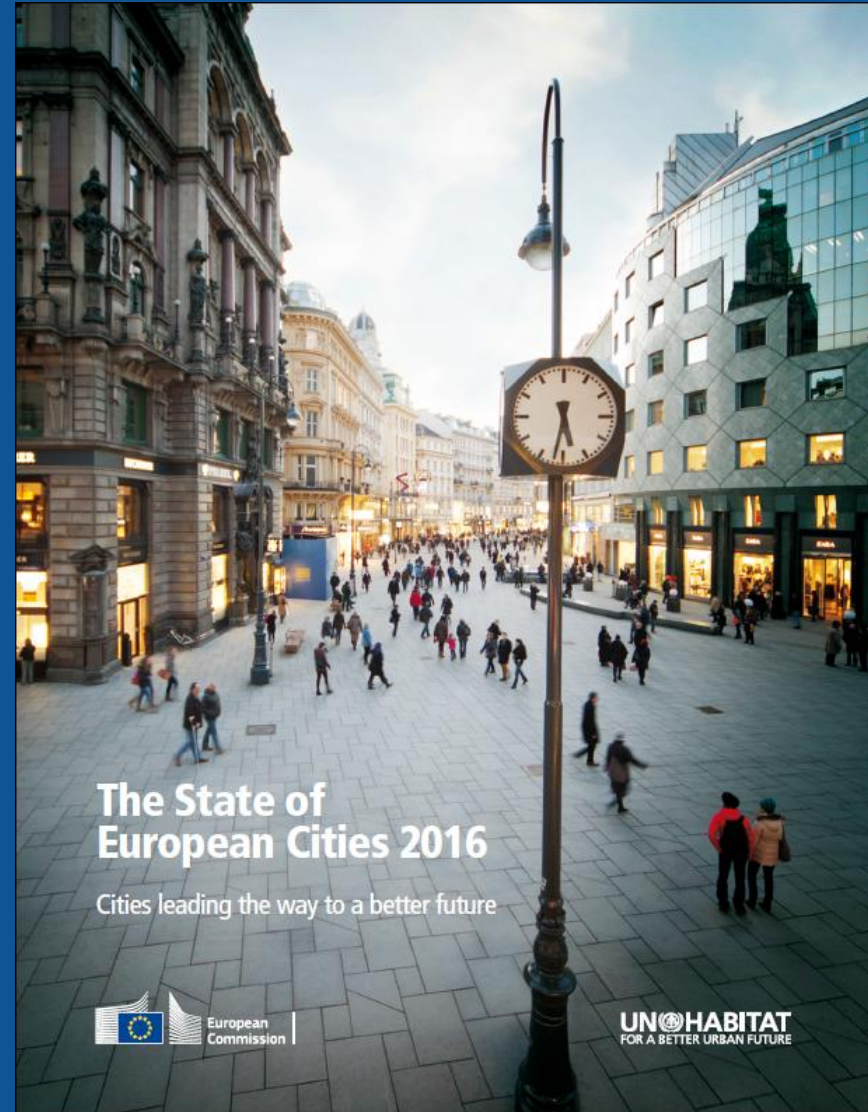




Cities leading the way to a better future

State of European Cities Report, 2016

By Lewis Dijkstra
Deputy Head of Unit
Economic Analysis Unit,
DG Regional and Urban Policy
European Commission

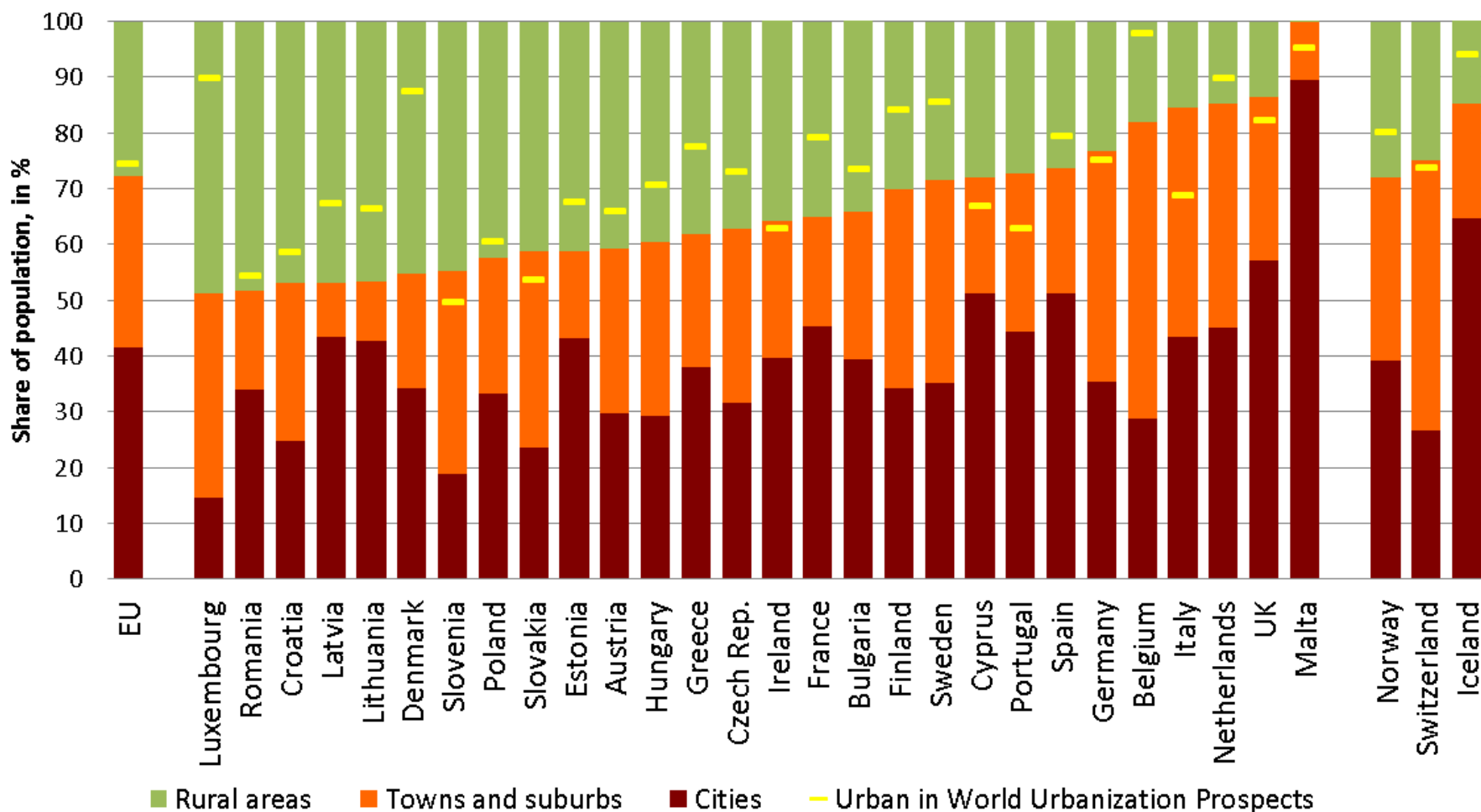


UN-HABITAT
FOR A BETTER URBAN FUTURE

Goals of the report

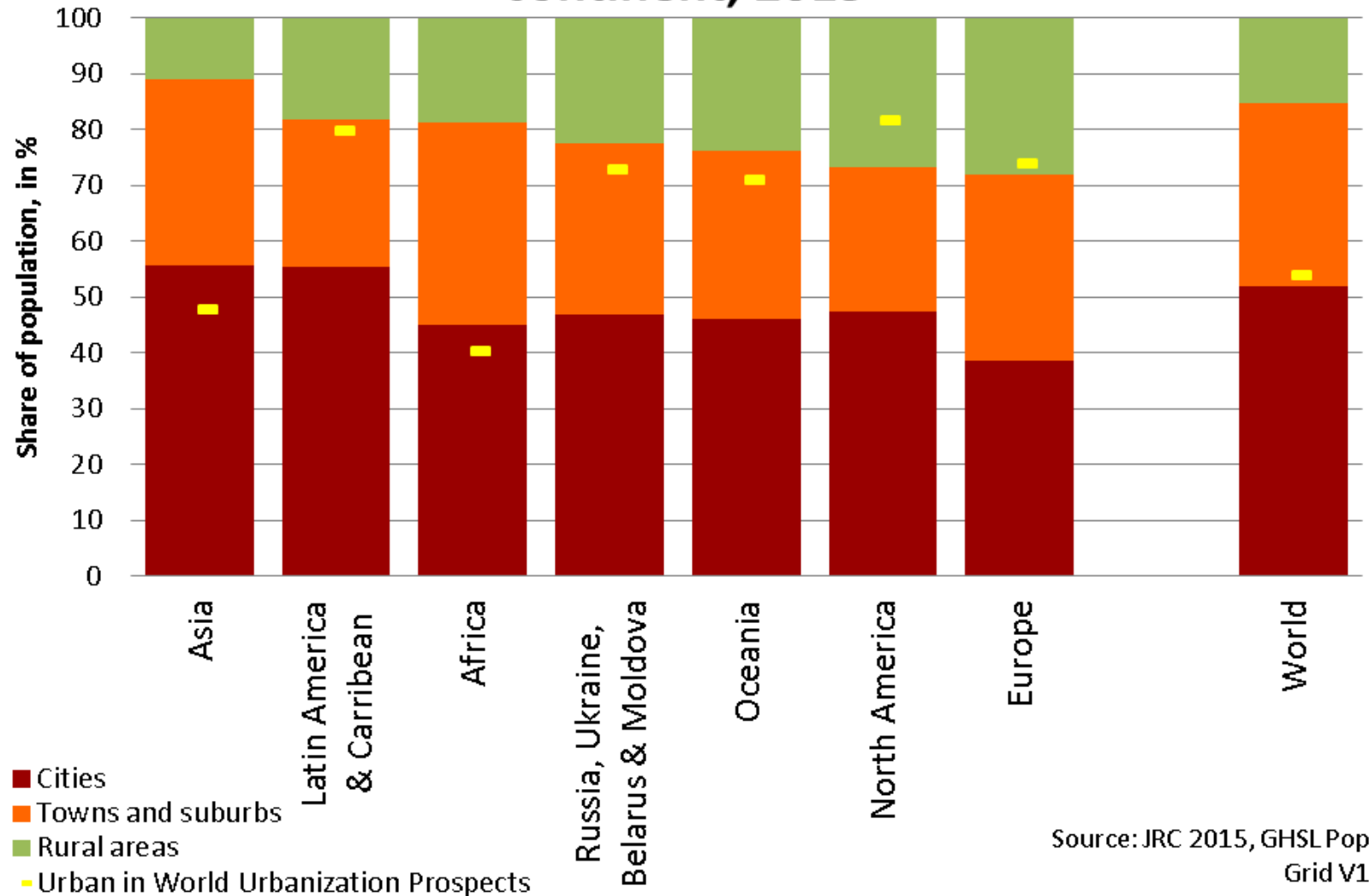
- *Help Urban Agenda for the EU (Better knowledge and data) and its partnerships (air quality, housing, migration, poverty,.....)*
- *Support the New Global Urban Agenda*
- *Make it easier for mayors to compare their city and learn from each other (both within Europe and globally)*

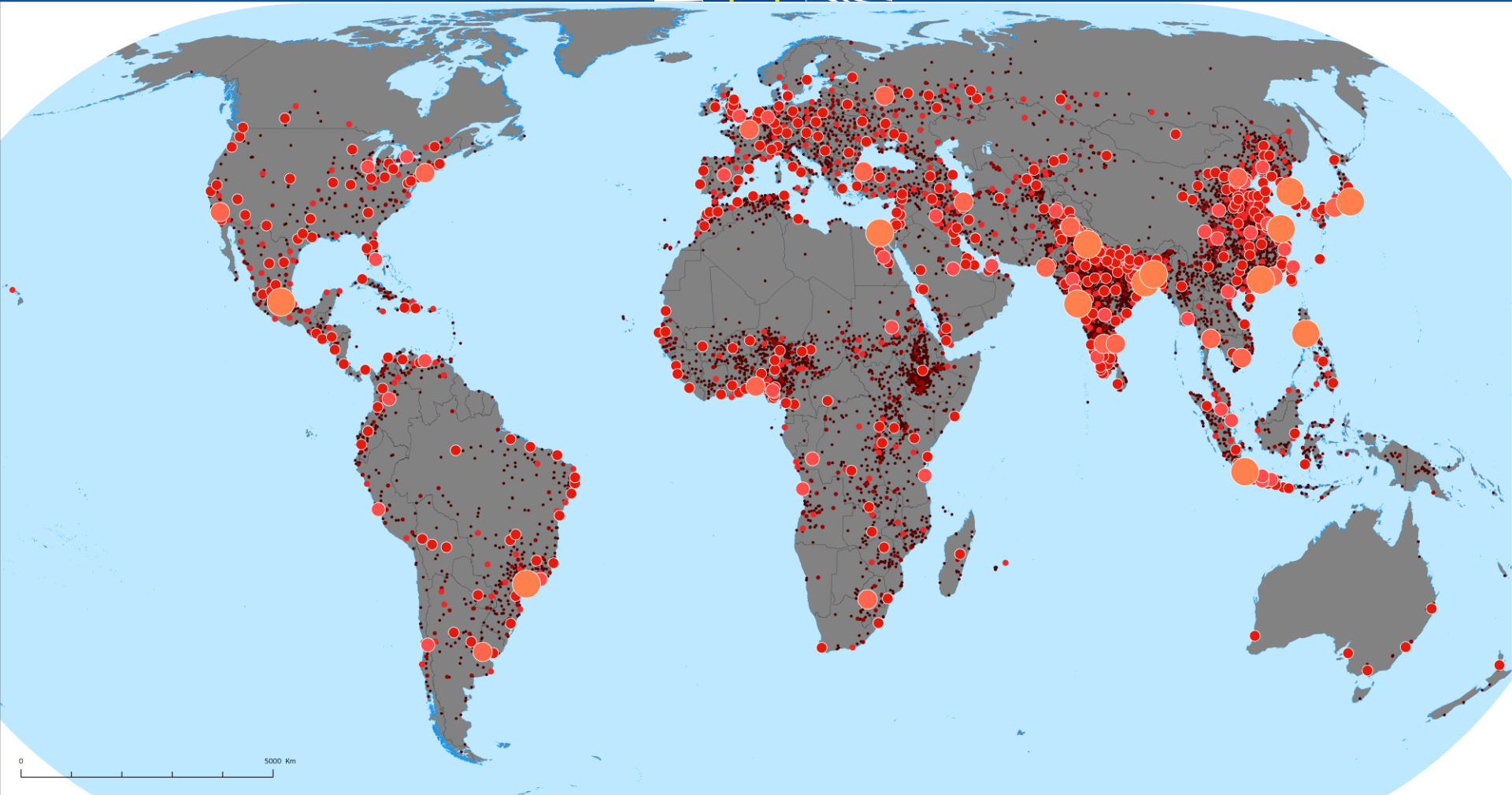
Population by degree of urbanisation in Europe, 2014





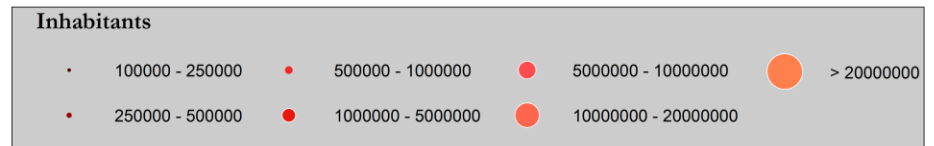
Population by degree of urbanisation per continent, 2015





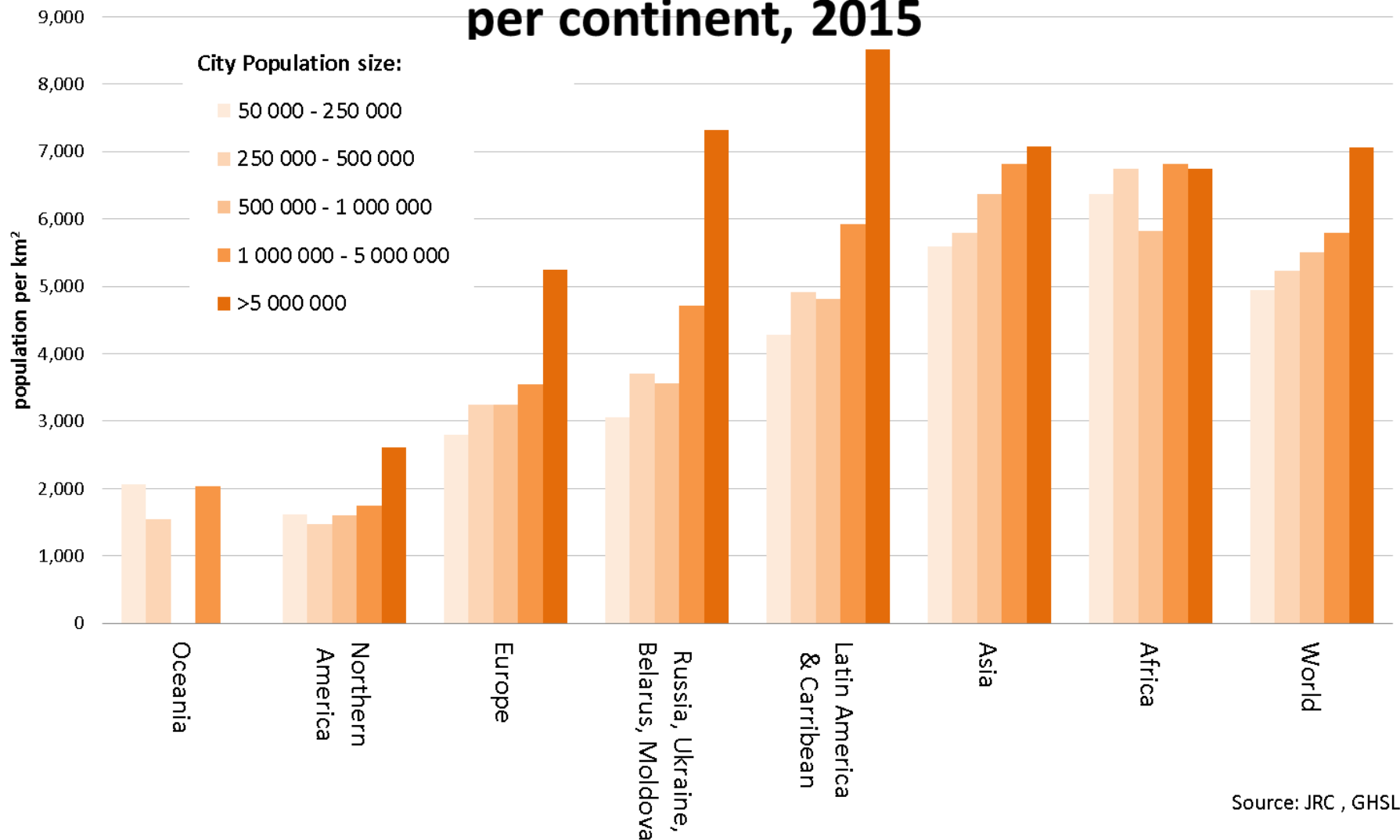
Urban Centres in the world by population size, 2015

Source : JRC (GHS - POP Global Settlement Model)





Median population density by city size class per continent, 2015

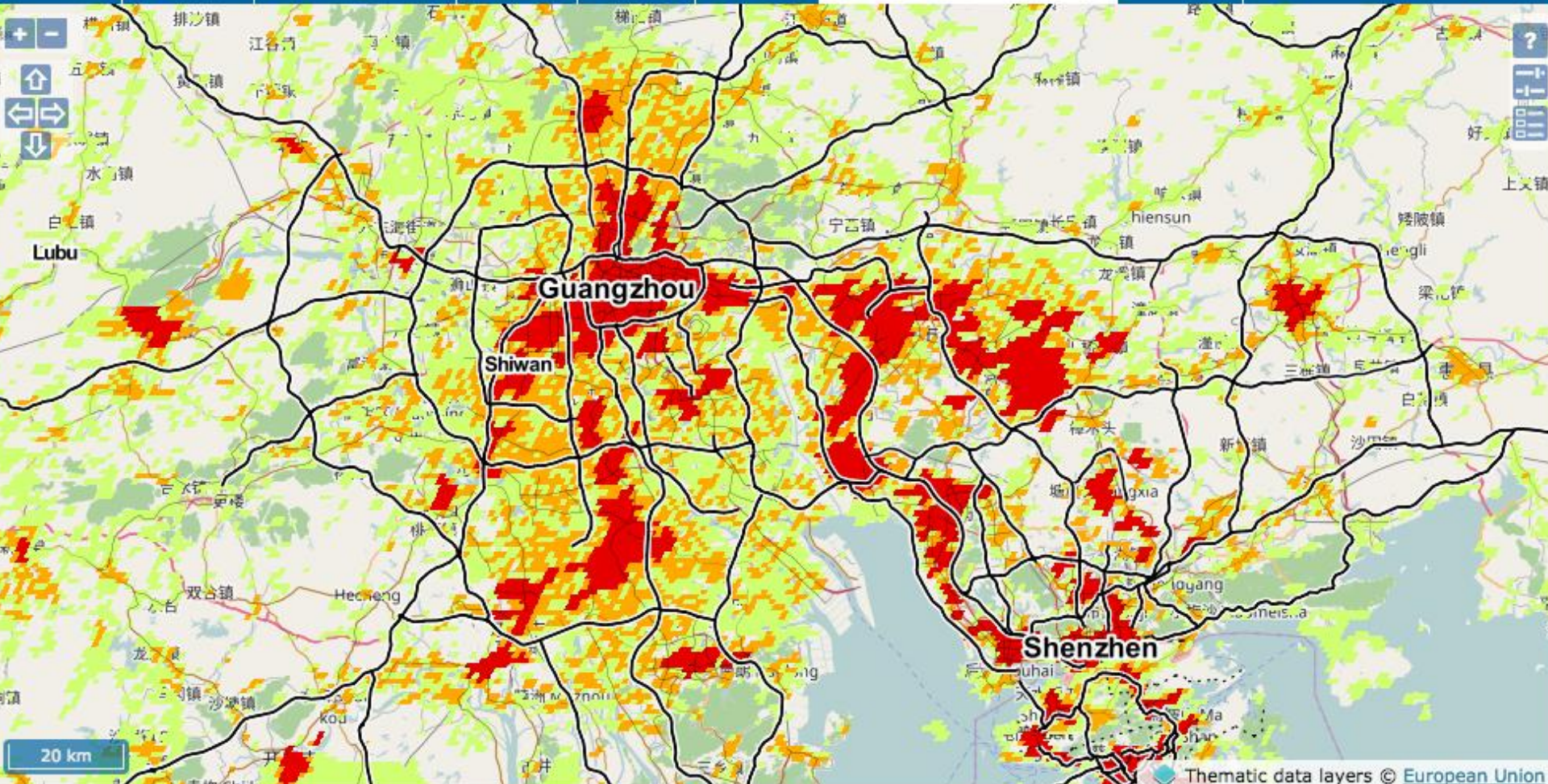


EU-OECD-WB voluntary commitment

- *Was announced at Habitat III*
- *Goal to develop a global, people-based definition of cities and settlements*
- *Methodology to be tested is the degree of urbanisation, which includes the city definition used in the EU-OECD functional urban area definition.*

These Urban SDG indicators are very sensitive to the city boundaries

- 11.2.1 Proportion of population that has convenient access to public transport
- 11.3.1 Ratio of land consumption rate to population growth rate
- 11.6.2 Annual mean levels of fine particulate matter (e.g. PM2.5 and PM10) in cities
- 11.7.1 Average share of the built-up area of cities that is open space for public use for all



Create a link to share this map:

[Permalink](#)

Layers selected:

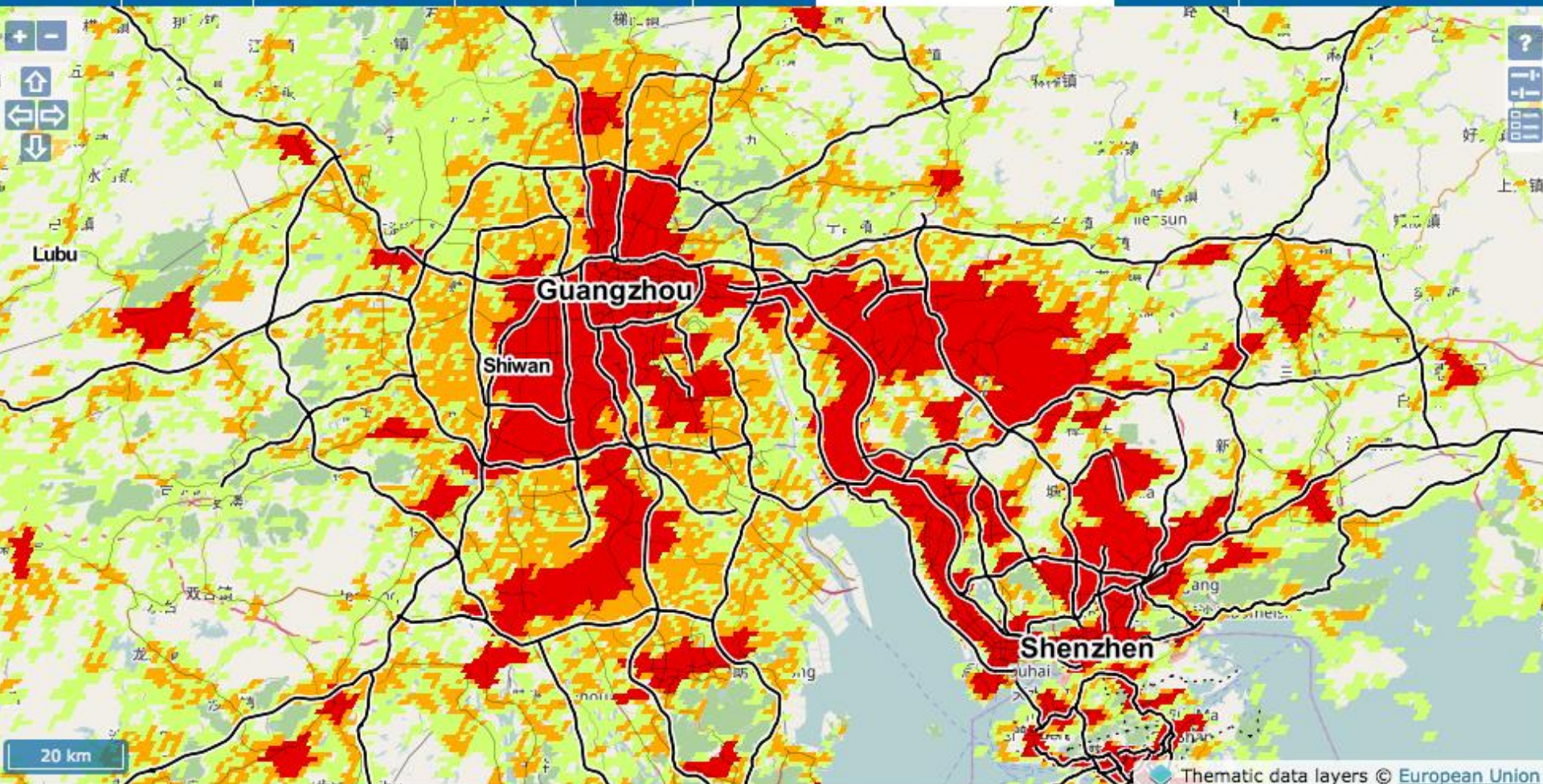
Built-up (resolution: 38m): none

Population (resolution: 250m): none

Settlement Model (resolution: 1km): SMod 1975

Base: QSM Place names

1975



Create a link to share this map:

[Permalink](#)

Layers selected:

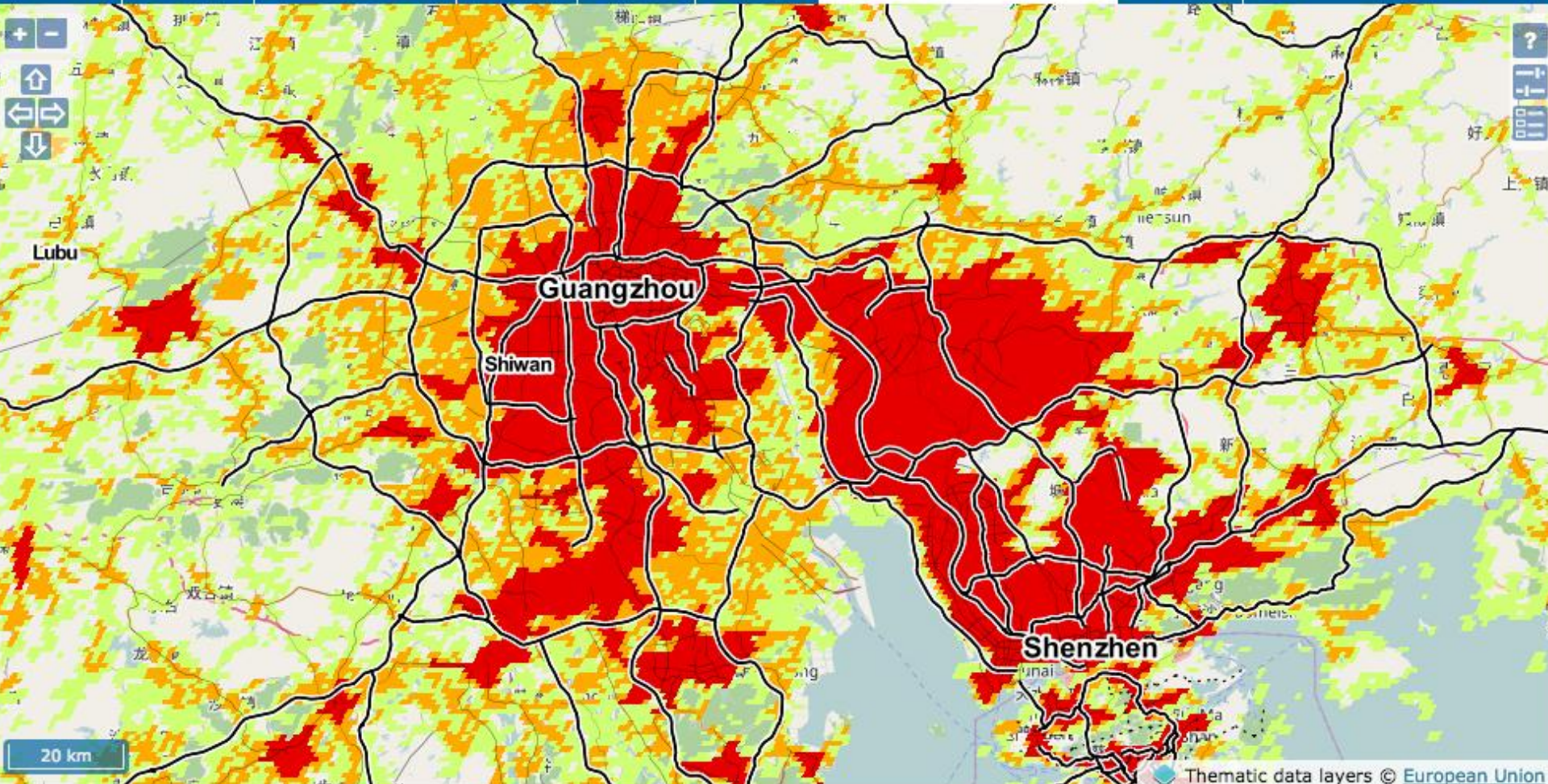
Built-up (resolution: 38m): none

Population (resolution: 250m): none

Settlement Model (resolution: 1km): SMod 1990

Base: OSM, Place names

1990



Create a link to share this map:

[Permalink](#)

Layers selected:

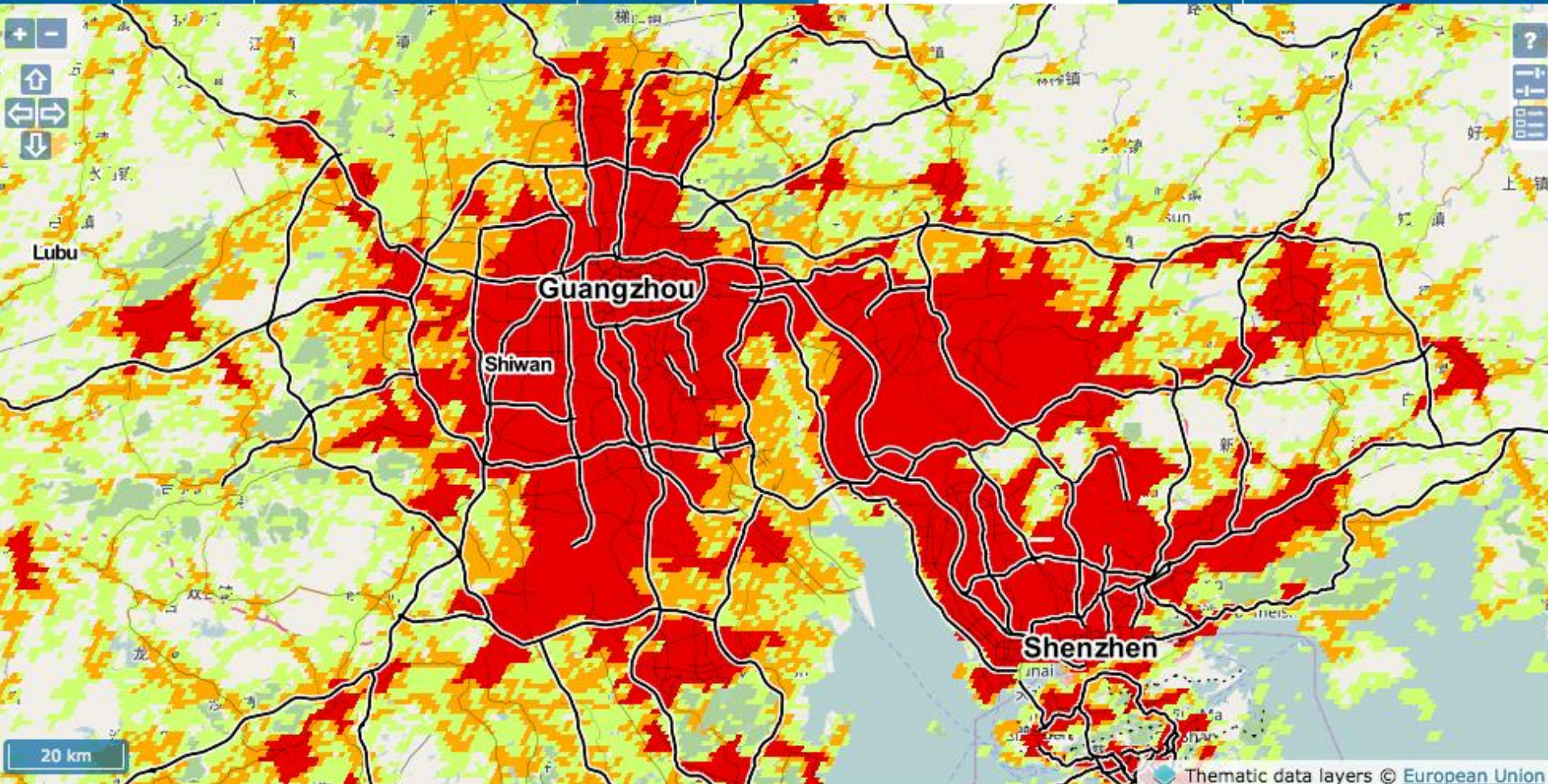
Built-up (resolution: 38m): none

Population (resolution: 250m): none

Settlement Model (resolution: 1km): SMod 2000

Base: OSM Place names

2000



Create a link to share this map: [Permalink](#)

Layers selected:
Built-up (resolution: 38m): none
Population (resolution: 250m): none
Settlement Model (resolution: 1km): SMod 2015
Base: OSM, Place names

2015

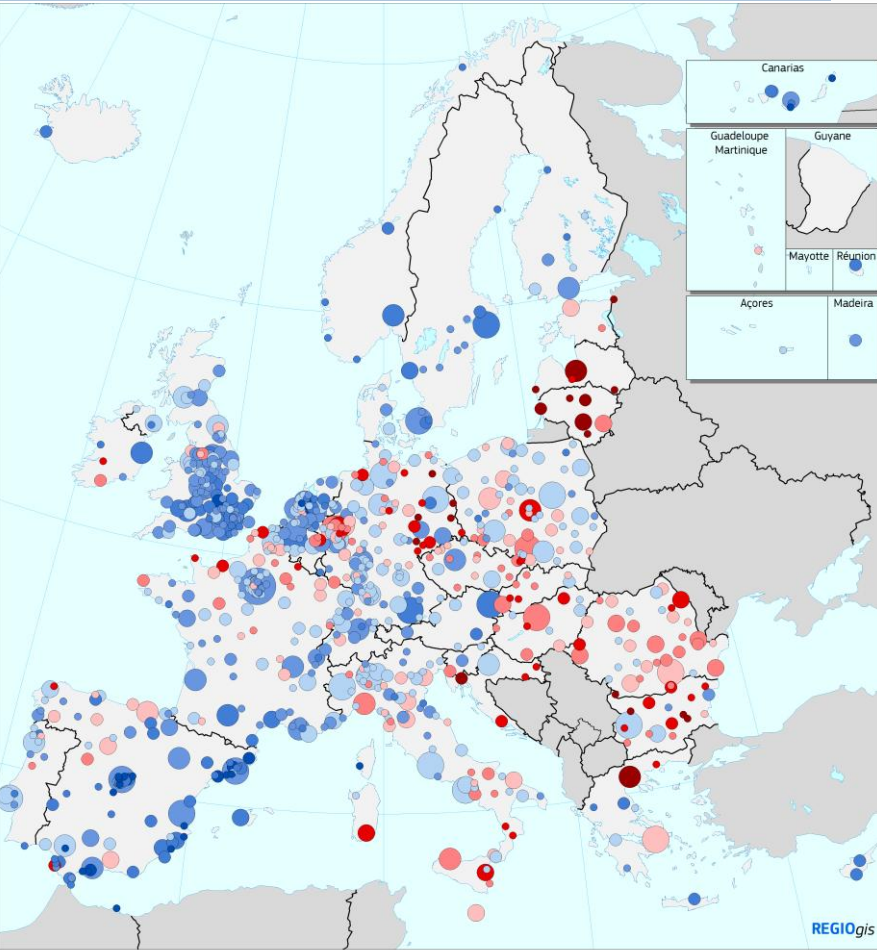


European
Commission

DEMOGRAPHIC CHANGE & MIGRATION

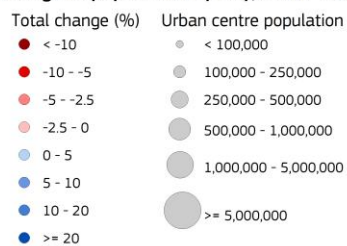


European Commission



REGIOgis

Change in population by city, 2001-2011

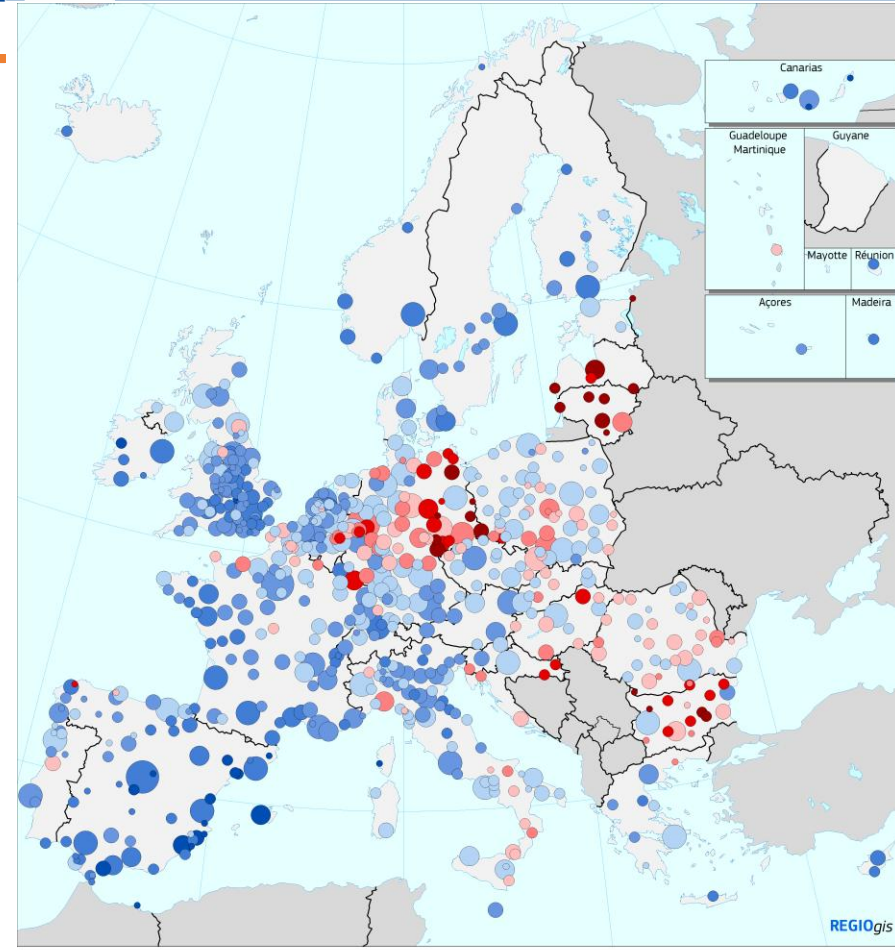


Sources: Eurostat, NSI, DG REGIO

0 500 Km

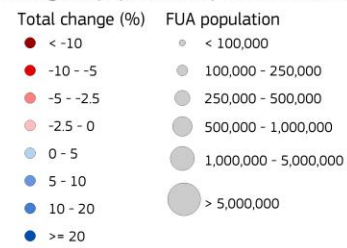
© EuroGeographics Association for the administrative boundaries

Regional & Urban Policy



REGIOgis

Change in population by FUA, 2001-2011



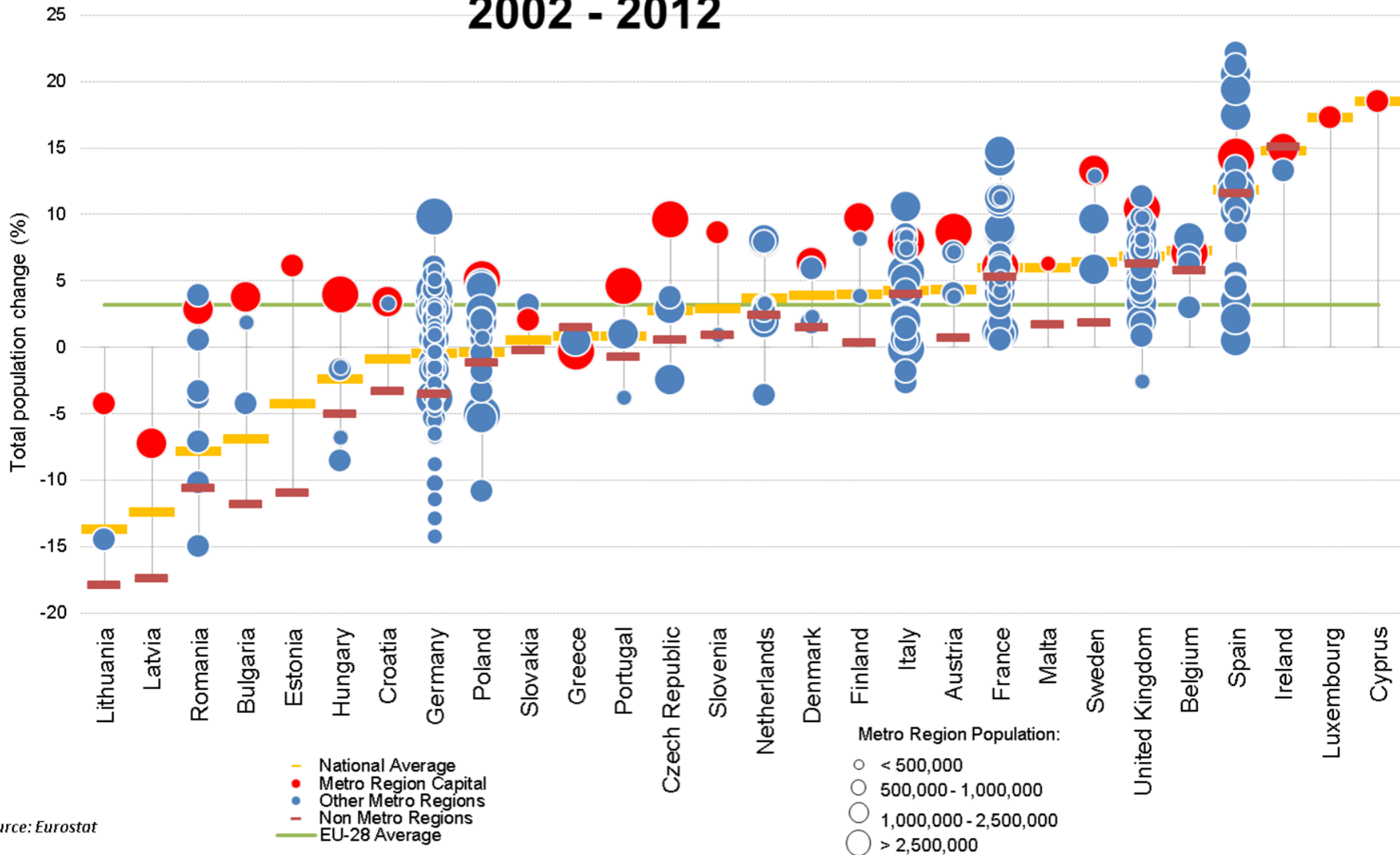
Sources: Eurostat, NSI, DG REGIO

0 500 Km

© EuroGeographics Association for the administrative boundaries

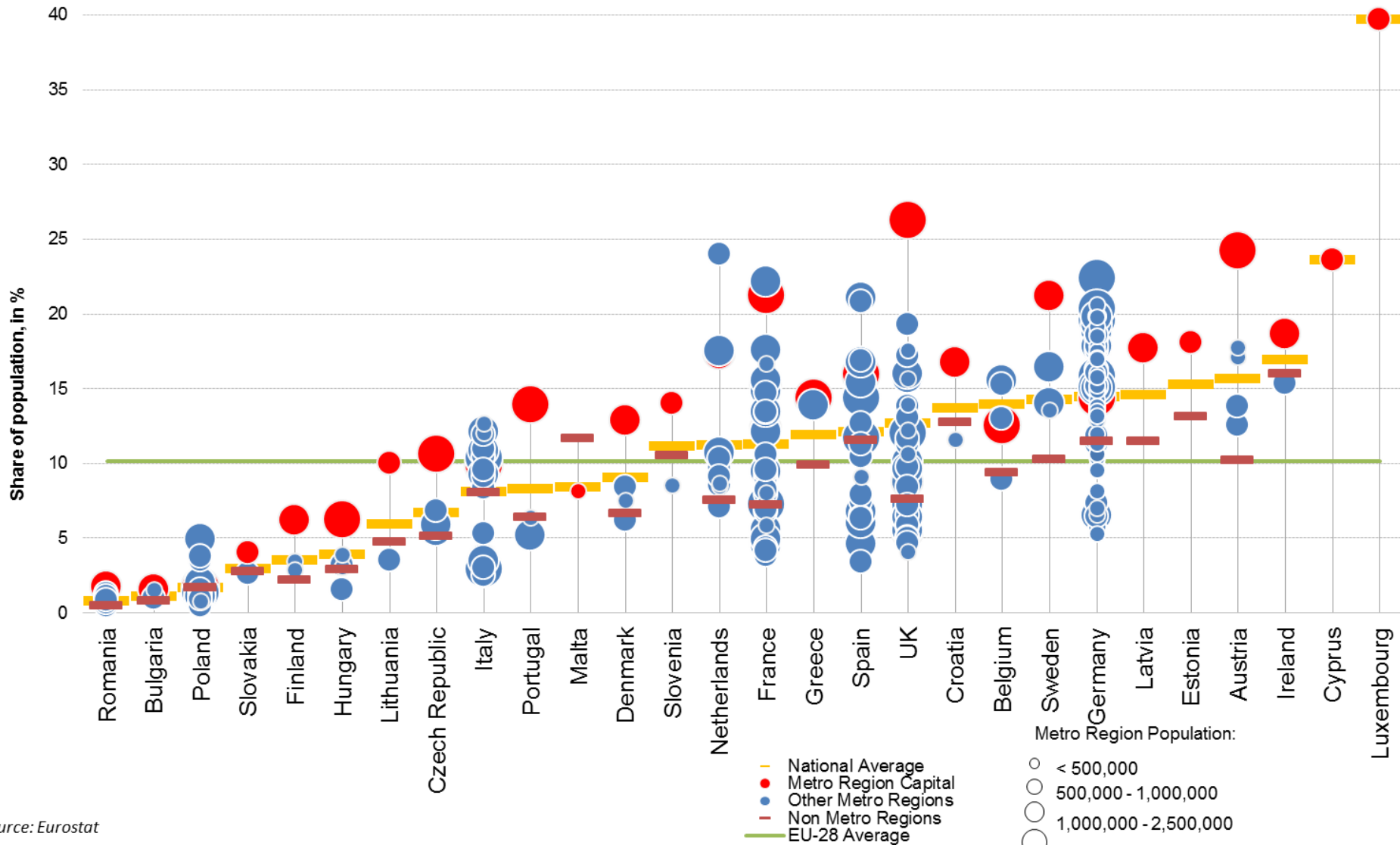


Total population change by metro region, 2002 - 2012





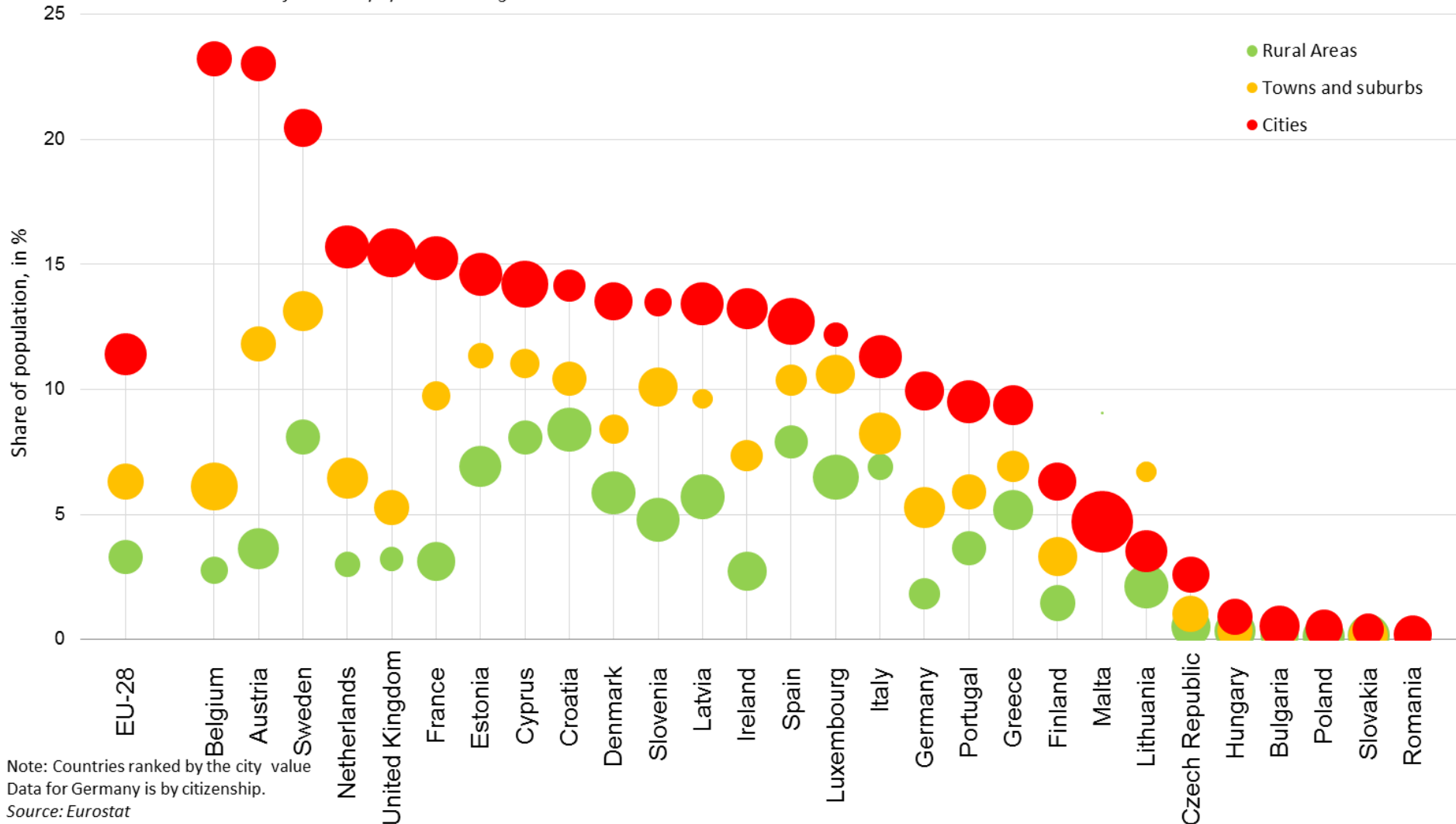
Foreign-born population by metro regions, 2011





Working age population (20-64) born outside the EU by degree of urbanisation, 2014

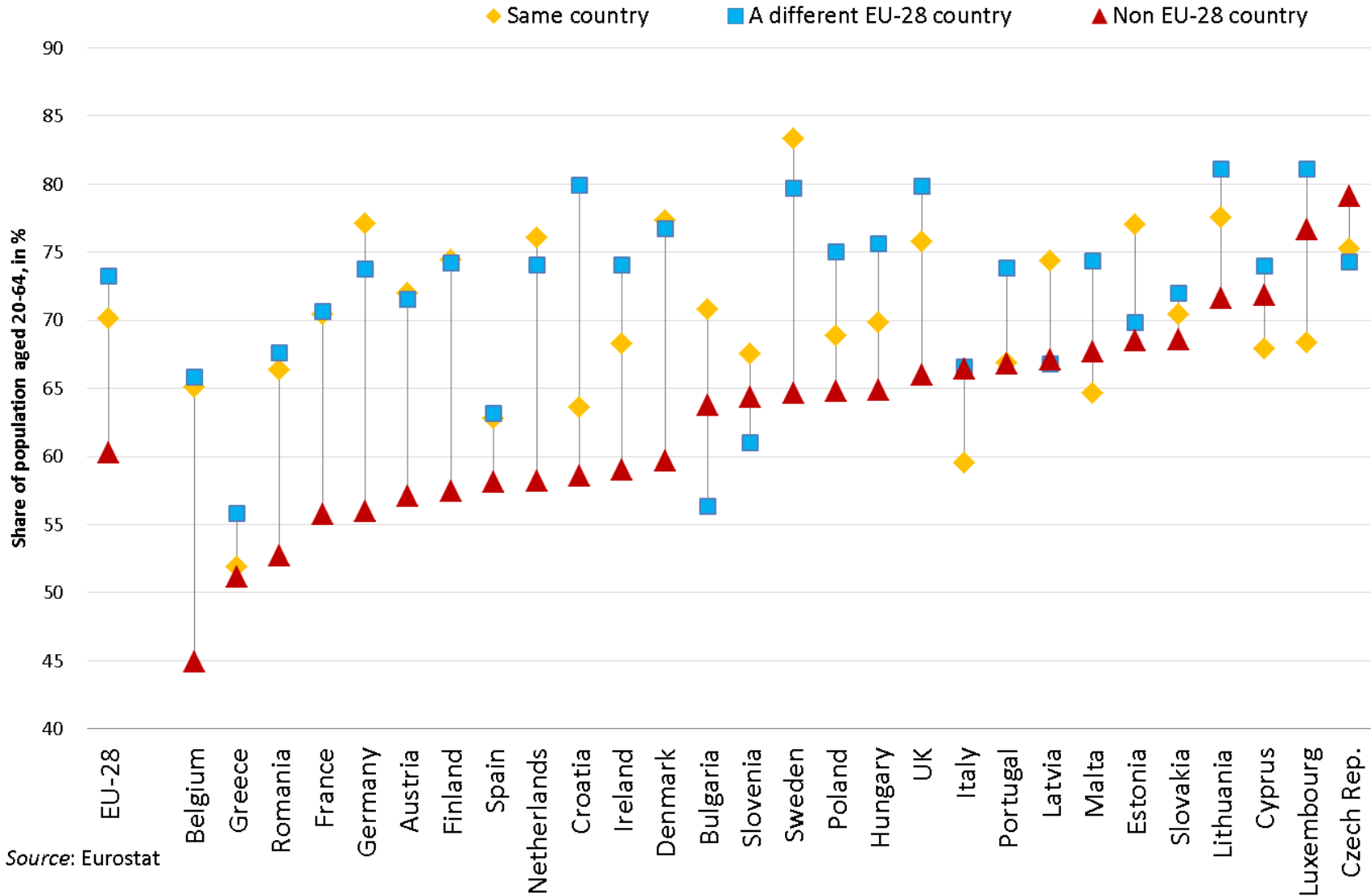
Bubble size is the share of national population living in the area



Note: Countries ranked by the city value
Data for Germany is by citizenship.
Source: Eurostat



Employment rate in the cities by country of birth, 2014



Source: Eurostat

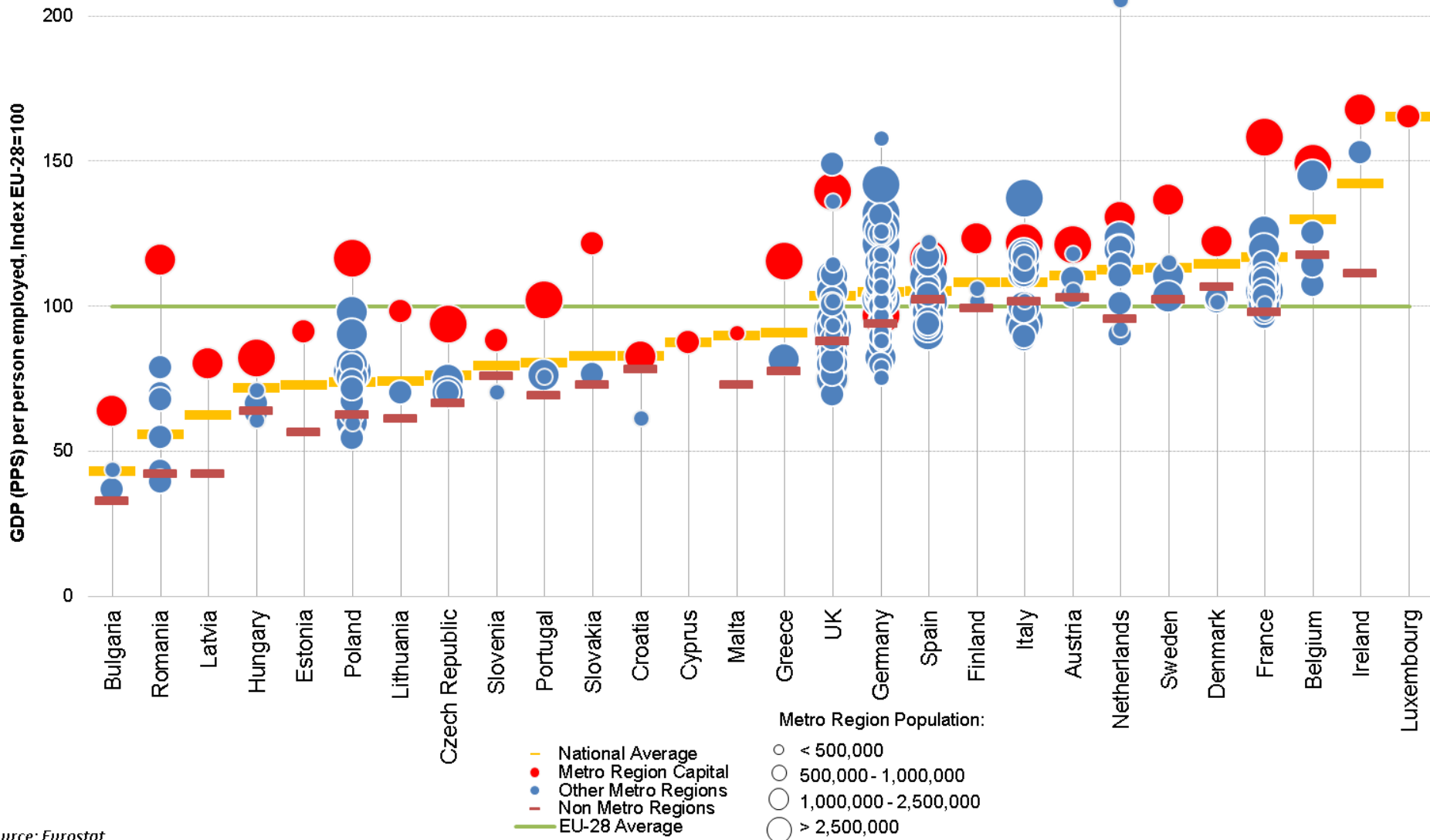


European
Commission

URBAN ECONOMIC DEVELOPMENT



Productivity per metro region, 2013

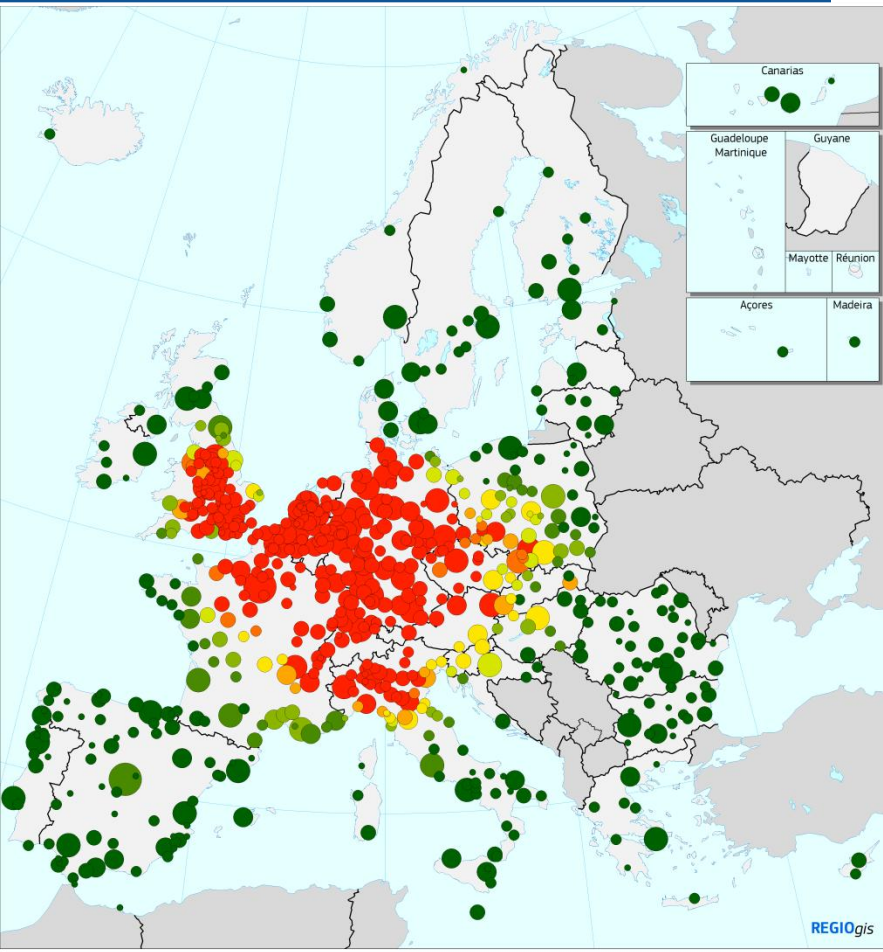


Productivity and middle income trap

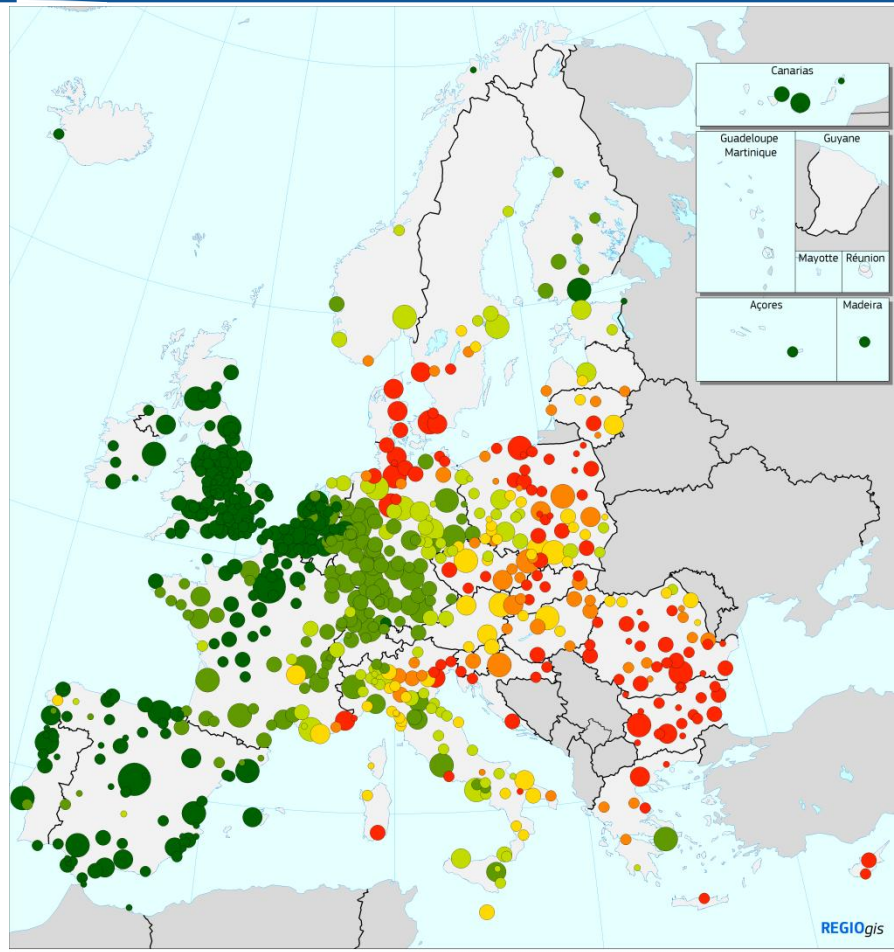
- *Cities are more productive because of*
 - **More tertiary educated (sorting)**
 - **Higher employment rates (matching)**
 - **More high-growth firms (sharing)**
 - **Better accessibility and connectivity (sharing)**
 - **More innovation (learning)**
- *Low-income cities are catching up, but losing jobs*
- *Medium- and high-income cities lag behind*
- *Very-high-income cities maintain their lead*

Middle-income trap

Metro region by income level	Average annual change 2000-2013, in %			
	Population	GDP	GDP per head	Employment
Very high	0.7	1.6	0.9	0.8
High	0.6	1.3	0.7	0.9
Medium	0.4	1.1	0.7	0.4
Low	0.2	1.3	1.1	0.0
All Metro	0.5	1.3	0.9	0.6
Non-metro	0.1	0.9	0.8	0.0
EU	0.3	1.2	0.9	0.3



European Commission



Expected change in road accessibility due to TEN-T network completion by FUA

Potential road accessibility by FUA, 2012

- | | | | |
|---------------------------|---------------------------|-------------------------|-------------------------|
| Accessible population | ● 21,000,000 - 22,000,000 | FUA population | ● < 100,000 |
| ● < 15,000,000 | ● 22,000,000 - 23,000,000 | ● 100,000 - 250,000 | ● 100,000 - 250,000 |
| ● 15,000,000 - 17,500,000 | ● 23,000,000 - 24,000,000 | ● 250,000 - 500,000 | ● 250,000 - 500,000 |
| ● 17,500,000 - 19,500,000 | ● ≥ 24,000,000 | ● 500,000 - 1,000,000 | ● 500,000 - 1,000,000 |
| ● 19,500,000 - 21,000,000 | ○ No data | ● 1,000,000 - 5,000,000 | ● 1,000,000 - 5,000,000 |
| | | ● > 5,000,000 | ● > 5,000,000 |

- | | |
|-----------------------------|-------------------------|
| Change in accessibility (%) | FUA population |
| ● < 5 | ● < 100,000 |
| ● 5 - 10 | ● 100,000 - 250,000 |
| ● 10 - 15 | ● 250,000 - 500,000 |
| ● 15 - 20 | ● 500,000 - 1,000,000 |
| ● 20 - 25 | ● 1,000,000 - 5,000,000 |
| ● ≥ 25 | ● > 5,000,000 |
| ○ No data | |

Medium distance decay function.
Source: JRC, DG REGIO

Medium distance decay function.
Sources: DG MOVE, TomTom, DG JRC



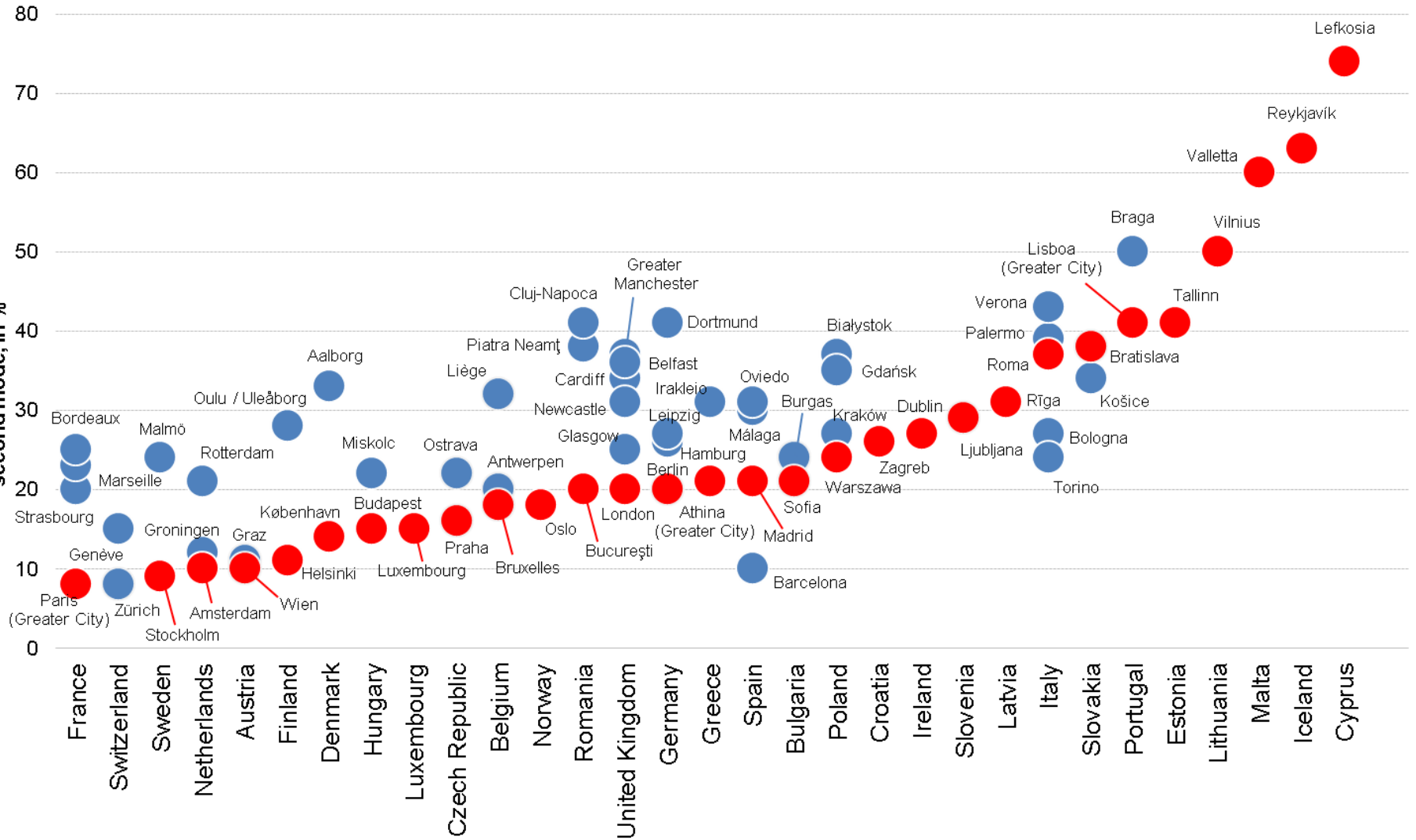
European
Commission

URBAN MOBILITY



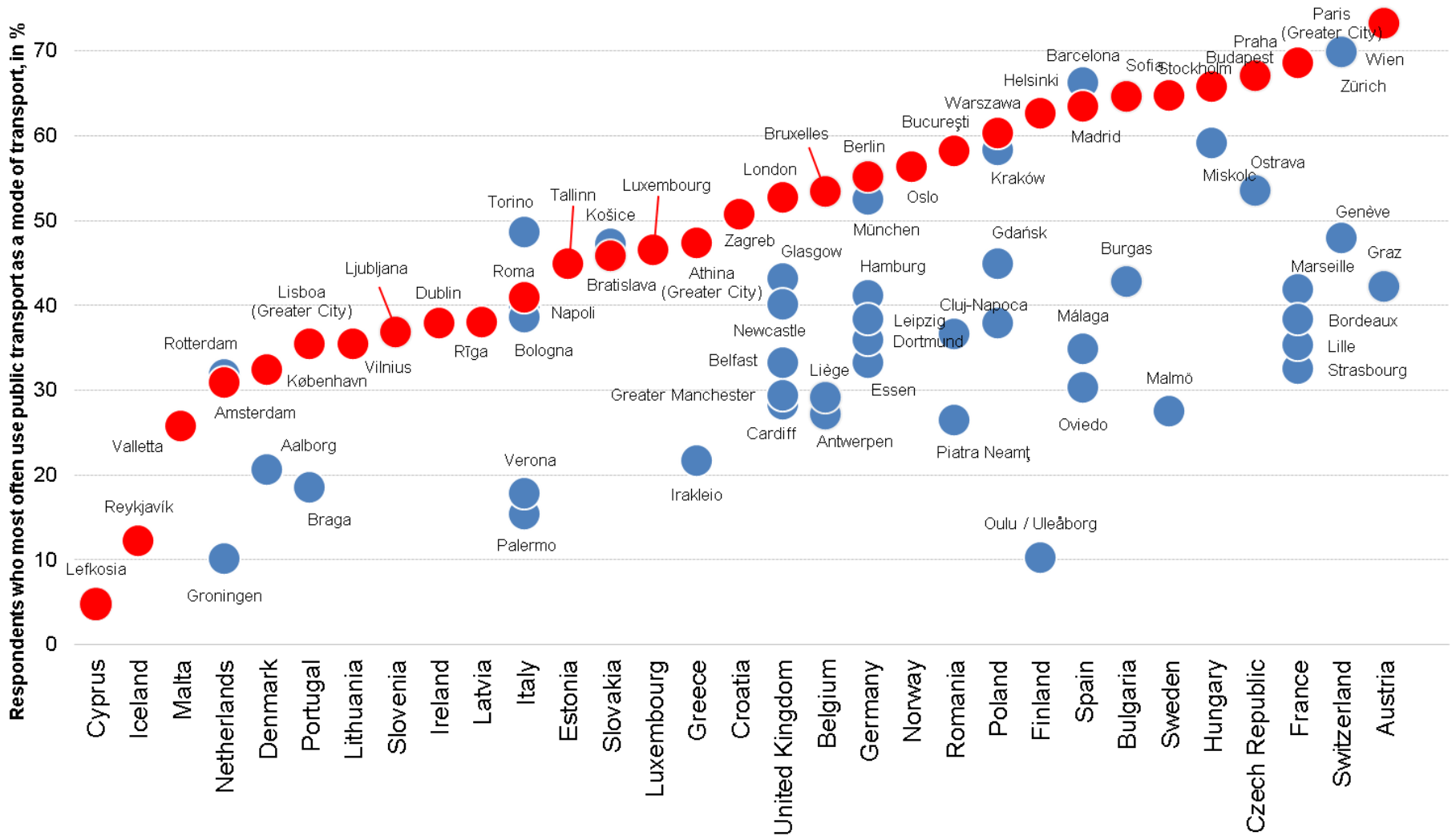
Car use per city, 2015

Respondents who most use cars as a mode of transport and did not select a second mode, in %

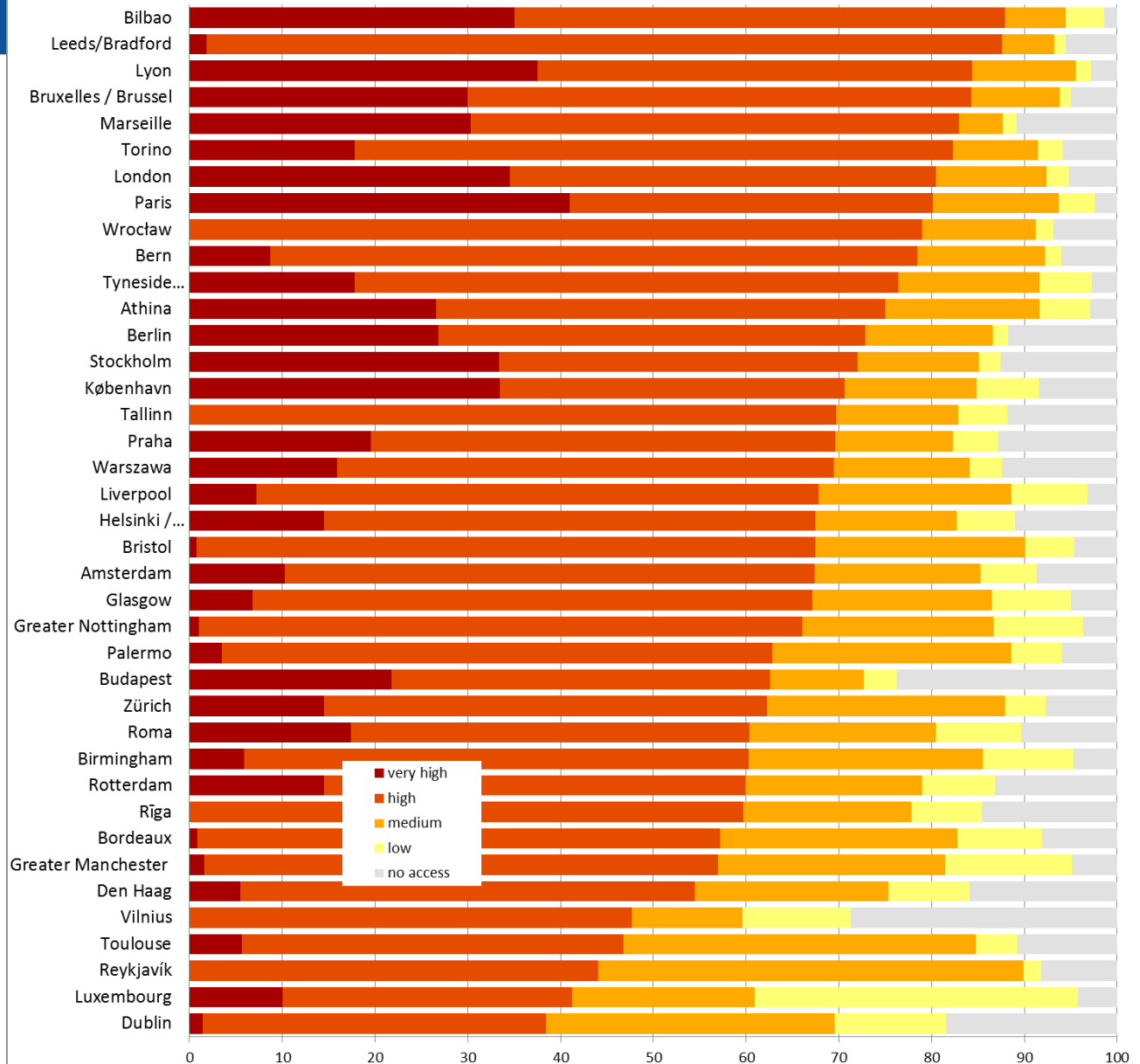




Public transport use per city, 2015



Access to public transport in capital cities and large cities, 2014

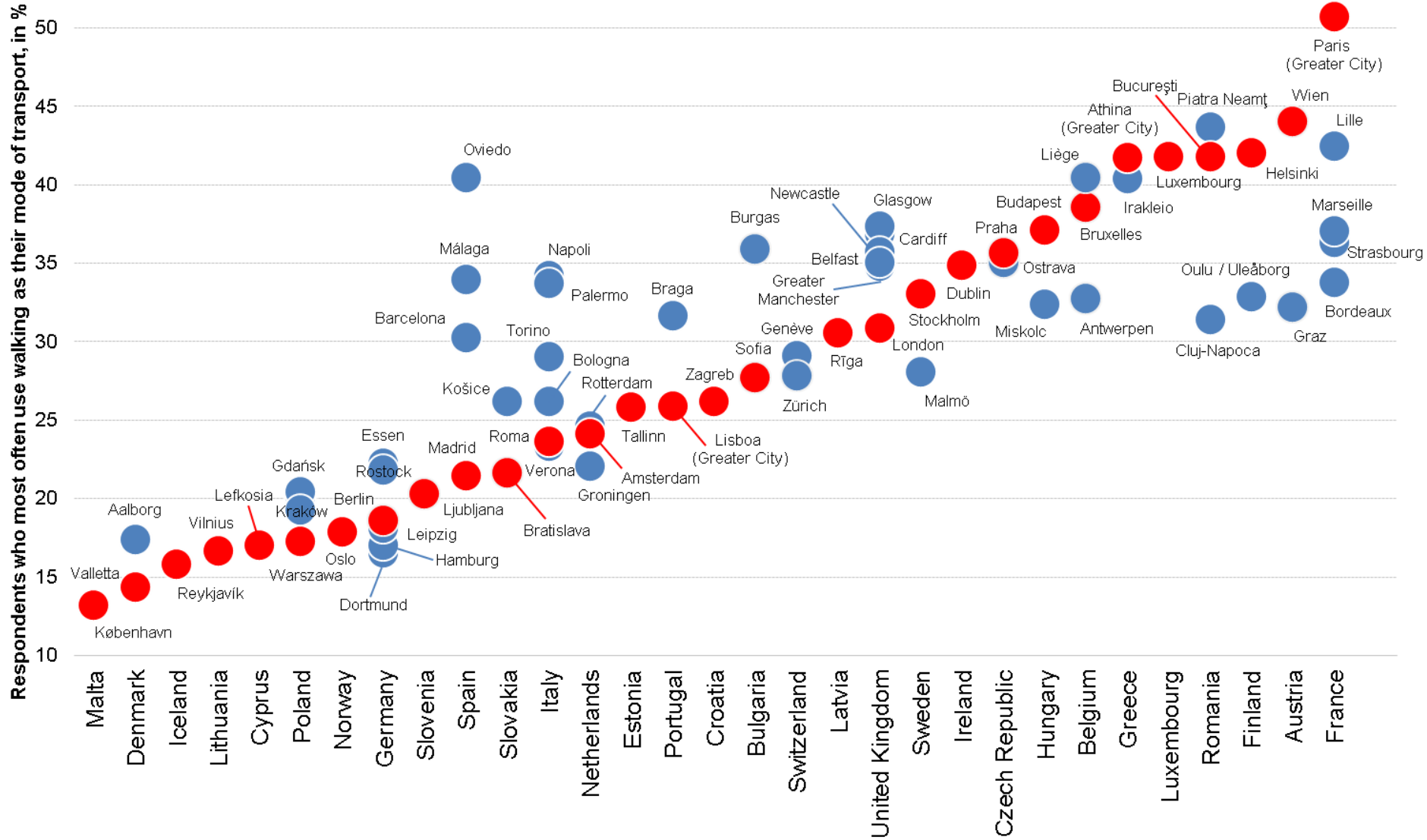


Source: DG REGIO calculations

Share of population, in %

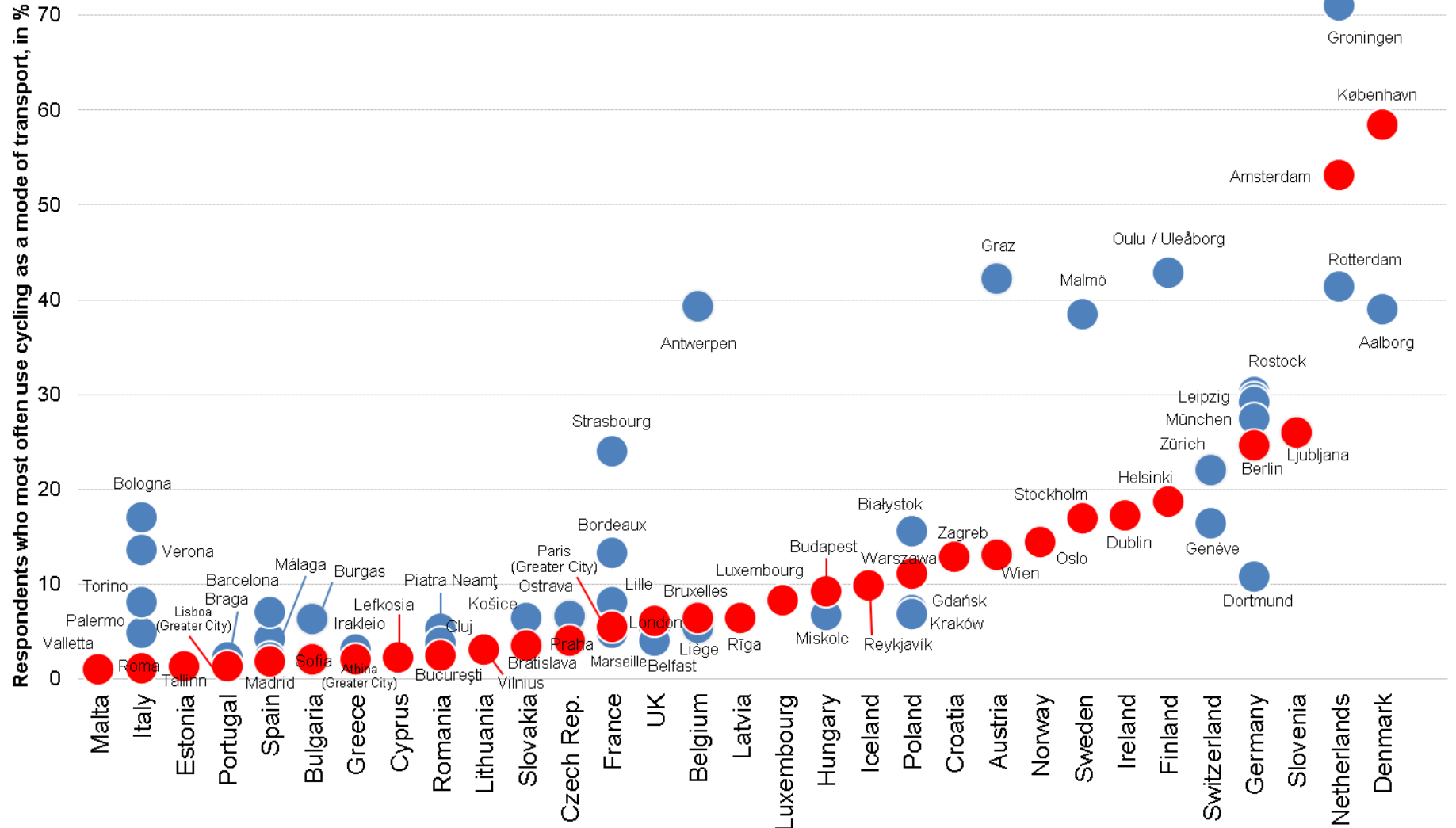


Walking per city, 2015



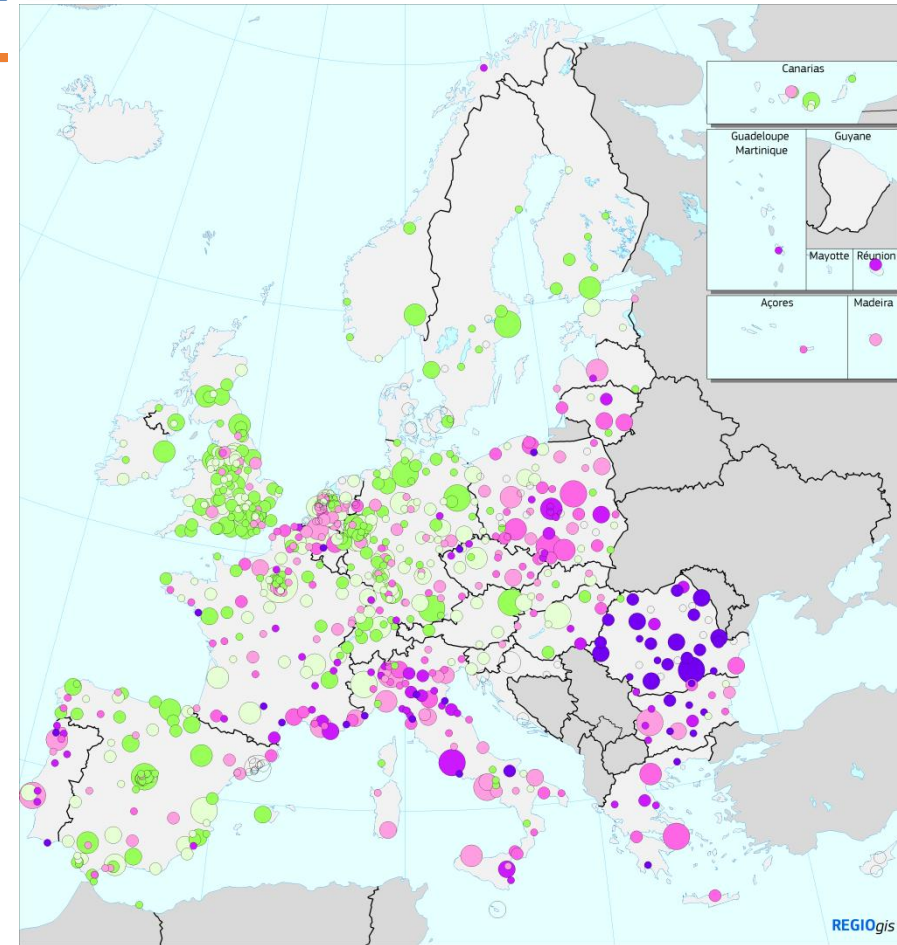


Cycling per city, 2015

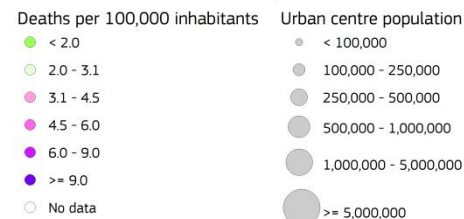


Road fatalities

- *Green below 2020 target*
- *Purple above 2020 target*



Road traffic fatalities in cities, 2013-2014



The EU objective for 2020 is a rate below 3.1.
 AT: 2013; BG, LV, NL: 2012-2013;
 FR: 2012; IT, PL, PT, SK, NO: 2011-2012;
 IE, EL: 2011; CZ, SE: 2010-2011; RO: 2008
 Source: Eurostat

0 500 Km

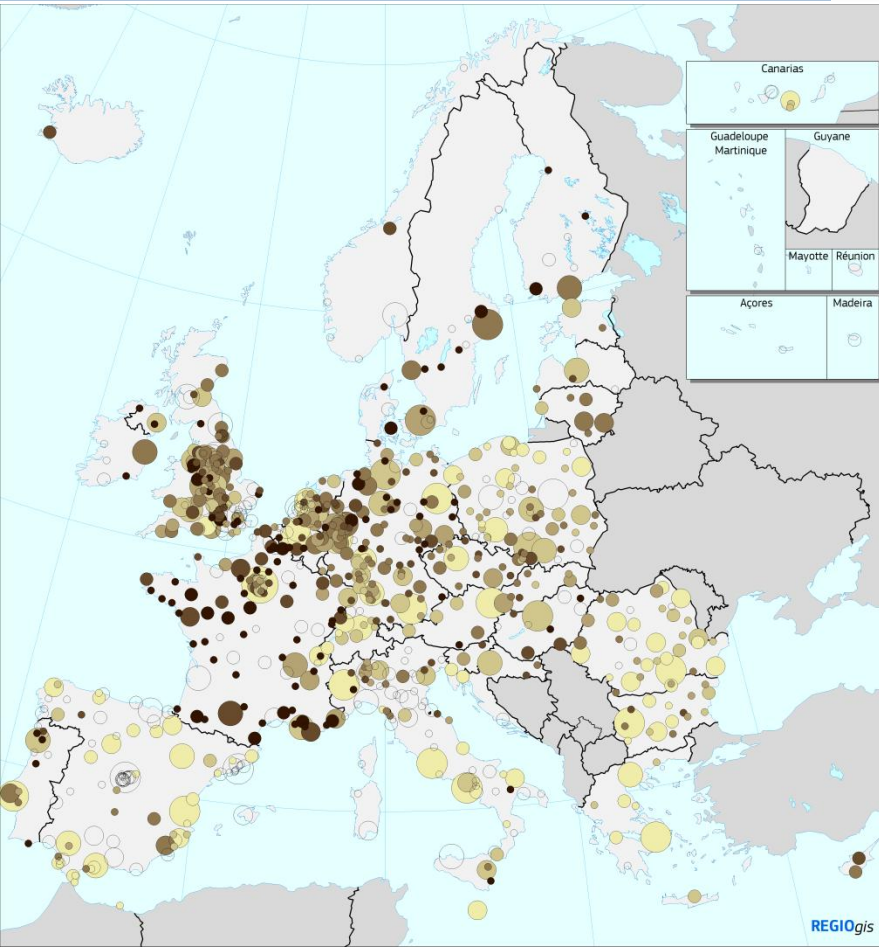
Urban mobility

- *Low-carbon modes more popular in cities, but more can be done to make these attractive:*
 - **Make walking and cycling safe and convenient**
 - **Improve speed and frequency of public transport**
 - **Charge more for parking a car in the city centre**
- *To reach the EU GHG emission targets, car use may need to be reduced. Several cities have succeeded to reduce car use.*
- *Traffic safety is high in most EU cities, but it can still be improved in several cities*

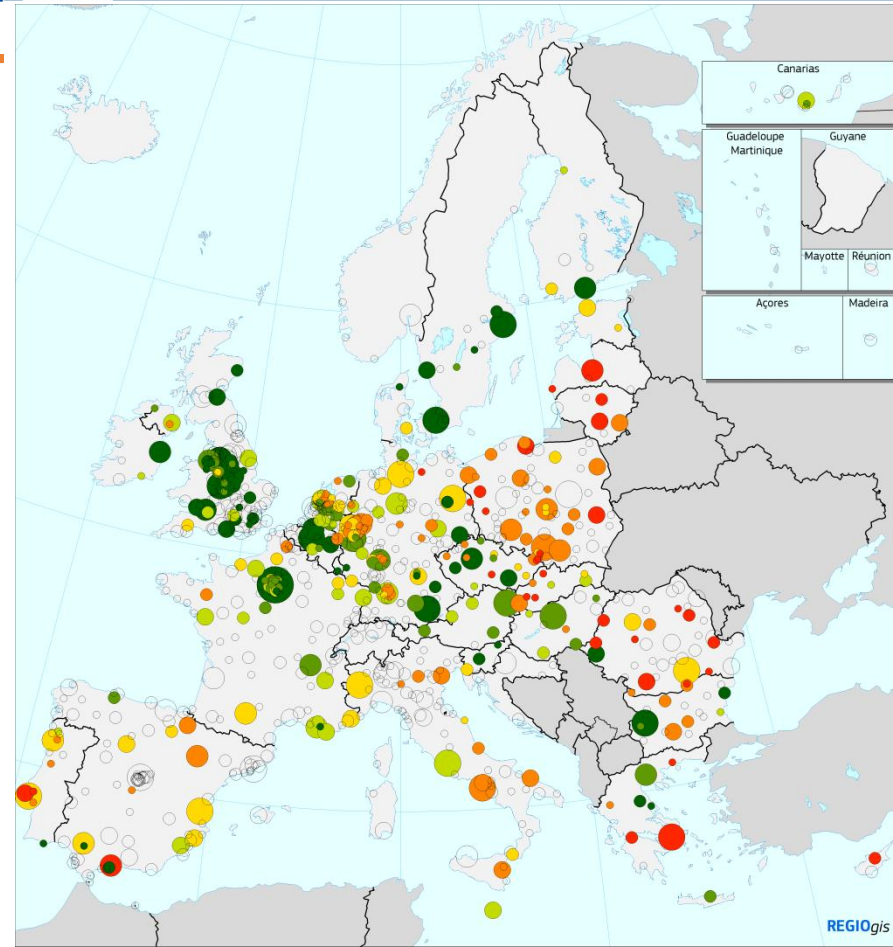


European
Commission

RESOURCE EFFICIENT CITIES



European Commission



Regional & Urban Policy

Residential, industrial and commercial areas per inhabitant by city, 2012

- | | |
|---------------------------|--------------------------------|
| m²/inh. | Urban centre population |
| ● < 140 | ● < 100,000 |
| ● 140 - 175 | ● 100,000 - 250,000 |
| ● 175 - 200 | ● 250,000 - 500,000 |
| ● 200 - 250 | ● 500,000 - 1,000,000 |
| ● 250 - 300 | ● 1,000,000 - 5,000,000 |
| ● >= 300 | ● >= 5,000,000 |
| ○ No data | |

Residential, industrial, commercial, public and private built-up areas.
Sources: Copernicus Urban Atlas, Eurostat, DG REGIO

0 500 Km

© EuroGeographics Association for the administrative boundaries

Change in residential, industrial and commercial areas per inhabitant by city, 2006-2012

- | | |
|-----------------------|--------------------------------|
| Total % change | Urban centre population |
| ● < -2 | ● < 100,000 |
| ● -2 - 0 | ● 100,000 - 250,000 |
| ● 0 - 2 | ● 250,000 - 500,000 |
| ● 2 - 4 | ● 500,000 - 1,000,000 |
| ● 4 - 8 | ● 1,000,000 - 5,000,000 |
| ● >= 8 | ● >= 5,000,000 |
| ○ No data | |

Residential, industrial, commercial, public and private built-up areas.
Sources: Copernicus Urban Atlas, Eurostat, DG REGIO

0 500 Km

© EuroGeographics Association for the administrative boundaries

Resource efficient cities

- *Cities compared to rural areas need*
 - **Four times less land,**
 - **Ten times less local road**
- *Large cities and Mediterranean cities use less land per inhabitant*
- *Most EU cities with a growing population have a slower increase in land use than in population*
- *This efficiency can deteriorate or improve over time depending on national and local policies*

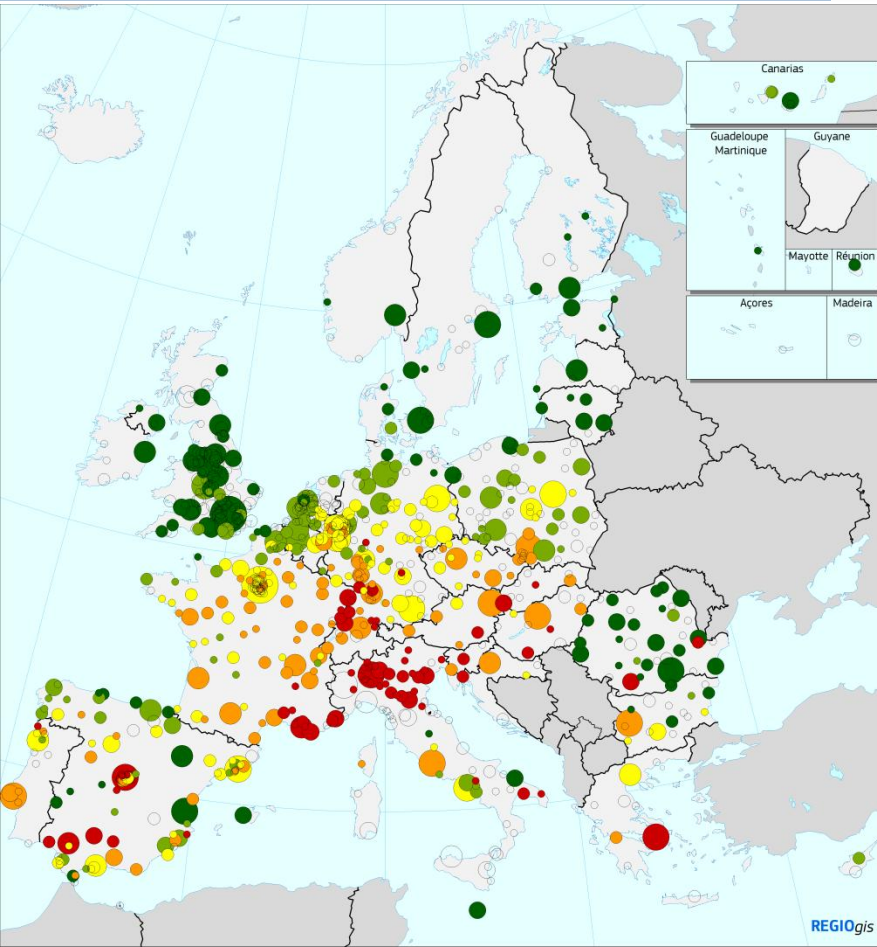


European
Commission

URBAN ENVIRONMENT & CLIMATE CHANGE



European Commission



REGIOgis

Concentration of ground-level ozone (O₃) in cities, 2013

Number of days with more than 120 µg/m³ Urban centre population

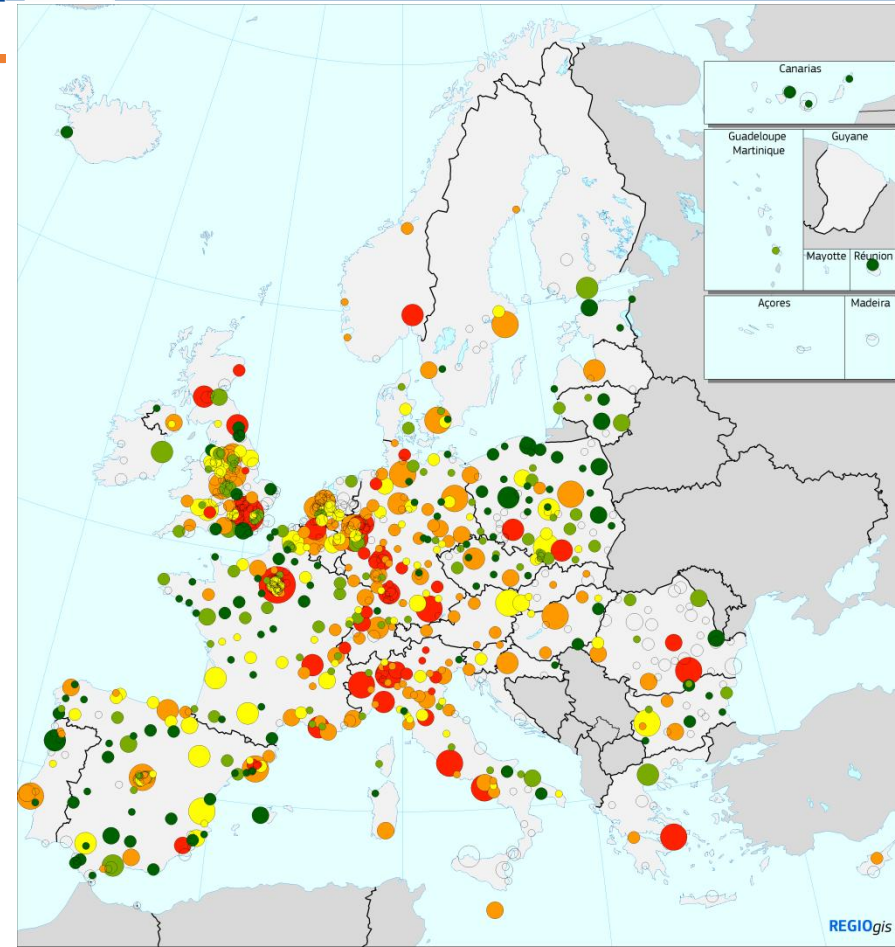
- < 2
- 2 - 8
- 8 - 15
- 15 - 25
- ≥ 25
- No data
- < 100,000
- 100,000 - 250,000
- 250,000 - 500,000
- 500,000 - 1,000,000
- 1,000,000 - 5,000,000
- ≥ 5,000,000

Average recorded by measuring stations within city boundaries.
EU target value of 120 µg/m³ should not be exceeded more than 25 days per year (averaged over 3 years).
Sources: EEA, DG REGIO

0 500 Km

© EuroGeographics Association for the administrative boundaries

Regional & Urban Policy



REGIOgis

Average concentration of nitrogen dioxide (NO₂) in cities, 2013

µg/m³ Urban centre population

- < 20
- 20 - 25
- 25 - 30
- 30 - 40
- ≥ 40
- No data
- < 100,000
- 100,000 - 250,000
- 250,000 - 500,000
- 500,000 - 1,000,000
- 1,000,000 - 5,000,000
- ≥ 5,000,000

Average recorded by measuring stations within city boundaries.
WHO guideline and EU limit value: 40 µg/m³
Sources: EEA, DG REGIO

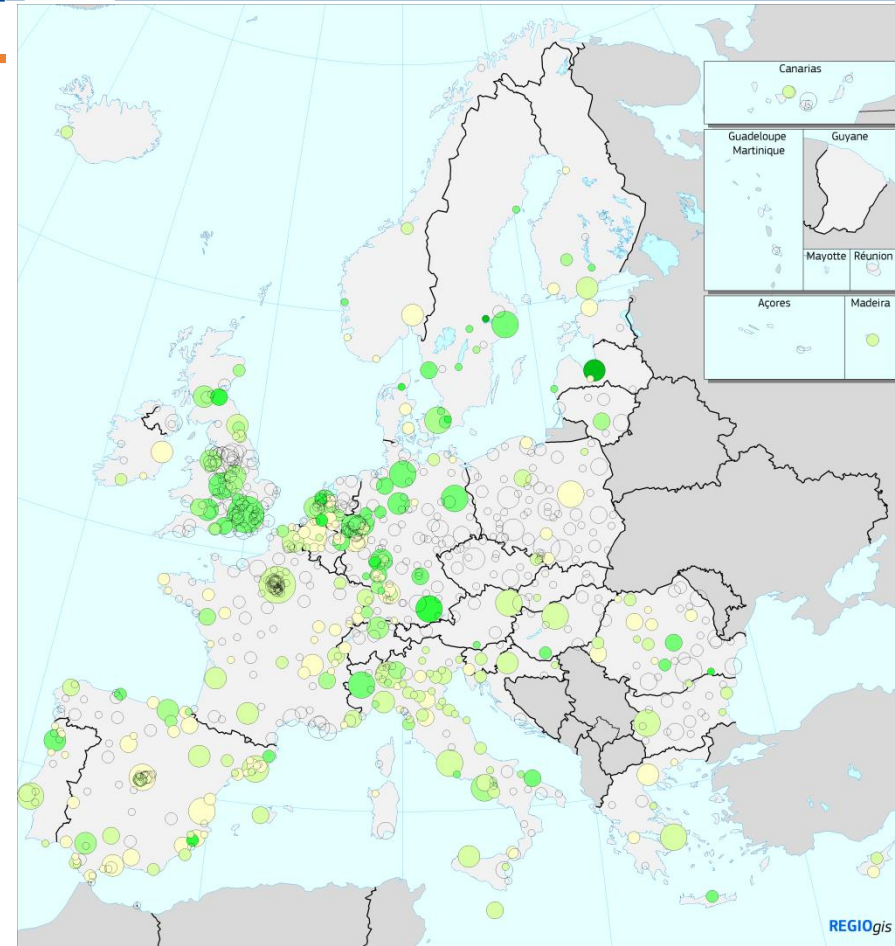
0 500 Km

© EuroGeographics Association for the administrative boundaries



European
Commission

- *More than 300 cities have committed to reducing GHG emissions*
- *Cities focus increasingly on mitigation AND adaptation*



CO₂ reduction targets for 2020 by city, 2016



Reduction targets set by Covenant of Mayors signatories (as of 01/06/2016) located in cities. In most cases the reduction target refers to the absolute value of CO₂ emissions; in others it refers to per capita reduction. Source: Covenant of Mayors Office, JRC, DG REGIO

0 500 Km

© EuroGeographics Association for the administrative boundaries

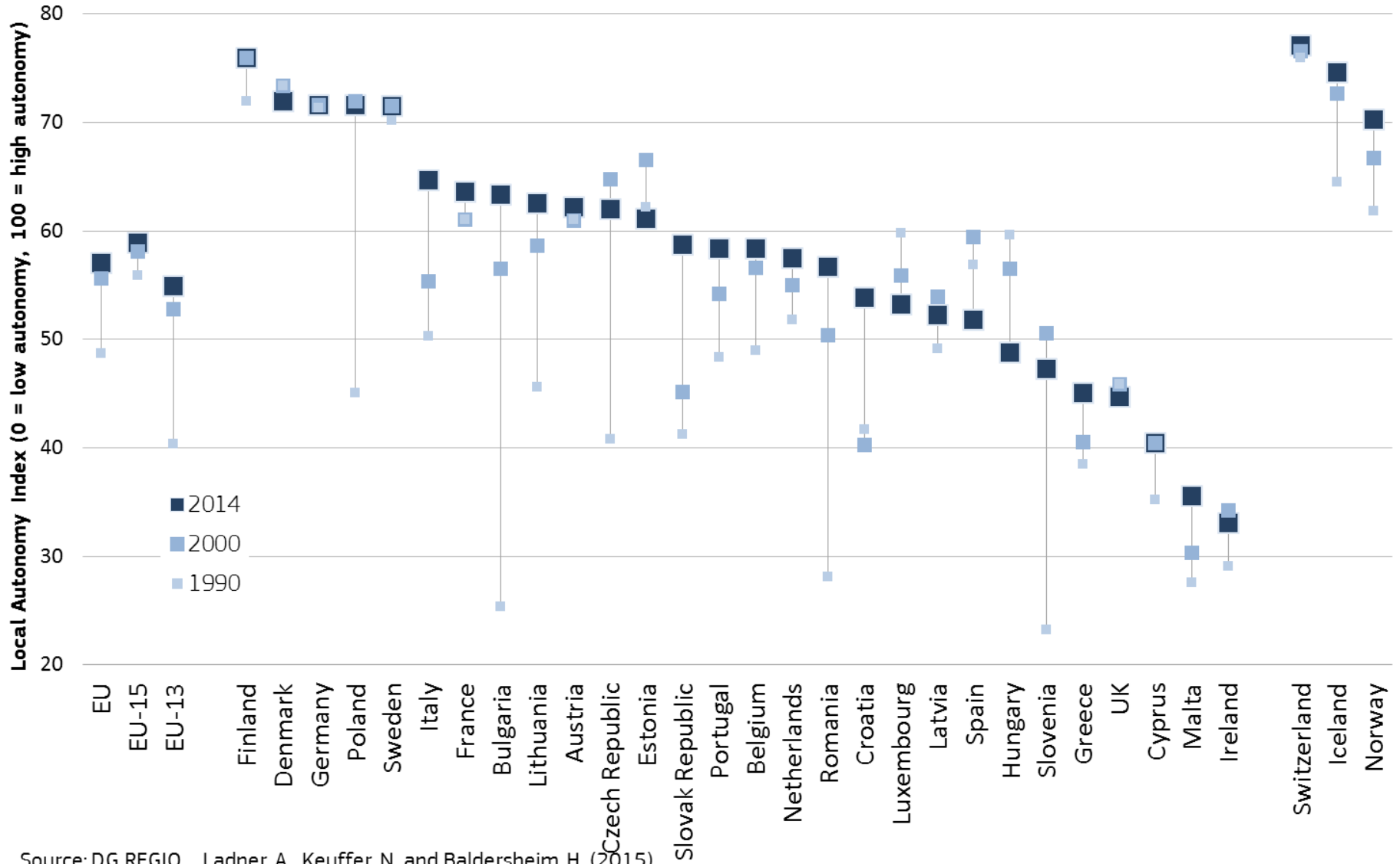


European
Commission

URBAN GOVERNANCE



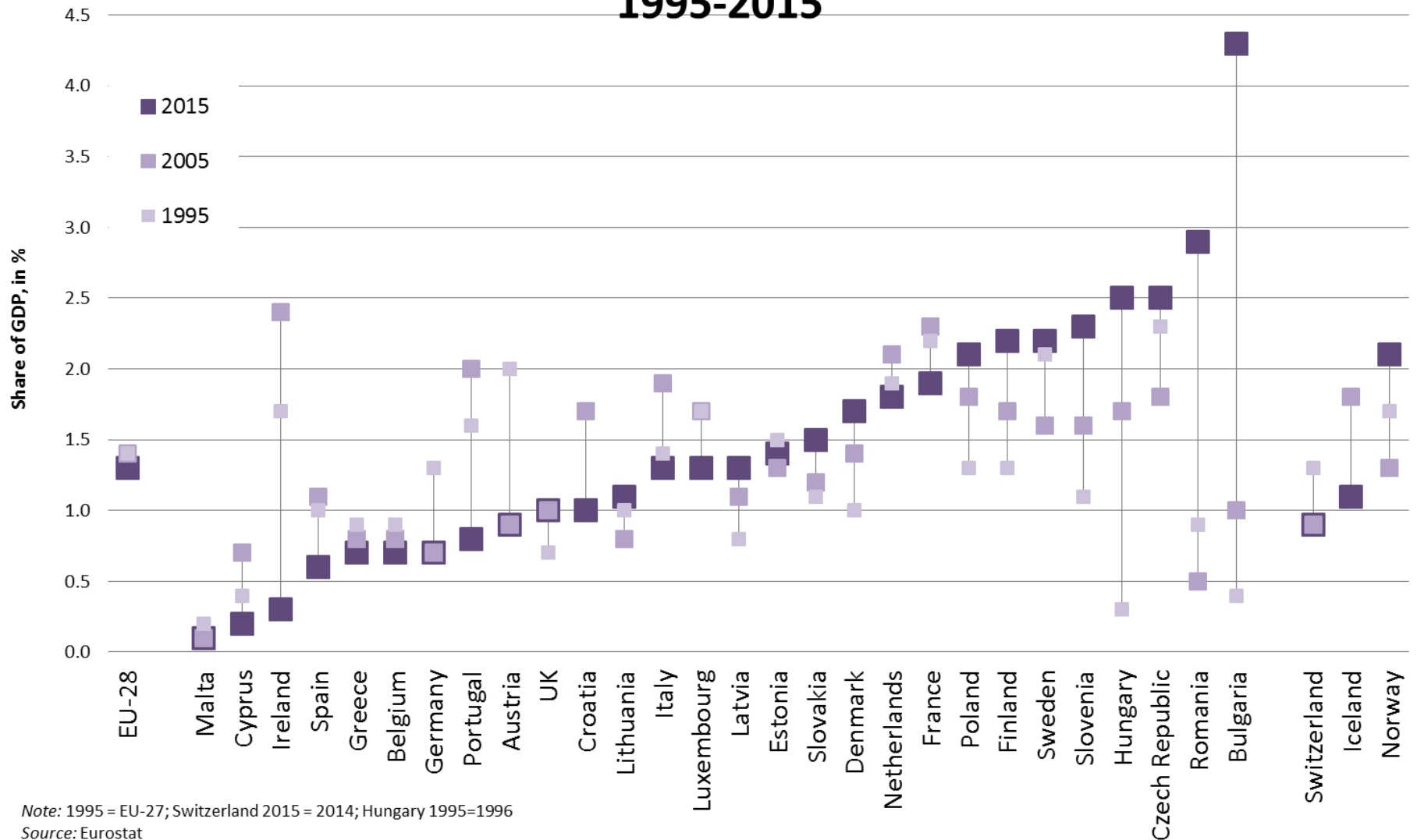
Local Autonomy Index in 1990, 2000 and 2014



Source: DG REGIO, Ladner, A., Keuffer, N. and Baldersheim, H. (2015).

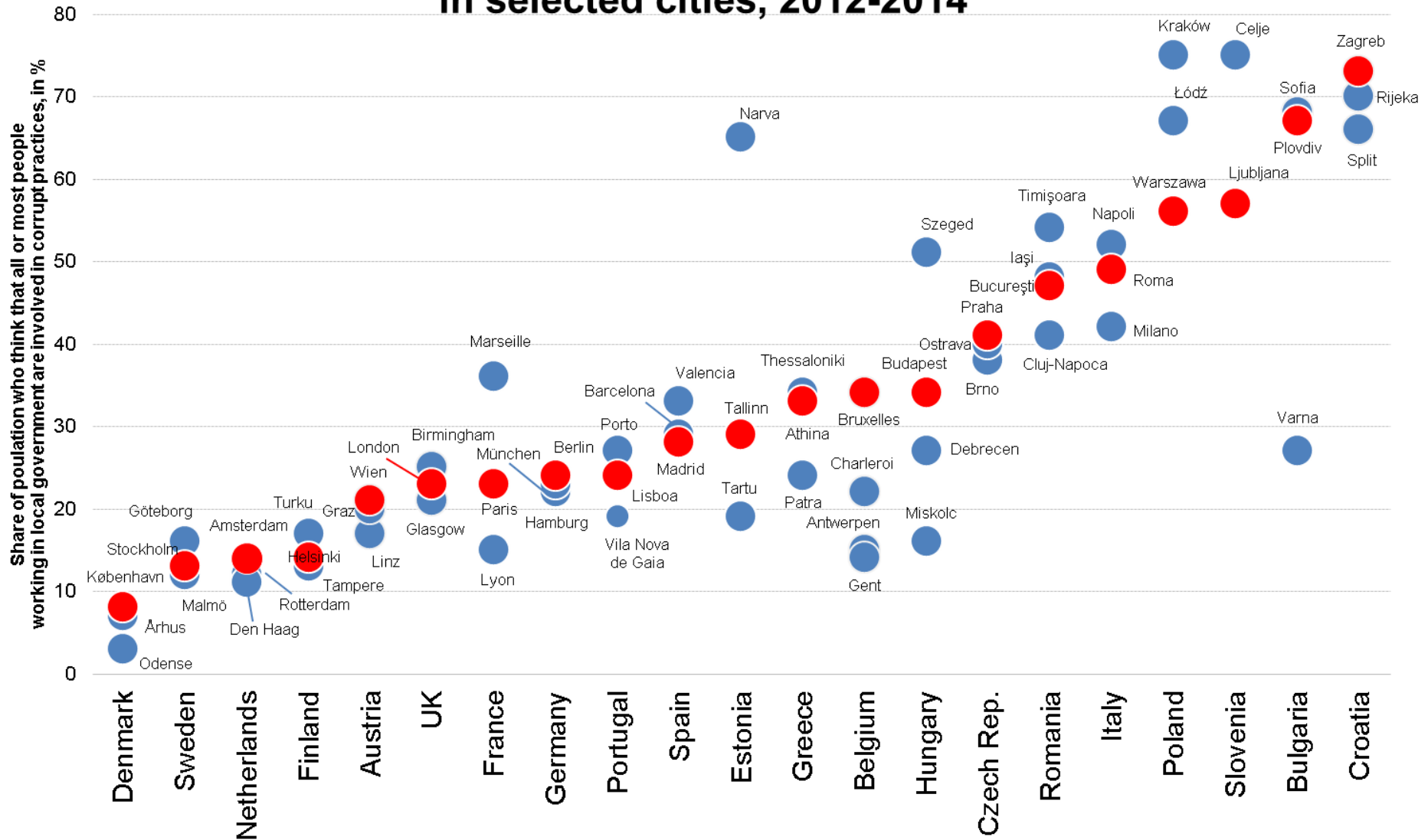


Local public investment relative to GDP per country, 1995-2015



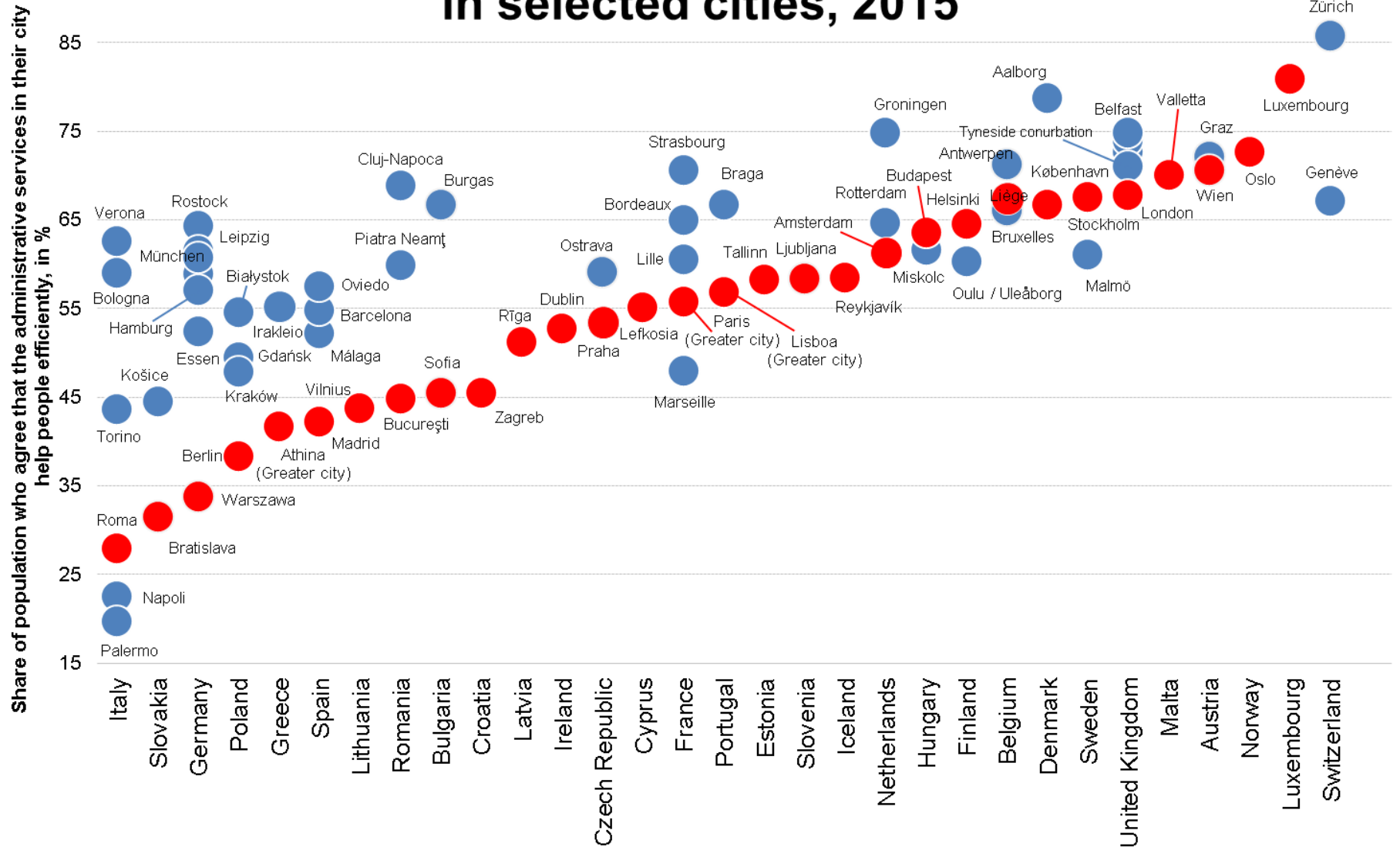


Perceived corrupt practices in local government in selected cities, 2012-2014





Efficiency of public administration in selected cities, 2015



Conclusions

- *European cities are central to reaching key EU economic, social and environmental goals*
- *European cities already have many benefits but they can further improve their performance with*
 - **sufficient funding,**
 - **enough autonomy and**
 - **a strong metropolitan government**

Links

- *State of European Cities Report:*
<http://ec.europa.eu/cities-report>
- *Urban Data Platform:*
<http://urban.jrc.ec.europa.eu>
- *Global Human Settlement Layer:*
<http://ghsl.jrc.ec.europa.eu>