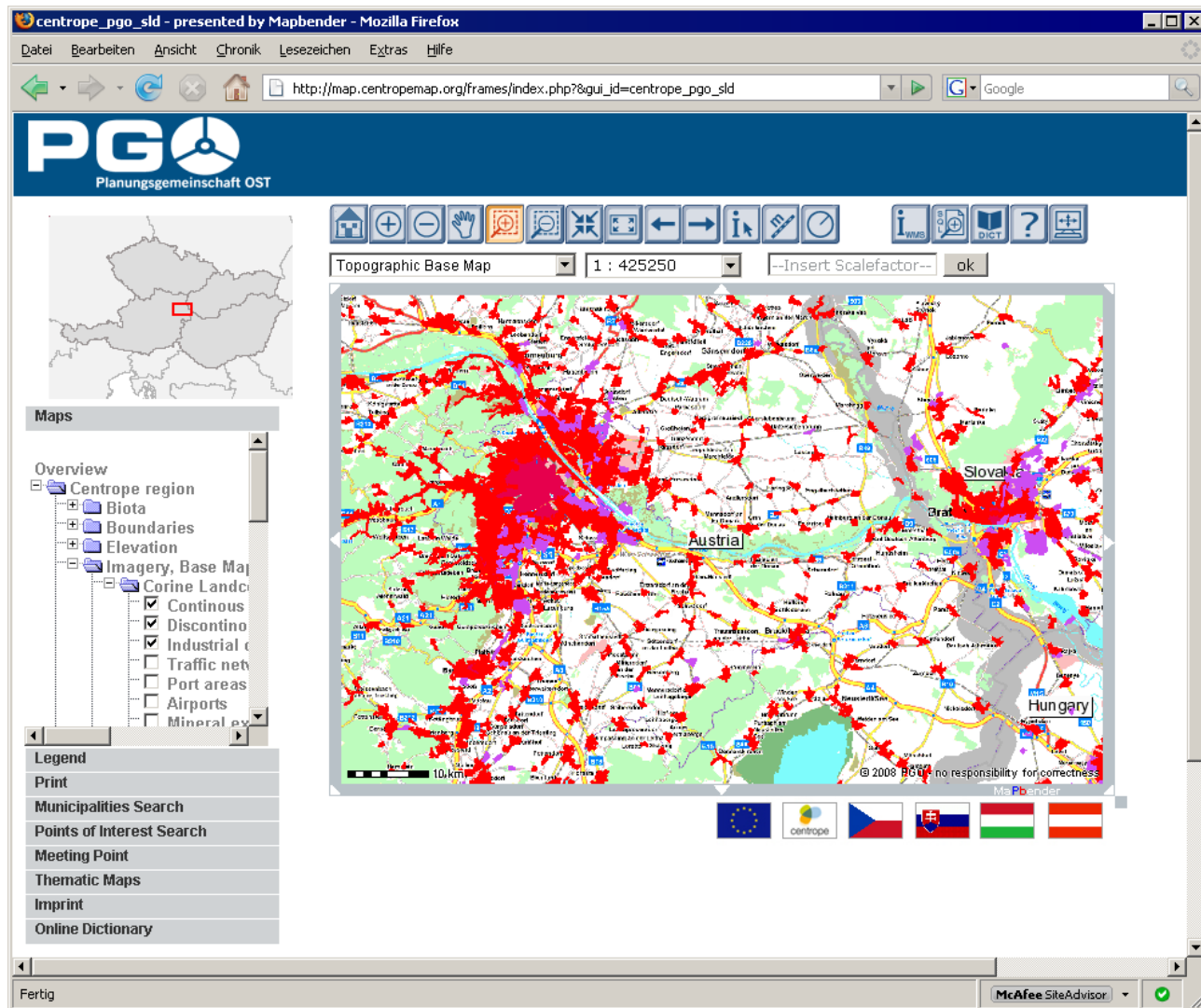
## Centrope MAP Challenges

- Legal planning responsibilities on different levels
- Data responsibilities on different levels
- Administrative boundaries = data boundaries
- No “common data infrastructure“ available, only “isolated applications“



# CentropeMAP Web Application

- datasets come directly from project partners  
→ no redundancy, always up-to-date
- functions: Zoom, Pan, Query, Search, Tell-A-Friend, Measurement
- hundreds of layers for the whole region and sub-regions
- background maps from simplified views to high-resolution satellite images and aerial views (ortho-photos)
- map generation on the fly



# Data Examples

The screenshot displays the centropemap.org web application interface. At the top left is the PGO logo (Planungsgemeinschaft OST). The main map area shows a detailed view of Trnava, Slovakia, with various data layers overlaid. The map includes labels for municipalities such as Suchá nad Parnou, Ružindol, Biele Kostoľ, and Trnava. The interface features a toolbar with navigation and tool icons, a 'Select Background' dropdown menu, a scale indicator (1 : 74541), and an 'Insert Scalefactor' button. On the left side, there is a 'Maps' panel with a tree view of layers, including 'Elevation', 'Imagery, Base Map', 'Inland Waters', 'Structure', and 'Transportation'. Below the 'Maps' panel is a 'Legend' section with buttons for 'Print', 'Municipalities Search', 'Points of Interest Search', 'Meeting Point', 'Thematic Maps', 'Imprint', and 'Online Dictionary'. At the bottom of the map area, there are logos for the European Union, centrope, and the Slovak Republic, along with a copyright notice: '© 2008 PGO - no responsibility for correctness'.

elevation, road network, railway network, urban fabric, inland waters



# Data Examples

The screenshot displays the PGO (Planungsgemeinschaft OST) web application interface. At the top left is the PGO logo. Below it is a small overview map of the region. The main map area shows a high-resolution orthophoto of a town and surrounding forest. A green dotted line outlines a specific area labeled 'Podvlti', which is identified as an environmental protected territory. The interface includes a toolbar with various navigation and tool icons, a dropdown menu for map styles (currently set to 'Topographic Base Map'), a scale indicator (1 : 3756), and a scale factor input field. On the left side, there is a 'Maps' panel with a tree view of map layers, including 'Name of regions', 'Economy', 'Environment', and 'Imagery, Base Maps, E'. The 'Environment' section is expanded, showing 'Protected territory' checked. Below the map panel is a 'Legend' section and several utility buttons like 'Print', 'Municipalities Search', and 'Points of Interest Search'. At the bottom of the map area, there are logos for the European Union, centrope, and the flags of the Czech Republic, Slovakia, Hungary, and Austria.

high resolution orthophoto, environmental protected territory (Znojmo, CZ)

# Data Examples

**PGO**  
Planungsgemeinschaft OST

Select Background | 1 : 219713 | --Insert Scalefactor-- | ok

**Maps**

- und Water Maximum Level 2
- und Water Maximum Level 2
- und Water Maximum Level 4
- und Water Body
- ter Sanctuaries
- und Water Directive
- und Water Preservation Area
- und Water Sanctuary
- er Head Protection Area
- Directive (SPA)

**Legend**

- Print
- Municipalities Search
- Points of Interest Search
- Meeting Point
- Thematic Maps
- Imprint
- Online Dictionary

© 2008 PGO - no responsibility for correctness

centrope

EUROPEAN UNION

CZECH REPUBLIC

SLOVAKIA

HUNGARY

AUTONOME PROVINZ BOZEN SÜDTIROL

urban fabric, rivers, inundation risk areas, high ground water level (<2m)  
(Danube, Lower Austria)

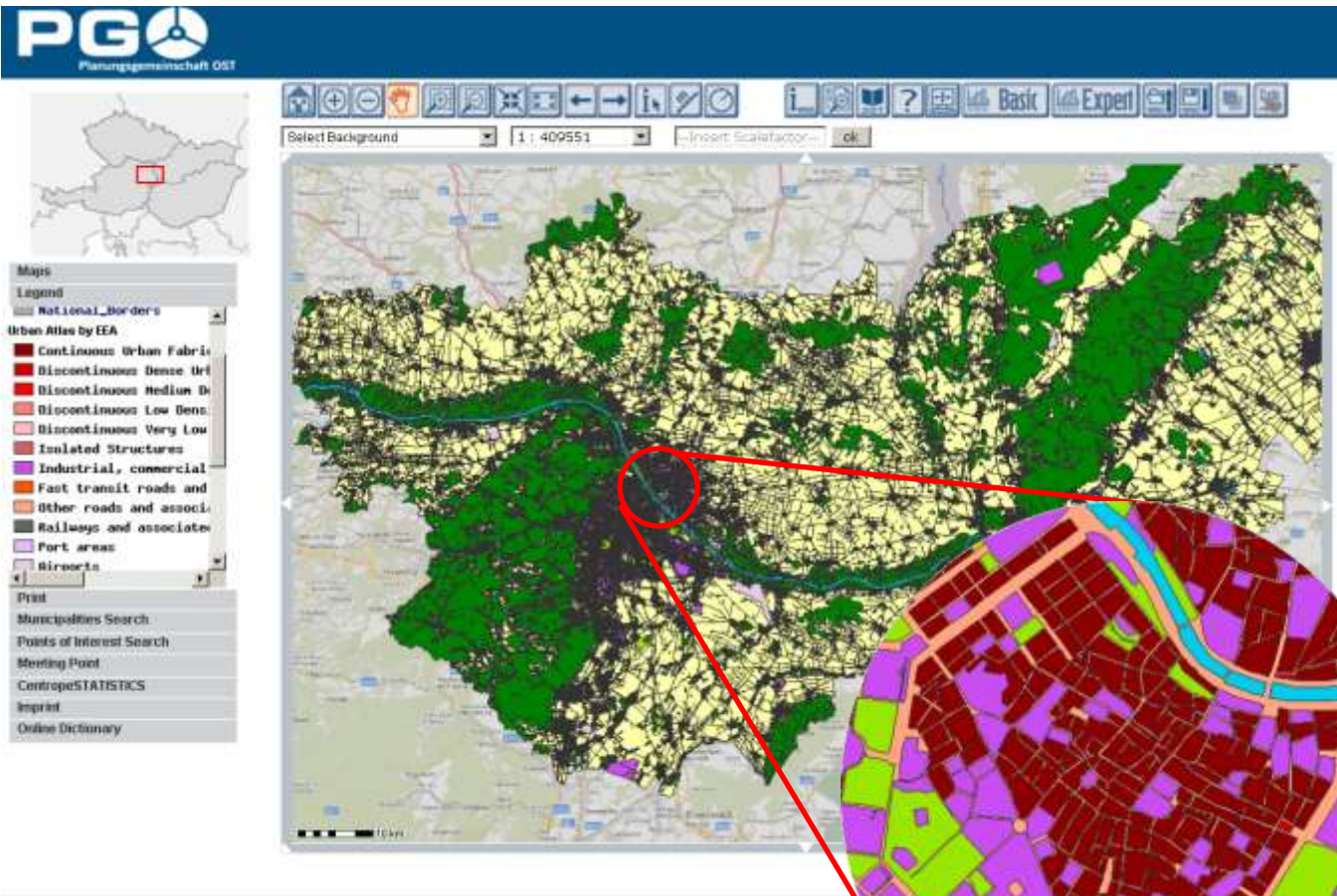
# Data Examples

The screenshot displays the PGO (Planungsgemeinschaft OST) web mapping application. The main map shows the Lake Neusiedl region, with land cover data from Corine Level 2. The map is color-coded, with green representing forest, yellow representing agricultural land, and blue representing water bodies. The map is centered on the Lake Neusiedl region, with labels for Austria, Slovakia, and Hungary. The interface includes a navigation toolbar at the top with various icons for home, zoom in, zoom out, pan, and other map controls. Below the toolbar, there is a 'Select Background' dropdown menu, a scale bar showing '1 : 410094', and an 'ok' button. On the left side, there is a sidebar with a 'Maps' section containing a tree view of map layers: Boundaries, Environment, Inland Waters, Society, Structure, and Transportation. Under Transportation, there are checkboxes for Electric railroad, Narrow railroad, Major roads, Major roads2, Minor roads, Minor roads2, Offroads, and Minor offroads. Below the sidebar, there is a search bar with the text 'rakia' and a 'Legend' button. At the bottom of the map, there is a scale bar showing '10/km' and a copyright notice: '© 2008 PGO - no responsibility for correctness'. At the bottom right, there are logos for the European Union, centrope, and the flags of the Czech Republic, Slovakia, Hungary, and Austria.

Corine Land Cover Level 2 (Lake Neusiedl Region)

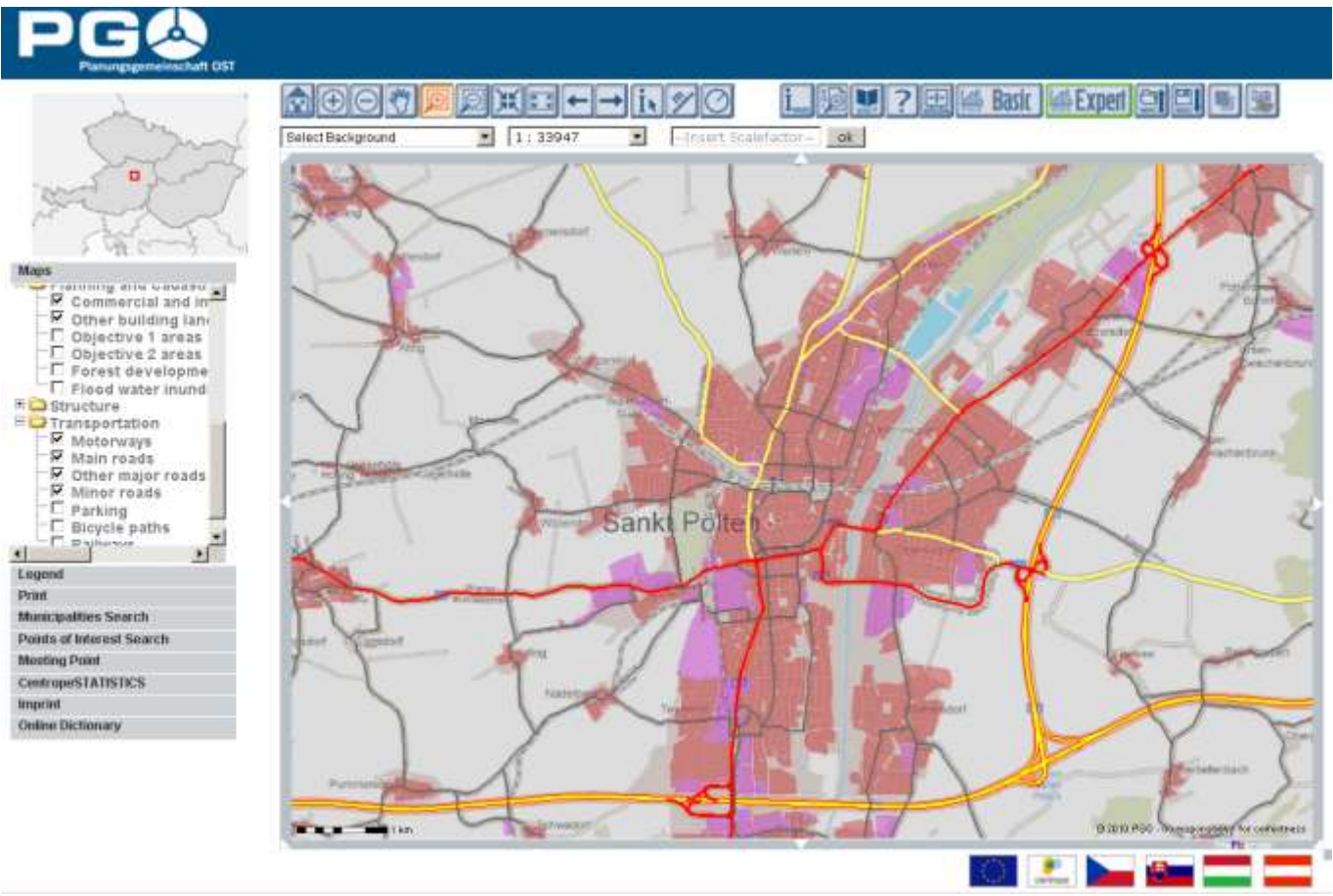


# Data Examples



European Urban Atlas  
(Twin City Region Vienna-Bratislava)

# Data Examples



Building Land (Residential/Commercial), Road Network  
(St. Pölten, Lower Austria)

# Contents

---

- The Centrope Region
- CentropeMAP
- ▶ CentropeSTATISTICS
- Perspectives



# Project Partners

## CentropeSTATISTICS is a cross-border database project of these co-operating statistics offices/departments in the Centrope Region

(on behalf of PGO – Planungsgemeinschaft Ost/Eastern Austrian Planning Association, and technically led by MULTIMEDIAPLAN.AT)

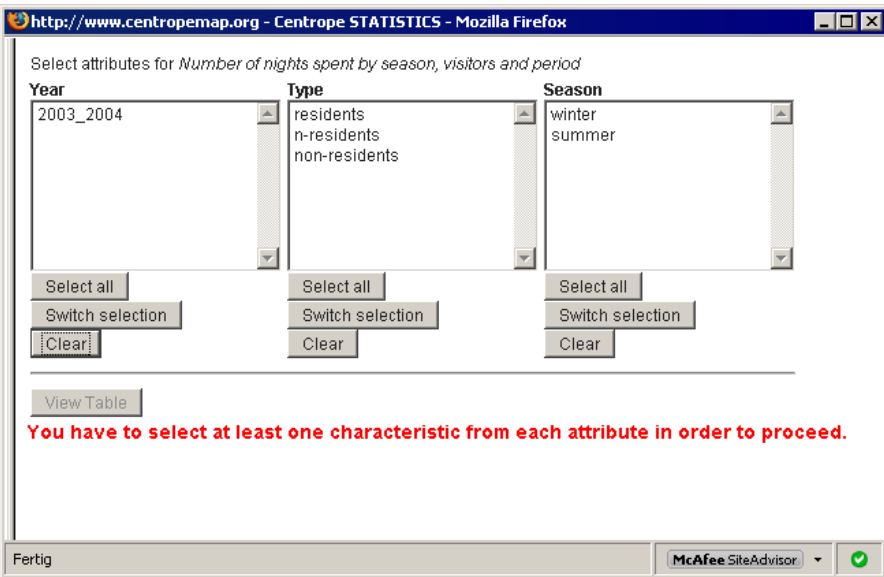
- **Czech Republic:** CZSO - Czech Statistical Office – Český statistický úřad (ČSÚ)
- **Slovak Republic:** Statistical Office of the SR – Štatistický úrad Slovenskej republiky
- **Hungary:** HCSO - Hungarian Central Statistical Office – KSH - Központi Statisztikai Hivatal
- **Austria:** Statistics Departments of the three Austrian federal states Burgenland, Lower Austria and Vienna

### Workshops:

September 2008/March 2009 in Schwechat,  
September 2009 in Brno, June 2010/December 2010/  
March 2011/December 2011/June 2012/February 2013/  
November 2013 in Schwechat, 2014 in Vienna

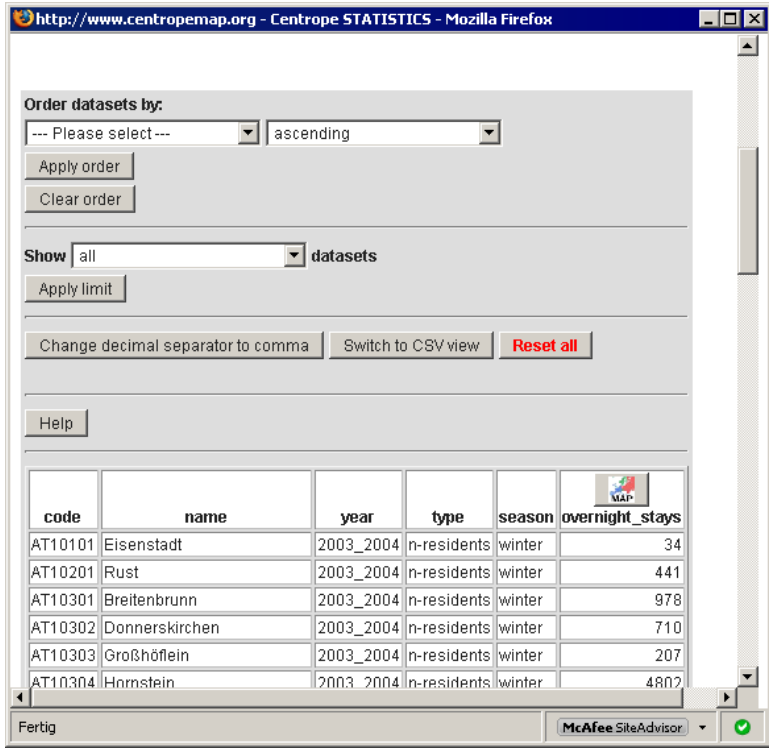


# CentropeSTATISTICS User Interface



- All available indicators are displayed
- Multiple choice allowed
- Results are shown as table
- Dynamic Database Live Query


- Functions:  
Show – Export – Query – Sort



→ On the fly Map Generation

# CentropeSTATISTICS User Interface

http://www.centropemap.org - Centrope STATISTICS - Mozilla Firefox



Planungsgemeinschaft OST

NUTS 3 Overview: Population density, dwellings, population by age groups

Statistics for persons\_per\_household:

Minimum:	2
Mean:	2.629
Median:	2.6
Maximum:	3.1
Variance:	0.045
Std. Dev.:	0.213

Select method  
--- Please select ---

Select number of classes  
--- Please select ---


Select colour ramp  
Red monochromatic

Invert colour ramp

Apply  
Reset all



http://www.centropemap.org - Centrope STATISTICS - Mozilla Firefox



Planungsgemeinschaft OST

NUTS 3 Overview: Population density, dwellings, population by age groups

Statistics for persons\_per\_household

Minimum:	2
Mean:	2.629
Median:	2.6
Maximum:	3.1
Variance:	0.045
Std. Dev.:	0.213

Select method  
Quantiles

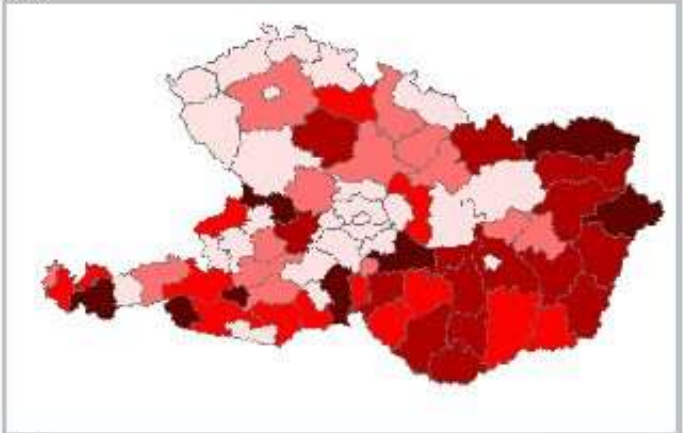
Select number of classes  
5

Select colour ramp  
Red monochromatic

Invert colour ramp

Apply  
Reset all

Create Map



Legend

- 1 - 2.6
- 2.6 - 2.7
- 2.7 - 2.8
- 2.8 - 3.1



→ On the fly Map Generation

# Contents

---

- The Centrope Region
- CentropeMAP
- CentropeSTATISTICS
- ▶ Perspectives

# Geodata Infrastructures are a Pan-European Matter

- **INSPIRE** – Infrastructure for Spatial Information in the European Community



The INSPIRE directive aims to create a European Union spatial data infrastructure. This will enable the sharing of environmental spatial information among public sector organisations and better facilitate public access to spatial information across Europe.

- User-generated content,  
**OPEN SOURCE DATA**  
(Open Street Map, ...)

# European Environment Agency

**European Environment Agency (EEA)**  
provides sound, independent  
information on the environment

European Environment Agency



Air pollution



Biodiversity



Climate change



Land use



Water

**cross-border &  
accessible**

<http://www.eea.europa.eu>



# Thank you for your attention!

Manfred Schrenk (schrenk@multimediaplan.at)

Clemens Beyer (beyer@multimediaplan.at)

Norbert Ströbinger (norbert.stroebinger@noel.gv.at)

[www.centropemap.org](http://www.centropemap.org)