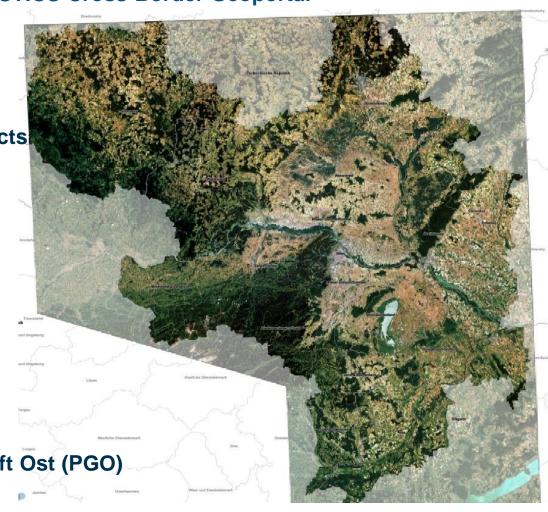
# Centrope MAPCentrobe STATISTICS Centrobe MAPCentrope STATISTICS

Interactive Visualisation of Statistical Data with the CentropeSTATISTICS Cross-Border Geoportal

Manfred Schrenk Clemens Beyer

CORP – Consulting, Research, Projects Vienna, Austria



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

# **CENTROPE** Partner Regions

### Czech Republic

Region: South Moravia

City: Brno

#### Slovak Republic

Region: Bratislava, Trnava

Cities: Bratislava, Trnava

#### Hungary

 Region (county): Györ-Moson-Sopron, Vas

Cities: Györ, Sopron



#### Austria

Region (federal states): Burgenland, Lower Austria, Vienna

Cities: Eisenstadt, St. Pölten, Vienna

Interested: Wiener Neustadt







# **Challenges**

# Centrope MAP Challenges

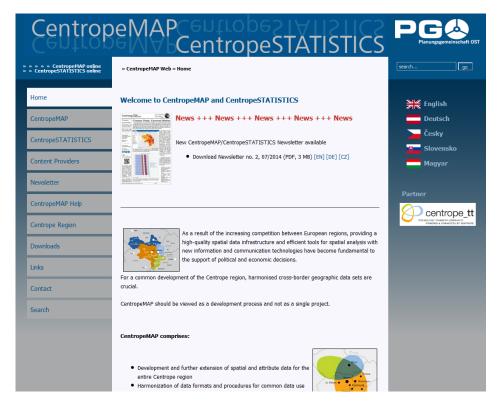
- Legal planning responsibilities on different levels
- Data responsibilities on different levels
- Administrative boundaries = data boundaries
- No "common data infrastructure" available, only "isolated applications"







#### **CentropeMAP Website**



#### multi-language website:

- German
- English
- Hungarian
- Czech
- Slovak

Centrope STATISTICS Newsletter Contents Census Data: Current Status CentropeSTATISTICS Preparation of the 2011 census data for public use is a complicated process; On the one hand attributes from the huge range of collected data have to be carefully selected Current status of cenfor publication because not all data can easily be published due to data protection restrictions. On the other hand, mandatory data delivery to Eurostat is mostly on a sus data processing in rough regional level of NUTS2 or NUTS1 which allows pan-European comparisons but no data interpretation within the far smaller Centrope region Interactive live onlin chart creation with From autumn 2014 the CentropeSTATISTICS results of the 2011 census will be available in all member states of the EU. Centro peSTATISTICS will profit CentropeMAP CentropeSTATISTICS from this fact because du to European regulation data Cross-Border from all member countries can be directly compared. Edition no. 02 This allows us to display at-July 2014 tributes like sex, age, fami ly, citizenship, education, employment, commuting and household data on mu-CentropeMAP CentropeSTATISTICS cross-border table and man Moreover, at the same time is a project Map: Population Density 2011 (inhabitants per square kilometre) also data about housing and in the Centrope Region. The agglomeration areas (Brno, Bratisladwellings were collected dwellings were collected va, Vienna, Danube axis) are clearly visible. including date of construc-PG😃 tion, number of principal residences or average area of dwelling units. ly working on a common set of data, the first parts are expected to be finished during the upcoming autumn. Some datasets are already available (see example images on charts and illustrations in this newsletter are Population total and by five-year age groups, toeither part of the web portal www.centropetal/female/male Population Indicator: map.org or were de-picted with courtesy of Migration Balance since the statistical offices Immigration, emigrati on, migration balance (absolute) ustria and Vienna. Population: Births and Deaths by year Chart: Absolute number of population in Eisenstadt (Burgenland) Population density (inof this newsletter is highly appreciated! and selected neighbouring municipalities. From 2001 to 2013 there habitants per square kiis a constant arowth. lometre) by year

Cross-Border Nº0

regular newsletter mailings (twice a year)

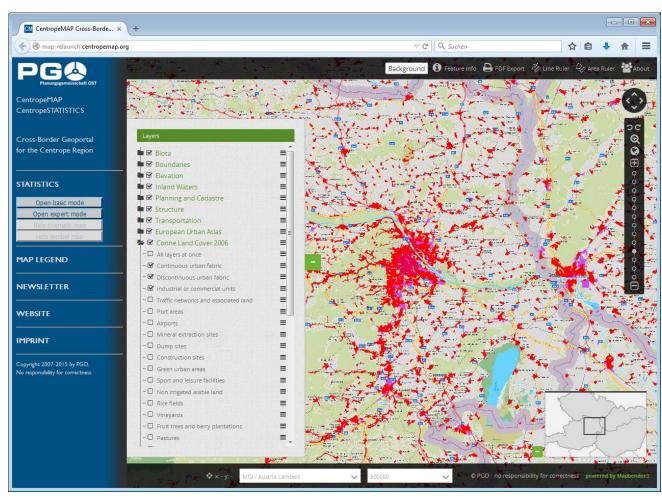






# **CentropeMAP Geoportal**

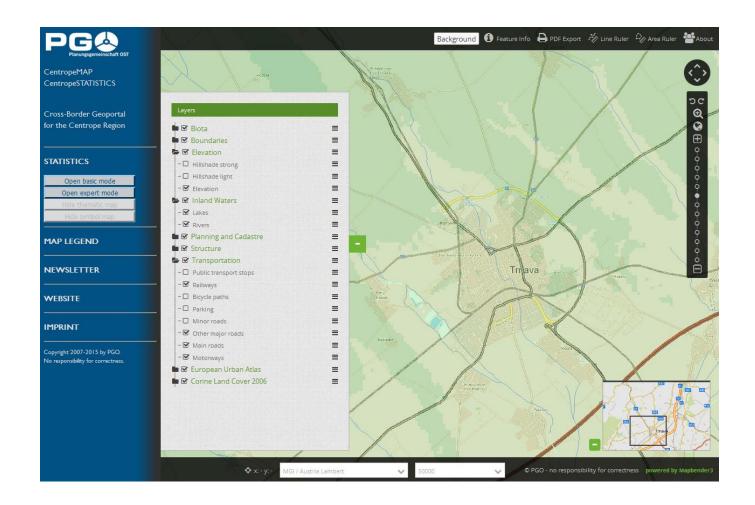
- datasets come directly from project partners
   → no redundancy, always up-to-date
- functions: Zoom, Pan, Query, Search, Measurement
- hundreds of layers for the whole region and sub-regions
- background maps from simplified views to high-resolution satellite images and aerial views (ortho-photos)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









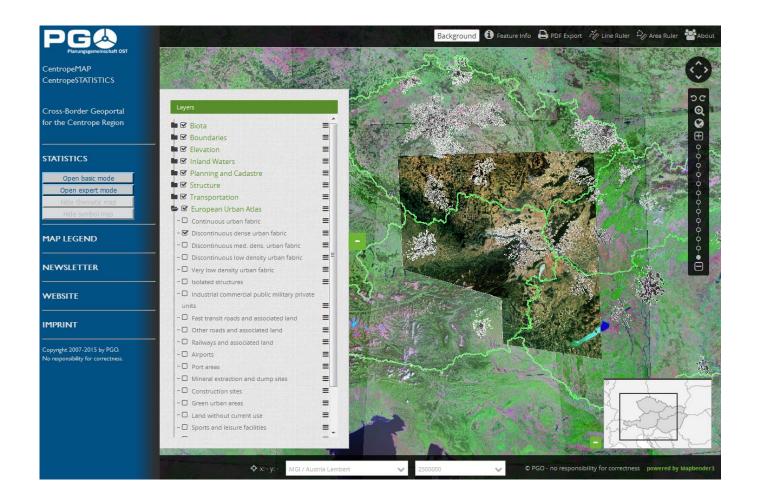


elevation, road network, railway network, urban fabric, inland waters







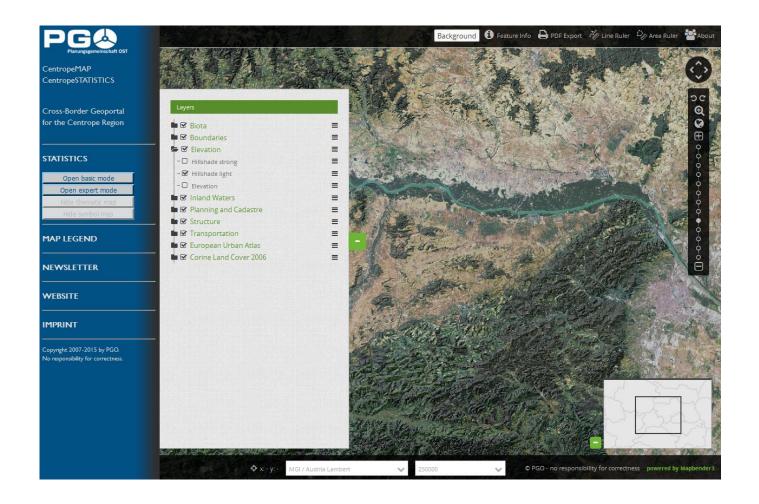


# satellite image







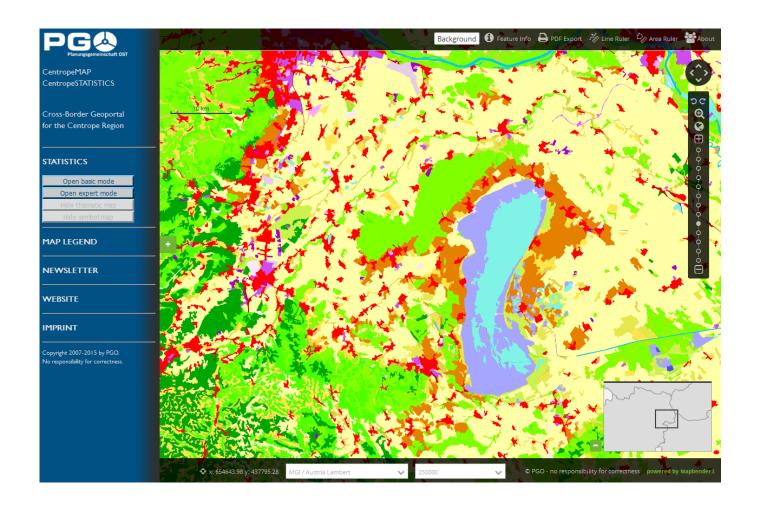


"3D view" by semi-transparent hillshade over satellite image







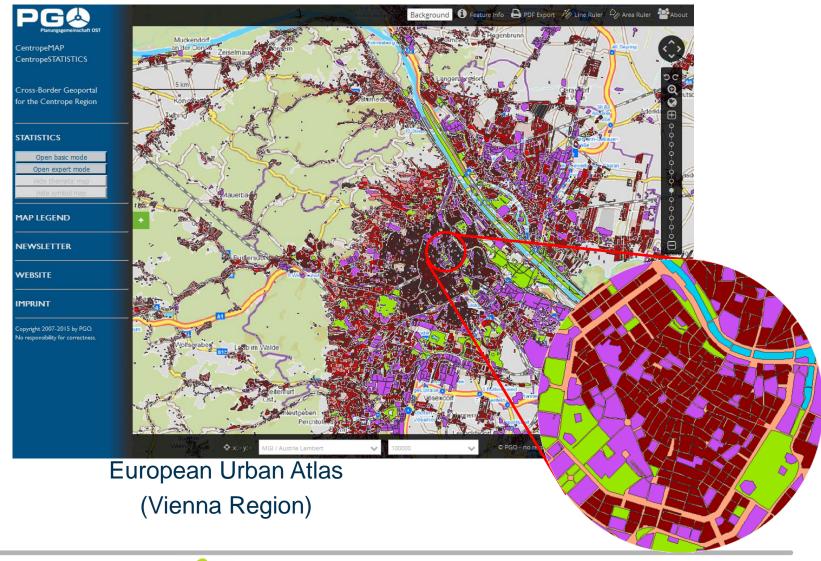


Corine Land Cover Level 2 (Lake Neusiedl area)















#### **CentropeSTATISTICS: 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 CORP – COnsulting Research Projects)

- 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:

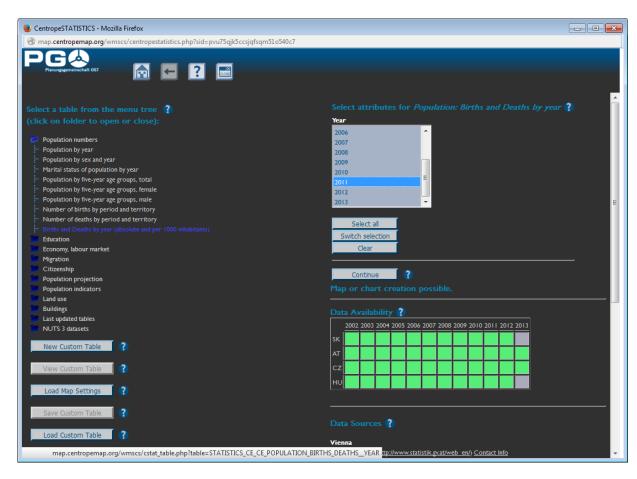
national meetings of Austrian statistician group and international workshops with partners from all countries (every year)







#### **CentropeSTATISTICS-Funktionen**



- Viele Daten in Zeitreihen verfügbar
- Karten- und
   Diagrammerzeugung
- benutzerdefinierte
   Steuerung von Inhalt und Layout
- Speicher- und Exportmöglichkeit
- Dynamische
   Datenbankabfragen

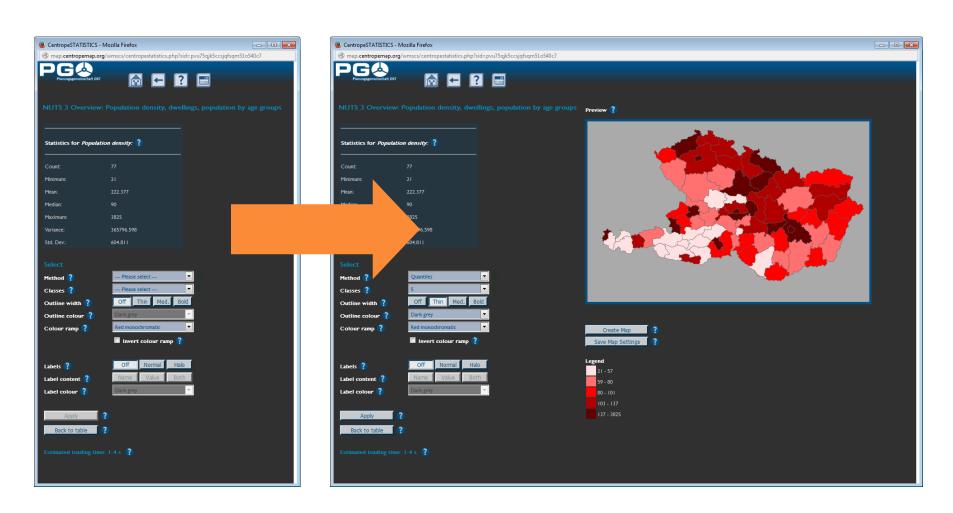
### → Kartenerzeugung on the fly







# **CentropeSTATISTICS-Benutzerschnittstelle**



# → Kartenerzeugung on the fly







# **CentropeSTATISTICS Data**

#### Annual population data

- Population by five-year age groups, total
- Population by five-year age groups, female
- · Population by five-year age groups, male
- Population Indicator: Migration Balance since 2002
- Immigration, emigration, migration balance (absolute)
- Population: Births and Deaths by year
- Number of births by period and territory
- · Number of deaths by period and territory
- · Population by year
- · Population Indicators (age groups)
- Population density (inhabitants per square kilometre) by year
- Population Indicators: Population Change by year





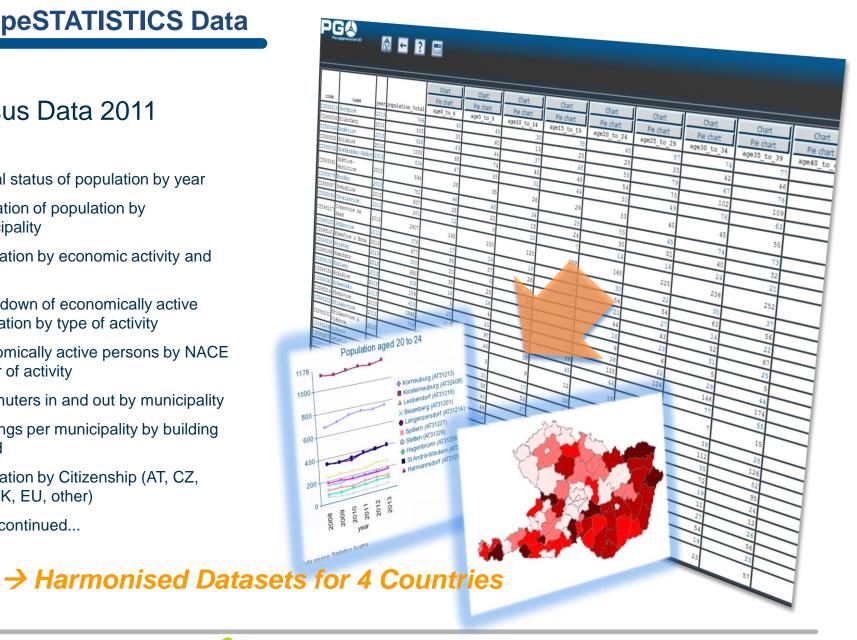




# **CentropeSTATISTICS Data**

#### Census Data 2011

- Marital status of population by year
- Education of population by municipality
- Population by economic activity and year
- Breakdown of economically active population by type of activity
- Economically active persons by NACE sector of activity
- Commuters in and out by municipality
- Buildings per municipality by building period
- Population by Citizenship (AT, CZ, HU, SK, EU, other)
- to be continued...

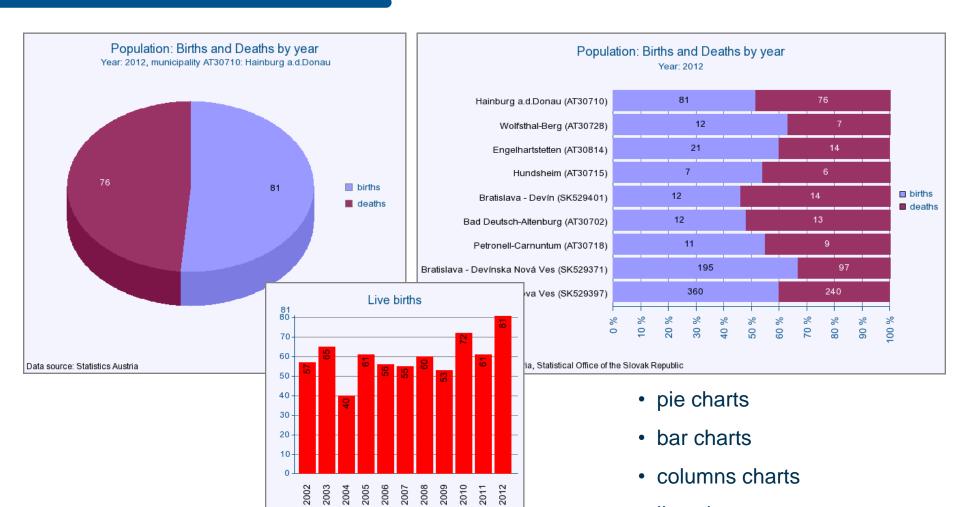








# **CentropeSTATISTICS Charts**



→ Live Chart Creation

Hainburg a.d.Donau (AT30710)

- line charts
- point charts





Data source: Statistics Austria



# Thank you for your attention!

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www.centropemap.org