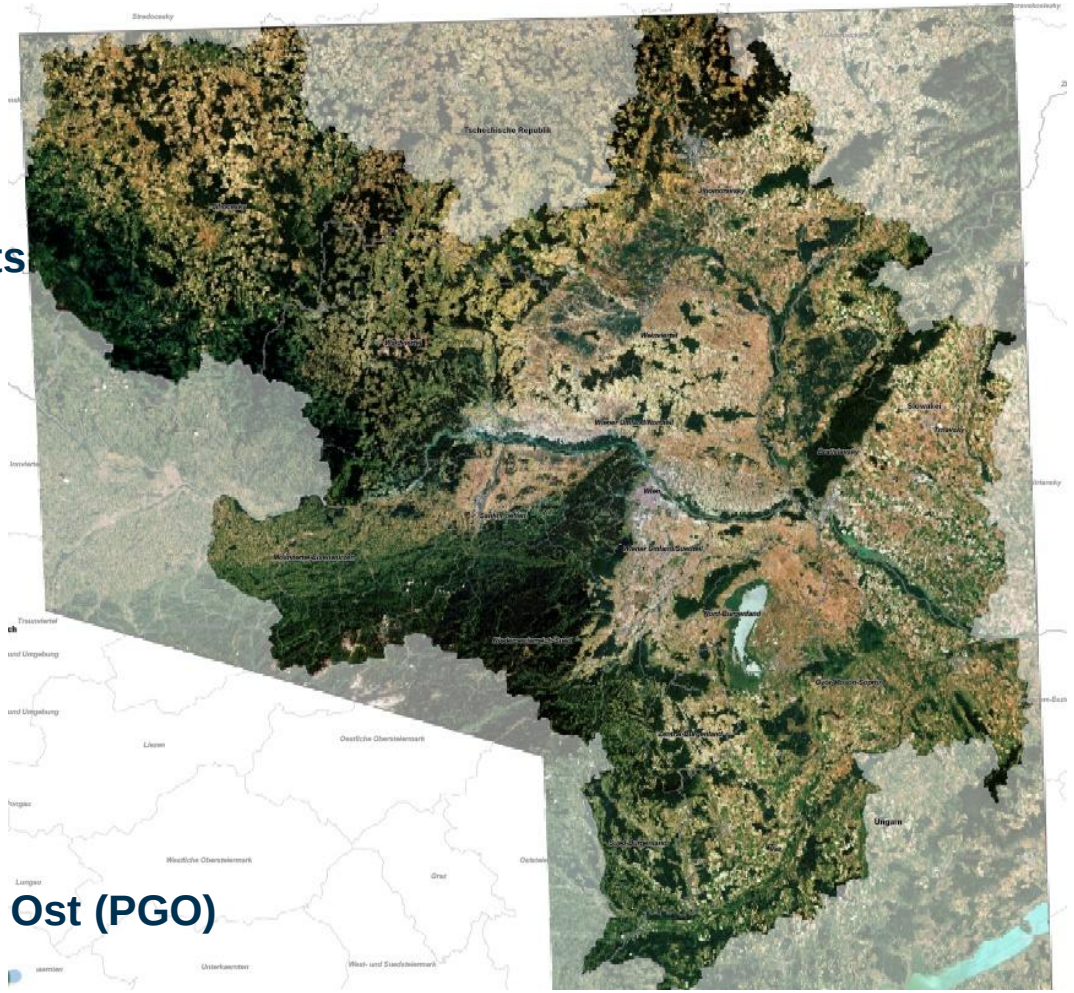
CentropeMAP CentropeSTATISTICS

CentropeMAP – Working with Cross-Border Statistical Data

Manfred Schrenk
Clemens Beyer

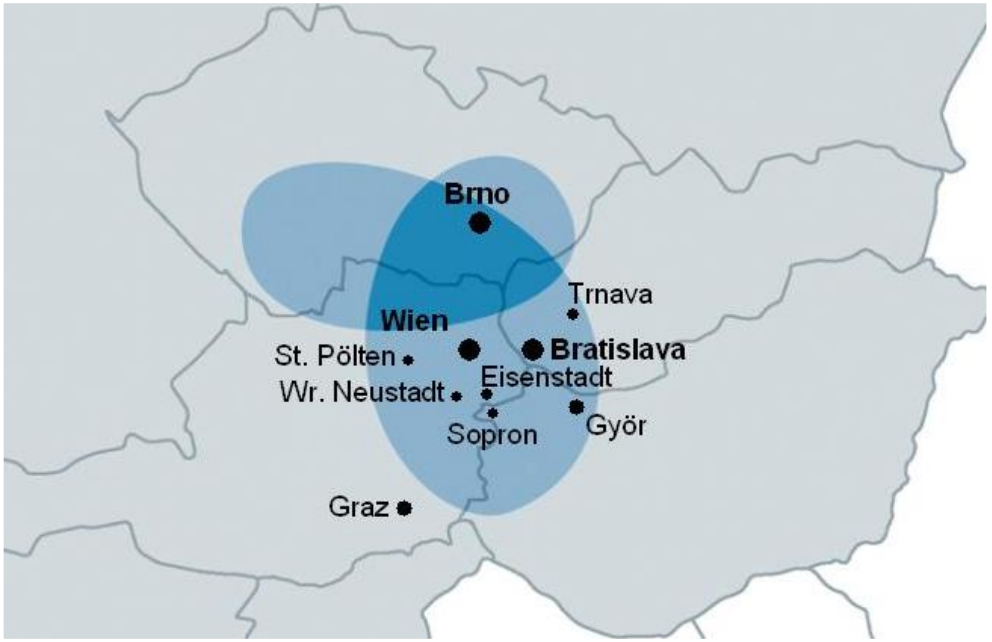
CORP – Consulting, Research, Projects
Vienna, Austria



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

CENTROPE Partner Regions

- Czech Republic
  - Region: South Moravia, South Bohemia, Vysočina
  - Cities: Brno, České Budějovice
- 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



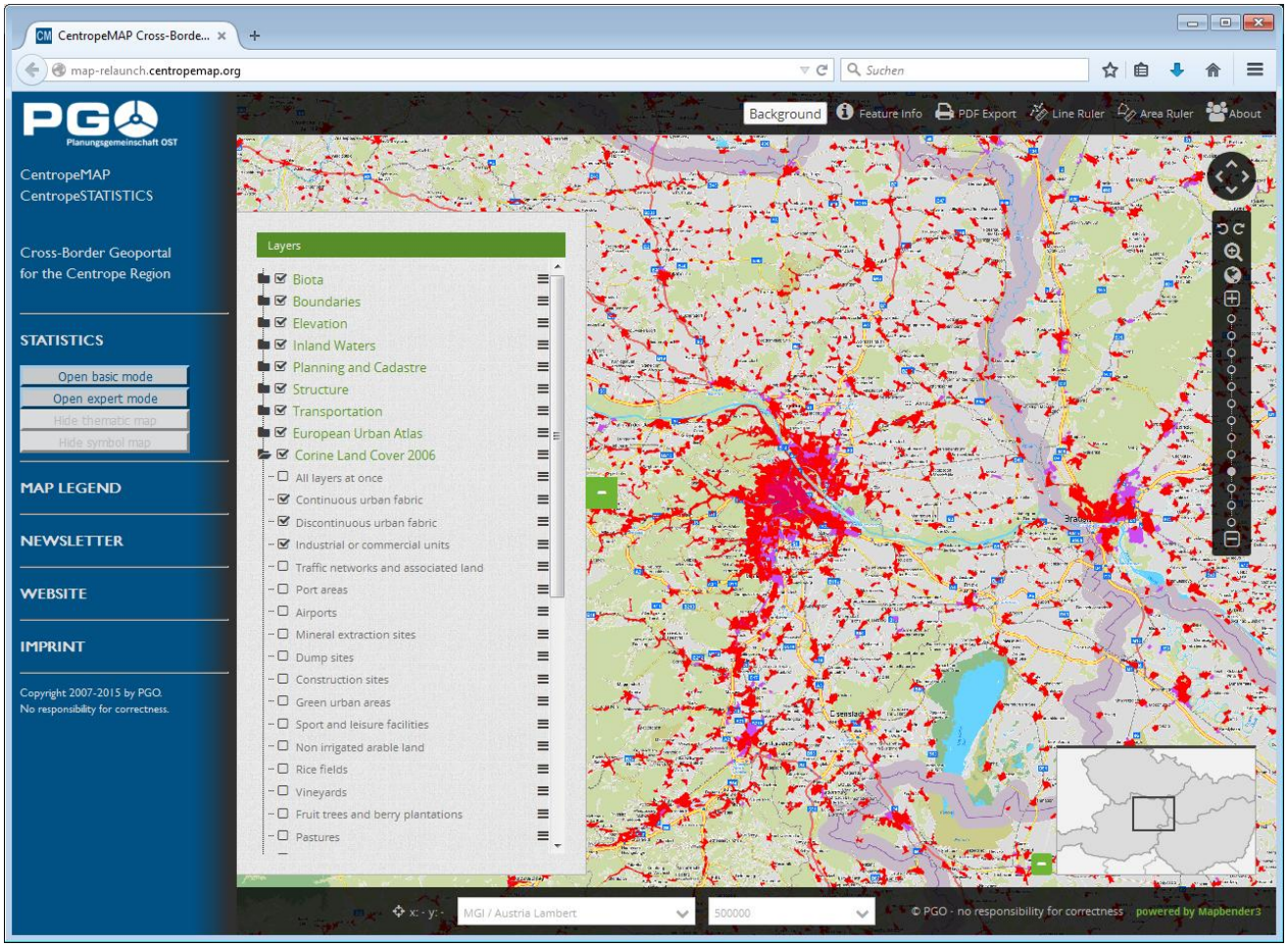
Challenges

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
- INSPIRE: harmonised datasets all over Europe planned,
  but not available yet, process currently stagnating: no
  sanctions foreseen …

CentropeMAP Geoportal

- datasets come directly from partner regions and EU data providers
  → no redundancy, always up-to-date
- 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



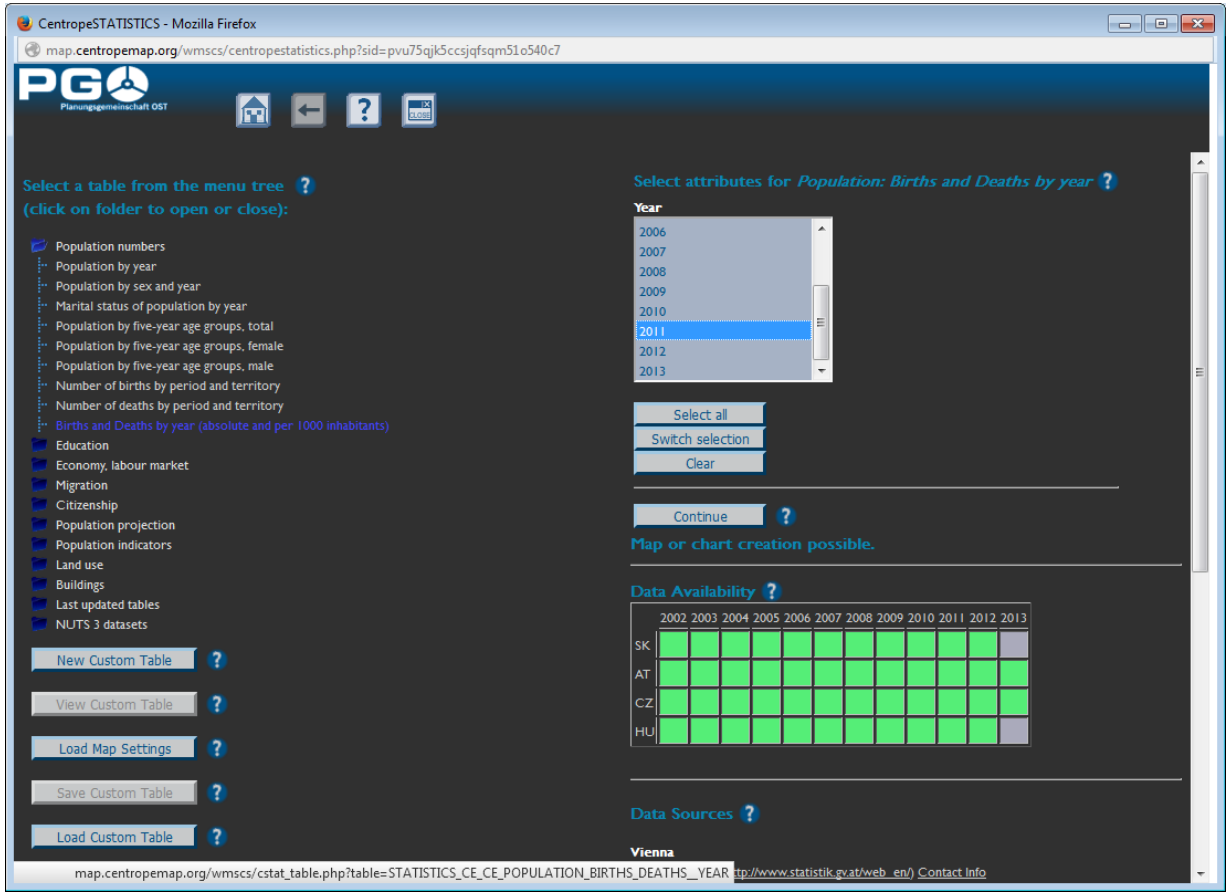
CentropeSTATISTICS: Project Partners

CentropeSTATISTICS is a cross-border database project of these co-operating statistics offices/departments in the Centrope Region
(on behalf of PGO – Planungsgemeinschaft Ost/East 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)

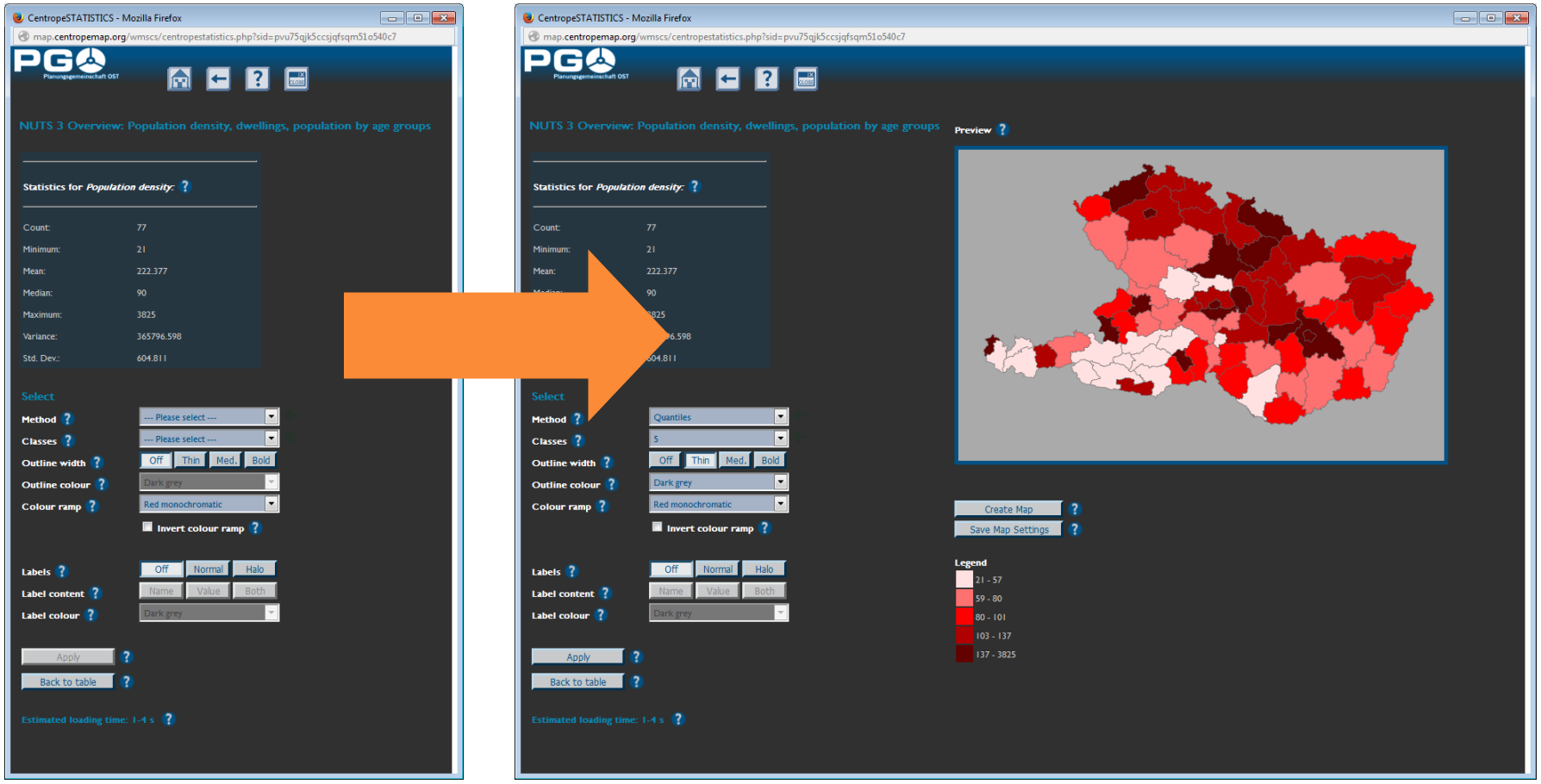
CentropeSTATISTICS Functions



- many datasets available in annual time series
- map and chart creation
- user-defined contents and layout
- save and export functions
- dynamic database queries

→ *map generation on the fly*

CentropeSTATISTICS User Interface

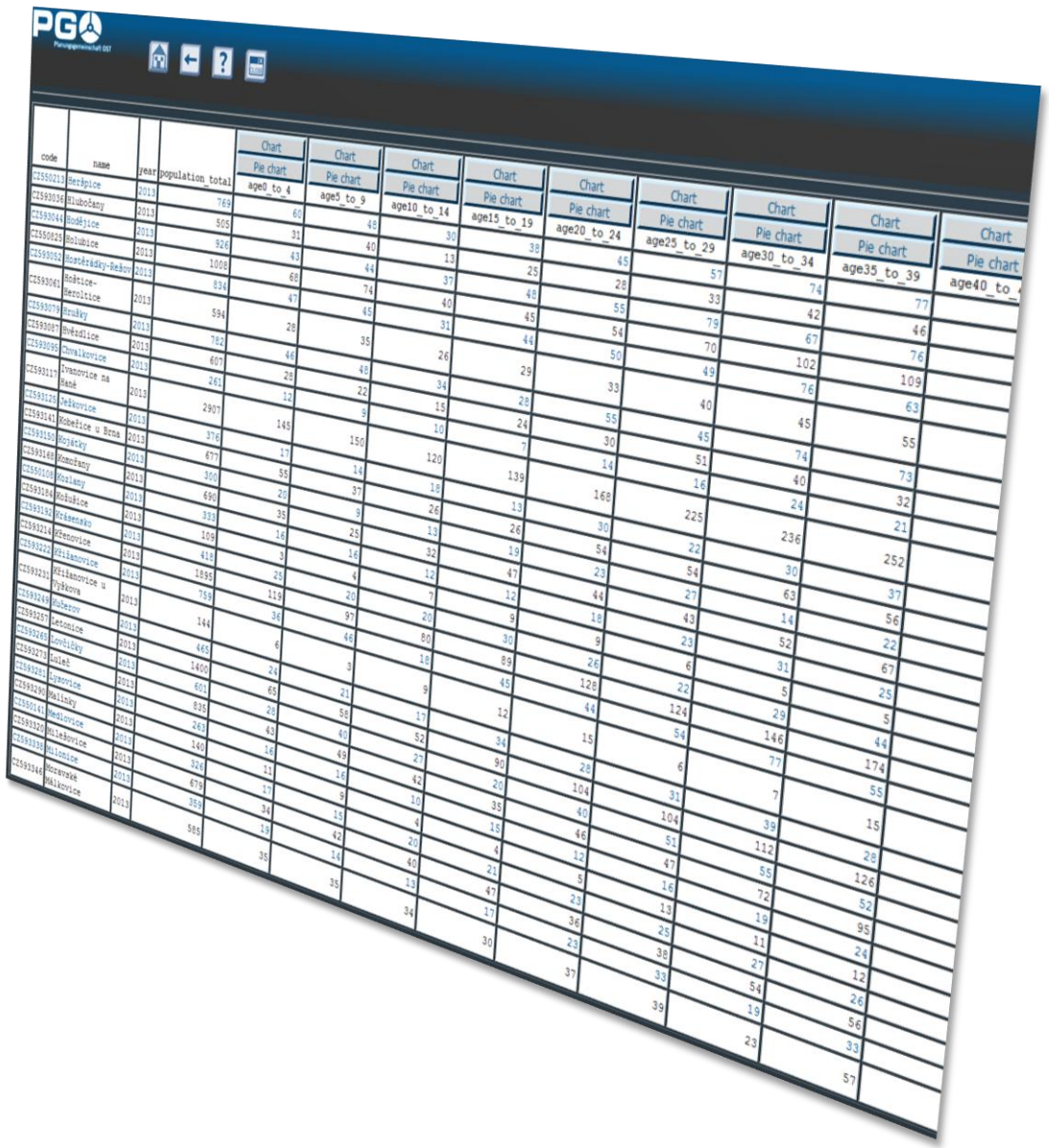


→ *map generation on the fly*

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
- 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



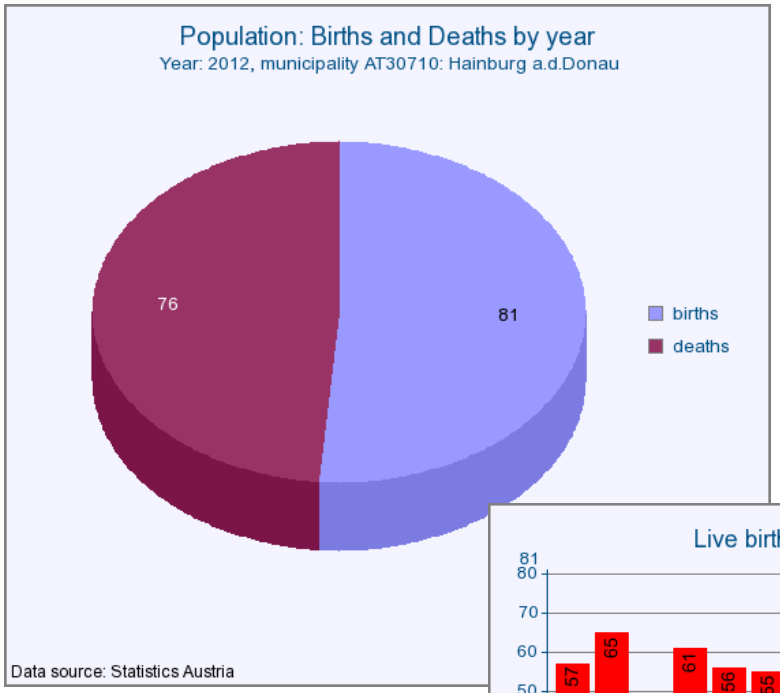
CentropeSTATISTICS Data

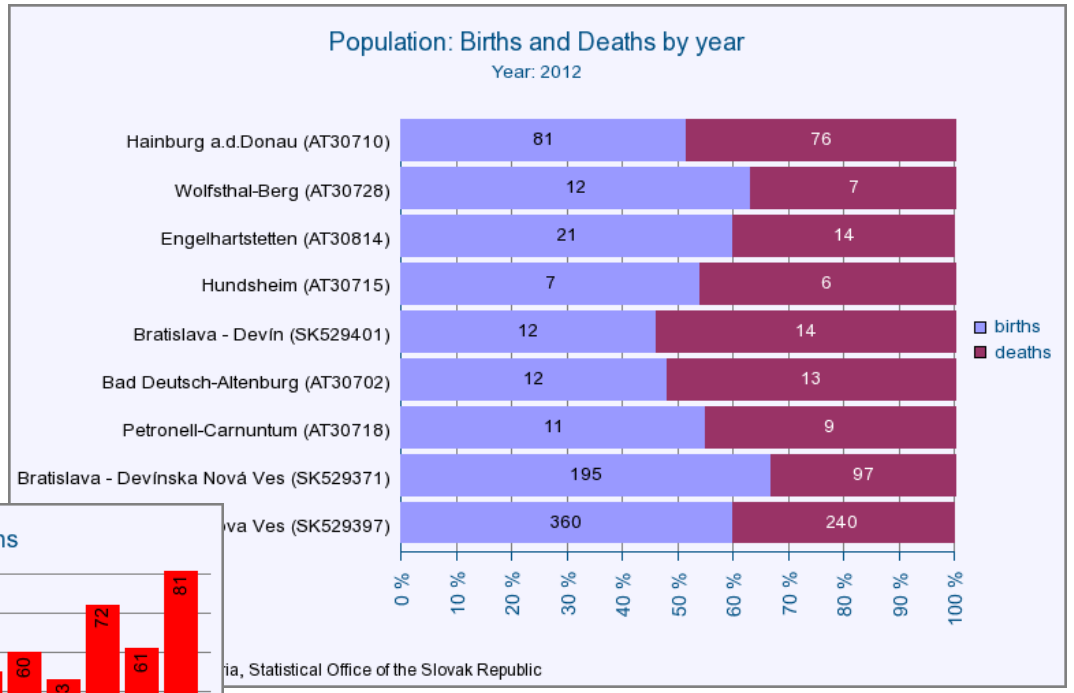
Census Data 2011

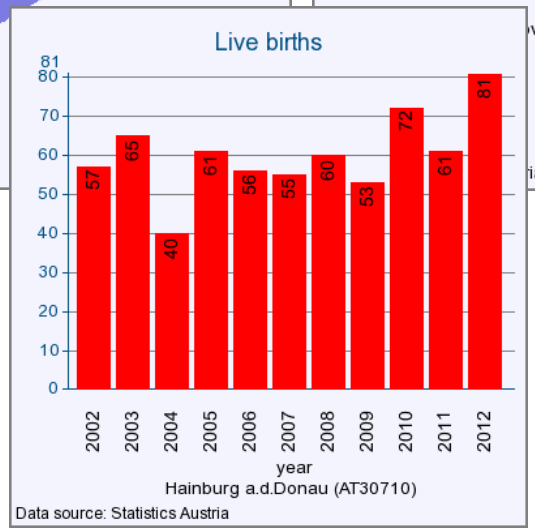
- Marital status of population by year
- Education of population by municipality
- Population by economic activity and year
- Breakdown of economically active population by type of activity
- Economically active persons by NACE sector of activity
- Commuters in and out by municipality
- Buildings per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

→ *Harmonised Datasets for 4 Countries*

CentropeSTATISTICS Charts







→ *Live Chart Creation*

- pie charts
- bar charts
- columns charts
- line charts
- point charts

CentropeSTATISTICS Municipality Comparison

- Similar tools available on national statistics websites
- many indicators, buit different search engines, different layout, different data definitions → not comparable
- CentropeSTATISTICS data are comparable across the borders
- Selected indicators available for comparison tool
- Regions can be defined by the user
- Output on screen, as Excel file or as PDF
- New: print-ready predefined maps “Centrope in Figures”

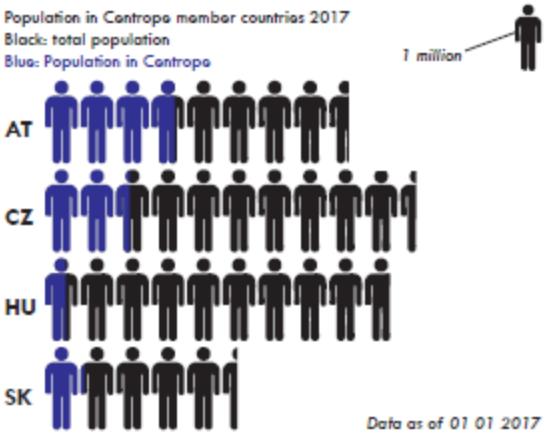
The Centrope region at a glance

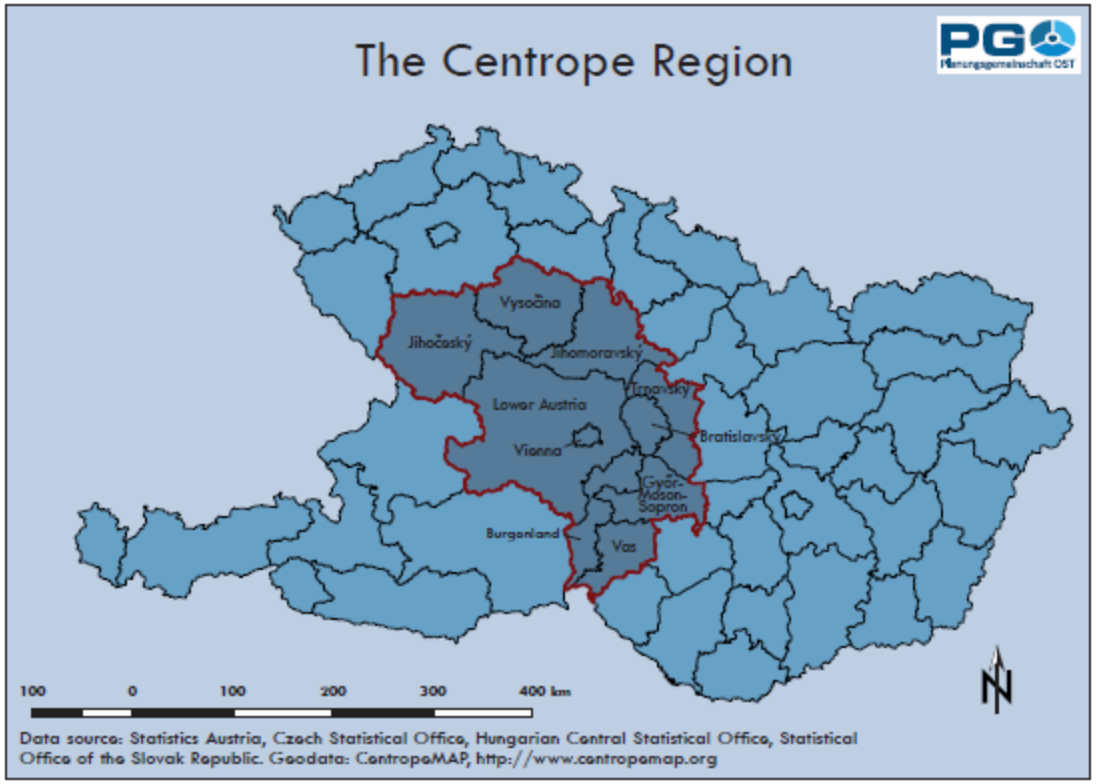
CentropeMAP/STATISTICS is a cross-border information system and free geoportal of the Austrian Planning Association East (PGO) which gives planners and decision makers a better overview of the Centrope region. The Centrope region consists of adjacent counties and states along the borders between Austria, the Czech Republic, Hungary, and the Slovak Republic. This publication aims to present selected data from CentropeSTATISTICS to show the development of this cross-border region in the last 10–15 years. More info and data can be found at our website www.centropemap.org.

The location of the CENTROPE region, at the intersection of four countries, is unique in Europe. The two EU capital cities of Bratislava and Vienna, whose agglomerations are separated by a mere 50 kilometres, the cities of Brno and Győr, as regionally significant urban centres, as well as numerous other eminent and attractive cities, are the powerhouses of an economically and culturally expanding European region.

Country	Area (km²)	Inhabitants 2017	Centrope parts of the country	Municipalities	Area in Centrope region (km²)	Area in Centrope region (%)	Inhabitants in Centrope (absolute)	Inhabitants in Centrope (%)
Austria	83 880	8 772 865	3 federal states Vienna, Lower Austria, Burgenland	767	23 562	38	3 825 277	47
Czech Republic	79 000	10 578 820	3 regions South Bohemia, South Moravia, Vysocina	2 001	24.099	39	2 326 546	29
Hungary	92 990	9 797 561	2 counties Gyor-Moson-Sopron, Vas	399	7 713	13	710 453	9
Slovak Republic	49 033	5 435 343	2 regions Bratislava, Trnava	340	6 216	10	1 203 048	15
*Centrope**			*10 subregions of 4 countries*	*3 507*	*61 590*	*100.0*	*8 065 324*	*100.00*

* Centrope as seen by CentropeMAP and CentropeSTATISTICS



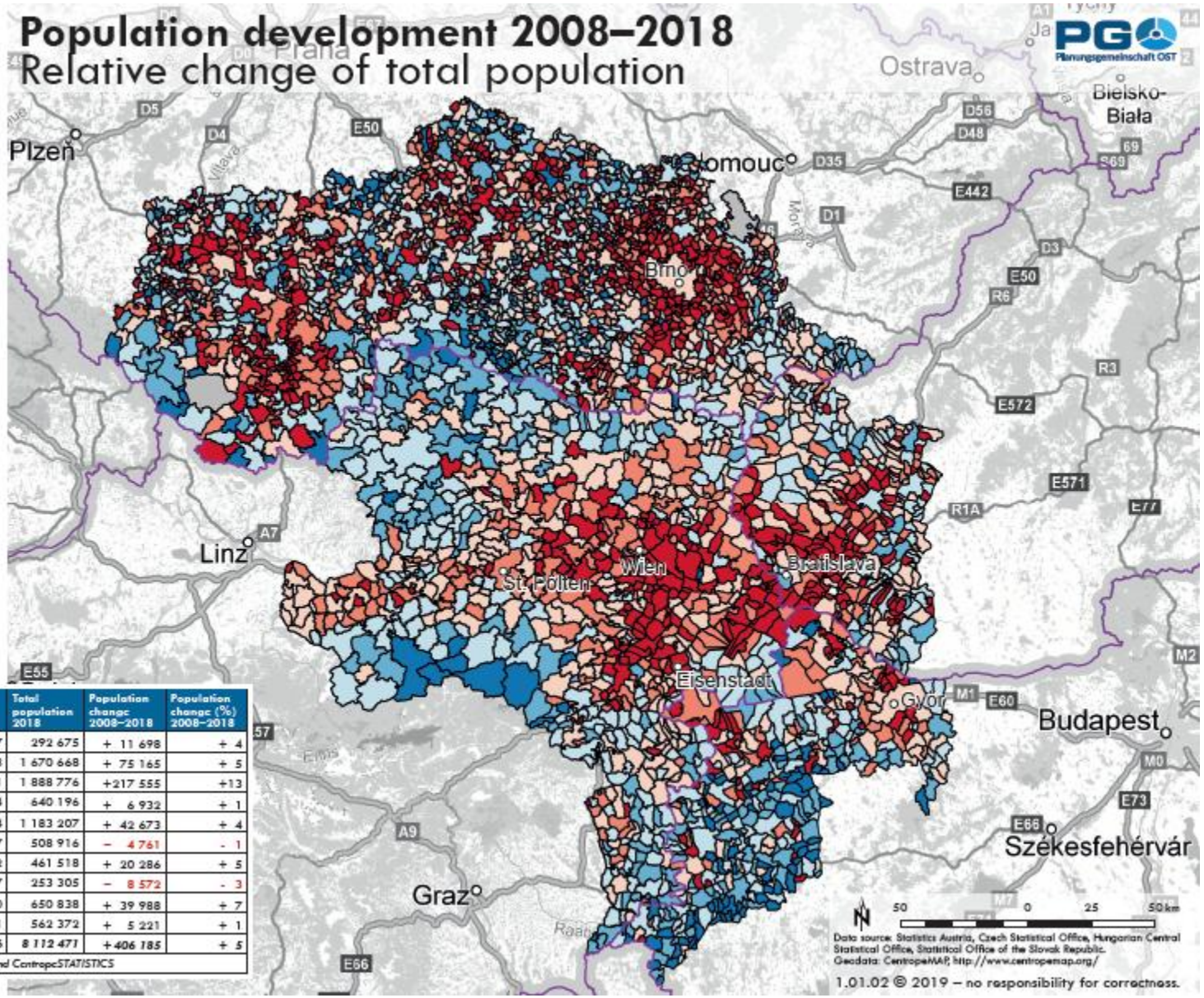


Data source: Statistics Austria, Czech Statistical Office, Hungarian Central Statistical Office, Statistical Office of the Slovak Republic. Geodata: CentropeMAP, http://www.centropemap.org

0.01.01 © 2018 – no responsibility for correctness.

Population development 2008–2018
Relative change of total population

The overall population in the Centrope region is steadily growing; from 2008 to 2018 there was an increase of 5.3 % so that Centrope's population stays over the 8 million mark. However, population growth is mainly restricted to the agglomerations around the region's biggest cities Vienna, Bratislava, České Budějovice, Jihlava, and Brno. In peripheral municipalities of Centrope there is a – here and there remarkable – loss of population. The most dynamic spot is the twin city Vienna/Bratislava region which is growing together across the borders as can be seen in the map.



County	Total population 2008	Total population 2018	Population change 2008–2018	Population change (%) 2008–2018
Burgenland	280 977	292 675	+ 11 698	+ 4
Lower Austria	1 595 503	1 670 668	+ 75 165	+ 5
Vienna	1 671 221	1 888 776	+217 555	+13
Jihočeský	633 264	640 196	+ 6 932	+ 1
Jihomoravský	1 140 534	1 183 207	+ 42 673	+ 4
Vysočina	513 677	508 916	– 4 761	- 1
Győr-Moson-Sopron	441 232	461 518	+ 20 286	+ 5
Vas	261 877	253 305	– 8 572	- 3
Bratislavský	610 850	650 838	+ 39 988	+ 7
Trnavský	557 151	562 372	+ 5 221	+ 1
Centrope*	*7 706 286*	*8 112 471*	*+406 185*	*+ 5*

* Centrope as seen by CentropeMAP and CentropeSTATISTICS

Thank you for your attention!

Manfred Schrenk (schrenk@corp.at)
Clemens Beyer (beyer@corp.at)

www.centropemap.org