Territorial indicators for policy purposes: NUTS regions and beyond

Territorial Diversity and Networks
Szeged, September 2016

Teodora Brandmuller
Regional statistics and geographical information unit, Eurostat

Eurostat

European Statistics meet the needs of users

Policies

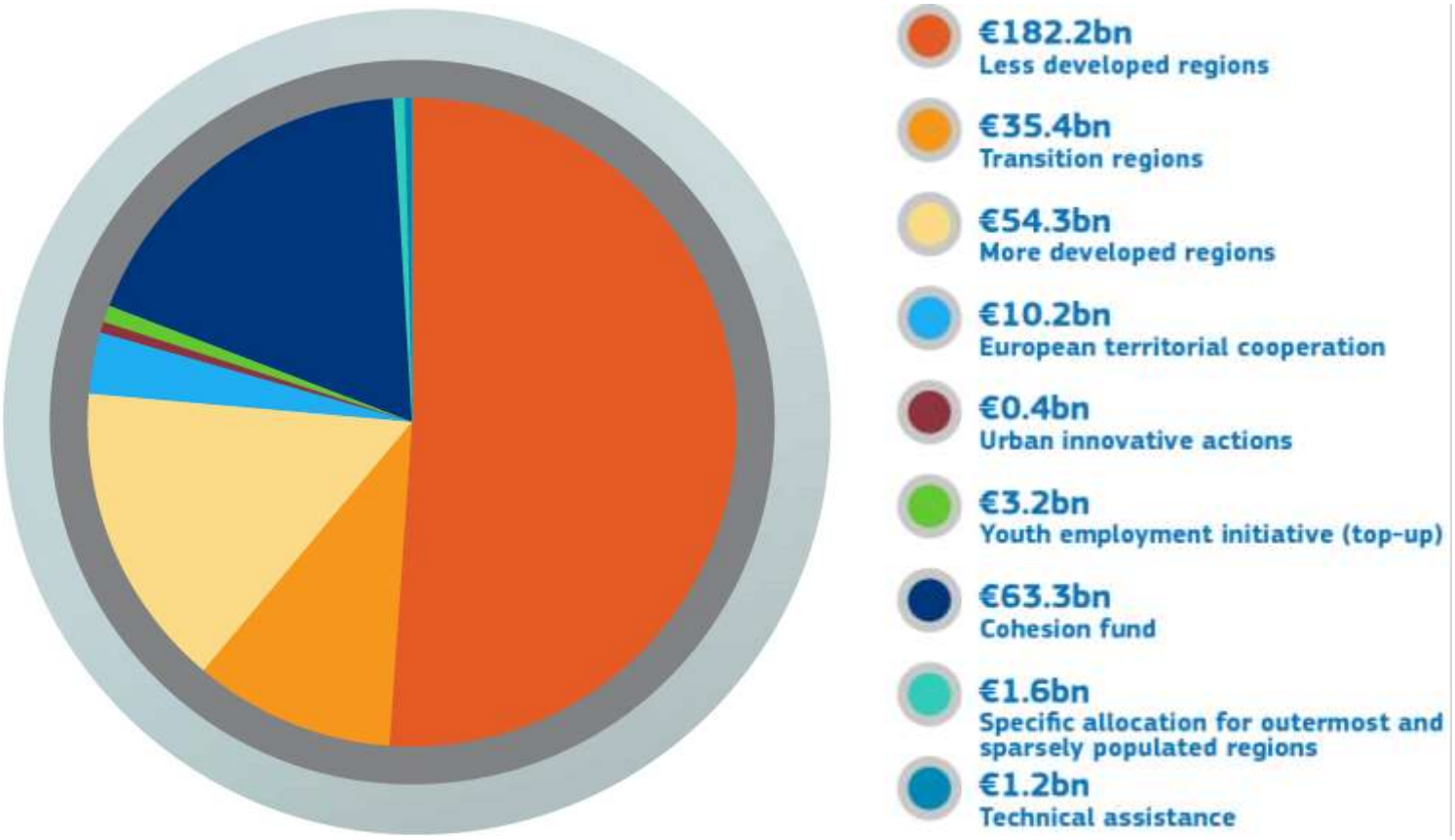
- Cohesion policy
- Rural development
- Urban agenda
- Sustainable Development Goals

Target areas

- NUTS level 2 regions
- Rural areas
- Cities

European Commission

Cohesion Policy Funding 2014-2020



Eurostat

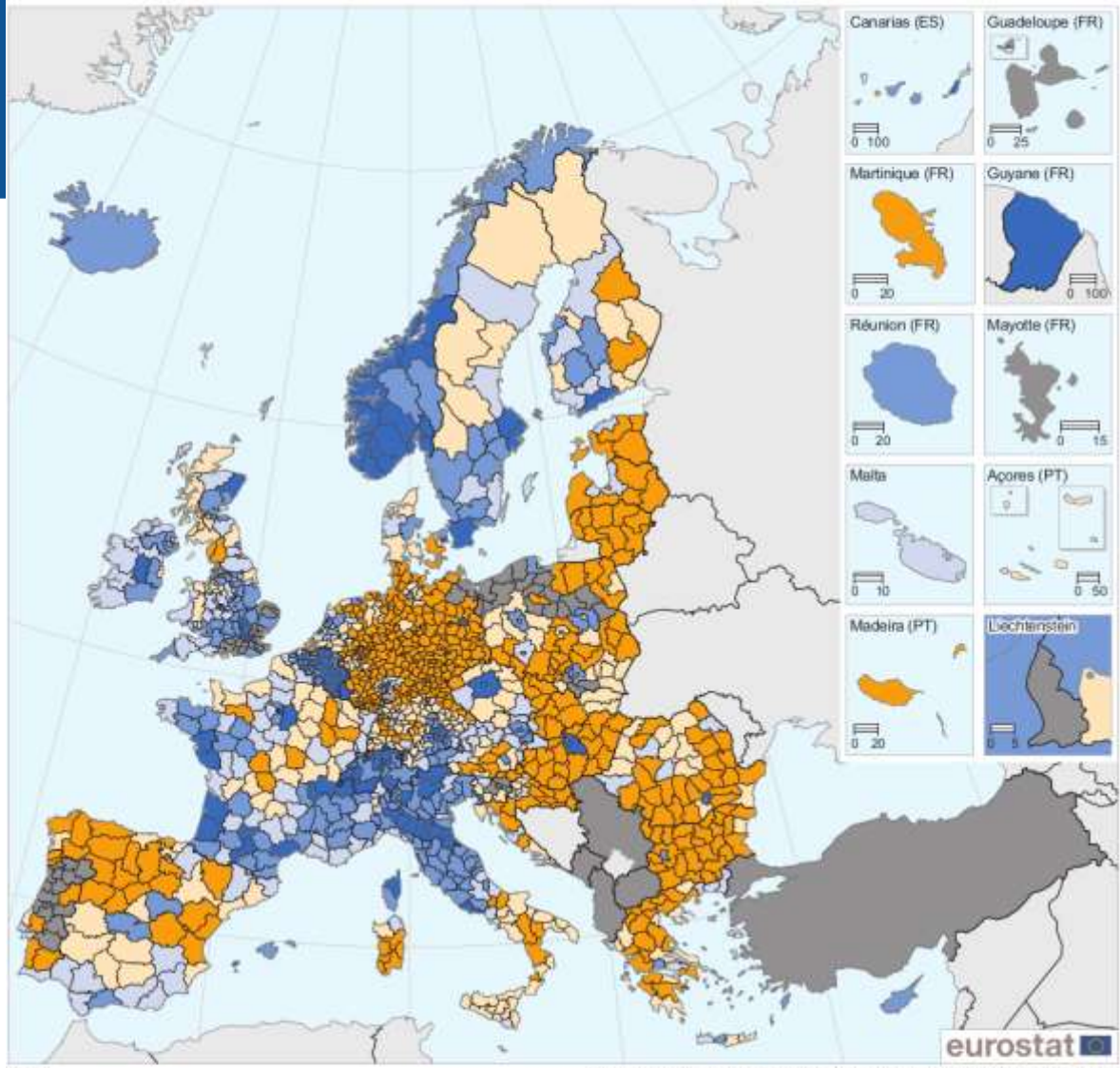
Regional statistics by NUTS regions

- Population
- Health
- Economy
- Education
- Labour market
- Structural business statistics
- Research and innovation
- Income and living conditions
- Digital economy and society
- Tourism
- Transport
- Agriculture

What's new?

- Population projections
- Timeliness: T+12 months, ESA 2010
- Business demography
- Improved coverage at NUTS level 2

Projected percentage change of the population, by NUTS 3 regions, 2015–50



(') EU-28, Ireland and France: provisional, Portugal, Romania and the United Kingdom: estimates, Attiki (Greece), Opolskie (Poland), London

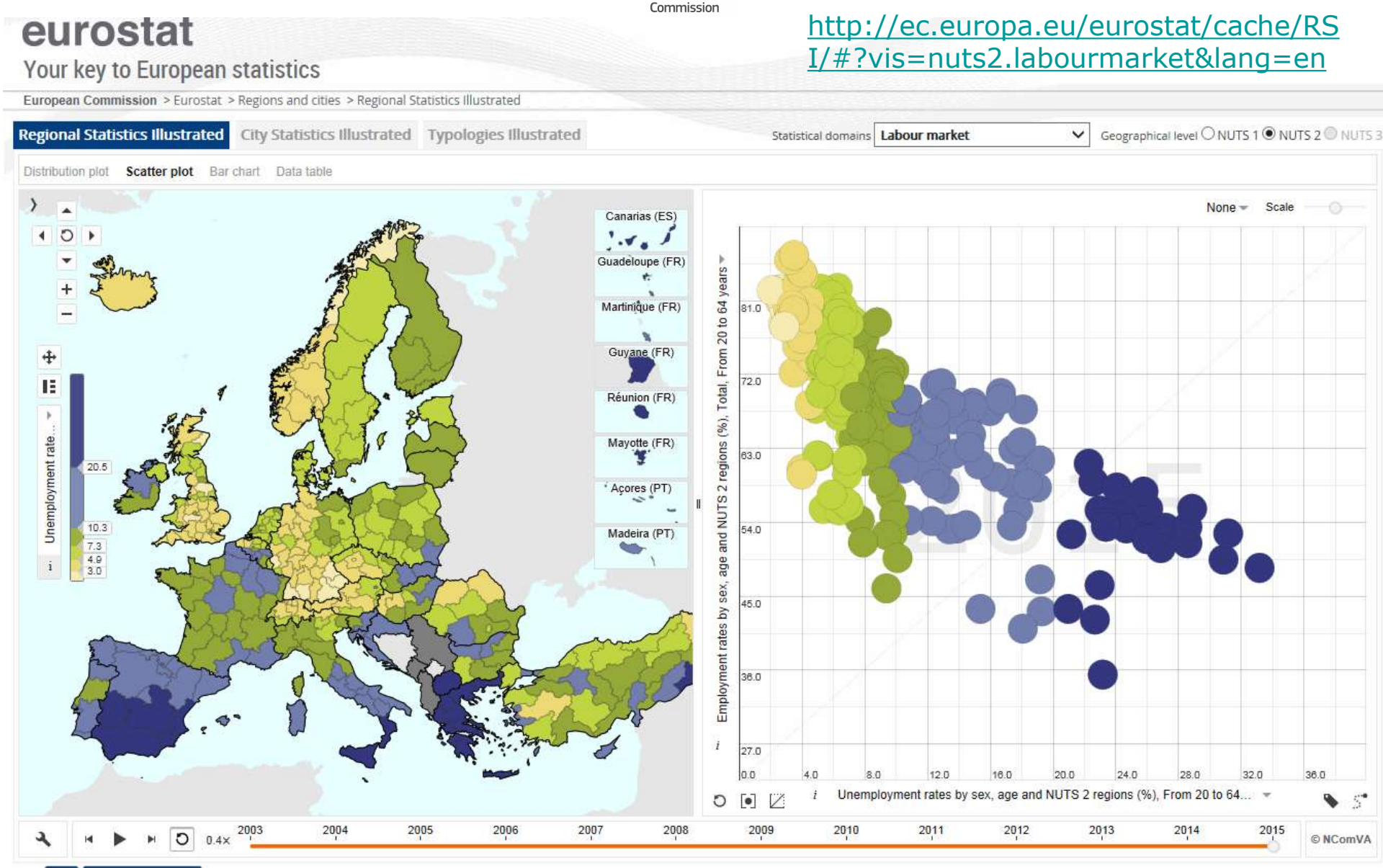
Source: Eurostat regional yearbook 2016

European Commission

eurostat

Your key to European statistics

http://ec.europa.eu/eurostat/cache/RSI/#?vis=nuts2.labourmarket&lang=en



European Commission

eurostat

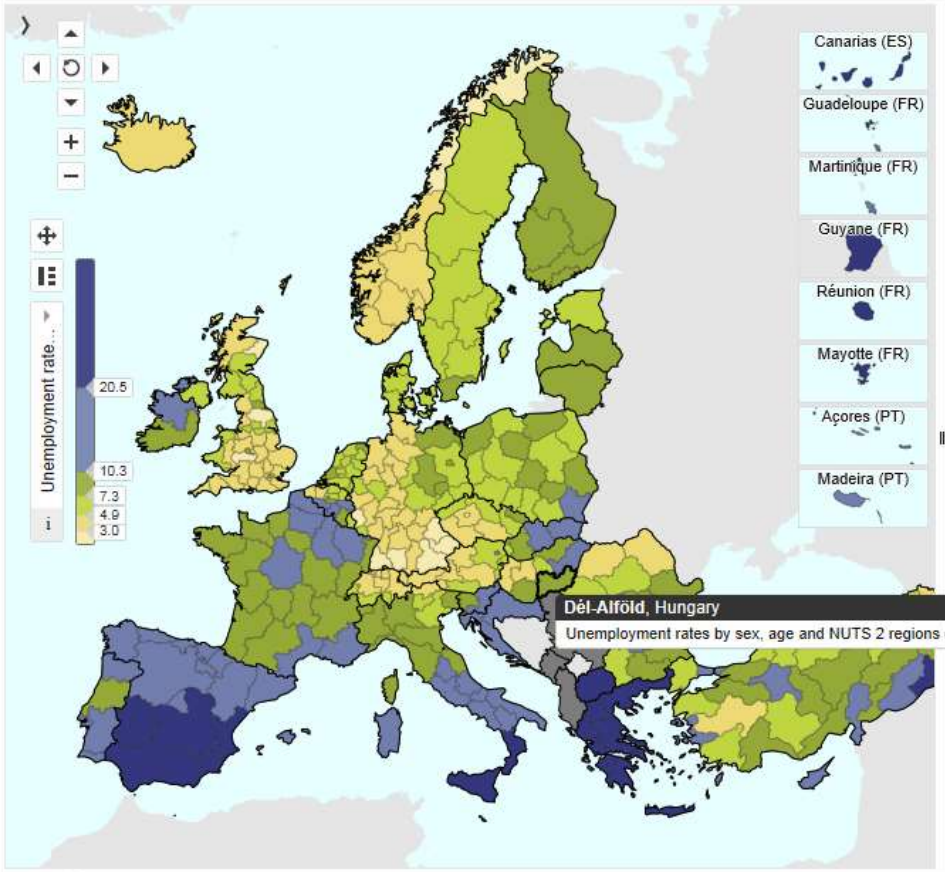
Your key to European statistics

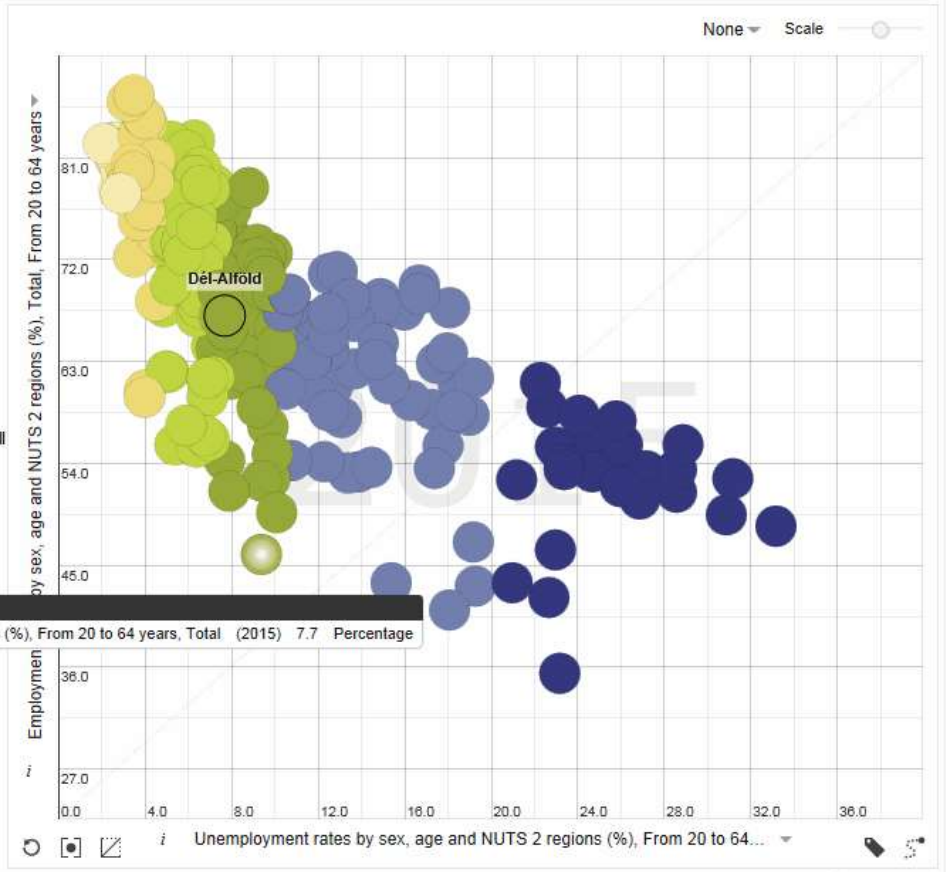
Administrative boundaries©EuroGeographics

Regional Statistics Illustrated | City Statistics Illustrated | Typologies Illustrated

Statistical domains: Labour market | Geographical level: NUTS 1 NUTS 2 NUTS 3

Distribution plot | Scatter plot | Bar chart | Data table





© NComVA

European Commission

eurostat

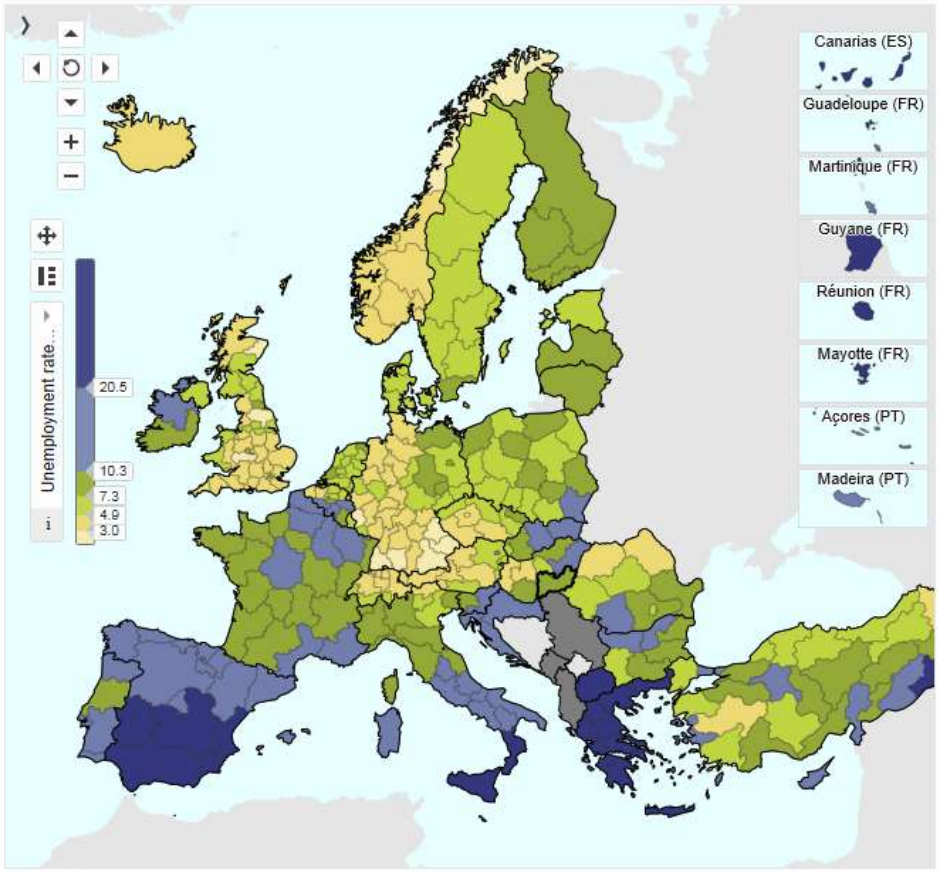
Your key to European statistics

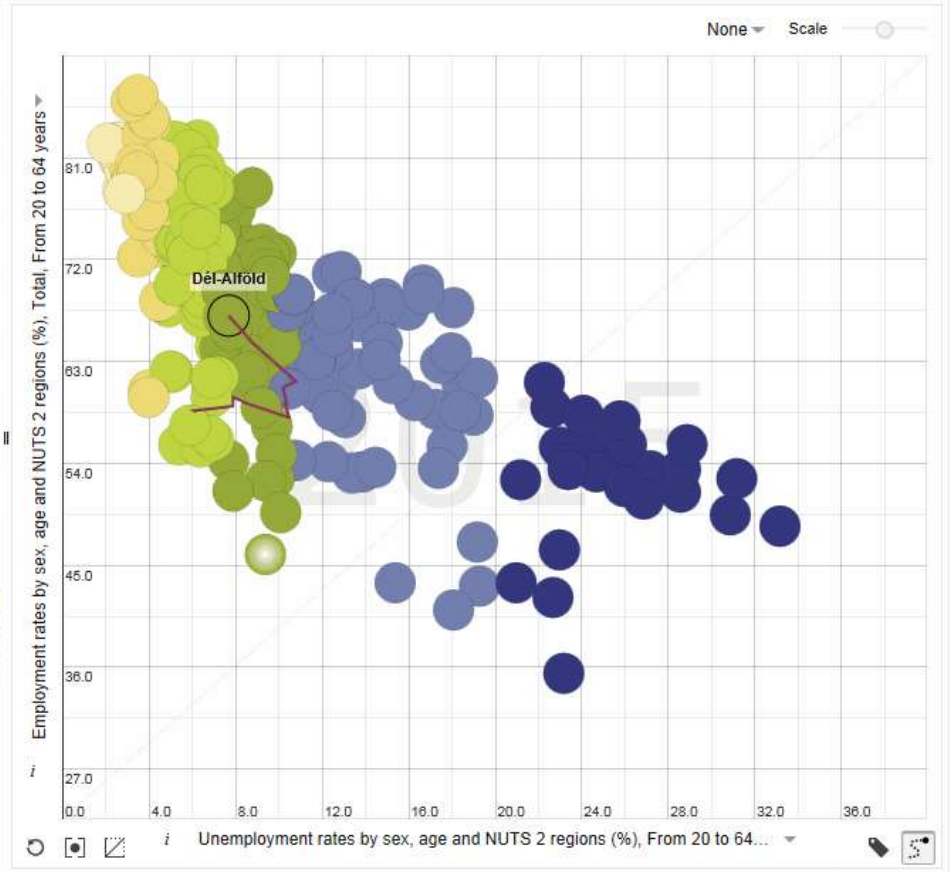
Administrative boundaries©EuroGeographics

Regional Statistics Illustrated | City Statistics Illustrated | Typologies Illustrated

Statistical domains: Labour market | Geographical level: NUTS 1 NUTS 2 NUTS 3

Distribution plot | Scatter plot | Bar chart | Data table





0.4× 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

© NComVA

European Commission

eurostat

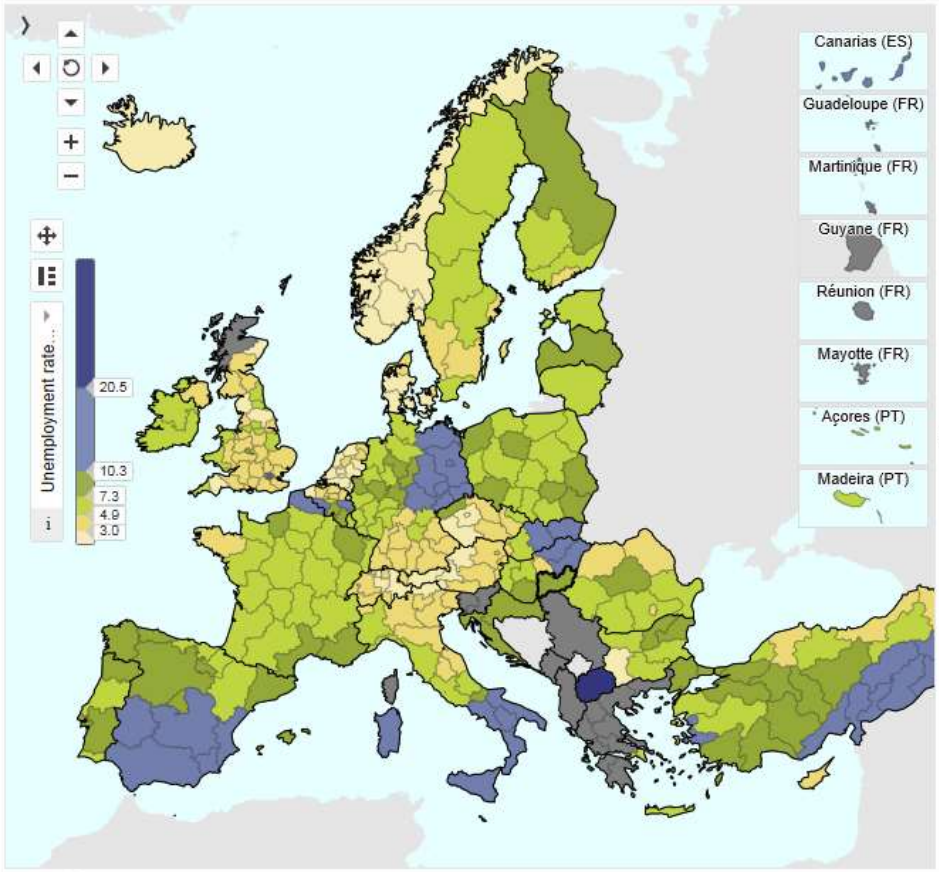
Your key to European statistics

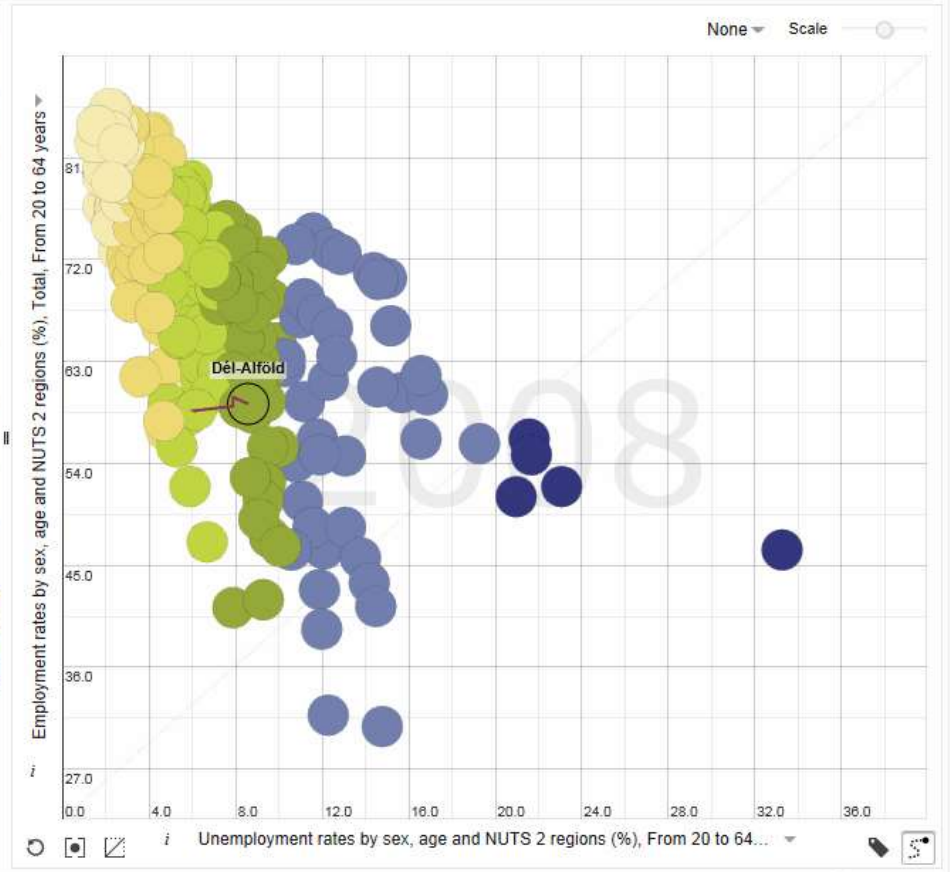
Administrative boundaries©EuroGeographics

Regional Statistics Illustrated | City Statistics Illustrated | Typologies Illustrated

Statistical domains: Labour market | Geographical level: NUTS 1 NUTS 2 NUTS 3

Distribution plot | Scatter plot | Bar chart | Data table





0.4× 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

© NComVA

European Commission

eurostat

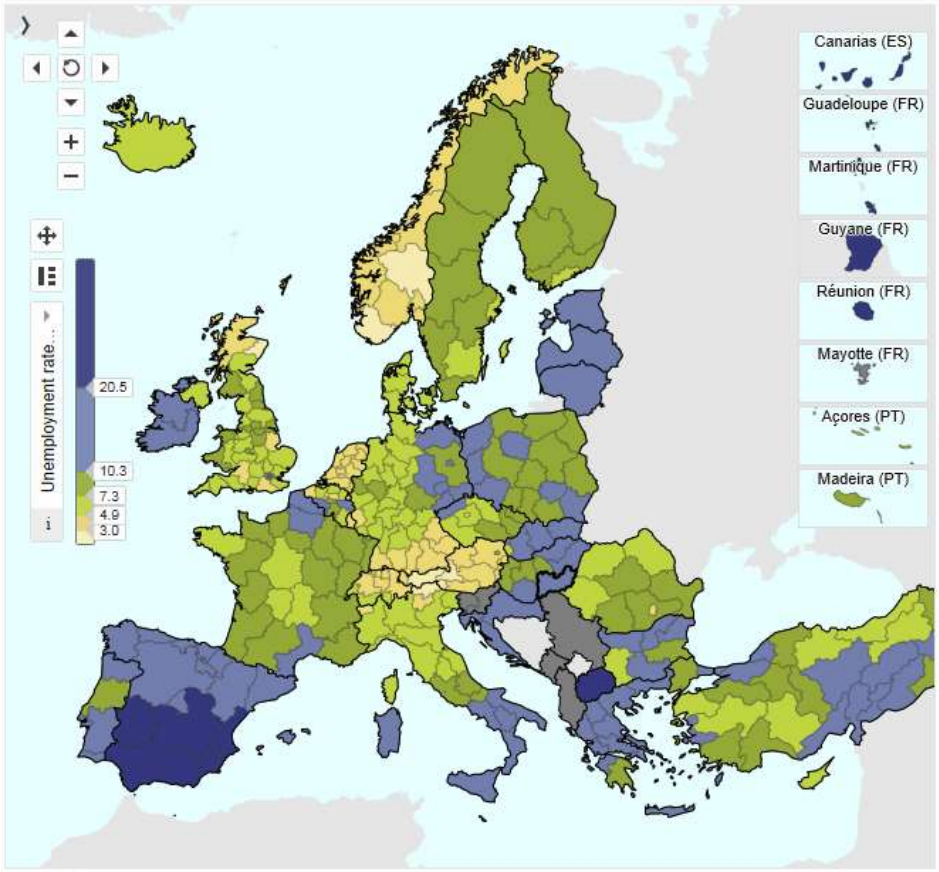
Your key to European statistics

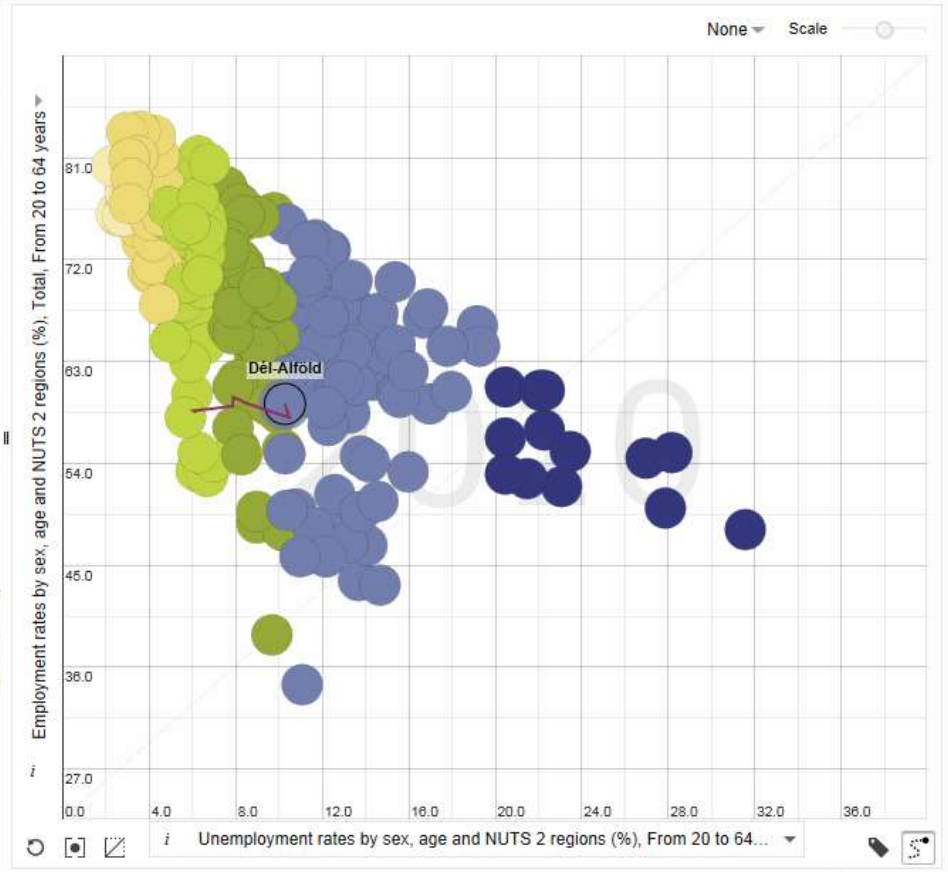
Administrative boundaries©EuroGeographics

Regional Statistics Illustrated | City Statistics Illustrated | Typologies Illustrated

Statistical domains: Labour market | Geographical level: NUTS 1 NUTS 2 NUTS 3

Distribution plot | Scatter plot | Bar chart | Data table





European Commission

eurostat

Your key to European statistics

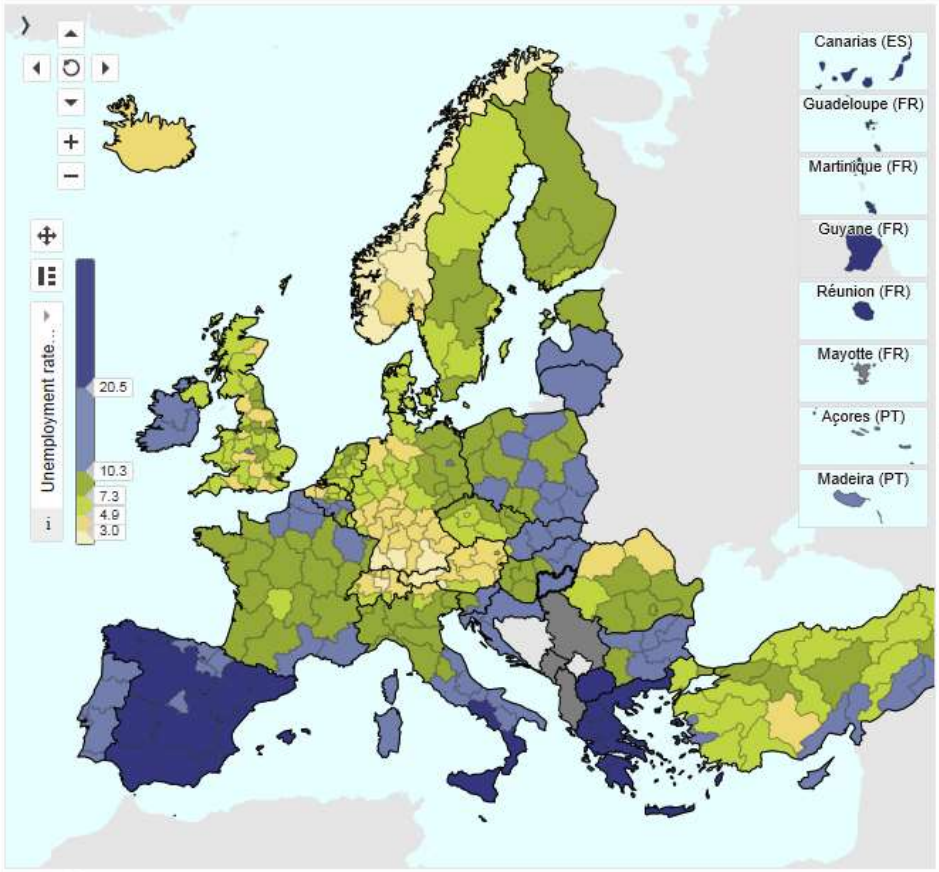
Administrative boundaries©EuroGeographics

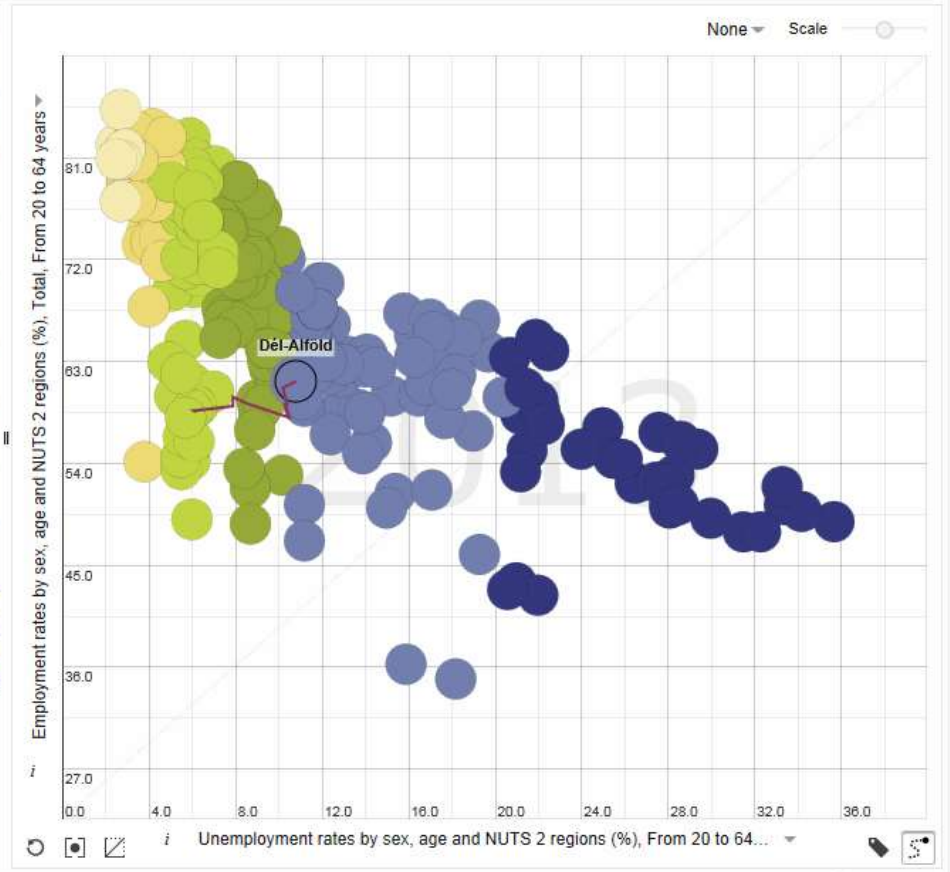
European Commission > Eurostat > Regions and cities > Regional Statistics Illustrated

Regional Statistics Illustrated | City Statistics Illustrated | Typologies Illustrated

Statistical domains: Labour market | Geographical level: NUTS 1 NUTS 2 NUTS 3

Distribution plot | Scatter plot | Bar chart | Data table





0.4× 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

© NComVA

European Commission

eurostat

Your key to European statistics

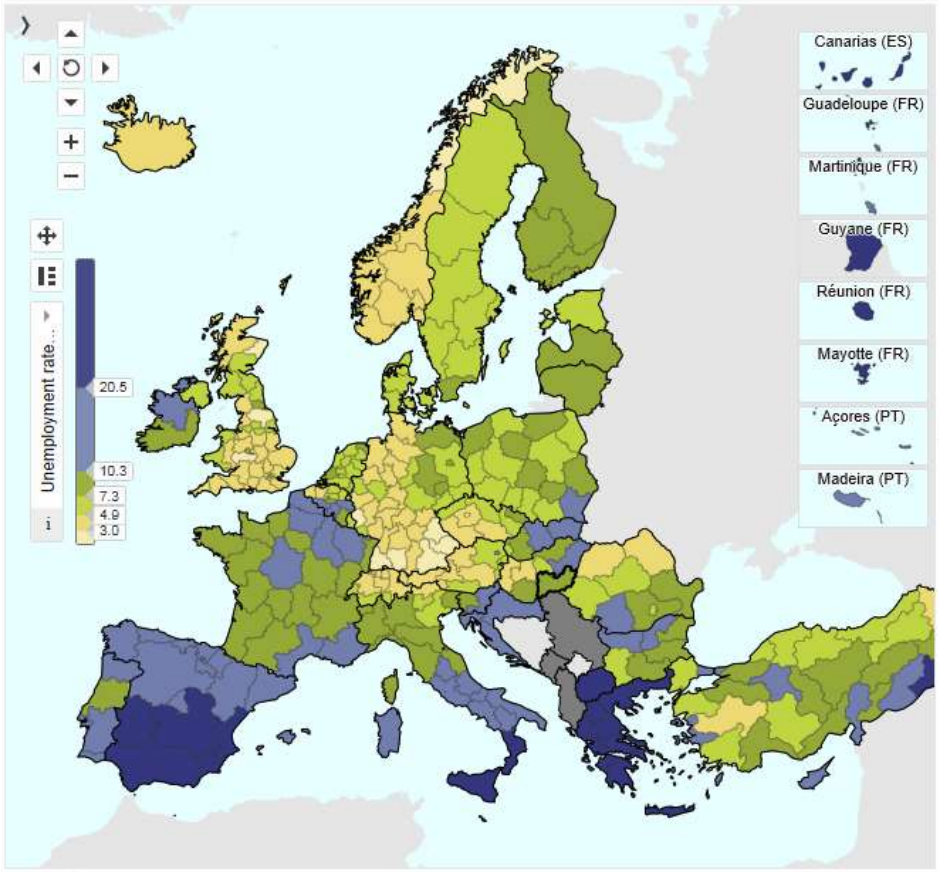
Administrative boundaries©EuroGeographics

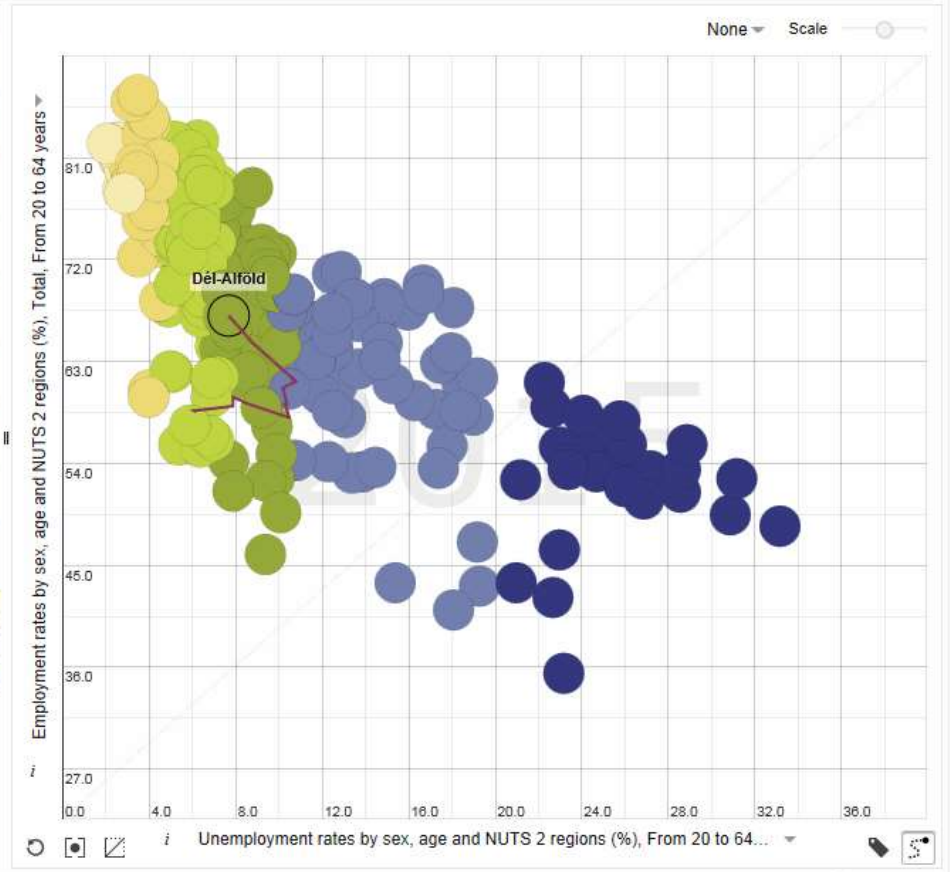
European Commission > Eurostat > Regions and cities > Regional Statistics Illustrated

Regional Statistics Illustrated | City Statistics Illustrated | Typologies Illustrated

Statistical domains: Labour market | Geographical level: NUTS 1 NUTS 2 NUTS 3

Distribution plot | Scatter plot | Bar chart | Data table





0.4x 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

© NComVA

European Commission

eurostat

Your key to European statistics

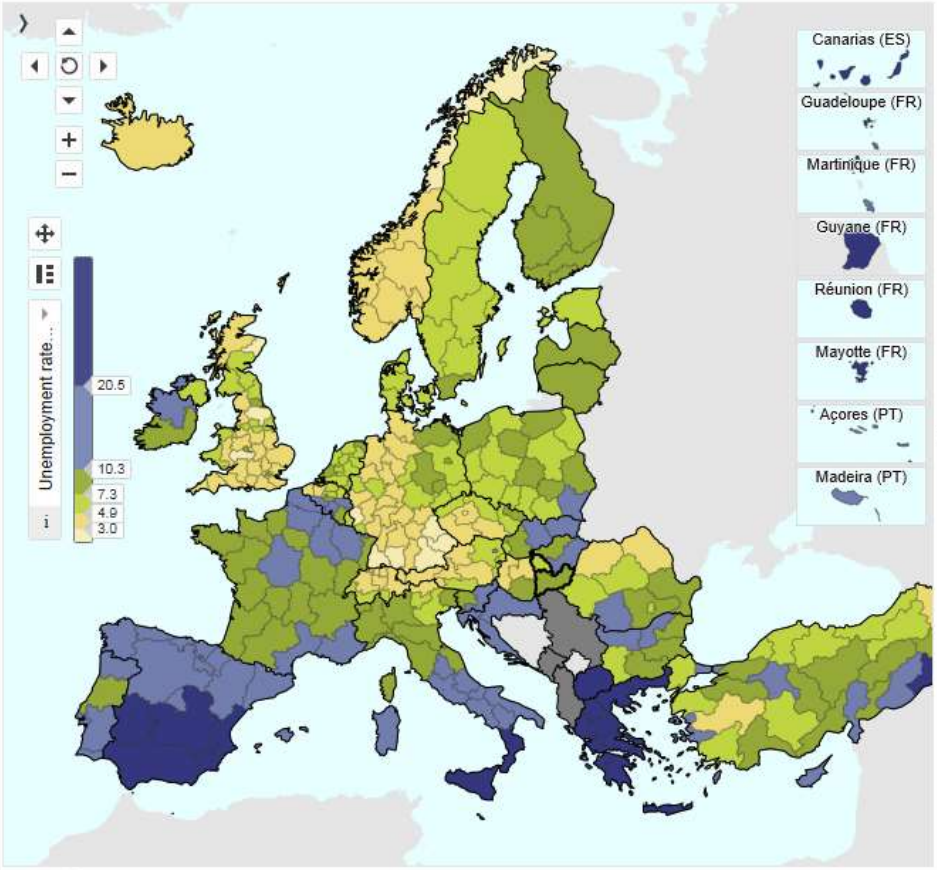
Administrative boundaries©EuroGeographics

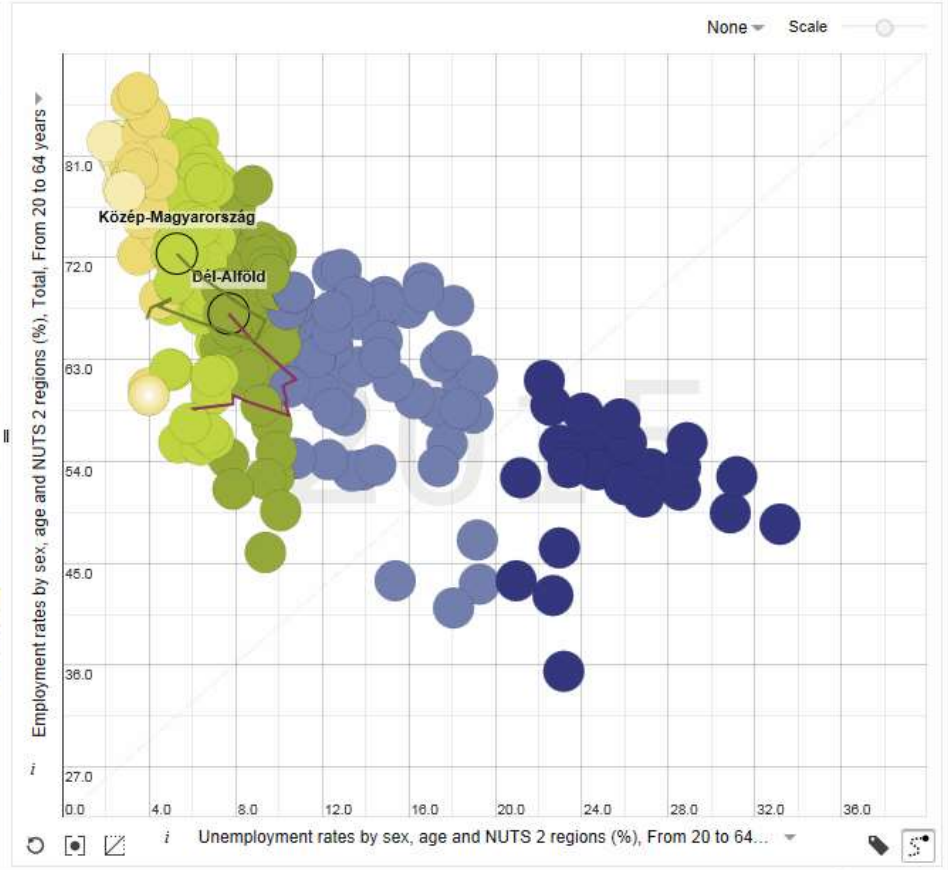
European Commission > Eurostat > Regions and cities > Regional Statistics Illustrated

Regional Statistics Illustrated | City Statistics Illustrated | Typologies Illustrated

Statistical domains: Labour market | Geographical level: NUTS 1 NUTS 2 NUTS 3

Distribution plot | Scatter plot | Bar chart | Data table





0.4× 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

© NComVA

European Commission

eurostat

Your key to European statistics

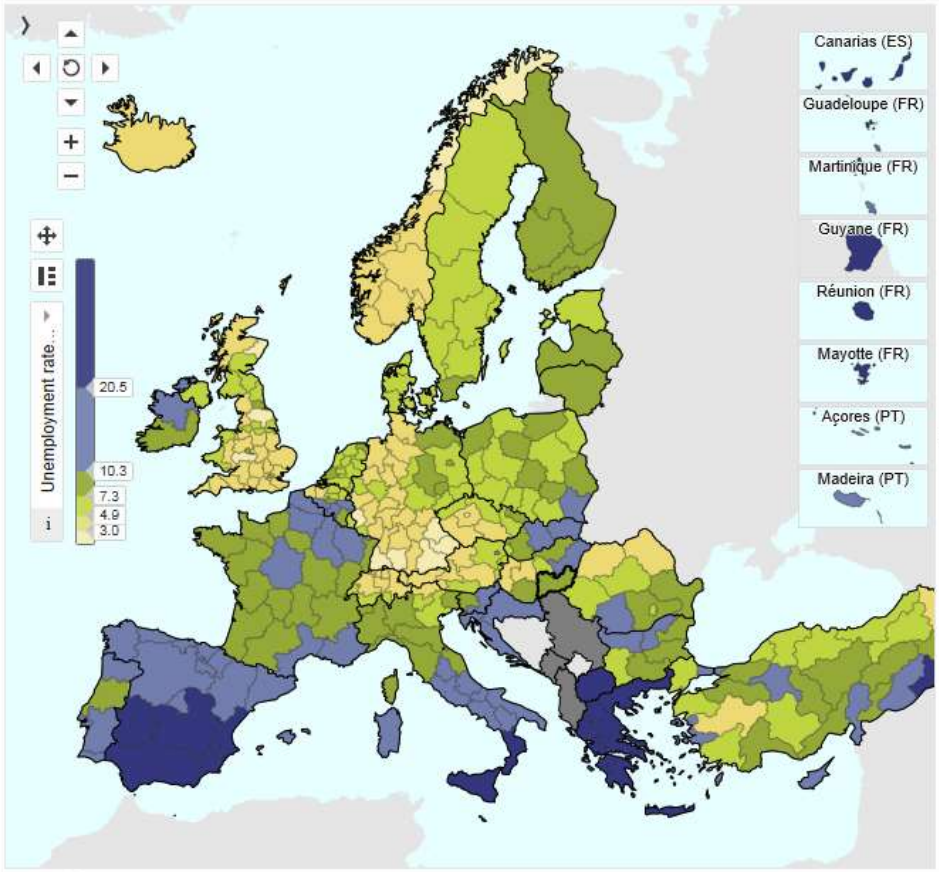
Administrative boundaries©EuroGeographics

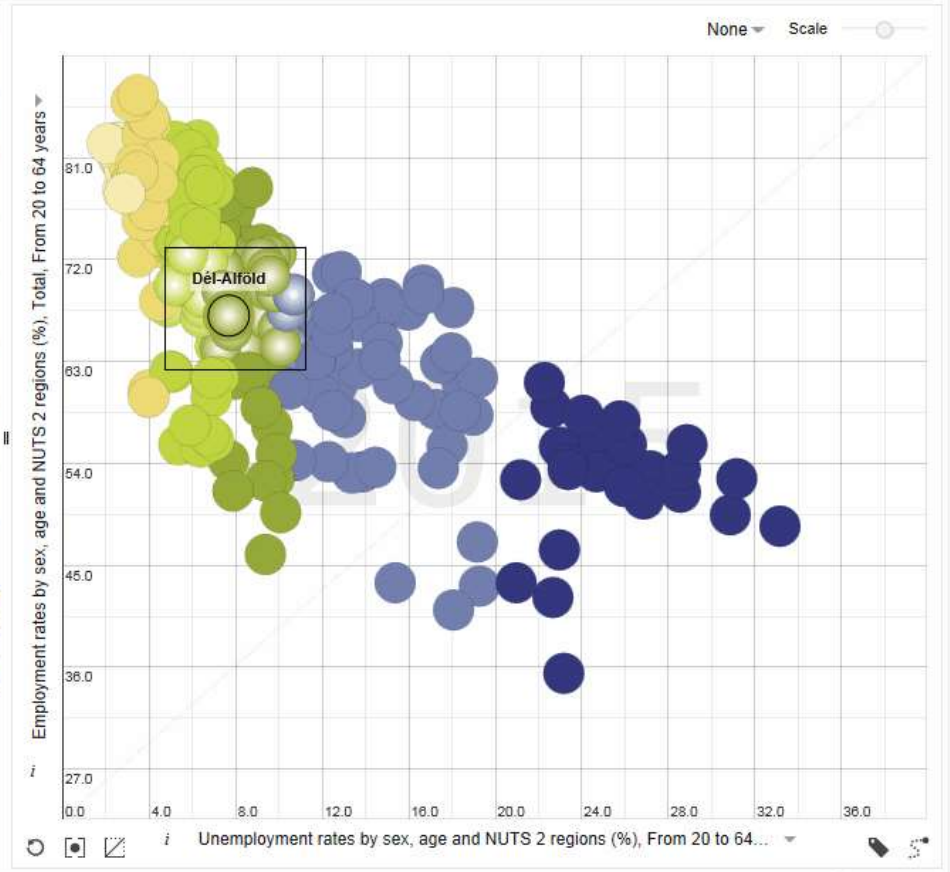
Regional Statistics Illustrated | City Statistics Illustrated | Typologies Illustrated

Statistical domains: Labour market

Geographical level: NUTS 1 | NUTS 2 | NUTS 3

Distribution plot | Scatter plot | Bar chart | Data table





European Commission

eurostat

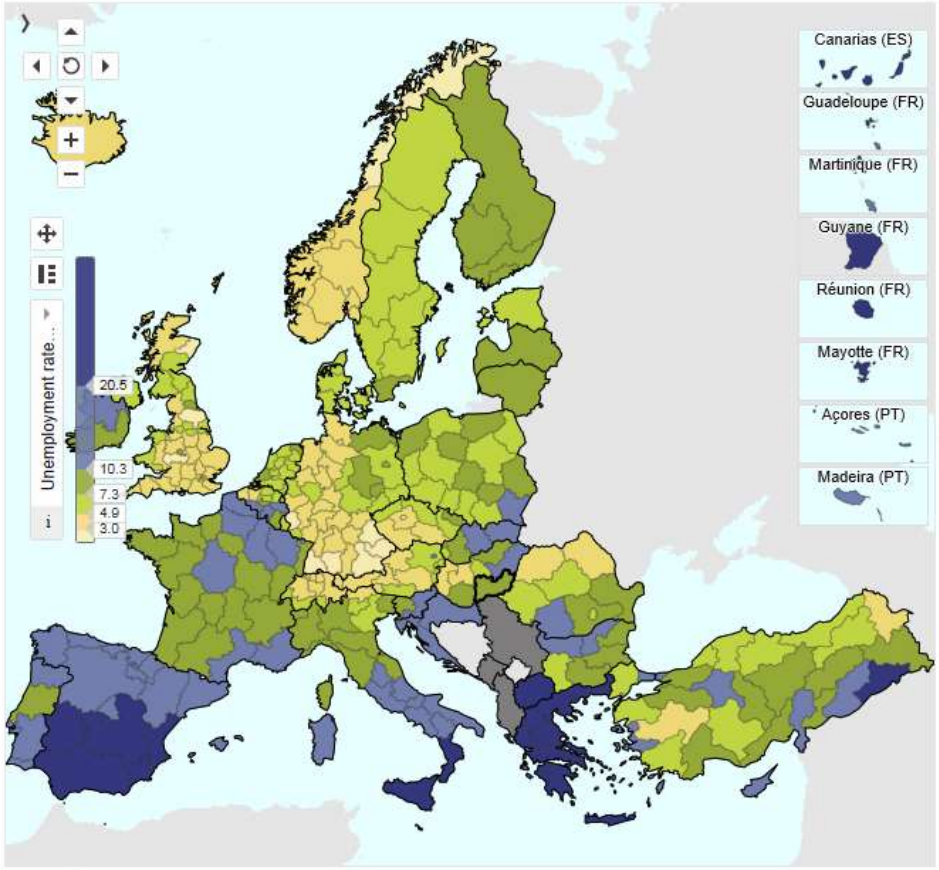
Your key to European statistics

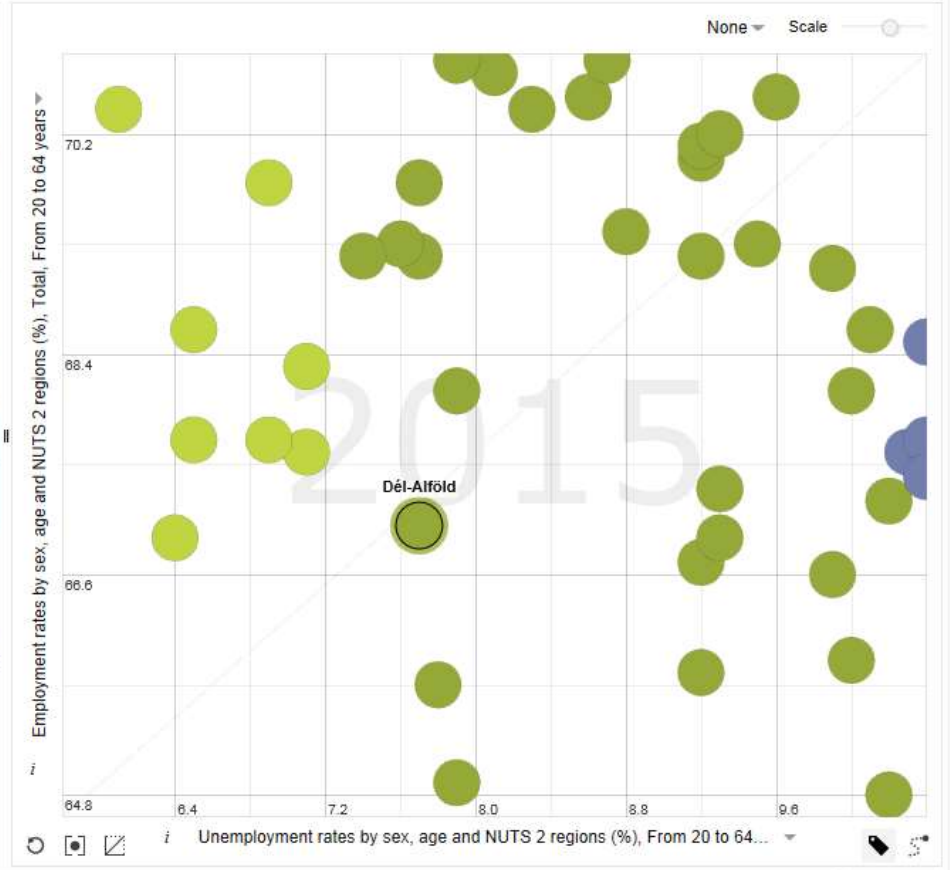
Administrative boundaries©EuroGeographics

Regional Statistics Illustrated | City Statistics Illustrated | Typologies Illustrated

Statistical domains: Labour market | Geographical level: NUTS 1 NUTS 2 NUTS 3

Distribution plot | Scatter plot | Bar chart | Data table





0.4× 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

© NComVA

European Commission

eurostat

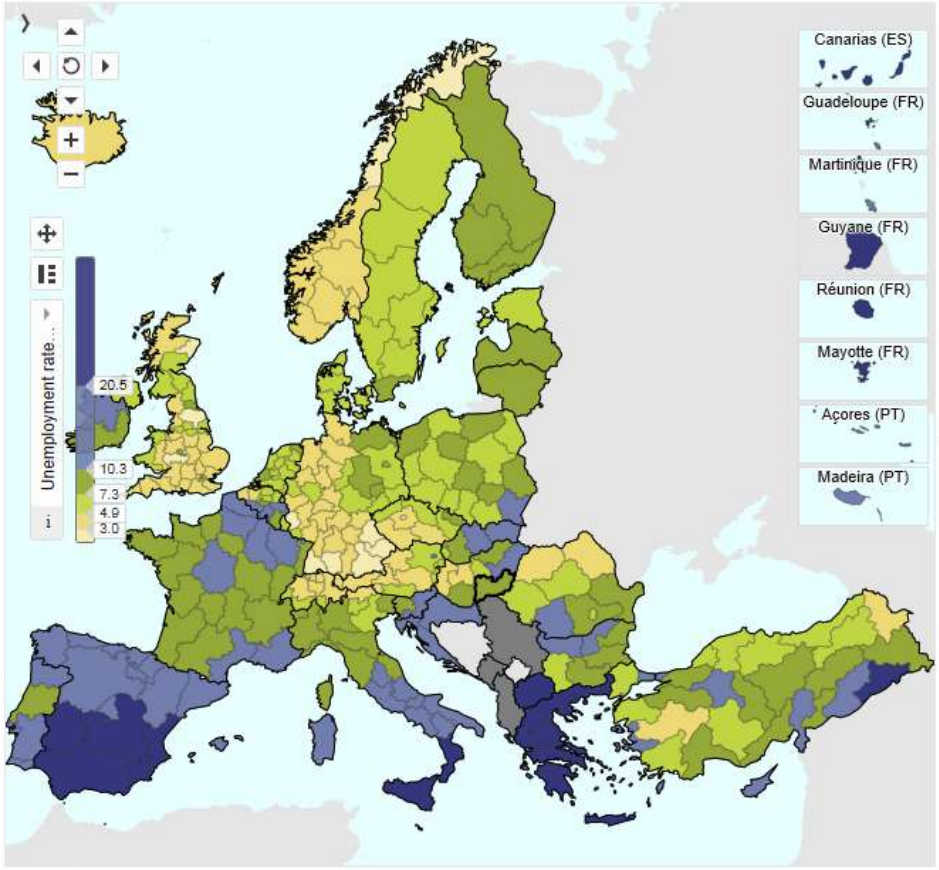
Your key to European statistics

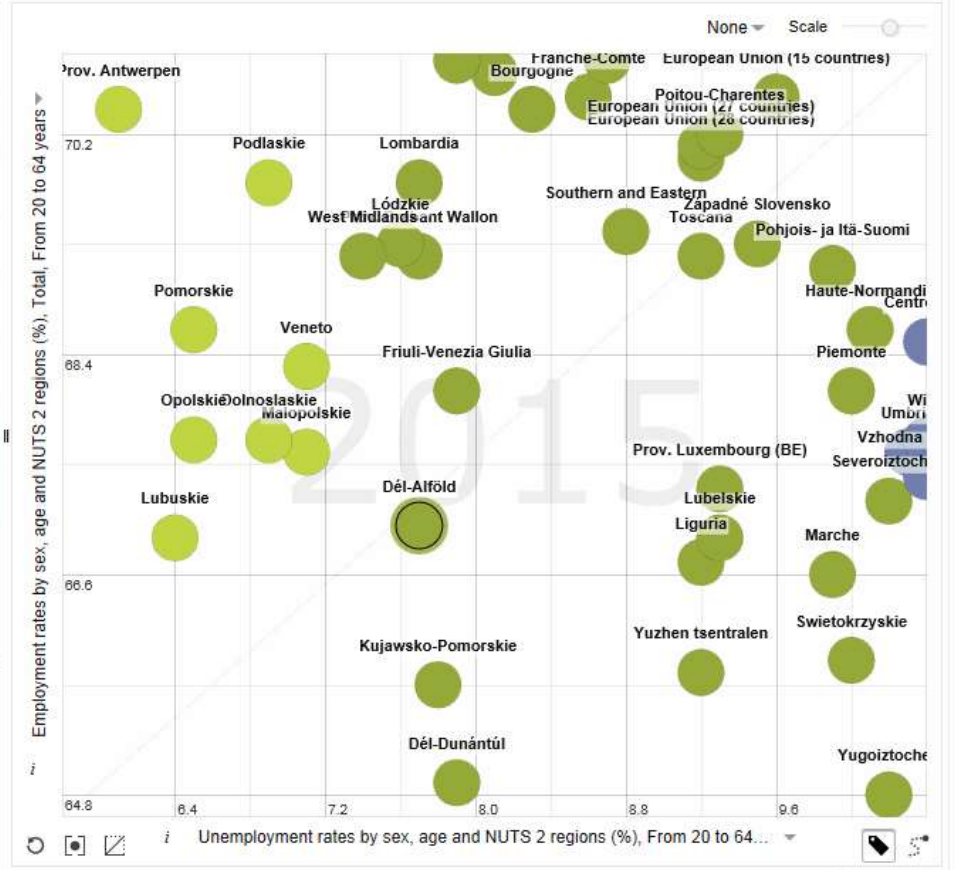
Administrative boundaries©EuroGeographics

Regional Statistics Illustrated | City Statistics Illustrated | Typologies Illustrated

Statistical domains: Labour market | Geographical level: NUTS 1 / NUTS 2 / NUTS 3

Distribution plot | **Scatter plot** | Bar chart | Data table





0.4x 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

© NComVA

European Commission

eurostat

Your key to European statistics

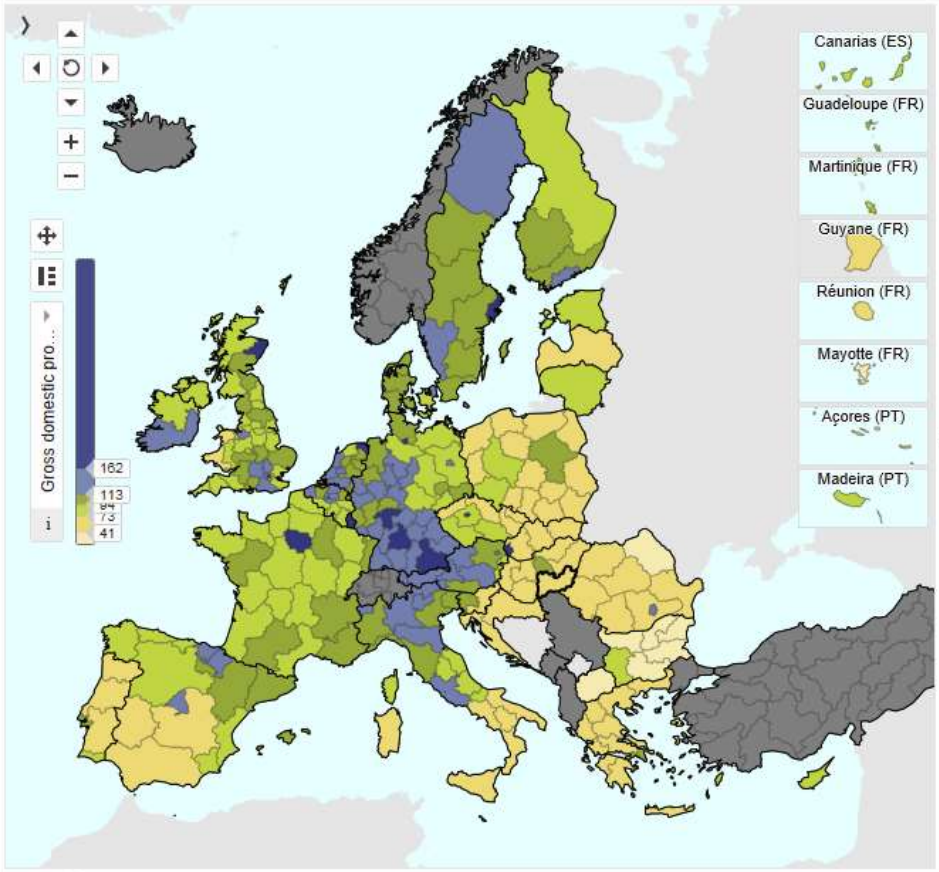
Administrative boundaries©EuroGeographics

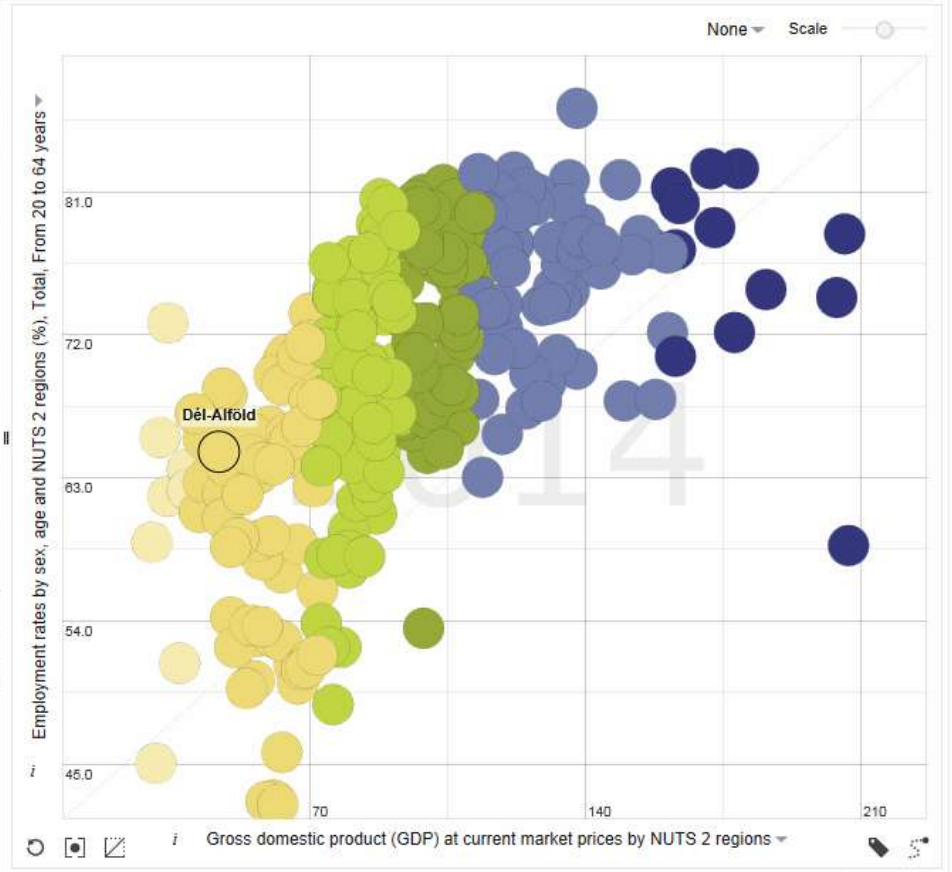
European Commission > Eurostat > Regions and cities > Regional Statistics Illustrated

Regional Statistics Illustrated | City Statistics Illustrated | Typologies Illustrated

Statistical domains: **Labour market** | Geographical level: NUTS 1 / NUTS 2 / NUTS 3

Distribution plot | **Scatter plot** | Bar chart | Data table





0.4× 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

© NComVA

European Commission

eurostat

Your key to European statistics

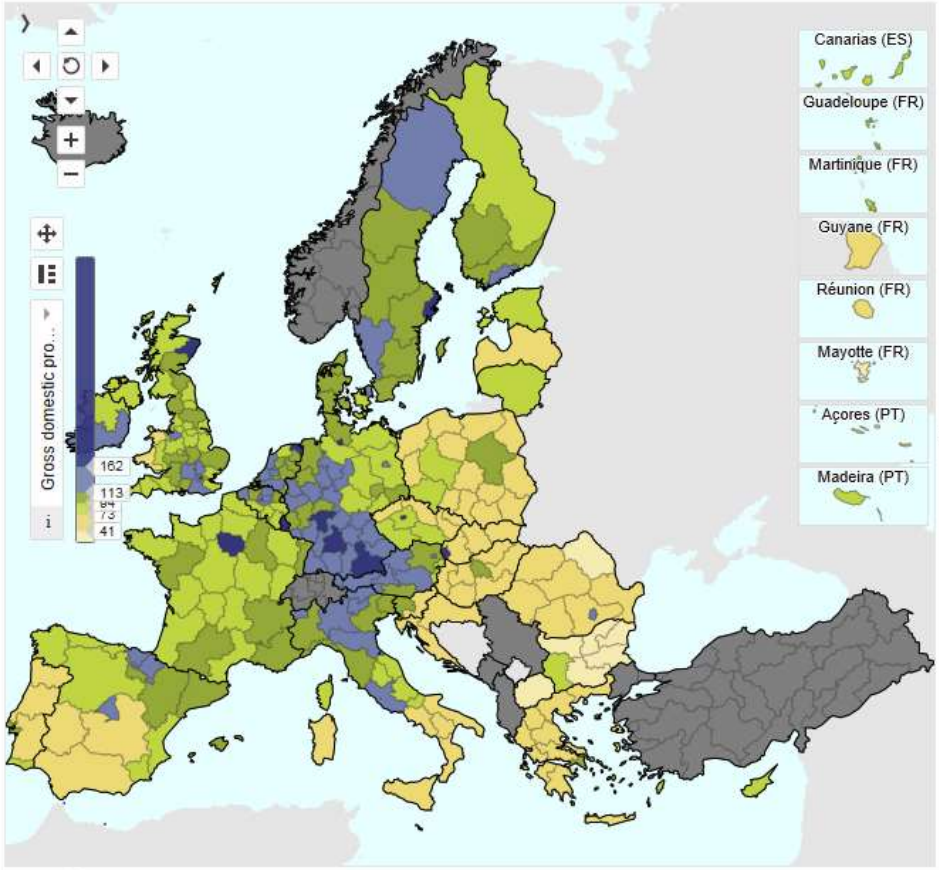
Administrative boundaries©EuroGeographics

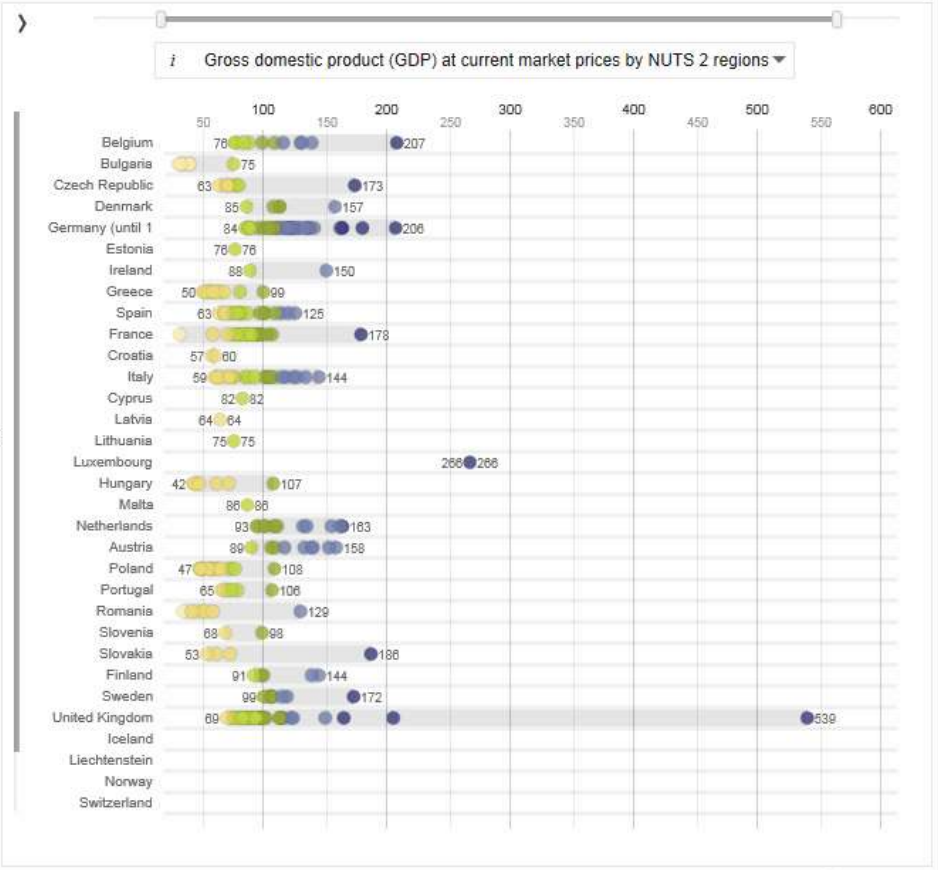
Regional Statistics Illustrated | City Statistics Illustrated | Typologies Illustrated

Statistical domains: **Labour market**

Geographical level: ○ NUTS 1 ◉ NUTS 2 ○ NUTS 3

Distribution plot | Scatter plot | Bar chart | Data table





0.4× 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

© NComVA

European Commission

eurostat

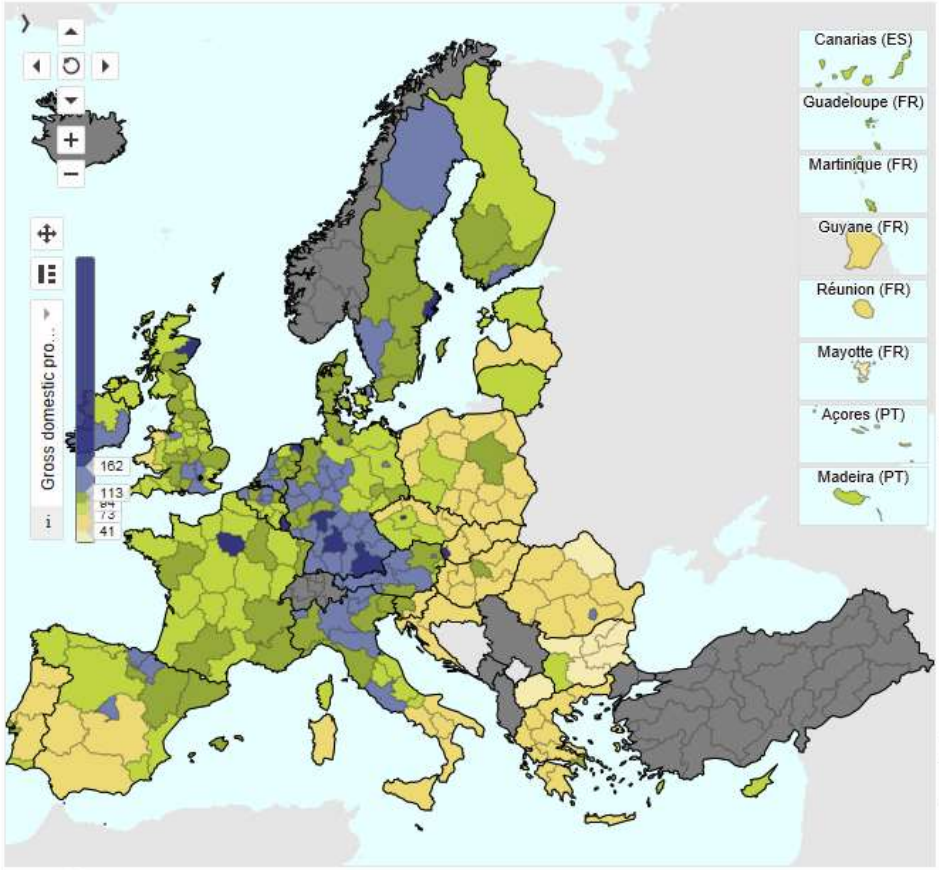
Your key to European statistics

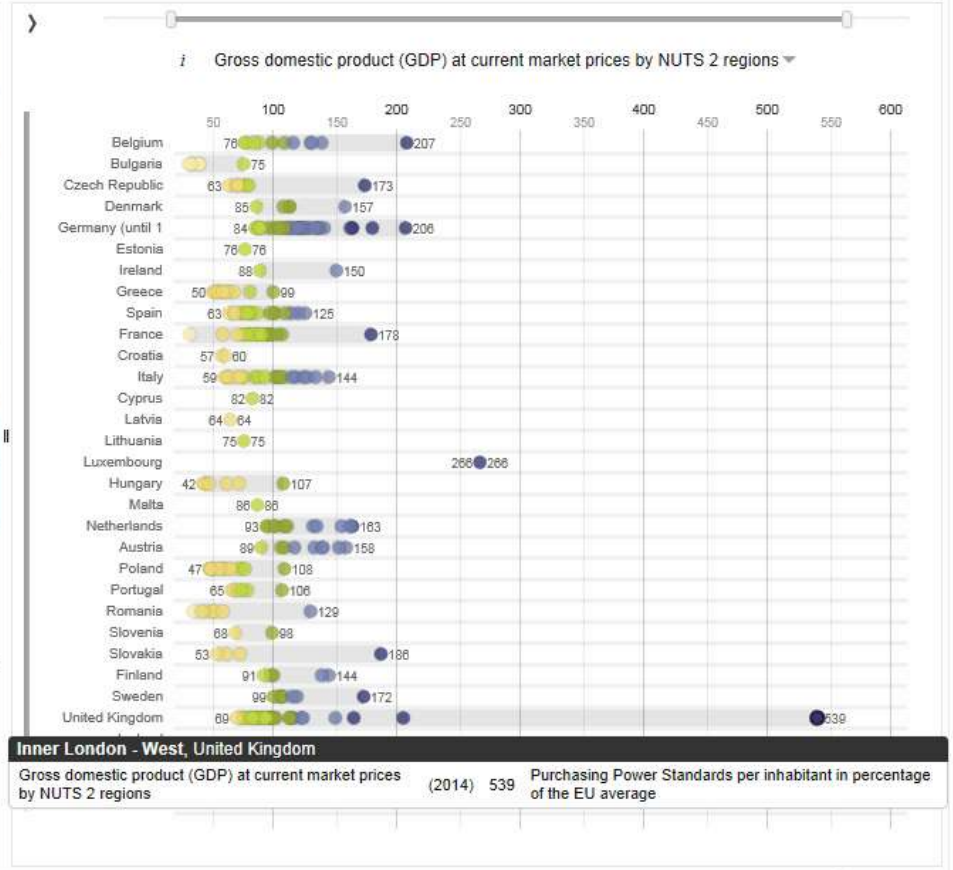
Administrative boundaries©EuroGeographics

Regional Statistics Illustrated | City Statistics Illustrated | Typologies Illustrated

Statistical domains: **Labour market** | Geographical level: NUTS 1 / NUTS 2 / NUTS 3

Distribution plot | Scatter plot | Bar chart | Data table

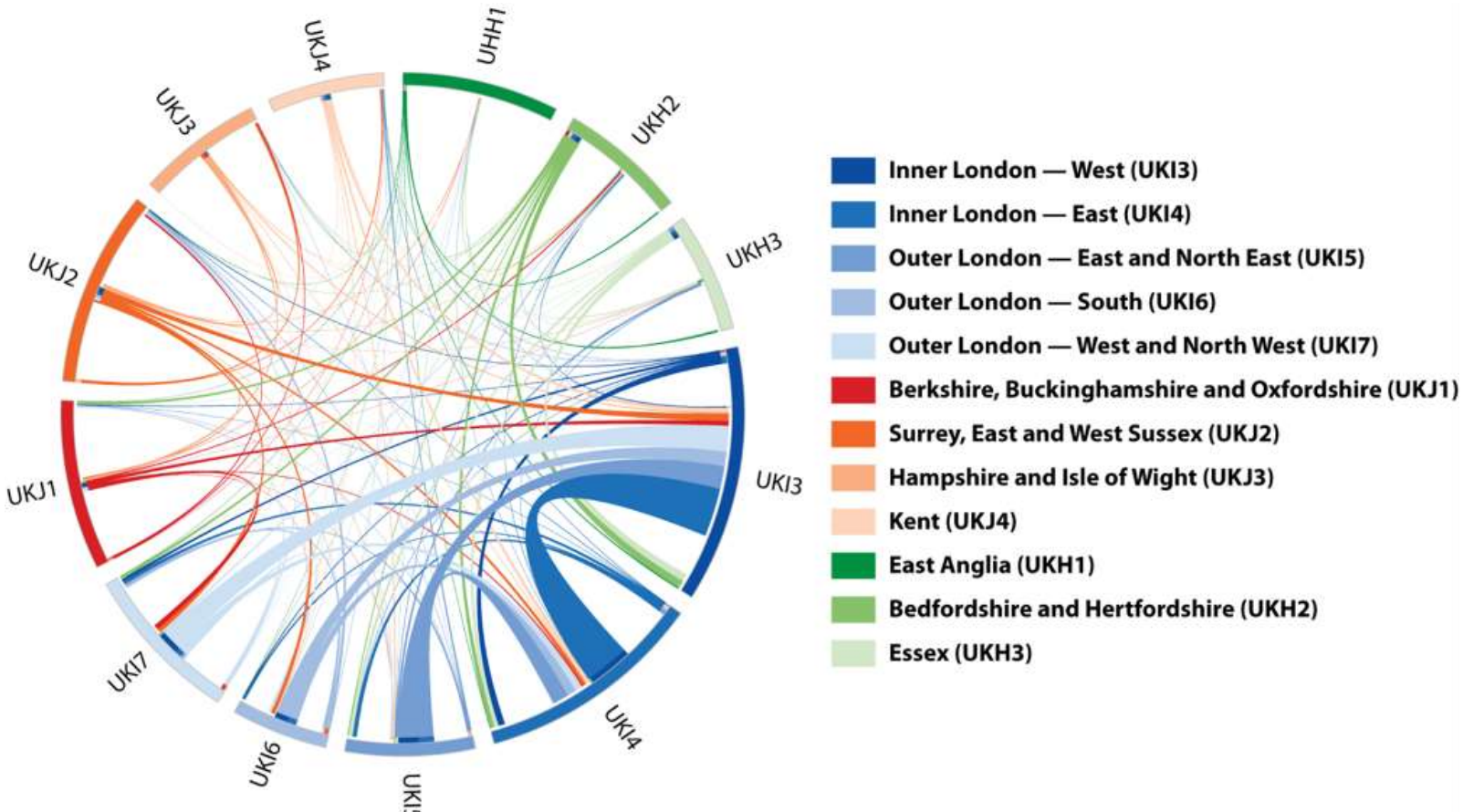




0.4× 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

© NComVA

Commuter flows of London



European Statistics meet the needs of users

Policies

- Cohesion policy
- Rural development
- Urban agenda
- Sustainable Development Goals

Target areas

- NUTS level 2 regions
- Rural areas
- Cities

Learning from the ex-post assessments of the past

Location of RD investments in a representative sample of 300 EAGGF projects

Sample population	Ex-objective 5b		ESPON typology			National definition			OECD typology		
	No	Yes	Urban	Medium	Rural	Urban	Medium	Rural	Urban	Medium	Rural
Regions outside Objective 1	55 %	45 %	47 %	29 %	25 %	44 %	7 %	49 %	29 %	38 %	33 %
Objective 1 regions	n/a	n/a	21 %	53 %	26 %	22 %	2 %	76 %	9 %	43 %	48 %

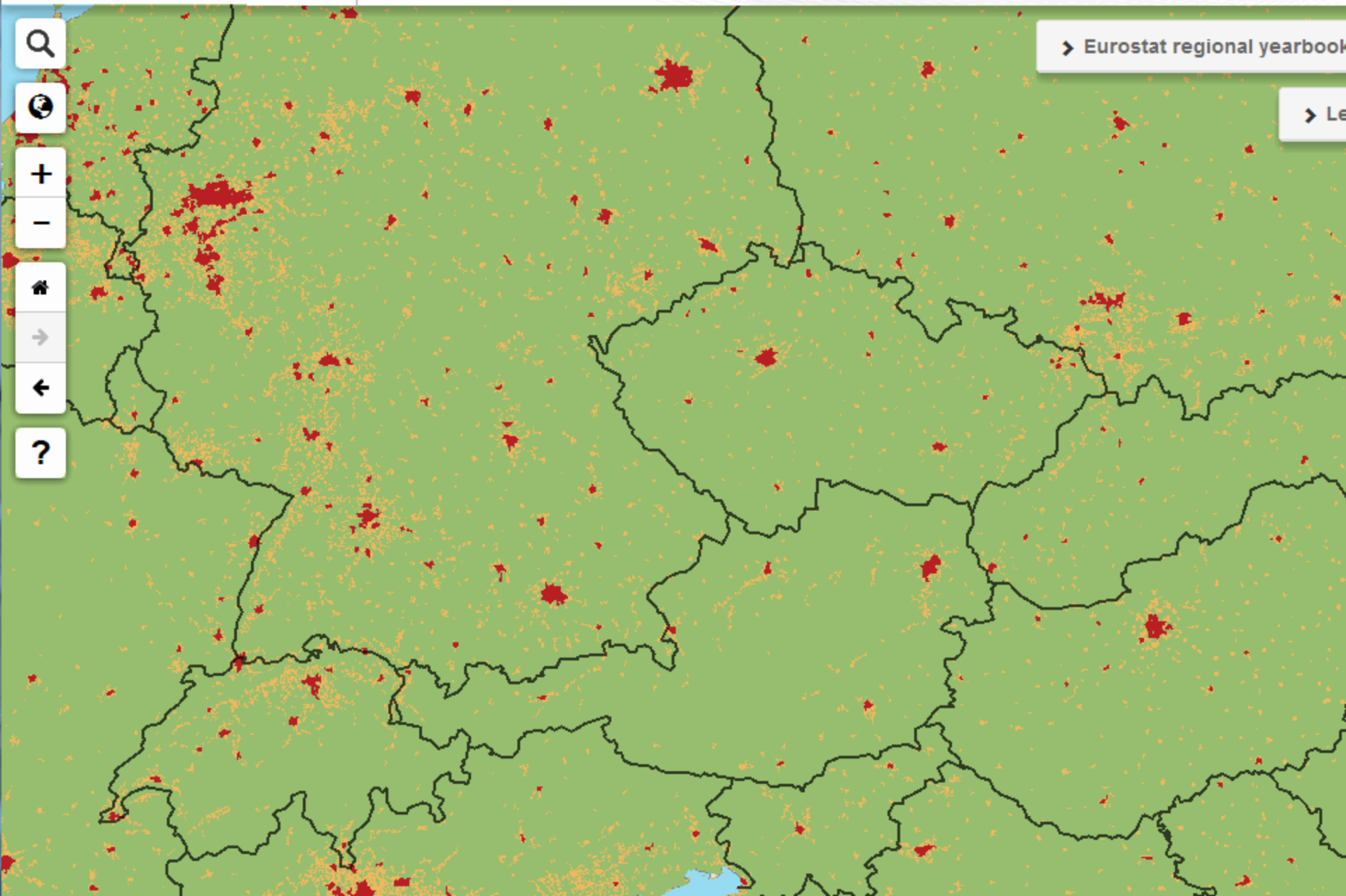
Source: SPECIAL REPORT No 7/2006 concerning rural development investments: do they effectively address the problems of rural areas?

eurostat

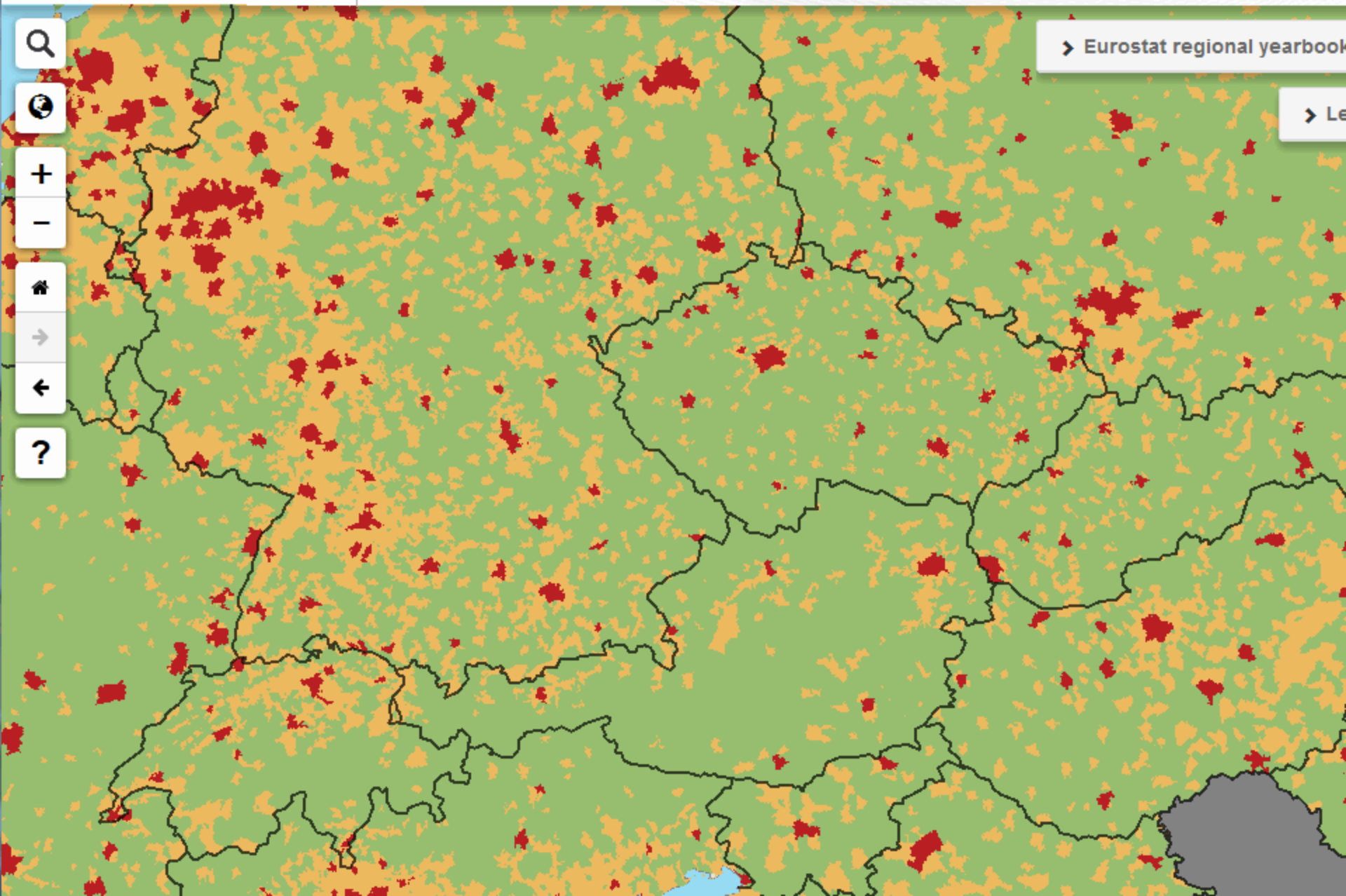
Statistical Atlas
Eurostat regional yearbook 2016

http://ec.europa.eu/eurostat/statistical-atlas/gis/viewer/#

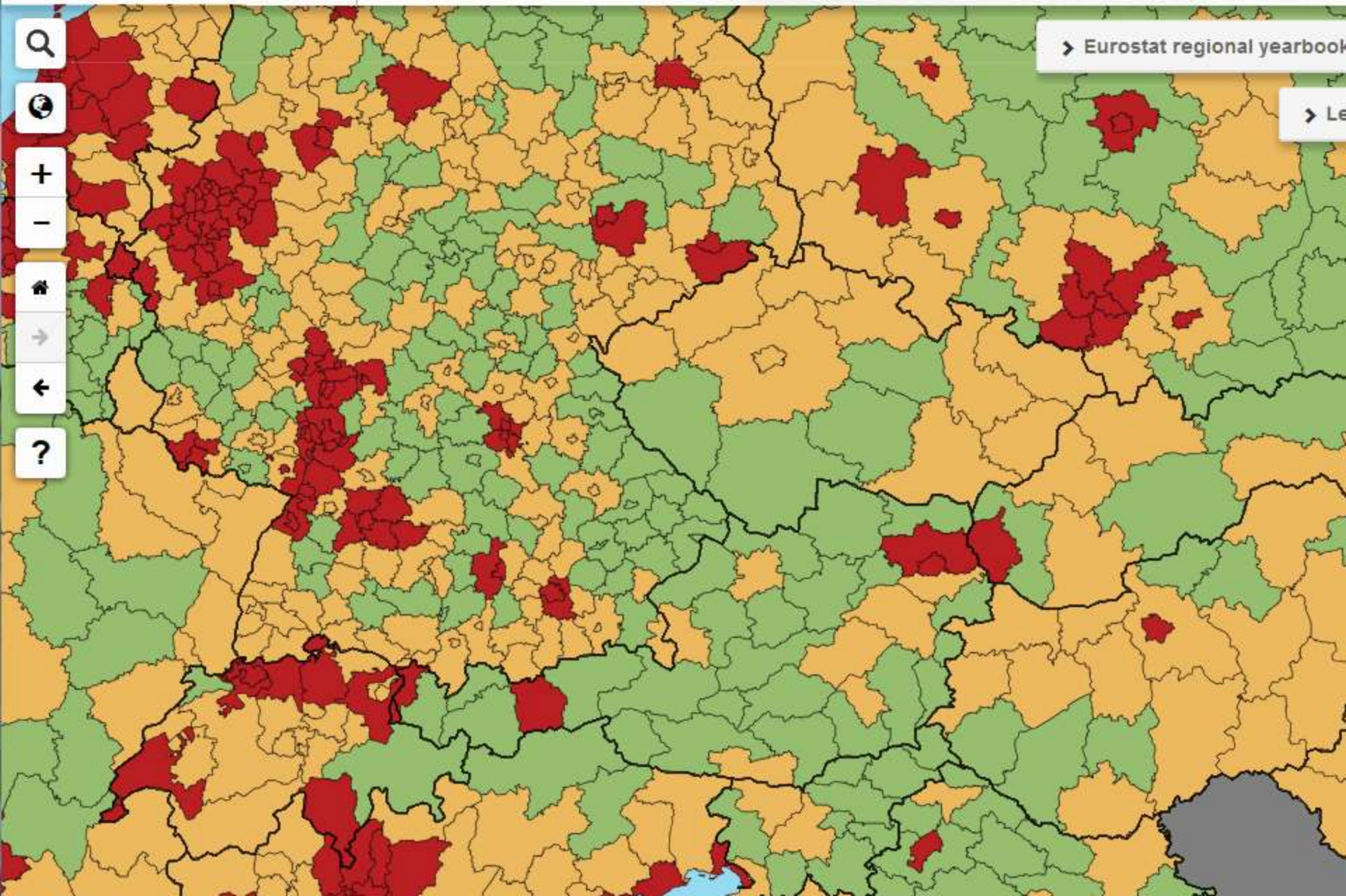
Administrative boundaries©EuroGeographic

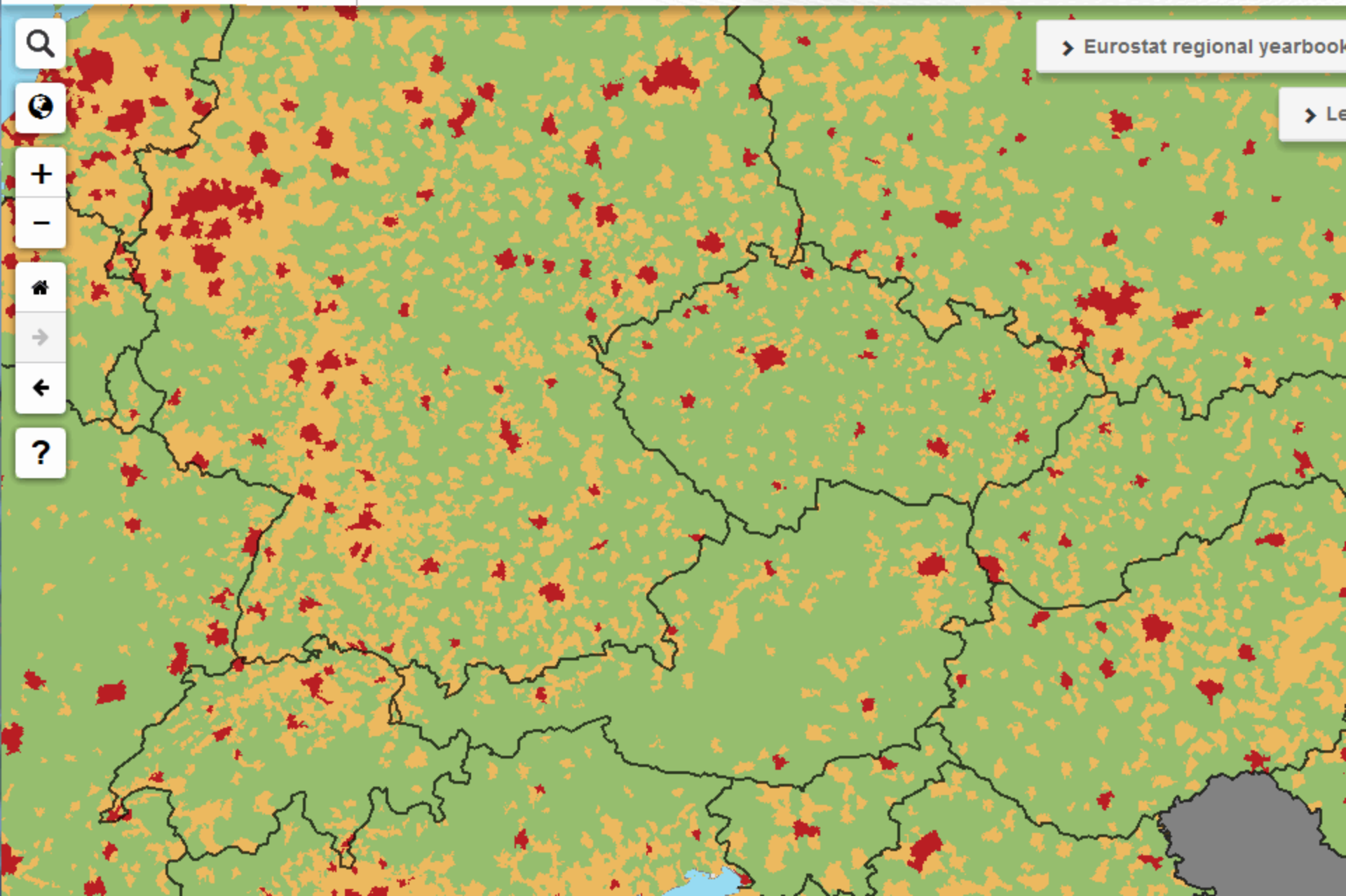


Administrative boundaries©EuroGeographic



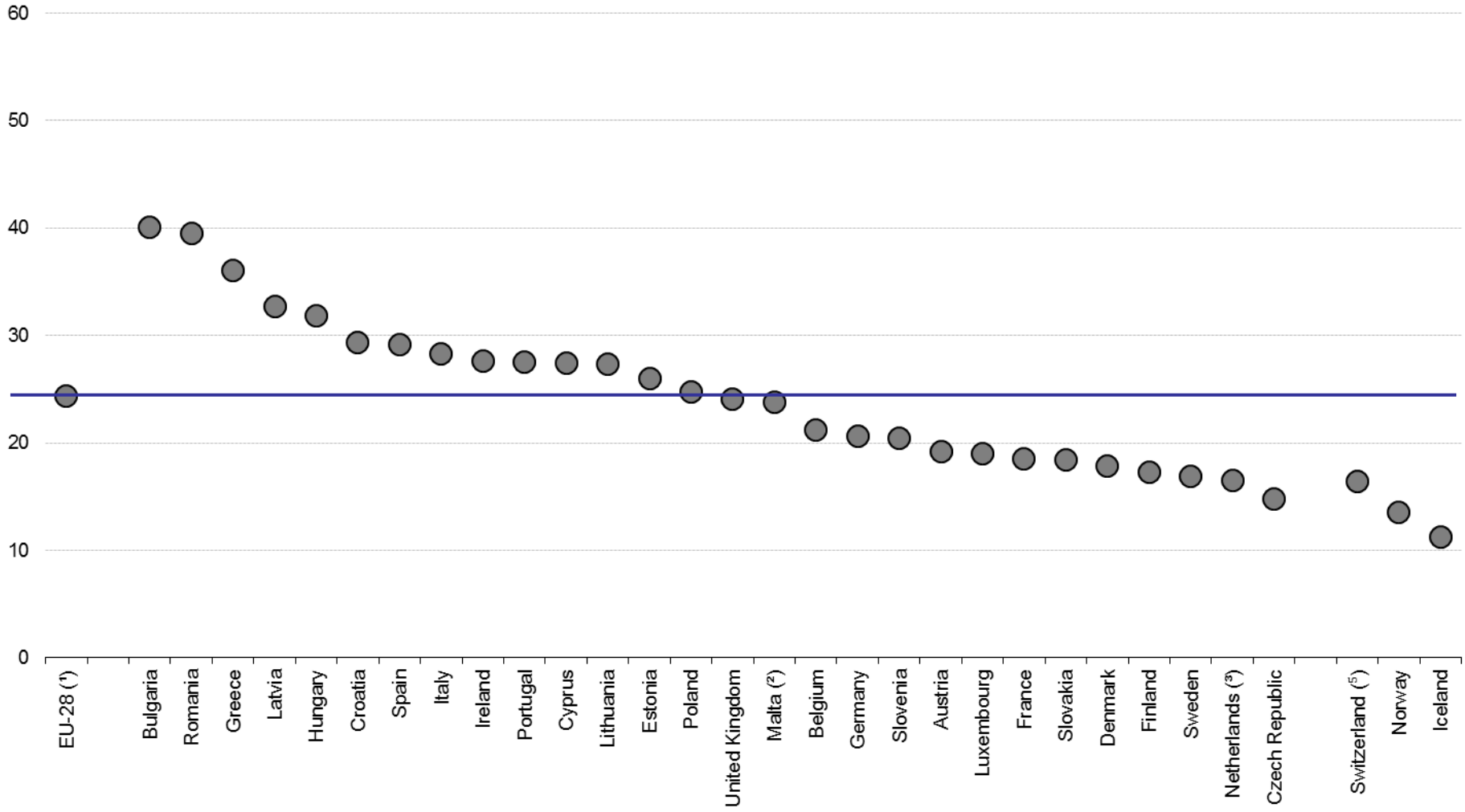
Administrative boundaries©EuroGeographic




Eurostat regional yearbook
Le

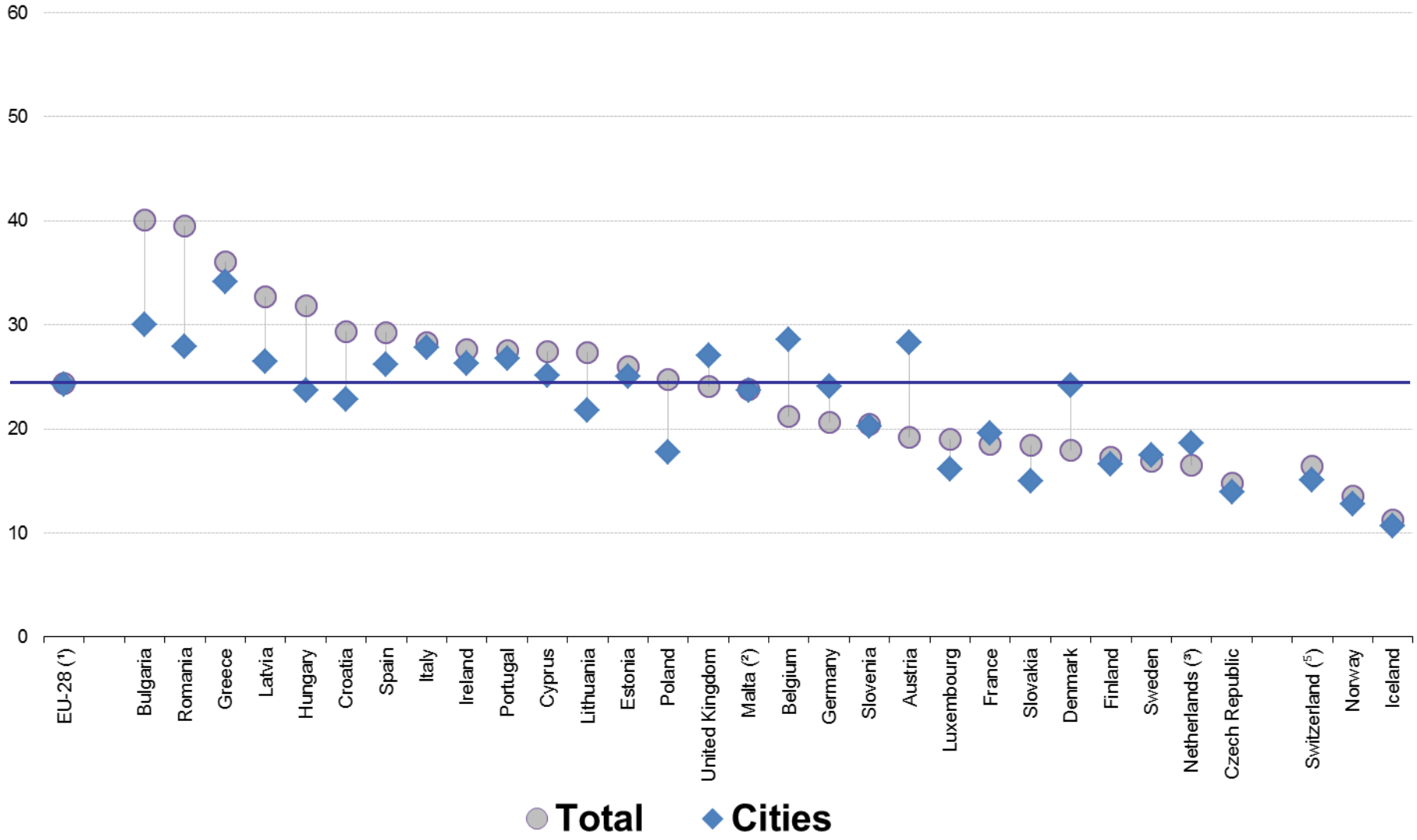
People at risk of poverty or social exclusion

(%)



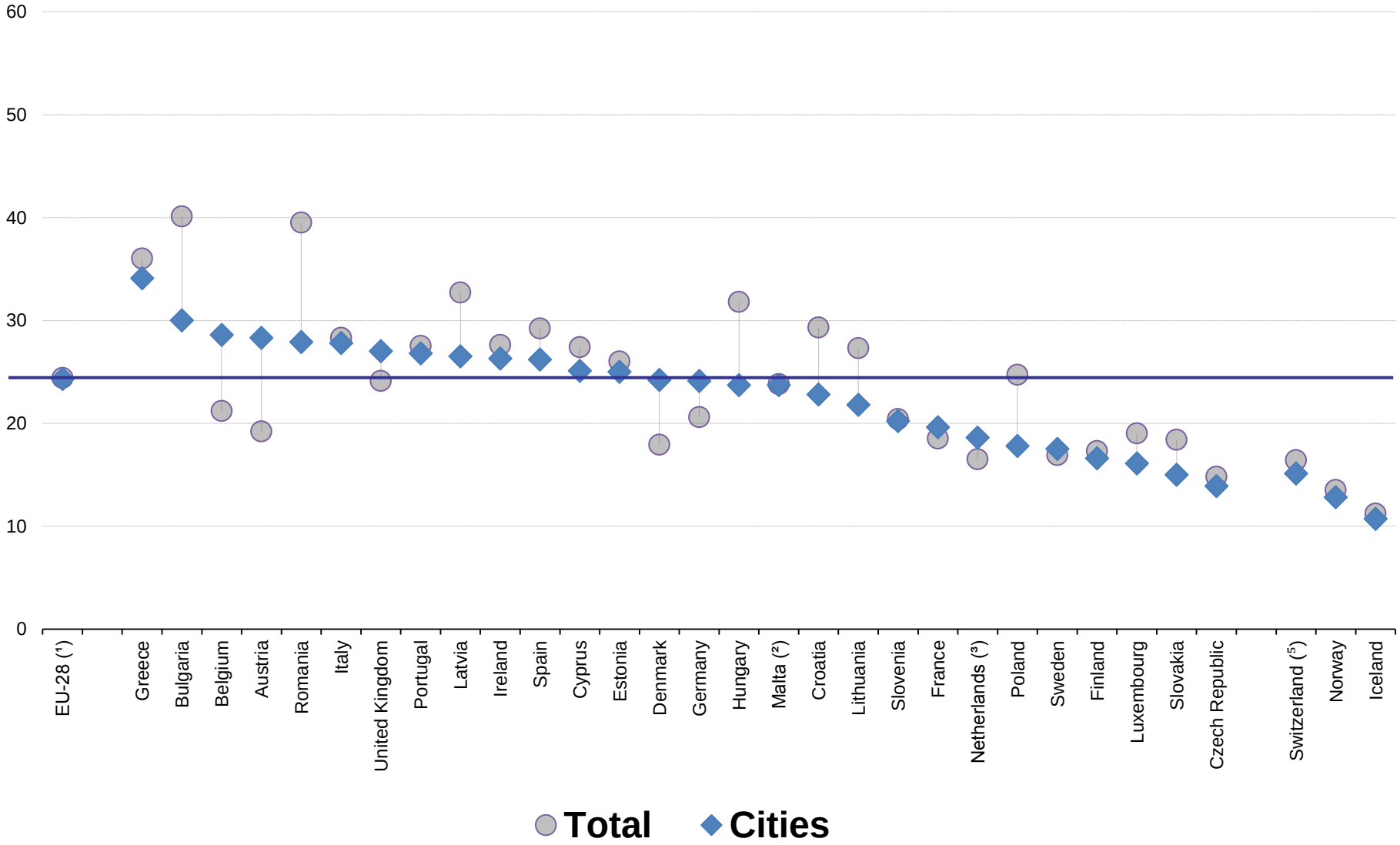
People at risk of poverty or social exclusion in cities

(%)



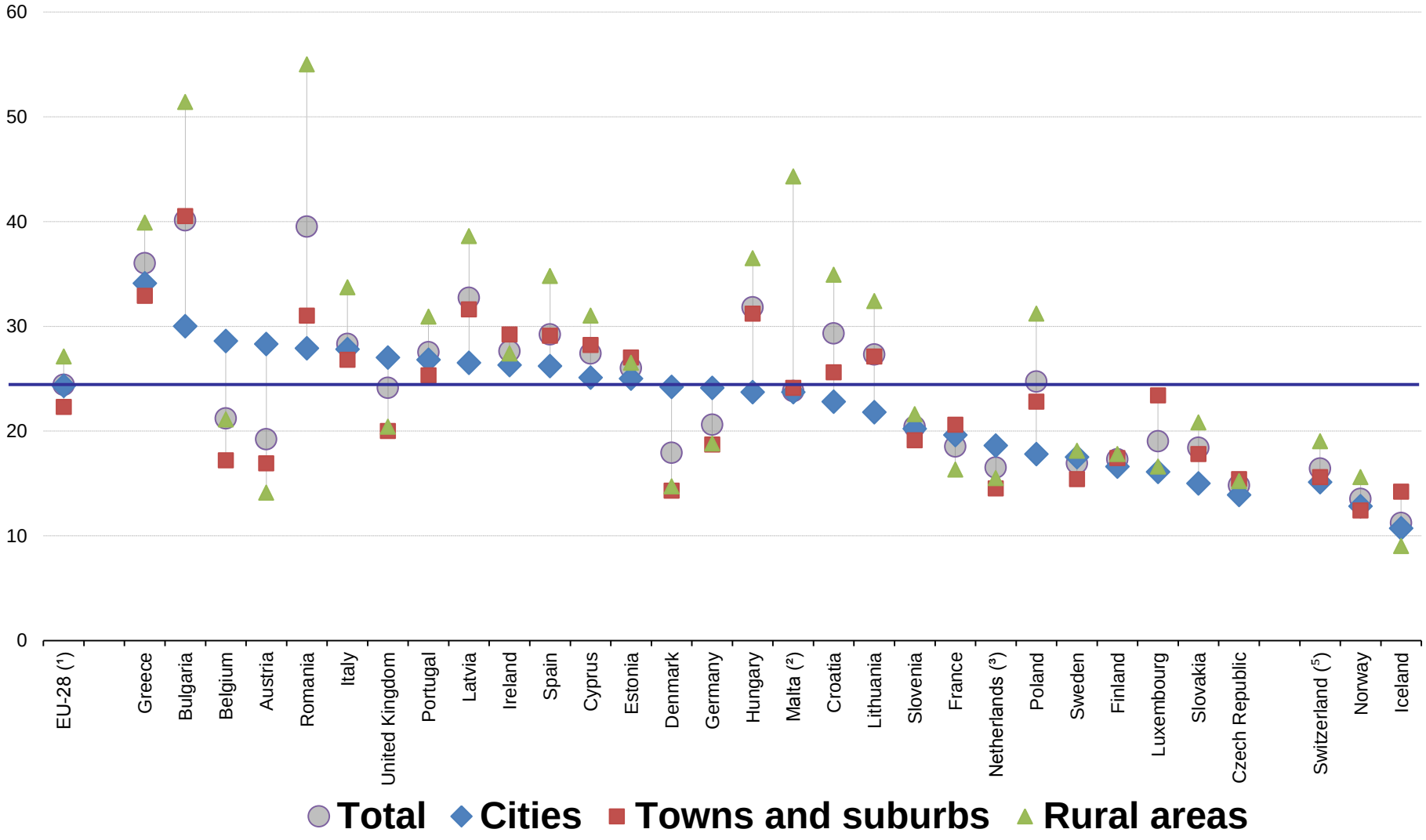
People at risk of poverty or social exclusion in cities

(%)



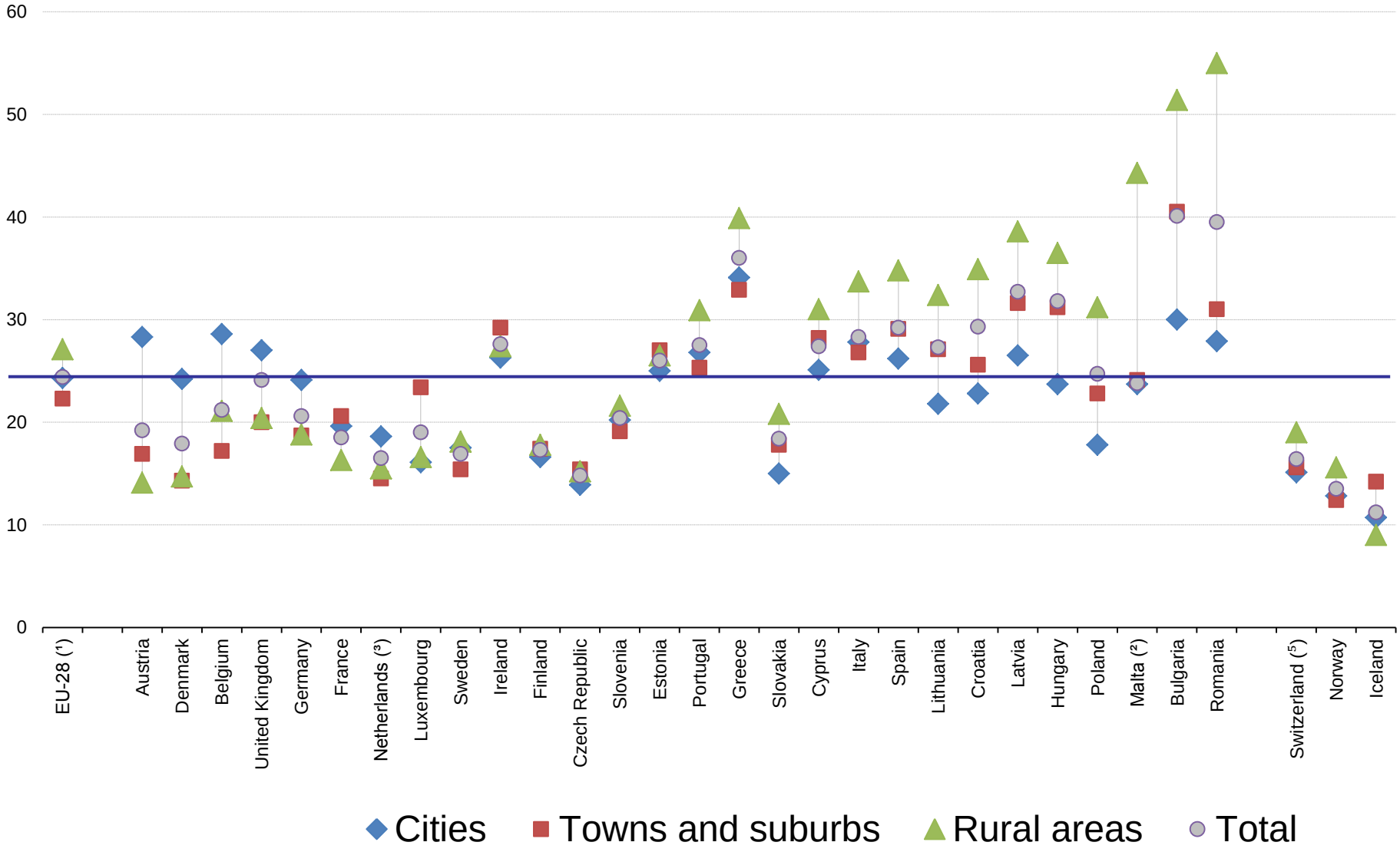
People at risk of poverty or social exclusion in cities, towns and suburbs and rural areas

(%)



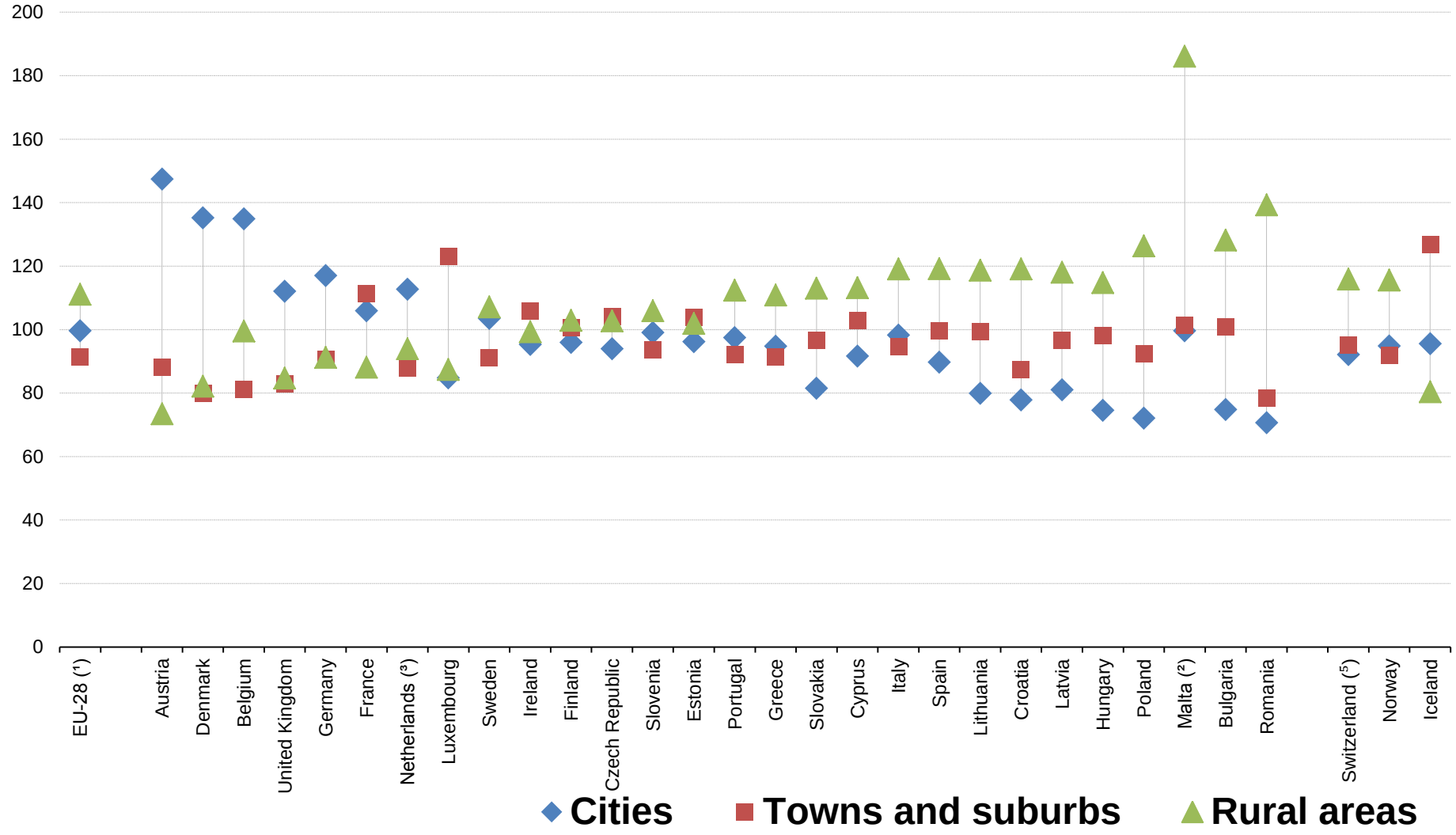
People at risk of poverty or social exclusion in cities, towns and suburbs and rural areas

(%)



People at risk of poverty or social exclusion in cities, towns and suburbs and rural areas

(Country average = 100 %)



European Statistics meet the needs of users

Policies

- Cohesion policy
- Rural development
- Urban agenda
- Sustainable Development Goals

Target areas

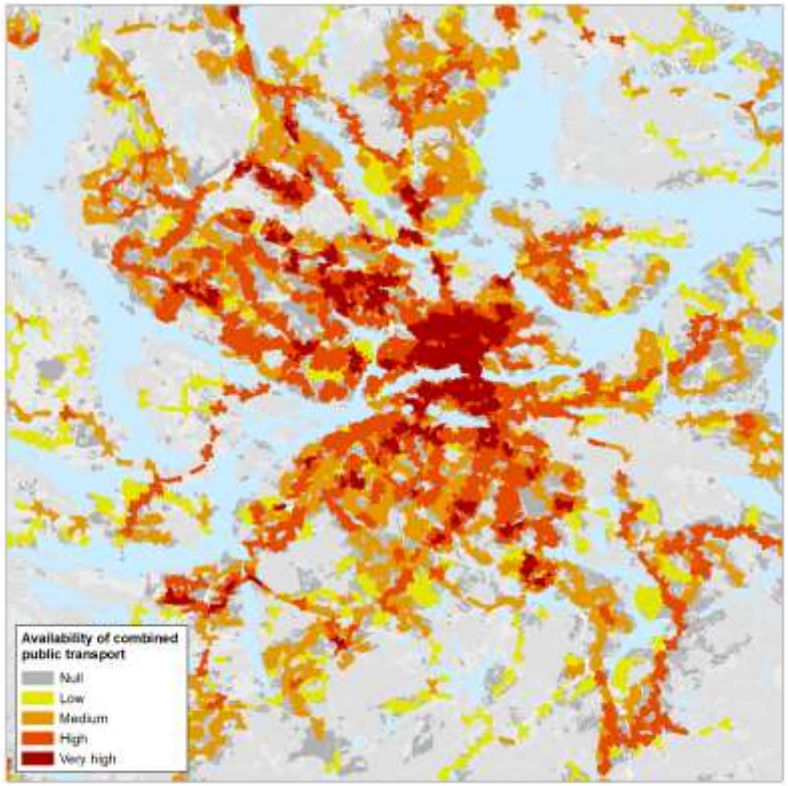
- NUTS level 2 regions
- Rural areas
- Cities

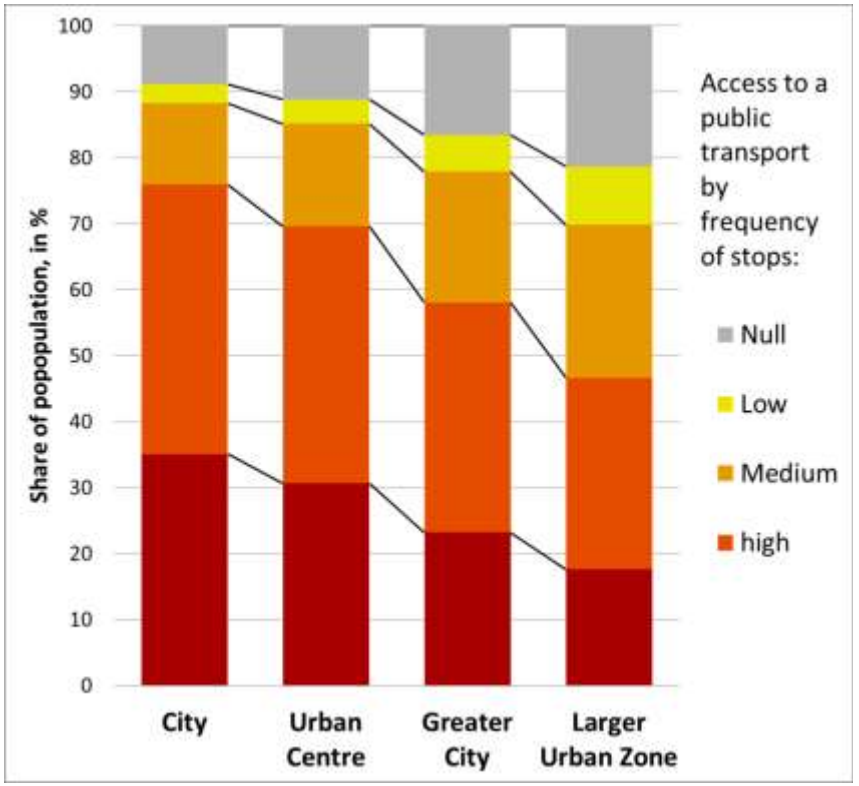
European Commission

Goal 11 - Transport target and indicator

- 11.2 By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons
  - **11.2.1. Proportion of the population that has convenient access to public transport, disaggregated by age group, sex and persons with disabilities**

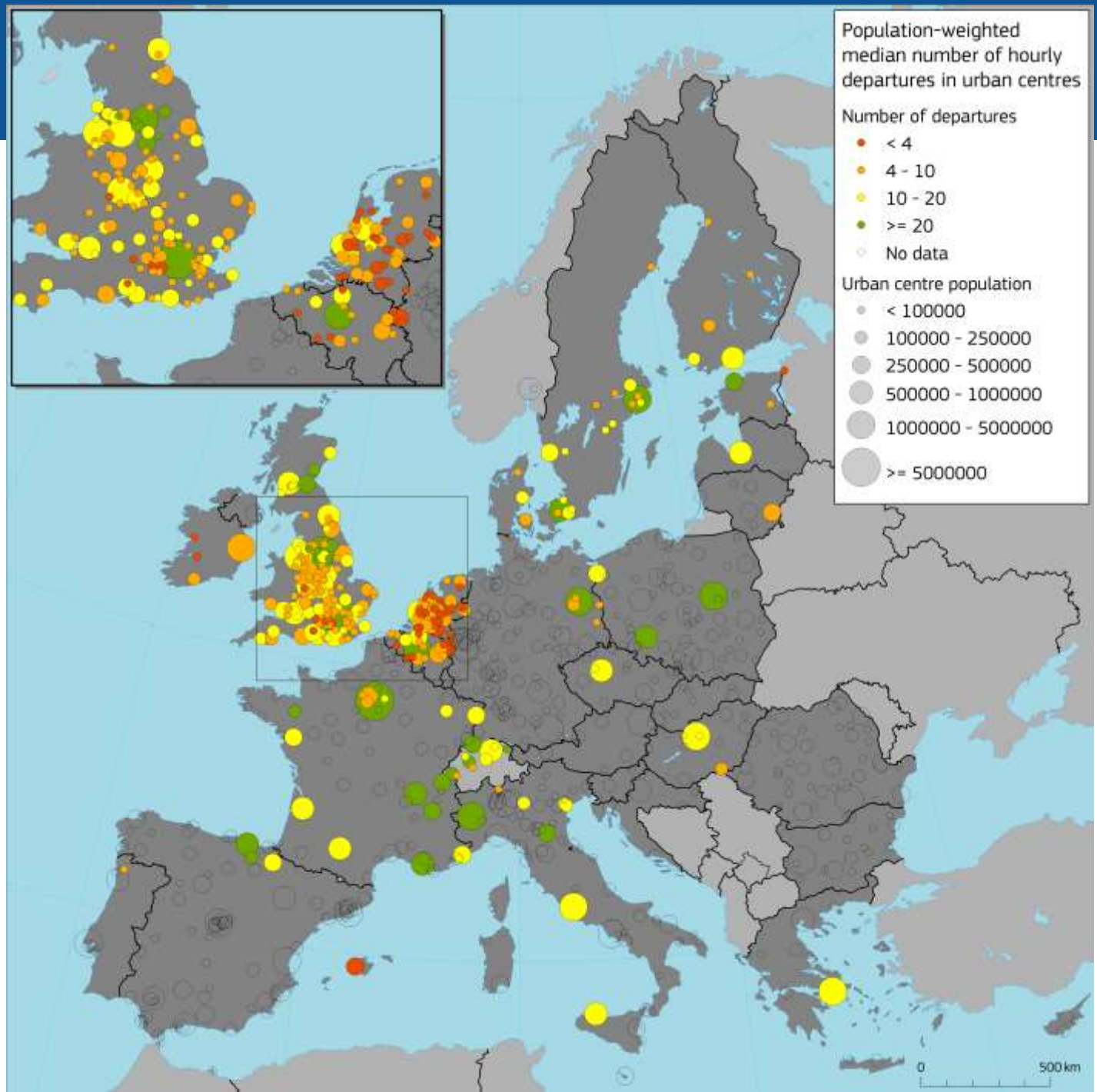
Stockholm: areas and population by access to public transport and its frequency

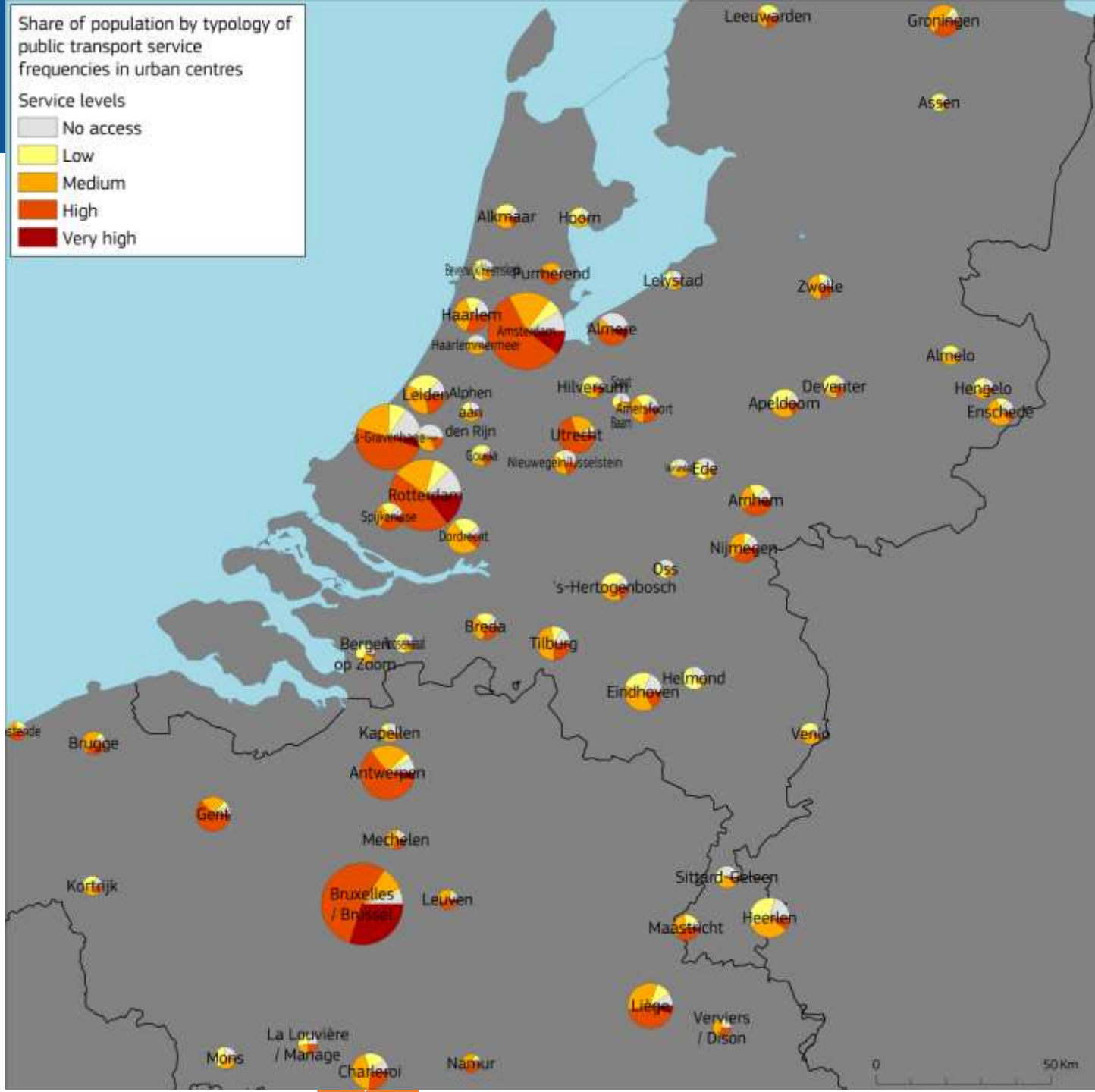


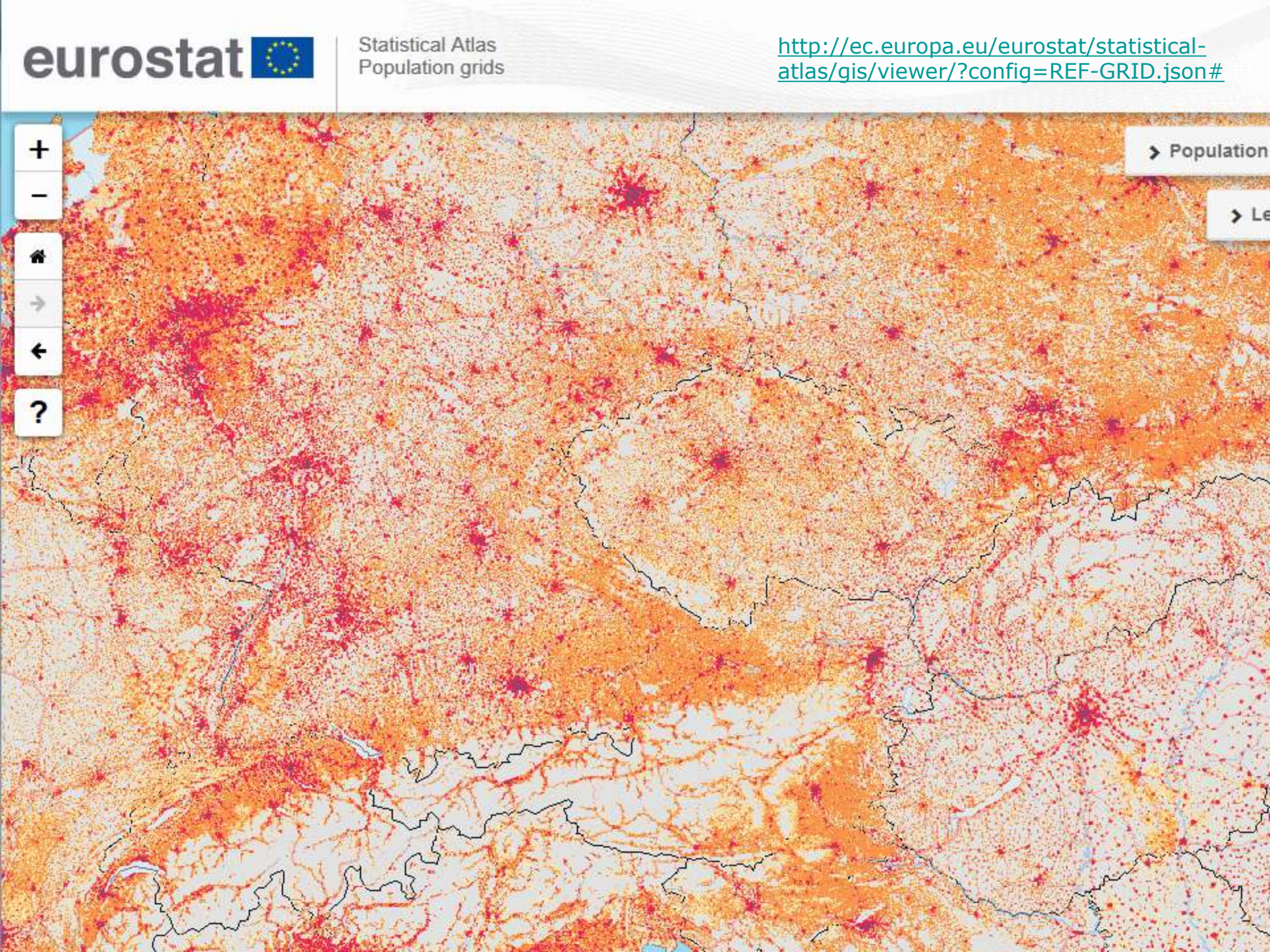


Source: H. Poelman, L. Dijkstra: Measuring access to public transport in European cities, Regional Working Paper 2015

Access to public transport

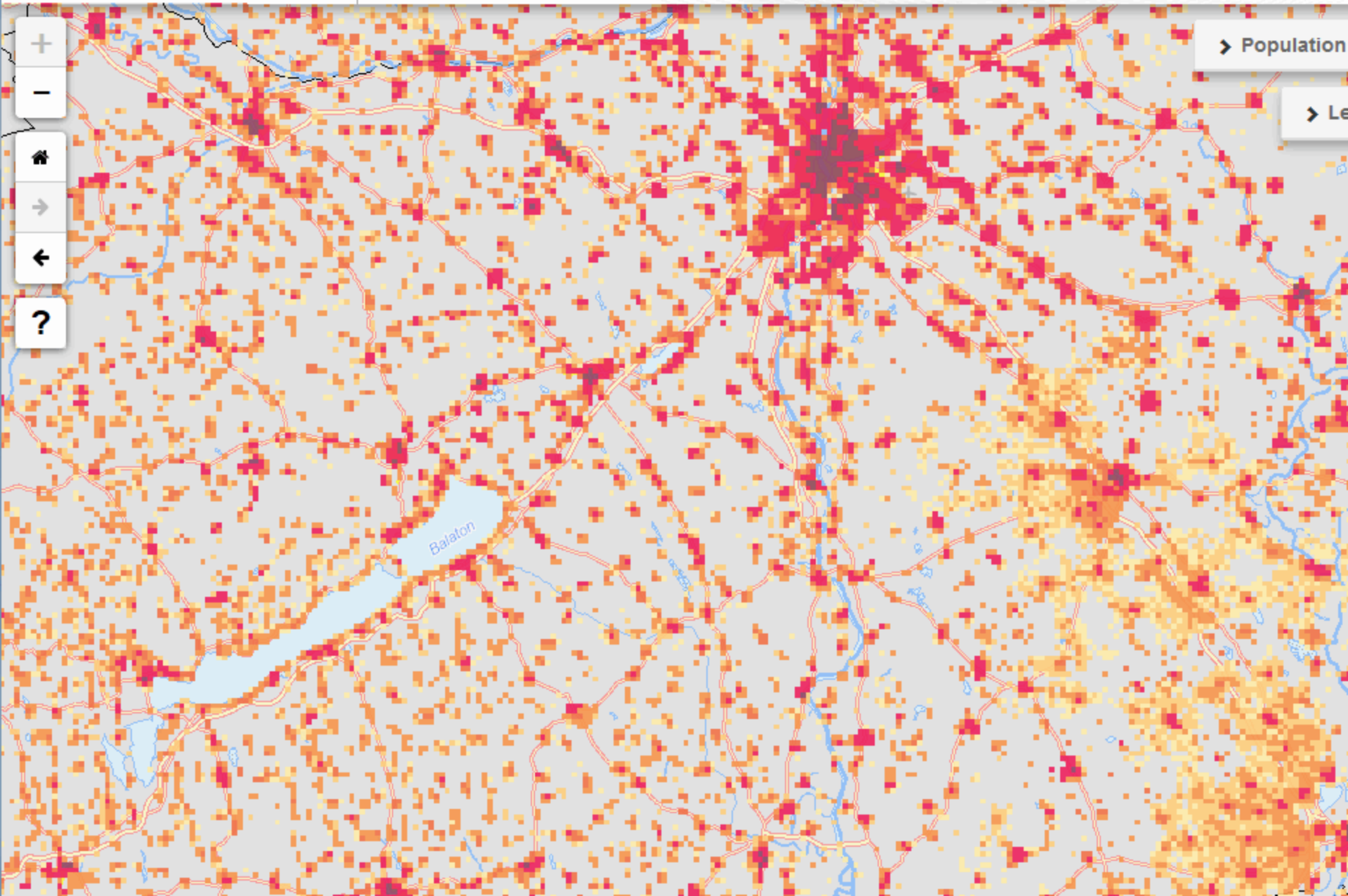



Share of population by typology of public transport service frequencies in urban centres
Service levels
No access
Low
Medium
High
Very high
Leeuwarden
Groningen
Assen
Alkmaar
Hoorn
Purmerend
Lelystad
Zwolle
Haarlem
Amsterdam
Almere
Haarlemmermeer
Almelo
Hilversum
Leiden
Alphen aan den Rijn
Apeldoorn
Deventer
Hengelo
Enschede
Utrecht
Nieuwegein
IJsselstein
Ede
Rotterdam
Arnhem
Nijmegen
Oss
's-Hertogenbosch
Breda
Tilburg
Bergen op Zoom
Helmond
Eindhoven
Venlo
Brugge
Kapellen
Antwerpen
Gent
Mechelen
Kortrijk
Bruxelles / Brussel
Leuven
Sittard-Geleen
Maastricht
Heerlen
Liège
Verviers / Dison
La Louvière / Manage
Mons
Charleroi
Namur
0
50 Km


eurostat
Statistical Atlas
Population grids
http://ec.europa.eu/eurostat/statistical-atlas/gis/viewer/?config=REF-GRID.json#
Population

eurostat

Statistical Atlas
Population grids



Population grid

- Population grids from point-based census type microdata will be a unique dataset
- High quality, official statistics not available from other sources
- Harmonised, non-administrative, neutral system for European purposes
- Comparability and time stability ensures manifold use cases

Policy use cases

- Territorial impact assessments of EU policies look into the risk of exposure of certain areas/populations to policy options and the potential impacts (e.g. exposure to pollution)
- Evaluating the exposure to risks and man-made or natural disasters (day- and night-time population)
- Analysis of access to services and infrastructure

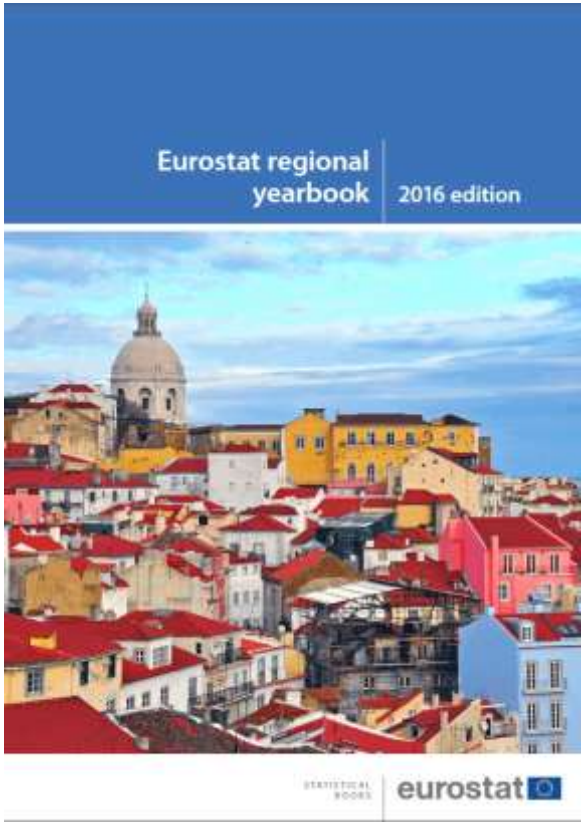
Conclusions - NUTS

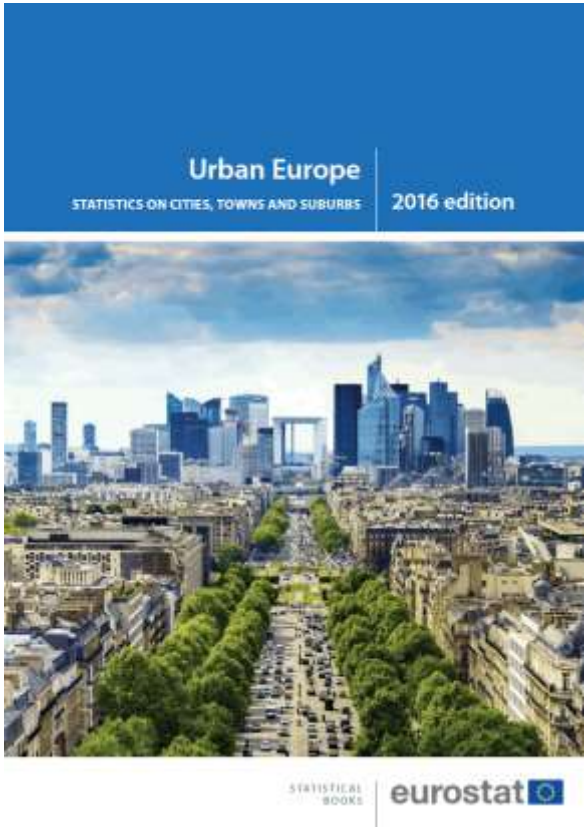
- regional statistics based on NUTS are widely used for territorial policies
- serve as the "backbone" of territorial statistics
- shall be safeguarded and further improved

Conclusions – and Beyond

- **Functional geographies**
  - Labour Market areas
- **Legal recognition of typologies**
  - Amendment of NUTS Regulation
- **Integration of statistical and geospatial information**
  - Population grids

For more information





- http://ec.europa.eu/eurostat/web/regions/overview
- http://ec.europa.eu/eurostat/web/gisco

European Commission

Thank you for your attention!