

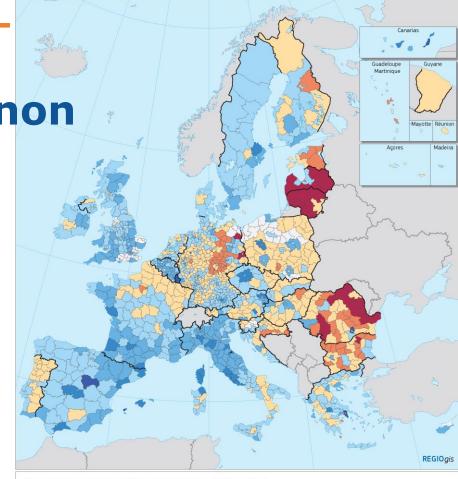
How geo-referenced and regional data on migration can support better policy making

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- Big differences within countries
- A shift to (capital)
 cities and their
 suburbs from rural
 regions in EU-13
- A shift from EU-13 to EU-15, but also within EU-15







EU-28 = 2.18

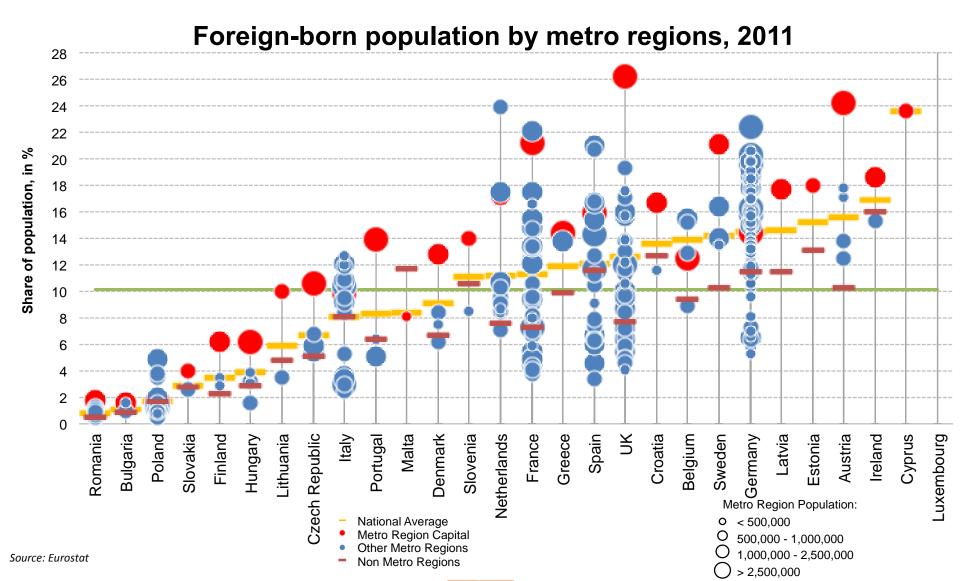
DK, DEA, DED, DEE: data before 2007 was extrapolated.
PL52, UKD3, UKI3, UKI4, UKI5, UKI6, UKI7: NUTS 2

Source: Eurostat, DG REGIO

Regional and urban Policy

Commission







A need for a finer grained analysis

- NUTS-3 regions still cover a wide diversity of territories
- Analysis by degree of urbanisation
- Analysis per city and per functional urban area
- Analysis at the neighbourhood level





Degree of urbanisation

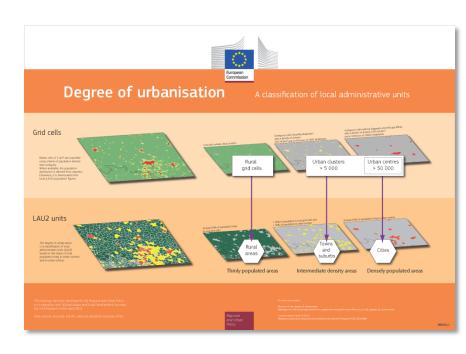
- Typology based on a 1 km² population grid
- Has three grid concepts
 - 1. Urban centre
 - 2. Urban cluster
 - 3. Rural grid cell
- Translates these into three types of municipalities
 - 1. Cities
 - 2. Towns and suburbs
 - 3. Rural areas





Uses of the degree of urbanisation

- More than 100 indicators published by Eurostat
 - Demographic
 - Health
 - Poverty
 - Education
 - Employment
- Increasing use by EEA, JRC, etc.







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

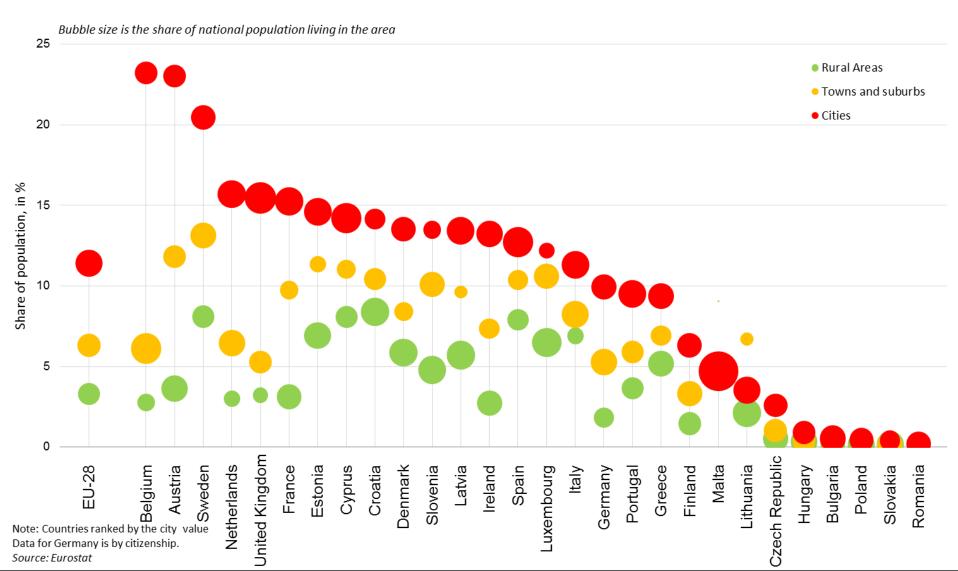


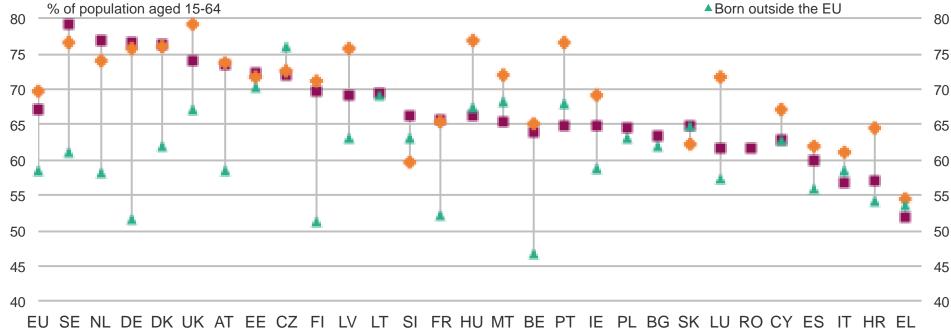


Figure 2.4 Employment rate by country of birth (15-64), 2016

■Born in the country they live in

◆Born in a different EU-28 country





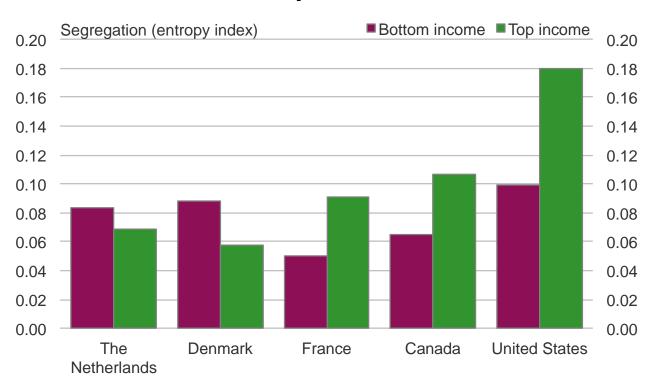
DE: employment rate by country of citizenship. Figures with a low reliability were not included.

Source: Eurostat





Figure 2.17 Income concentration in cities by income group, 2014 or latest available year



Higher values indicate higher concentrations





Why the grid is the best

- Fixed boundaries
 - the EU has over 130 000 local administrative units and boundary changes occur every year. As a result, changes over time are difficult to analyse
- Each grid cell has same size and shape
 - Units with varying shapes and sizes make analysis of accessibility, proximity, segregation and density far less reliable





Population grid

- 2006: a mixture of population disaggregation and point-based (bottom-up) grids, total population
- 2011: almost purely bottom-up grids, total population
- 2021: bottom-up grids, total population and breakdowns by:
 - Sex, Age, Employment
 - Country of birth, Citizenship (grouped)
 - Years at current address
- Annual updates?
- Higher resolution in urban areas?

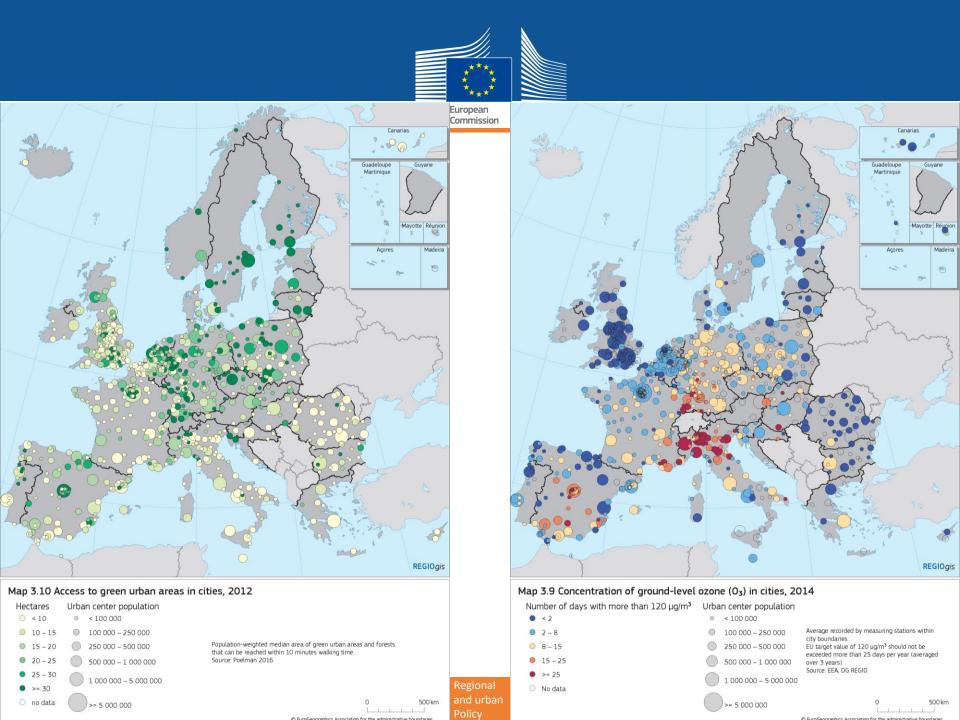




UN Sustainable Development Goals

- Request a focus on women, children, persons with disabilities and older persons
- Include multiple indicators that will require geospatial information: access to public transport, access to green space...
- Data should be collected per city

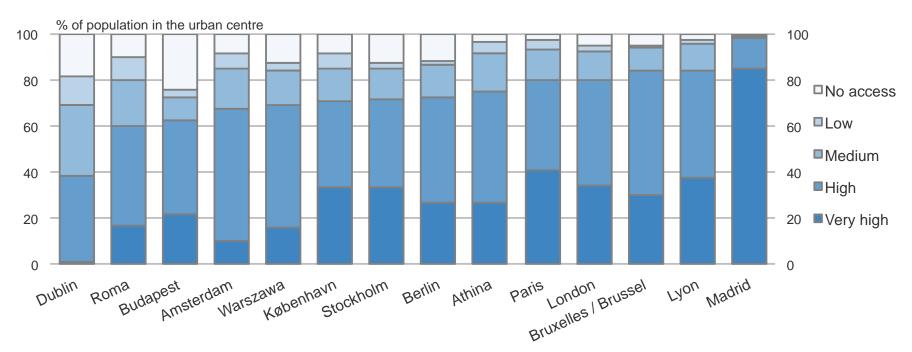






Access to public transport

Figure 3.9 Access to public transport in large European cities, 2014-2016



Source: Poelman and Dijkstra 2015





Matching with other geo-referenced data

- Public services:
 - Public Transport
 - Health,
 - Education
 - Employment services...
- Pollution data
- Urban green space
- Housing costs or quality
- Crime data





Conclusion

- To capture migration a sub-national lens is needed. Policy action is often taken at the regional or local level
- NUTS-3 region data is important
- Local data is needed, but boundary changes are frequent.
- The grid offers many advantages and the opportunity to match with other geo-referenced data

