



Indicators to measure urban development

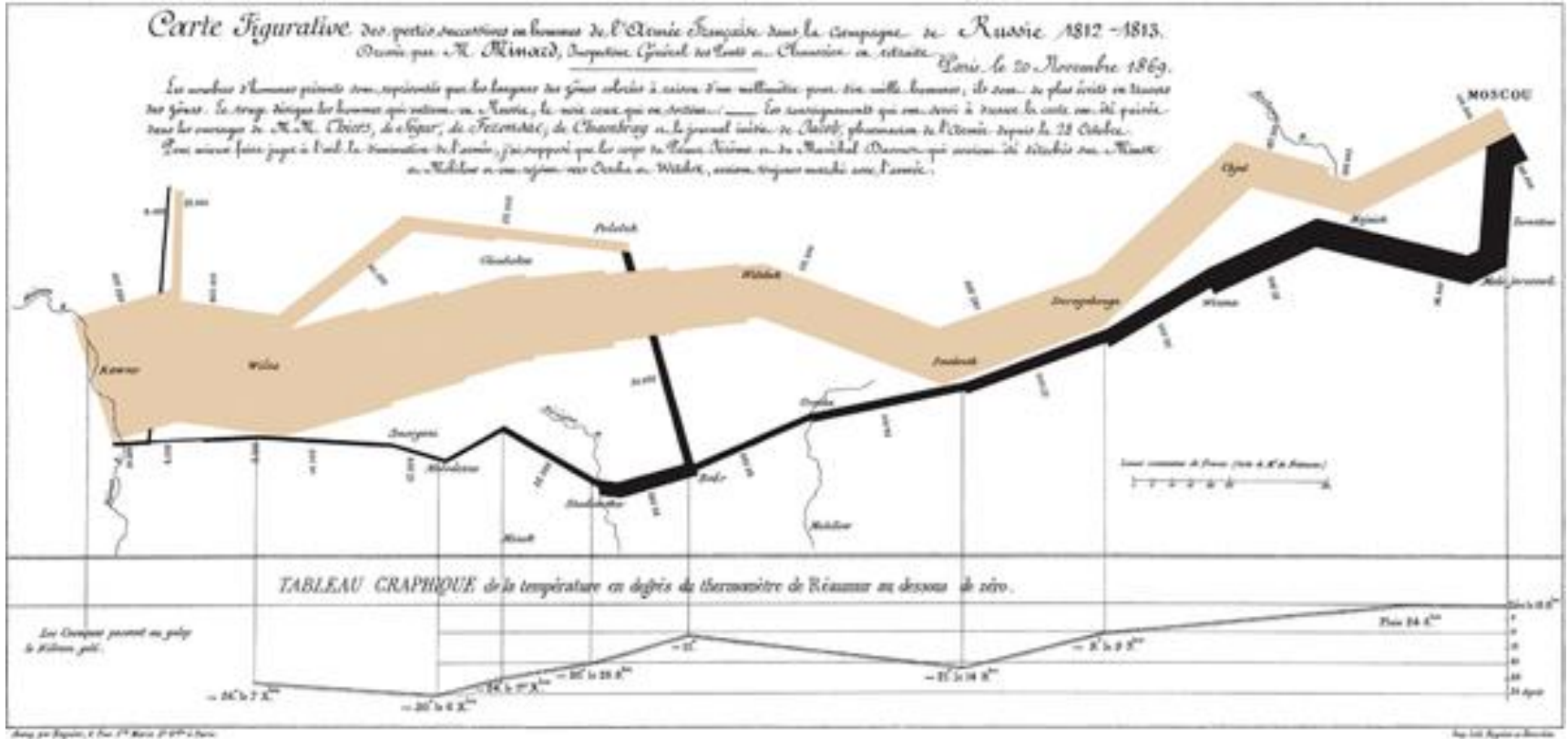
Teodora Brandmuller

**Unit E4 – Regional statistics and geographic information
Eurostat**

Athens, 11 June 2014



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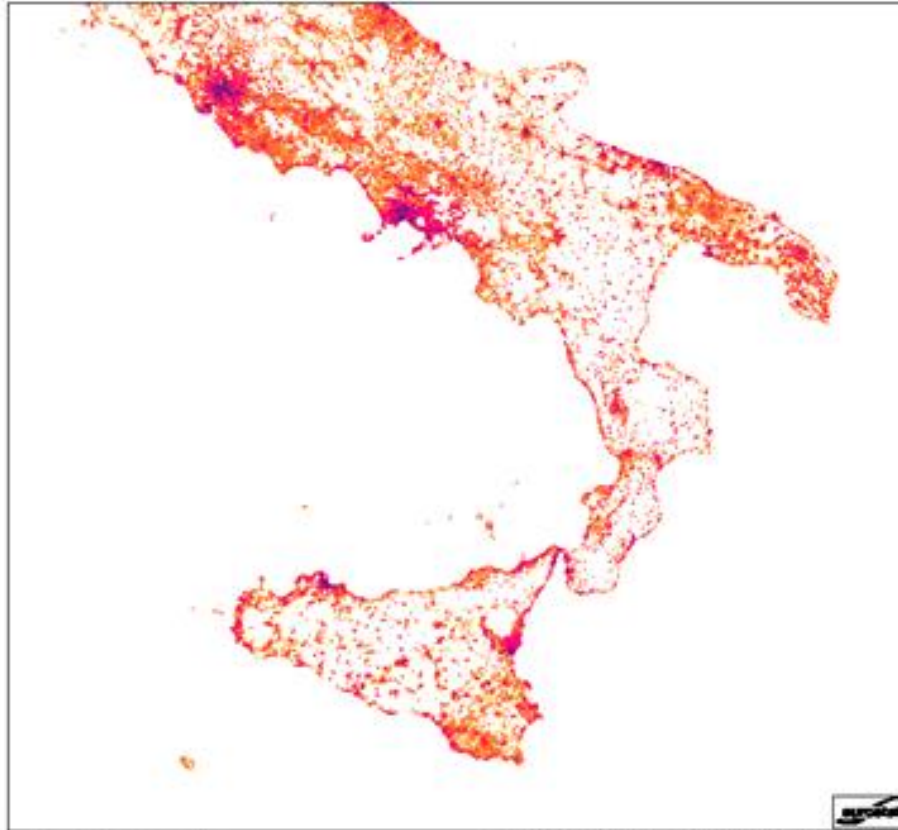


Napoleon's march to Moscow: The war of 1812



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Population grid 2006: population per square kilometer



Population per square km

Number of persons



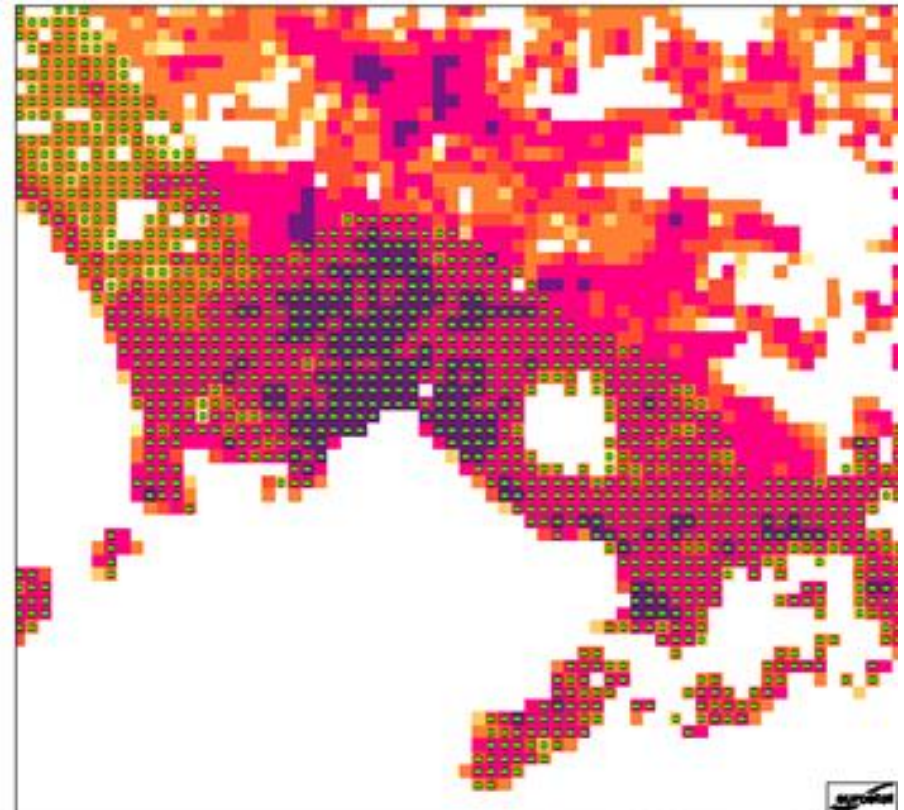
Administrative boundaries: © EuroGeographics © UN-FAO © Turkstat
Eurostat/IMAGE



Based on NUTS 2010 and population grid 2006

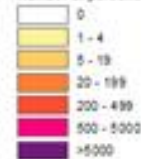
Source: Eurostat

Population grid 2006: extraction of values from the population grid to points



Population per square km

Number of persons



Administrative boundaries: © EuroGeographics © UN-FAO © Turkstat
Eurostat/IMAGE



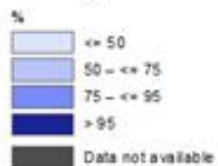
Based on NUTS 2010 and population grid 2006

Source: Eurostat

Share of population in coastal regions living within 15 km from the coastline by NUTS 3 regions



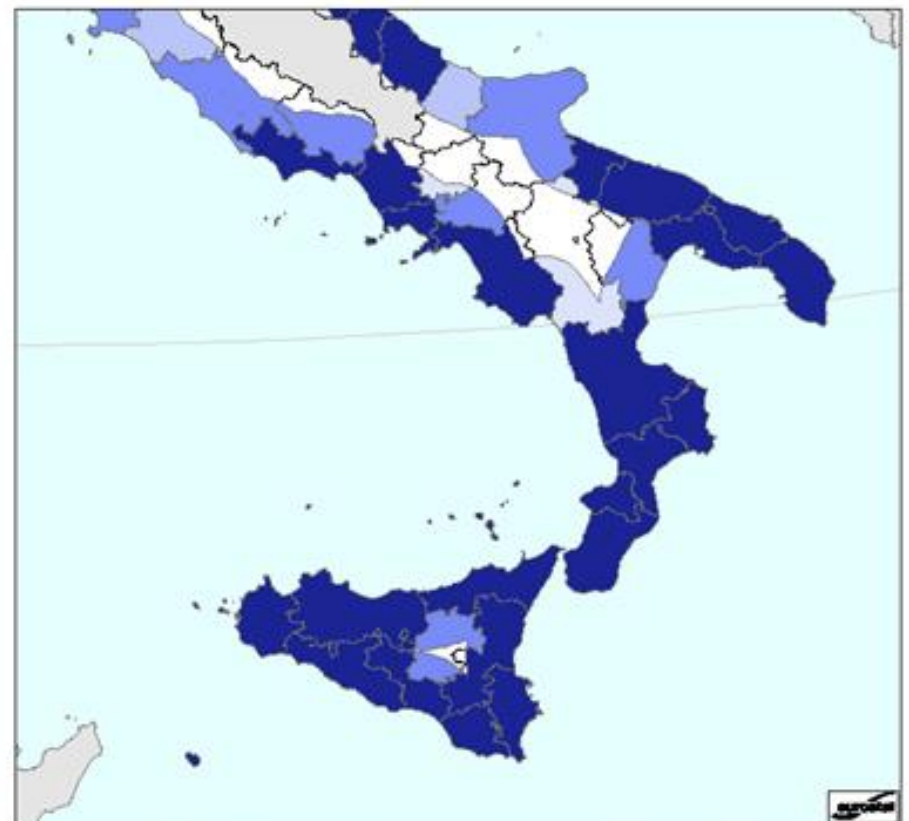
Percentage of total NUTS 3 region population



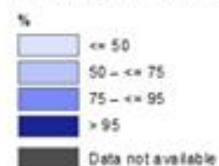
Administrative boundaries: © EuroGeographics © UN-FAO © Turkstat
Eurostat/IMAGE



Share of population in coastal regions living within 50 km from the coastline by NUTS 3 regions



Percentage of total NUTS 3 region population

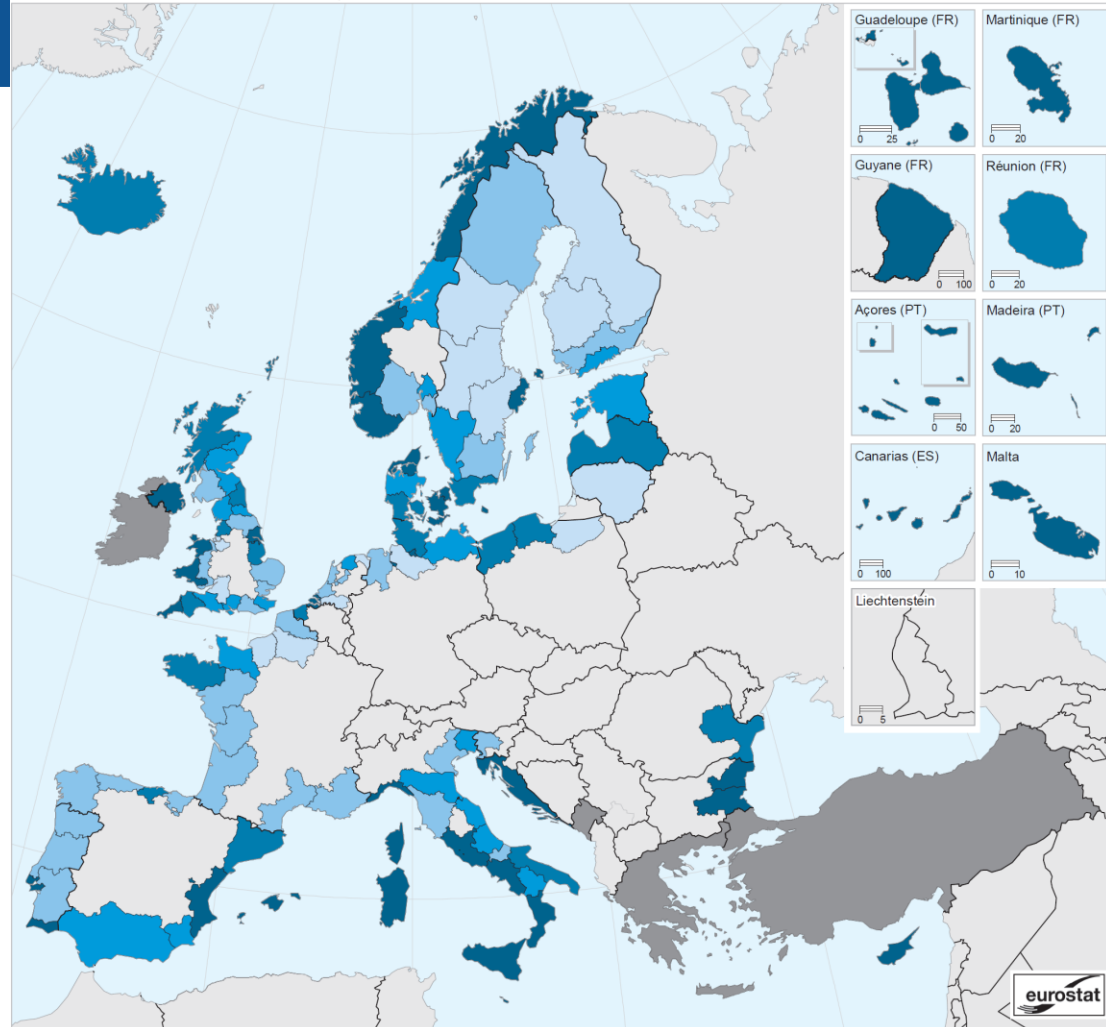


Administrative boundaries: © EuroGeographics © UN-FAO © Turkstat
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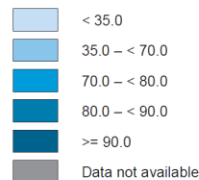


Nights spent in tourist accommodation establishments in coastal localities, by NUTS 2 regions, 2012
 (% share of total nights spent by residents and non-residents in the regions' tourist accommodation establishments)

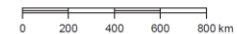
Foreign visitors principally attracted to coastal destination in southern Europe



(% share of total nights spent by residents and non-residents in the regions' tourist accommodation establishments)

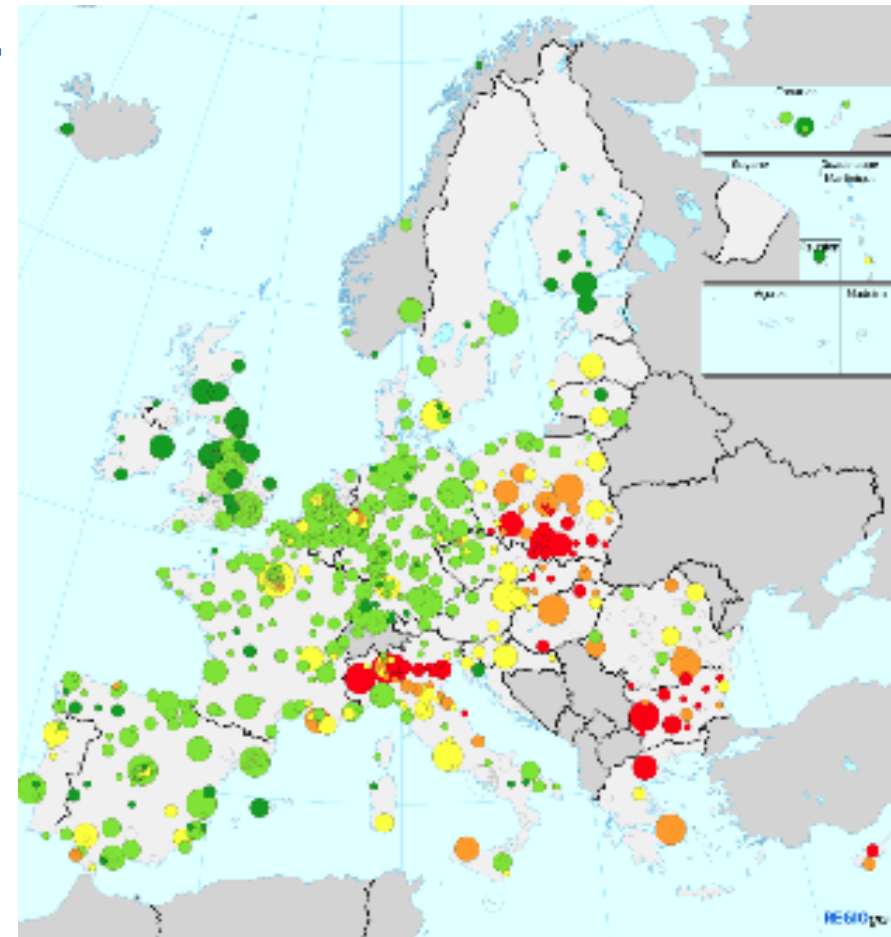


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 Cartography: Eurostat — GISCO, 05/2014

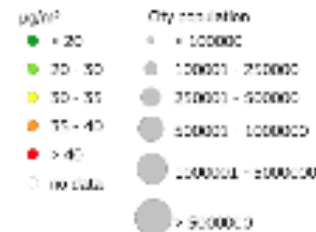


PM₁₀ daily average concentration

Combining city statistics (total resident population) and data from air quality measurement stations



PM10 daily average concentration, 2011



Source: EEA, EU, WHO

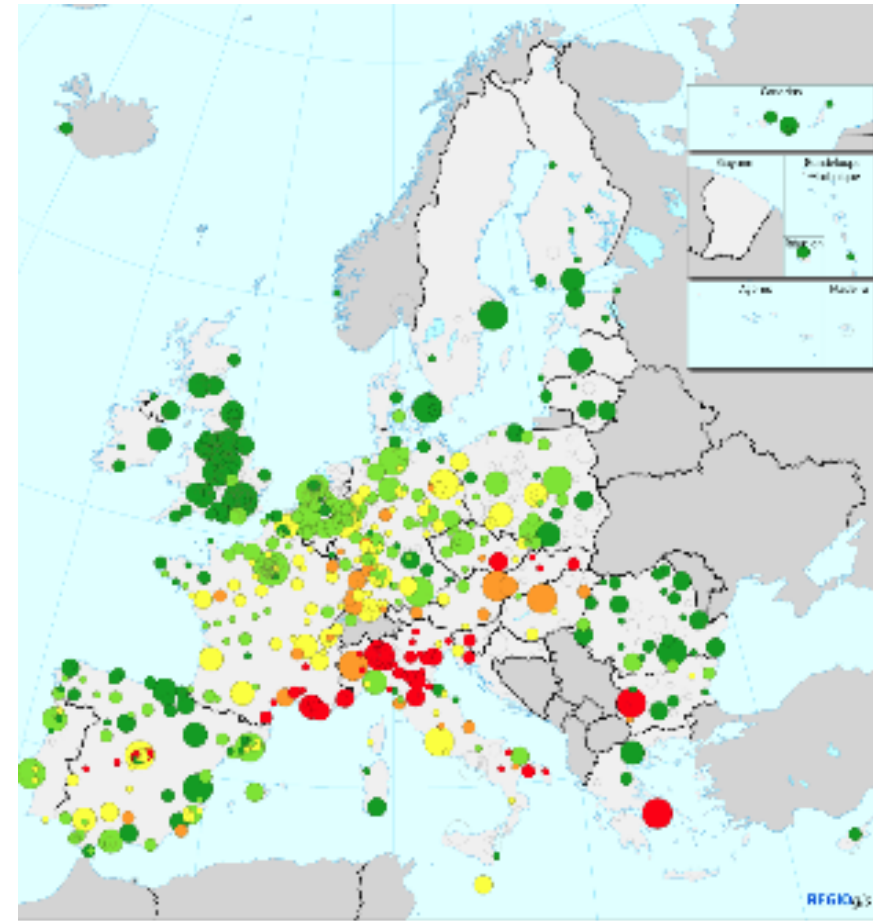
0 500km

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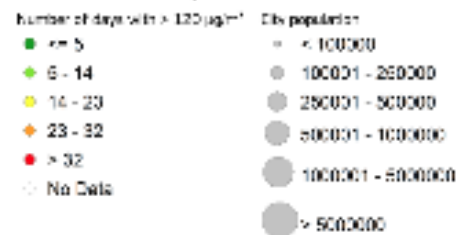


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Ozone concentration



Ozone concentrations, 2011

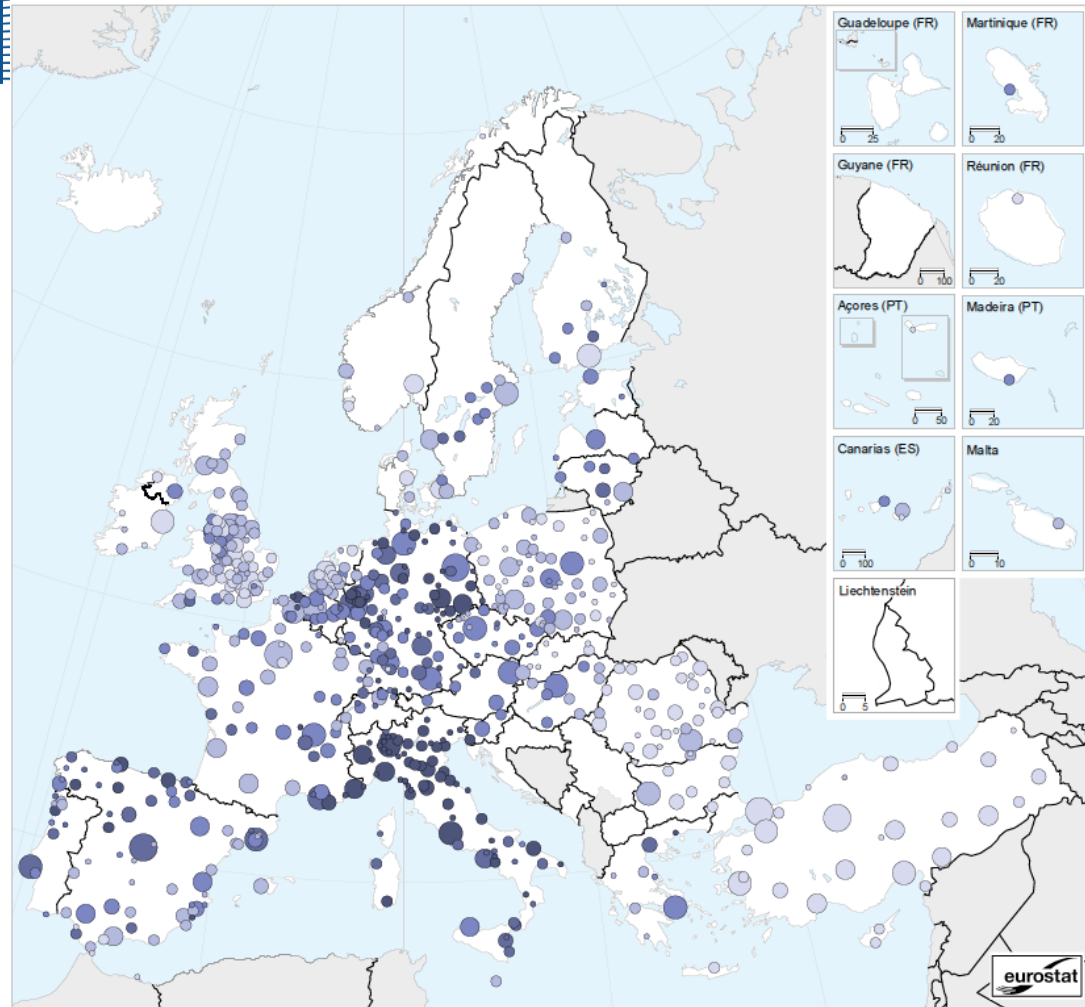


Source: EC, 2012a

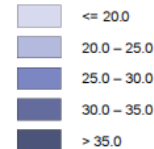
0 500 km

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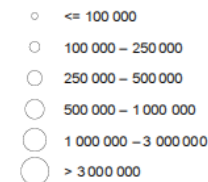
Old-age dependency rate in cities



Old-age dependency ratio
 (% , persons aged 65 years and over
 / persons aged 20-64 years)



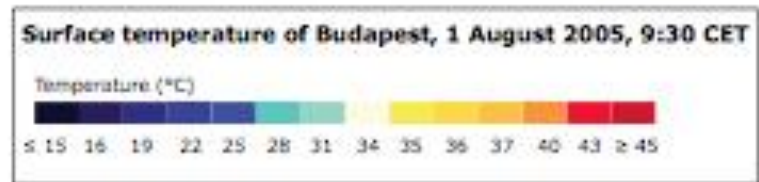
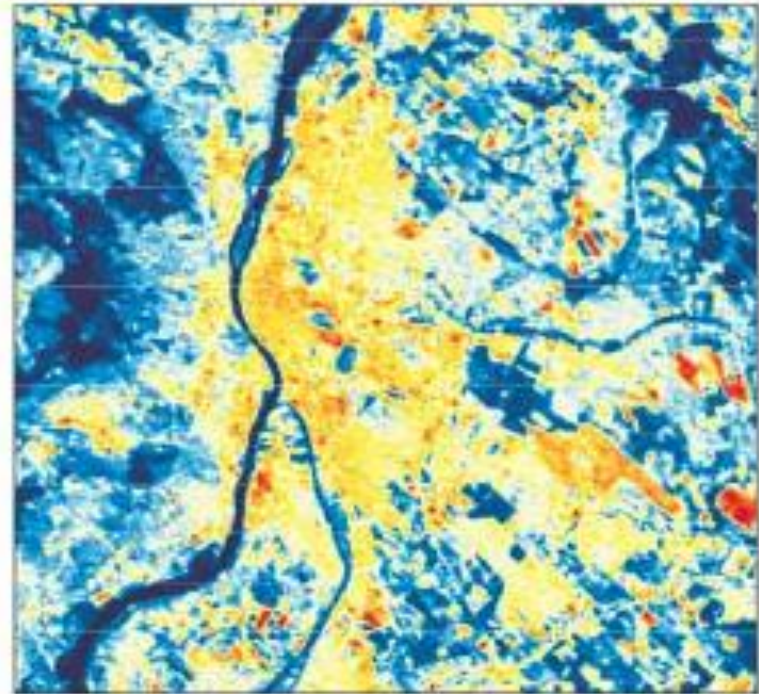
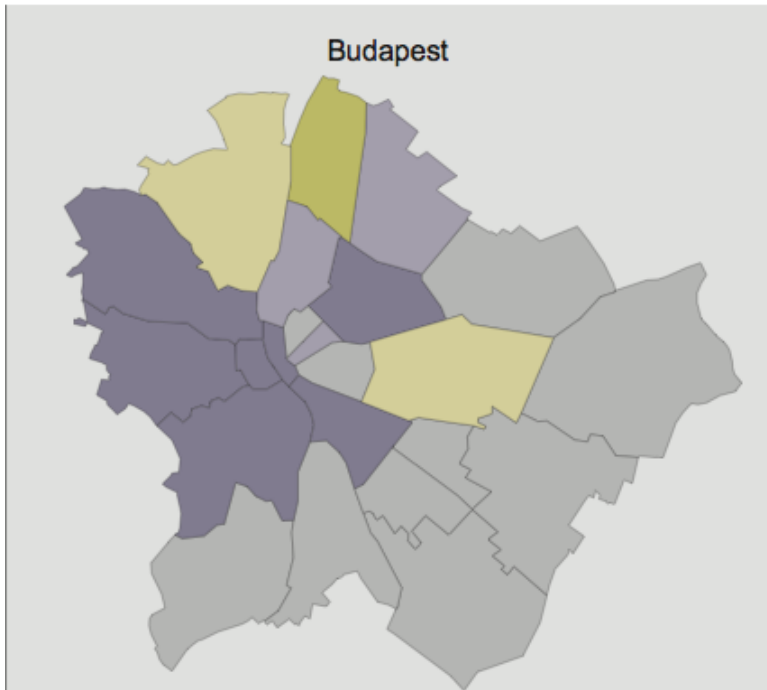
Population of the core city
 (inhabitants)



Administrative boundaries: © EuroGeographics © UN-FAO © Turkstat
 Cartography: Eurostat — GISCO, 04/2013



(*) For some cities an alternative reference period has been used, the exceptions are too lengthy to document; the information presented in the map relates to the most recent data available for each city.
 Source: Eurostat (online data code: urb_icity)



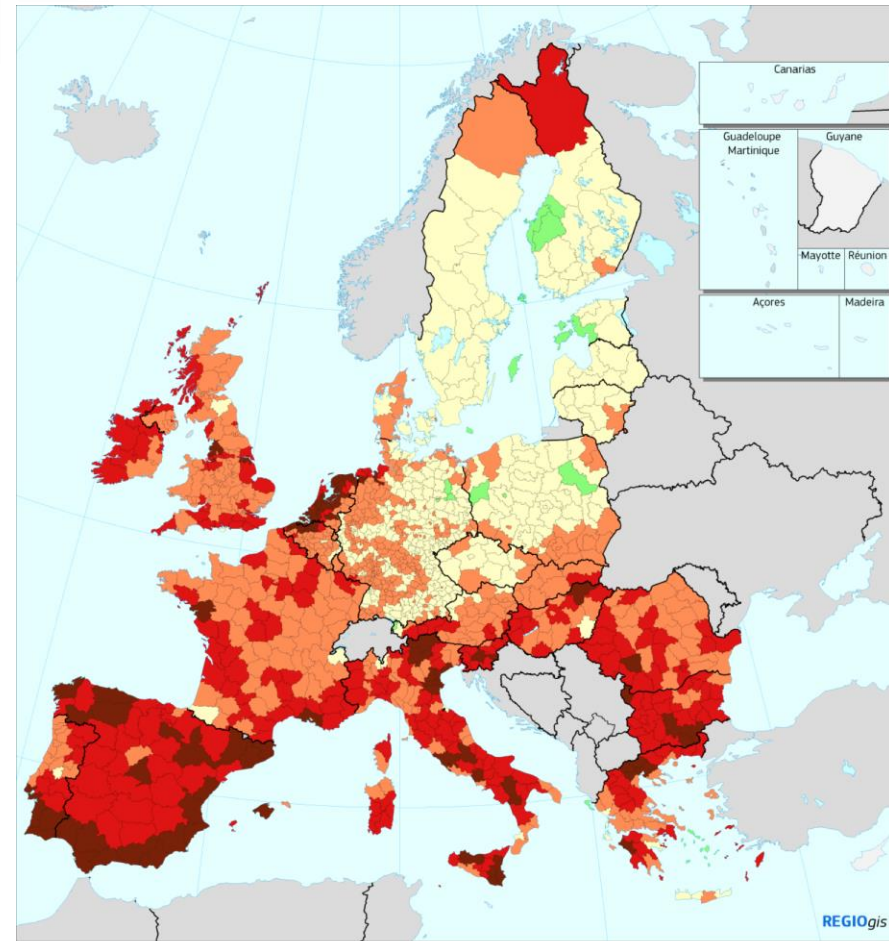
Old-age dependency rate



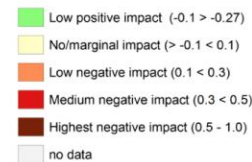
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Potential impact of climate change

*Combining regional
statistics (share of
elderly population)
and projections on
climate change*



Aggregate potential impact of climate change, 2009

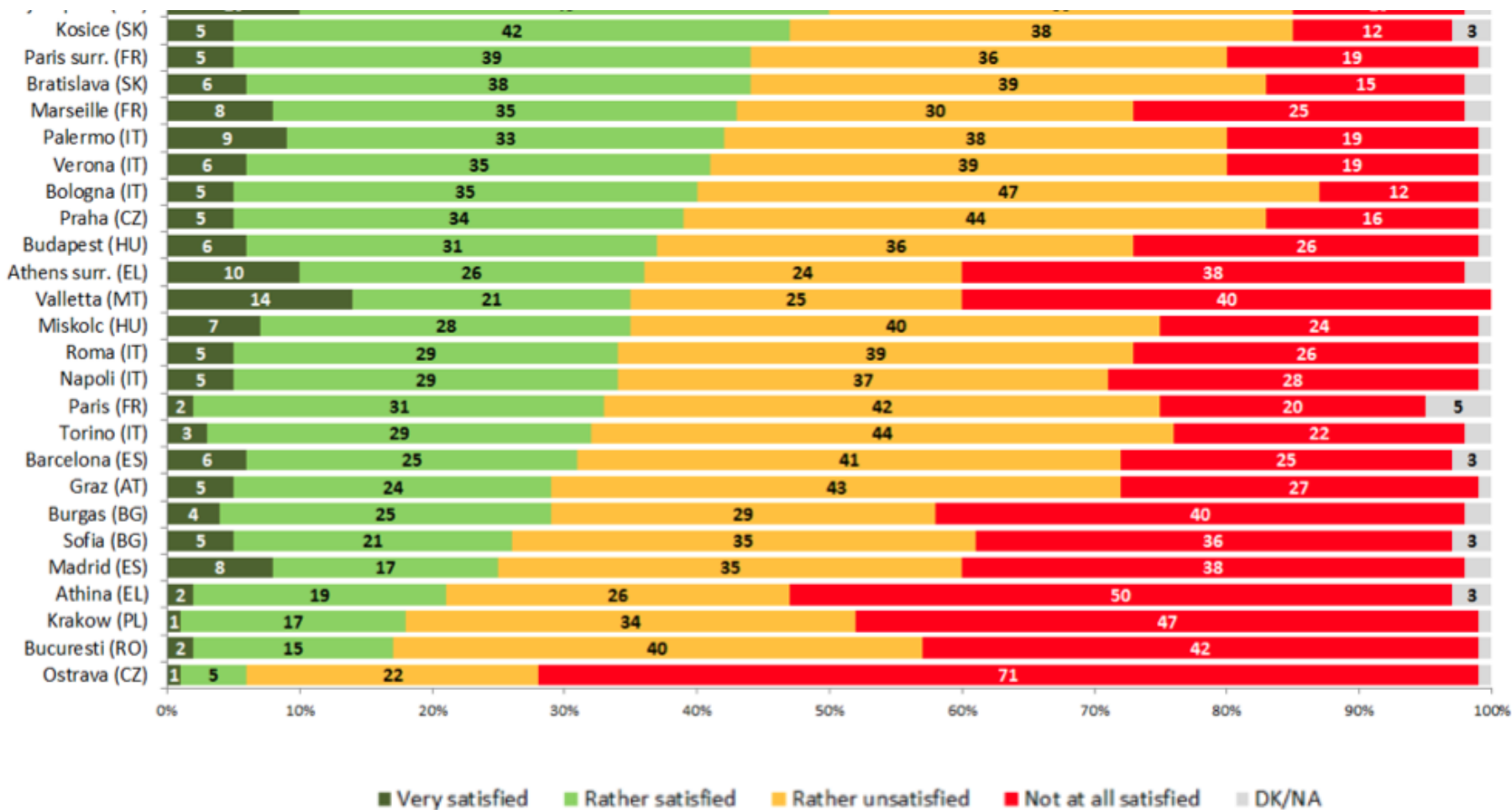


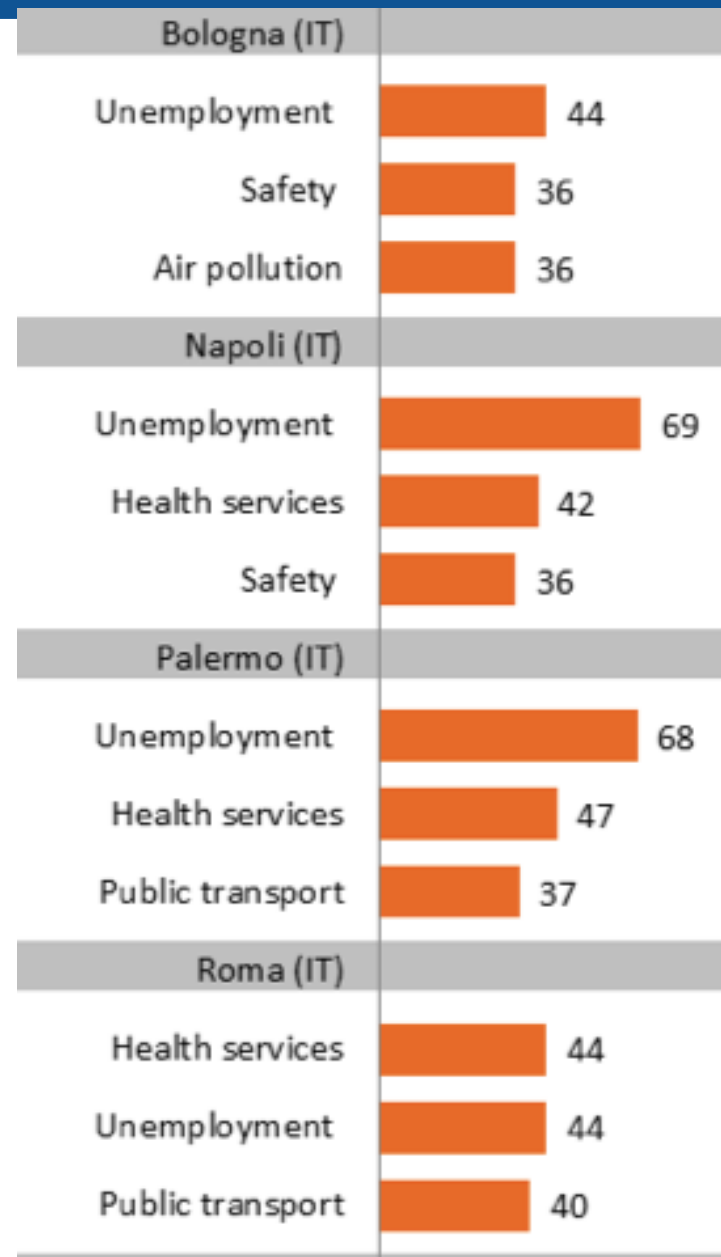
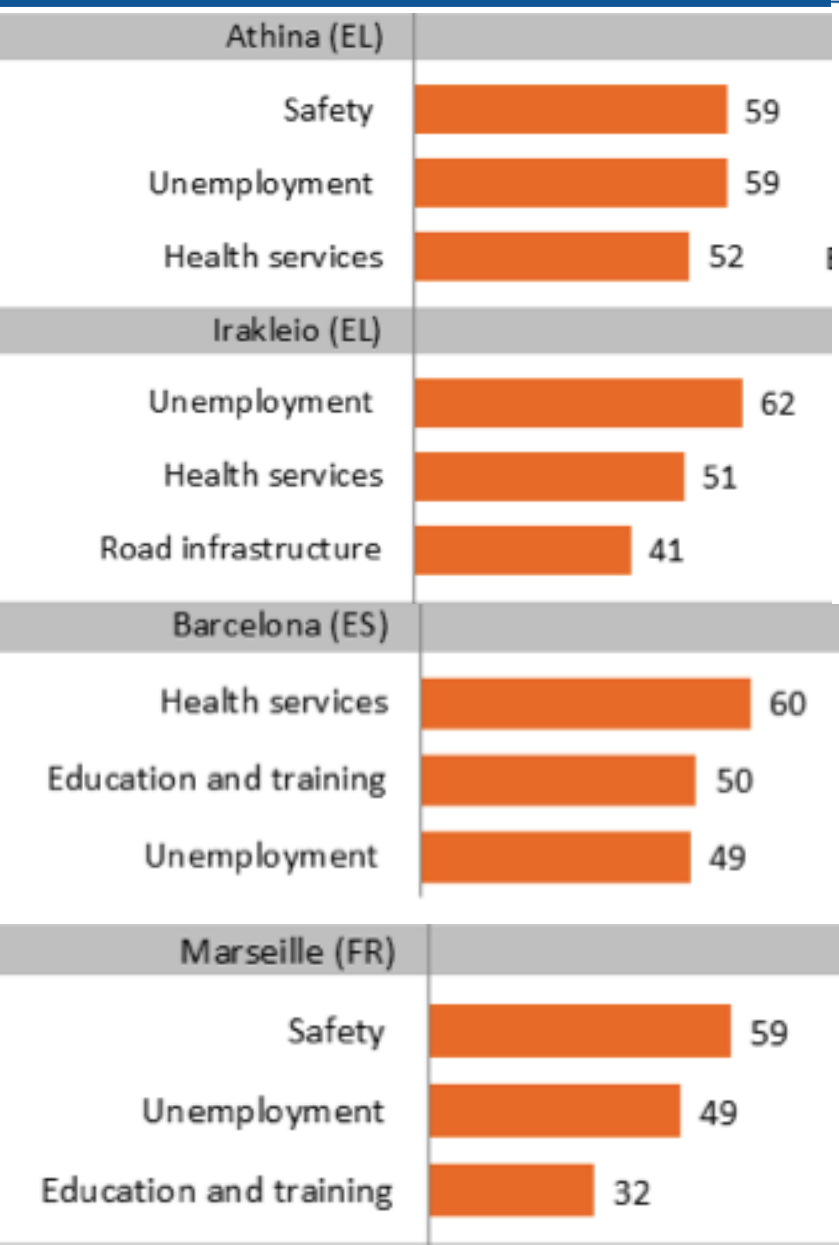
The potential impacts were calculated as combination of regional exposure to climate change and the most recent data on weighted dimensions of physical, economic, social, environmental and cultural sensitivity to climate change.

Source: ESPON Climate Project, 2011.

0 500 Km

Perception of air quality

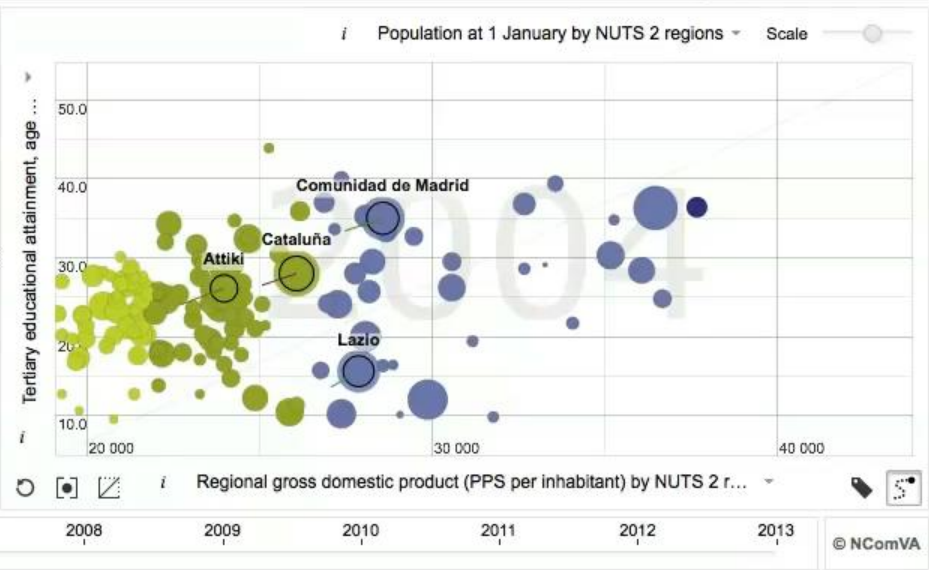
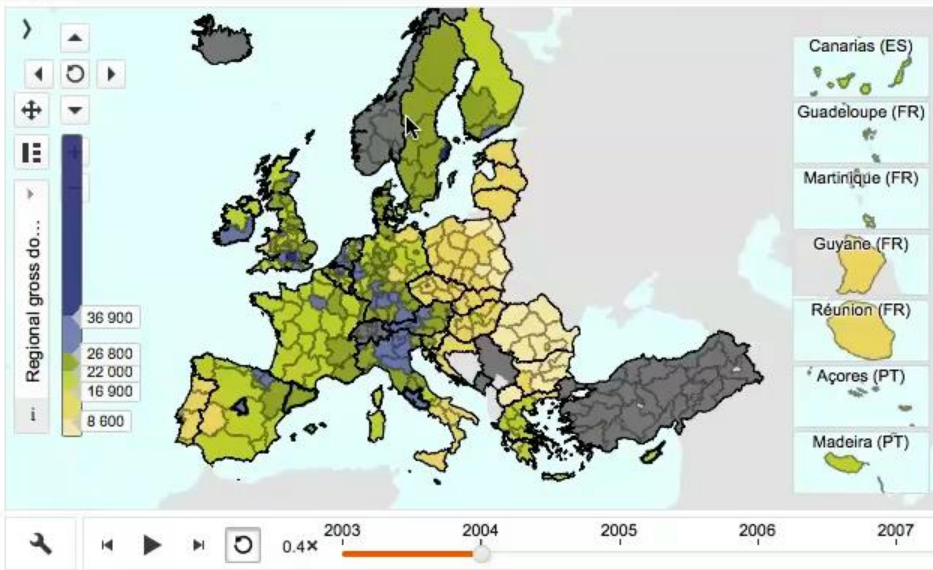






Regional Statistics Illustrated

Statistical domains: **Education**



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

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<http://epp.eurostat.ec.europa.eu/cache/RSI/#?vis=scitech>



Thank you for your attention

Maps were selected from

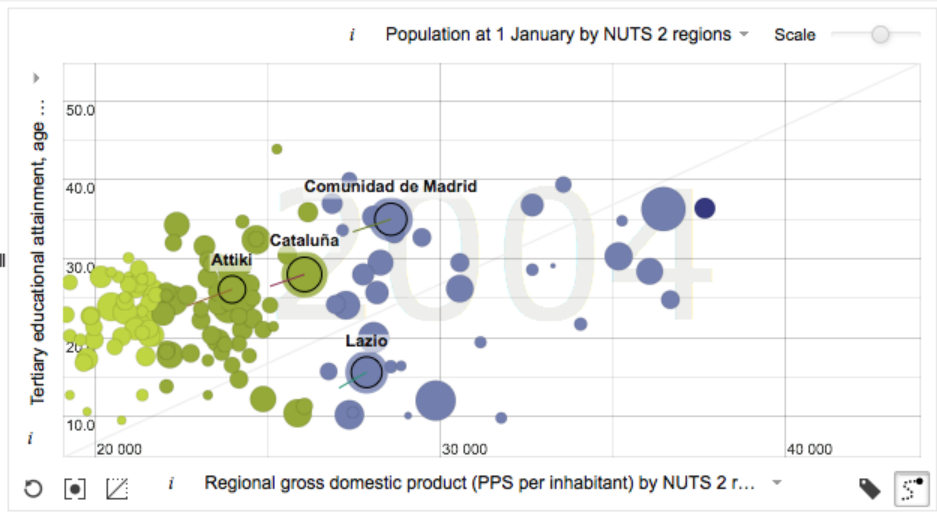
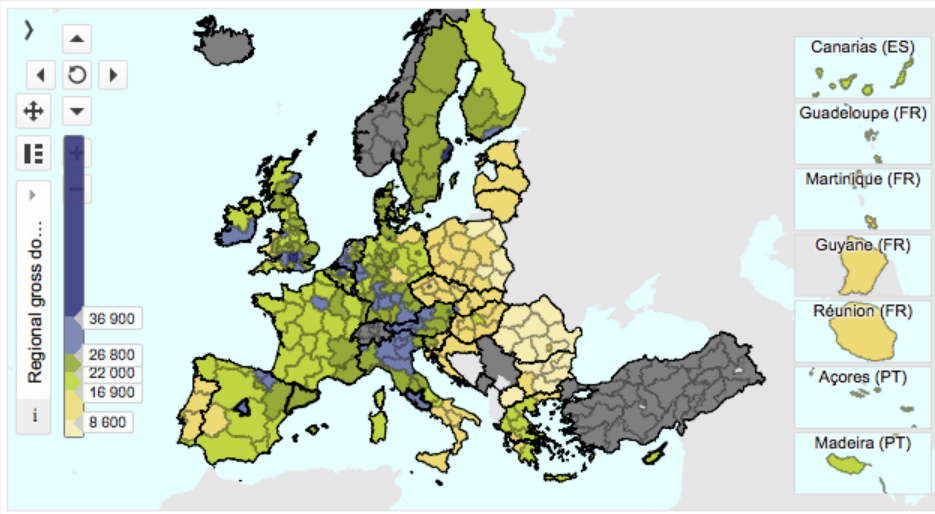
- **European Commission Cohesion Report**
- **Chapters from Eurostat regional yearbook**
- **Urban adaptation to climate changes (EEA)**



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Statistical domains: Education



2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 © NComVA

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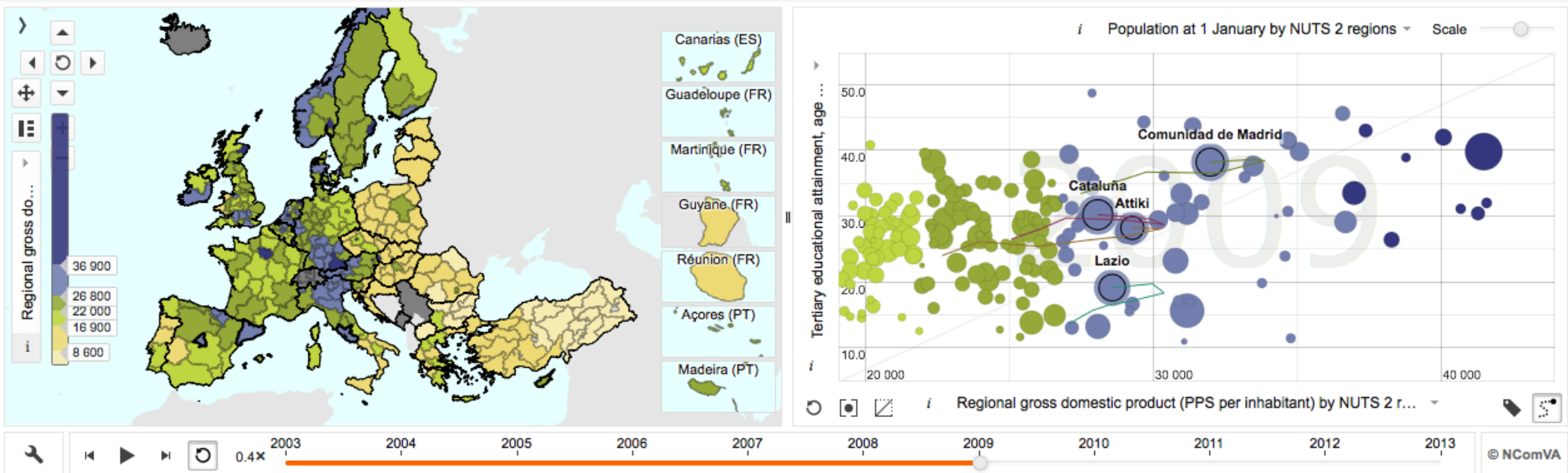


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Statistical domains: **Education**



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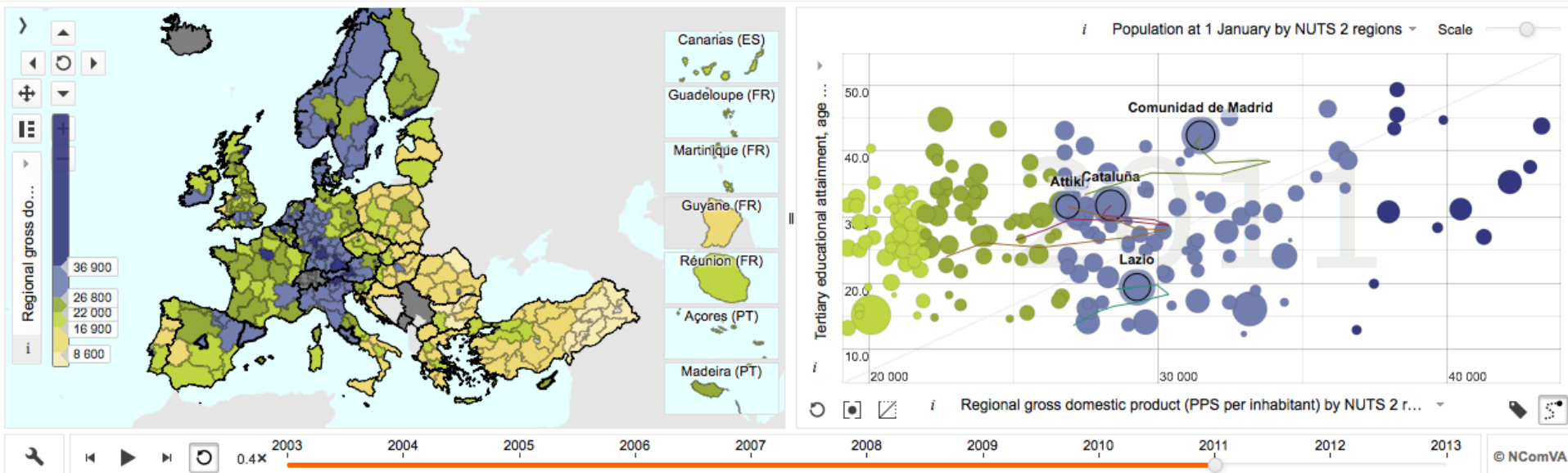


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Statistical domains: Education



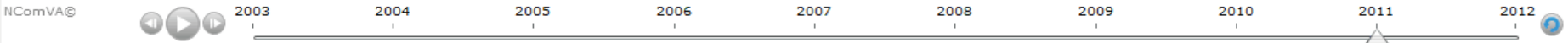
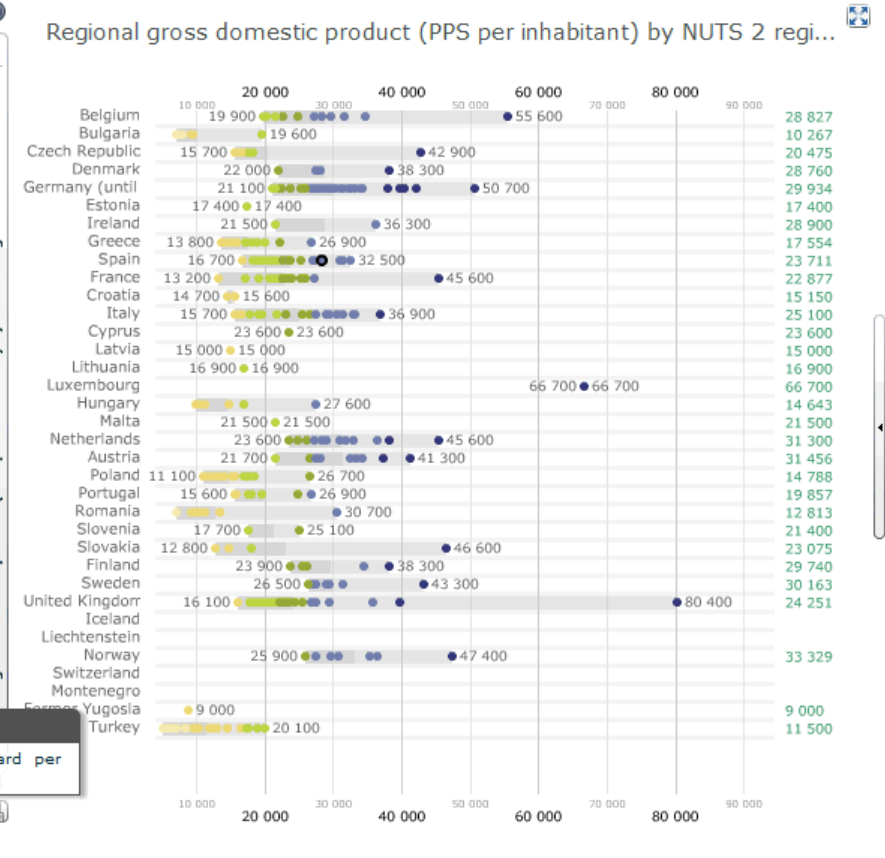
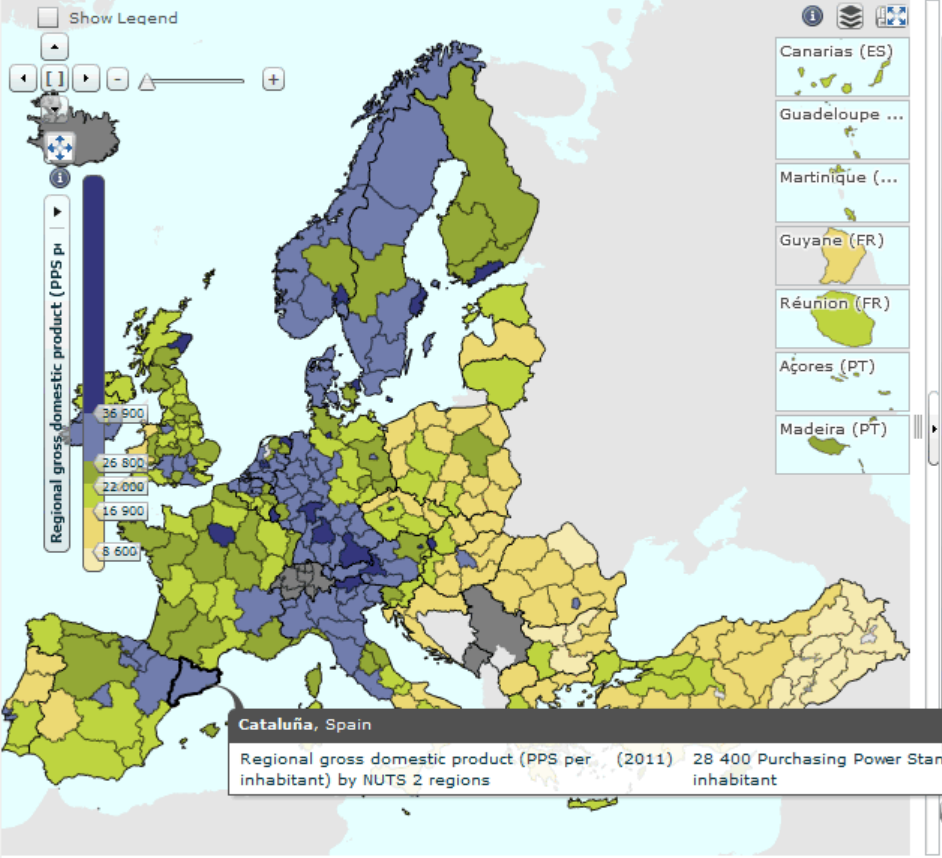
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Statistical domains: **Economy**



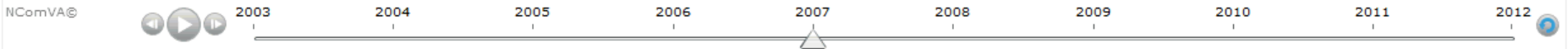
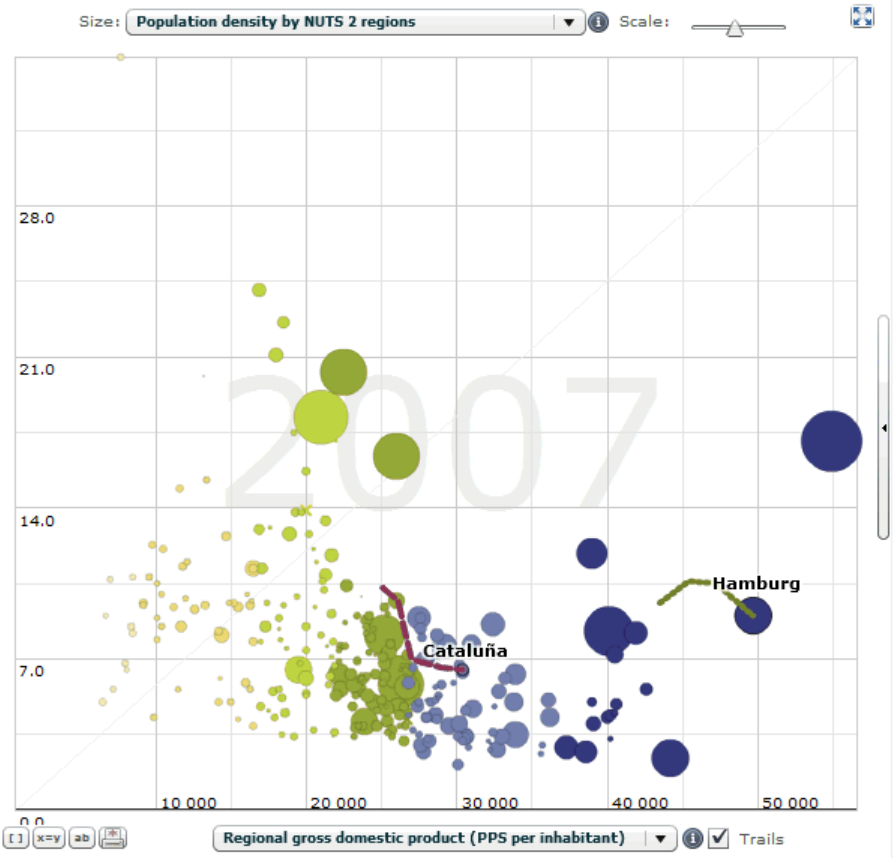
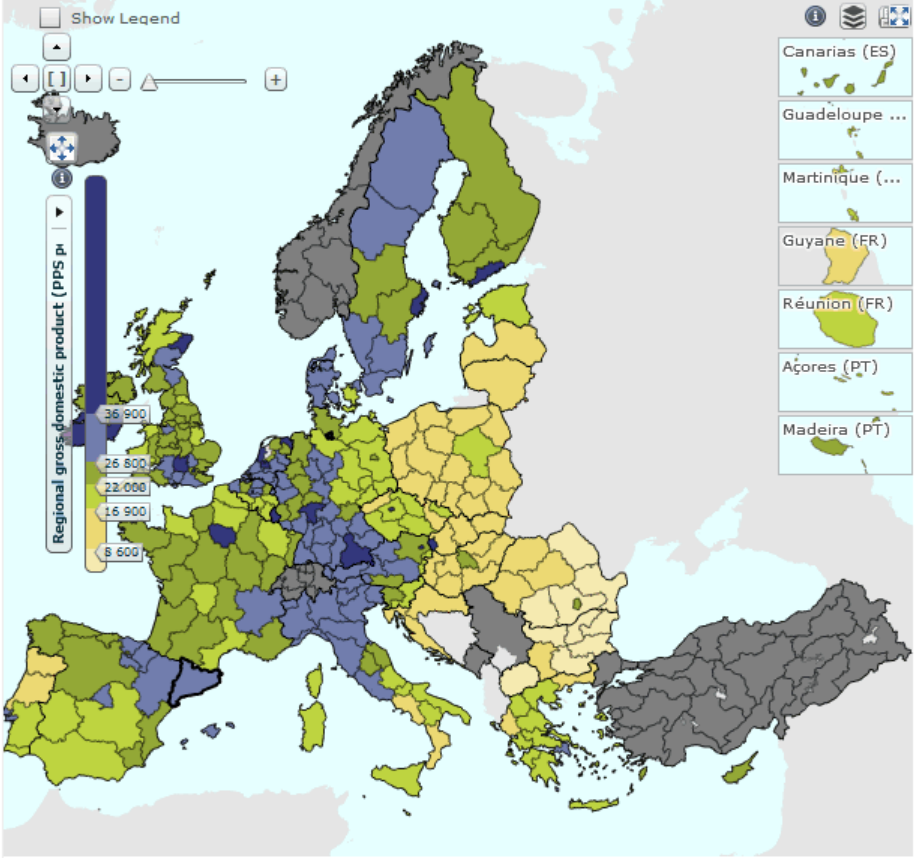
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Statistical domains: **Economy**



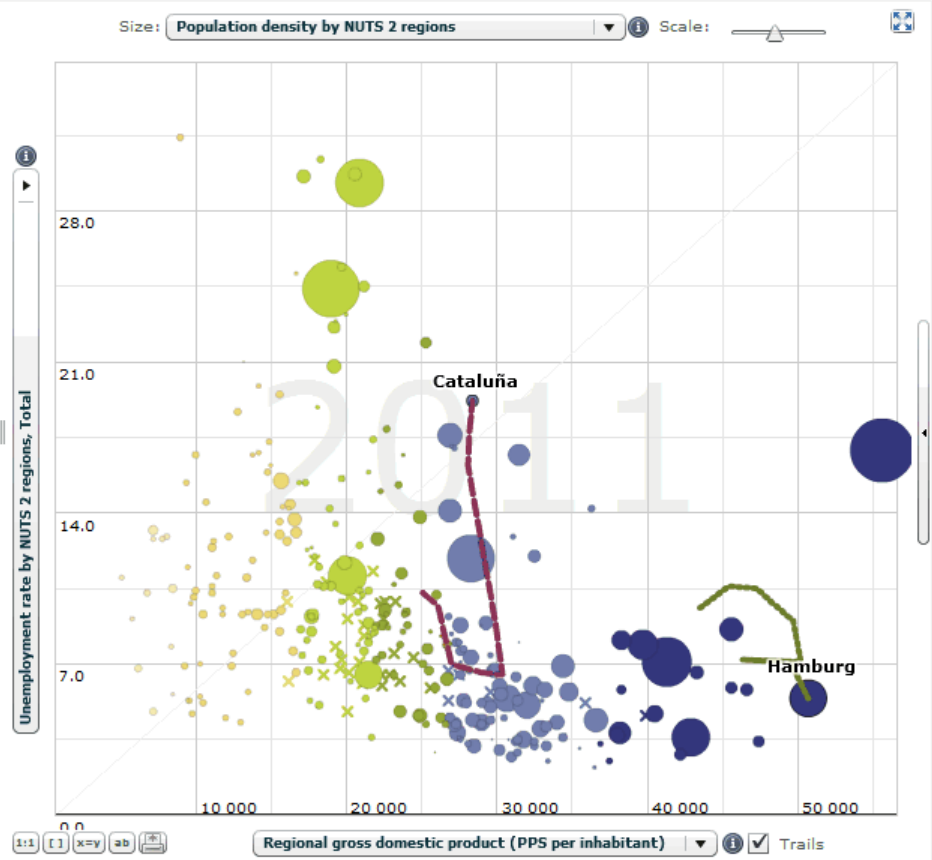
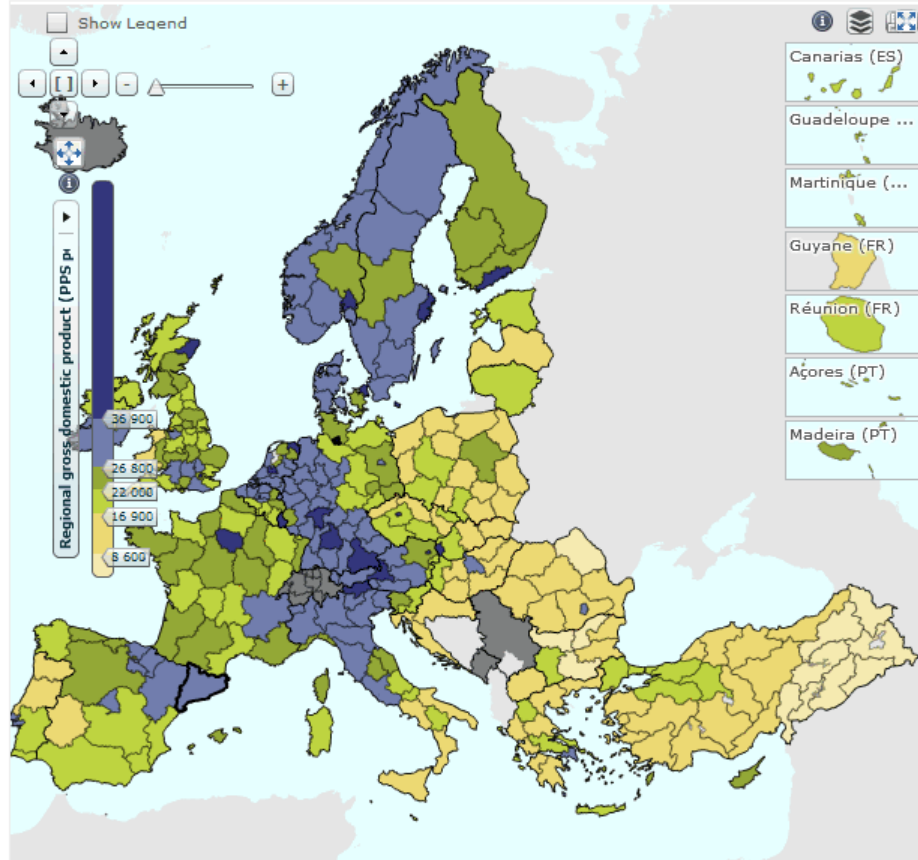
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Statistical domains: **Economy**



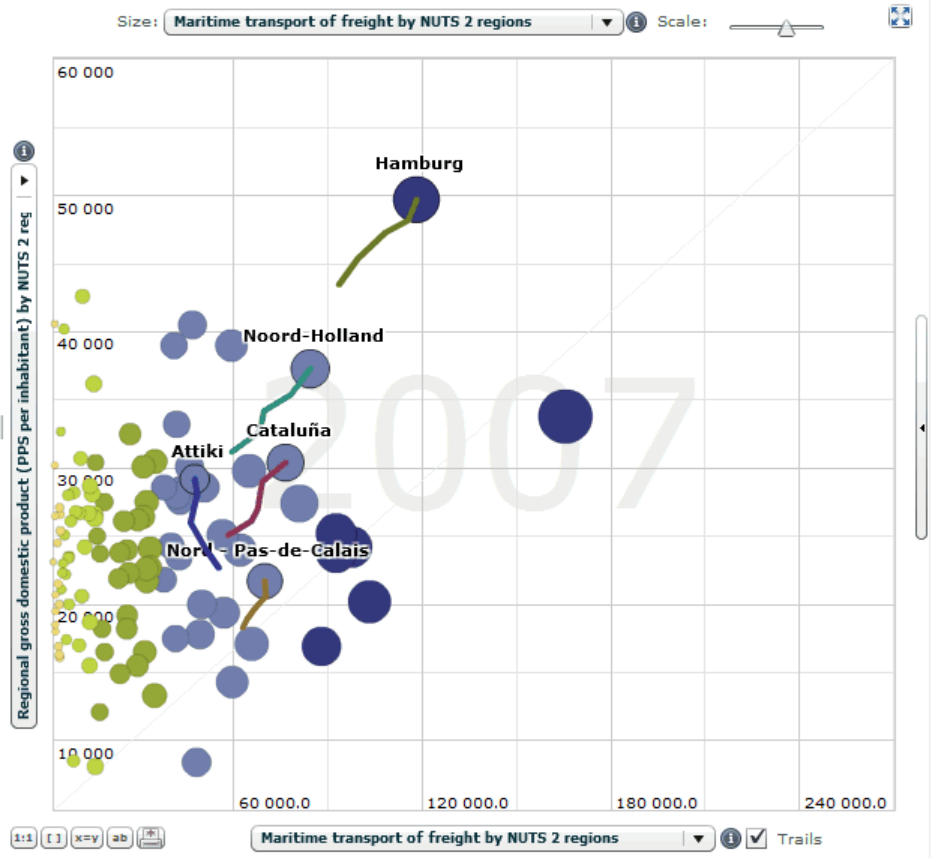
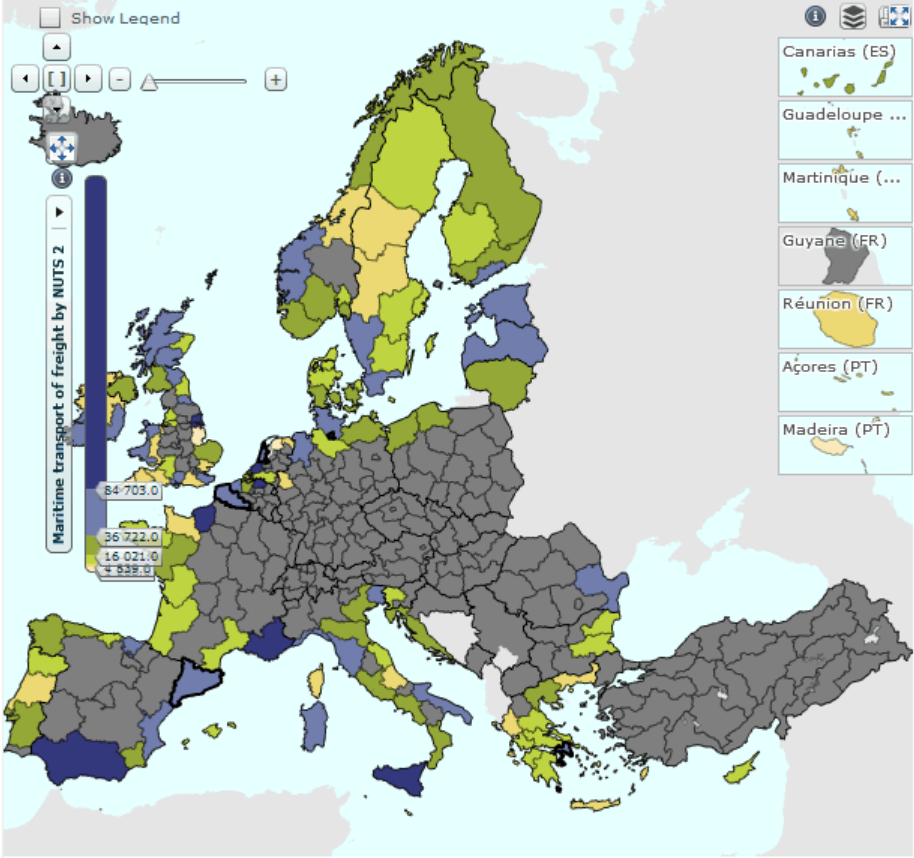
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Statistical domains: **Transport**



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

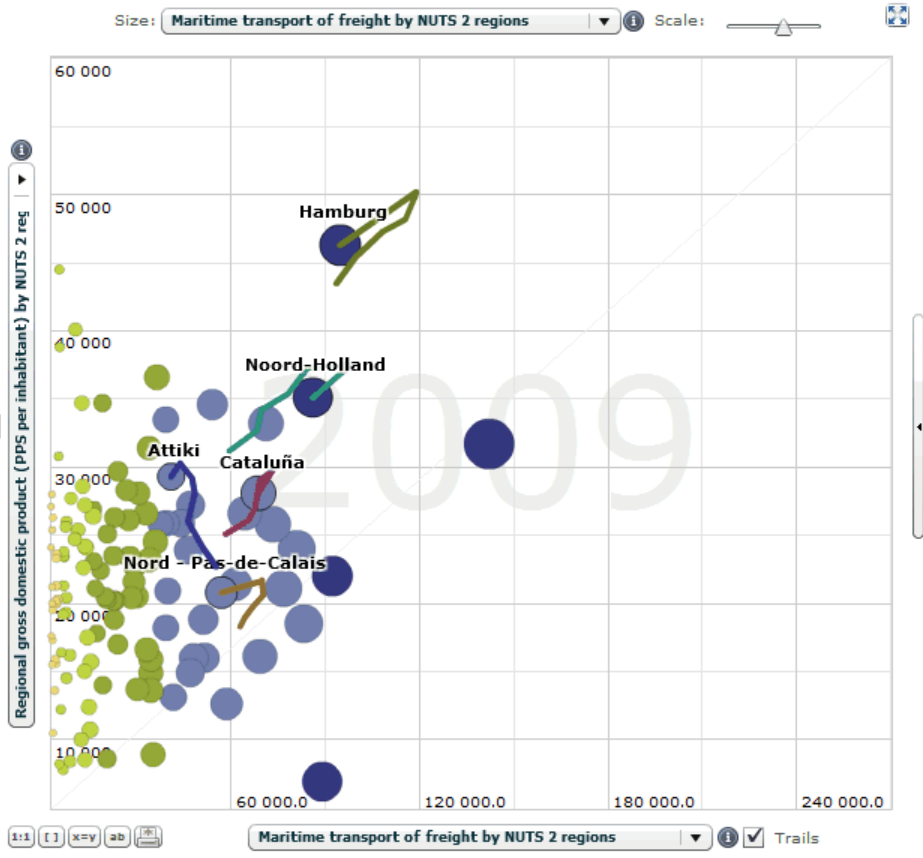
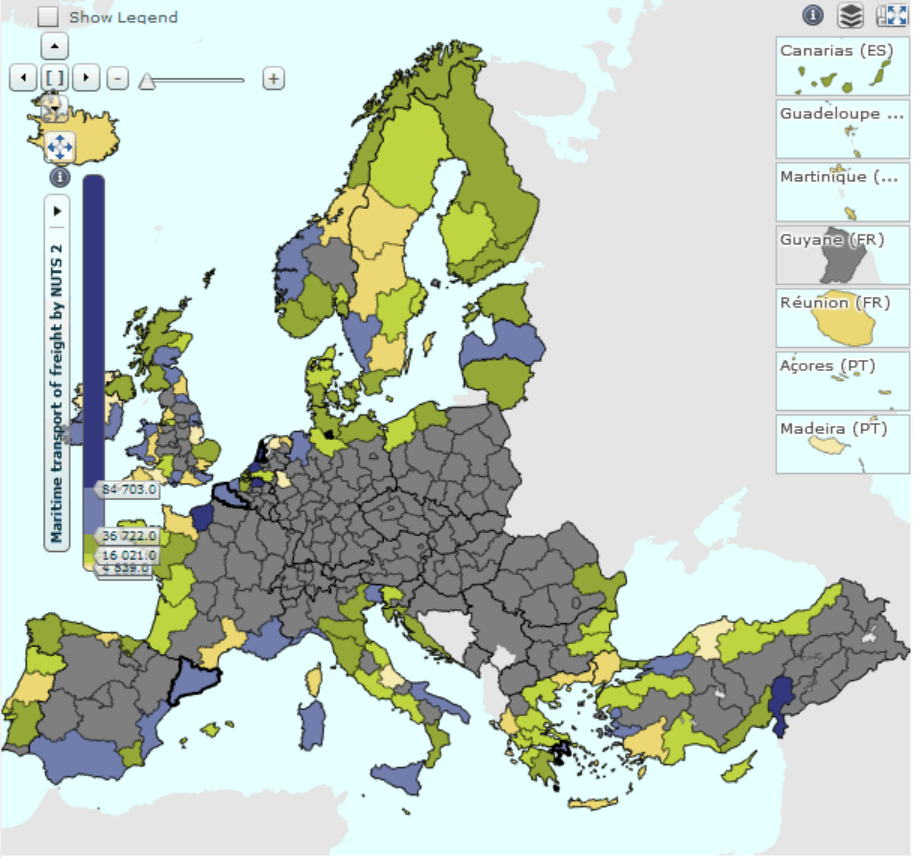


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Statistical domains: **Transport**



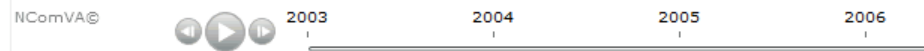
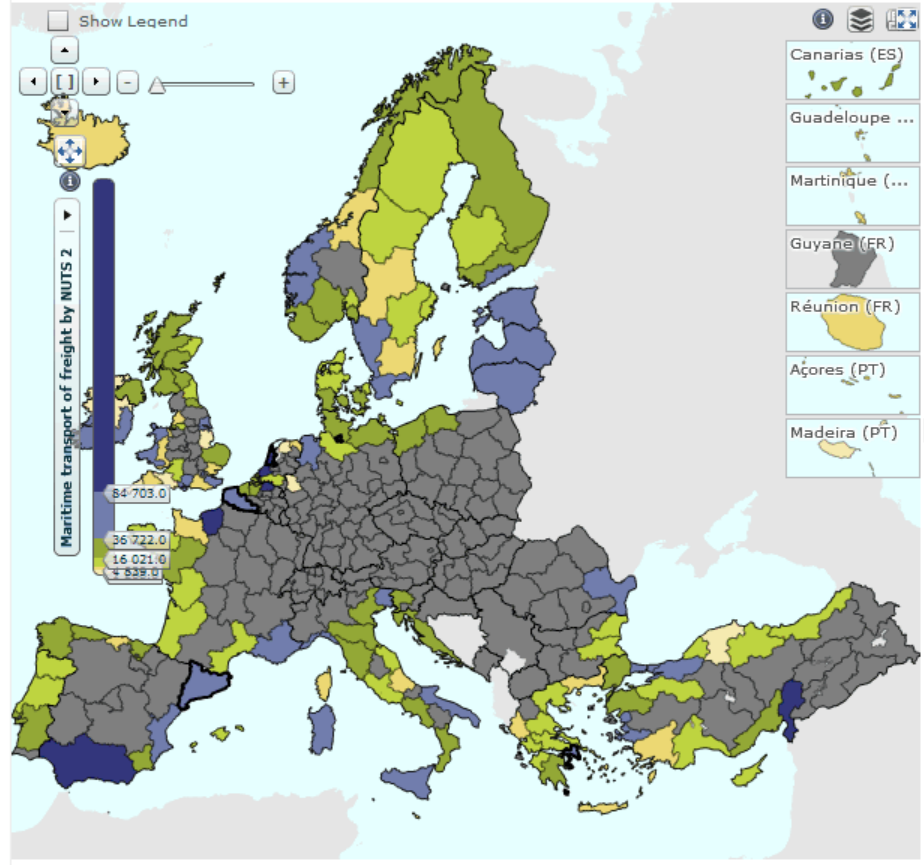
Distribution plot **Scatter plot** Bar chart Data table





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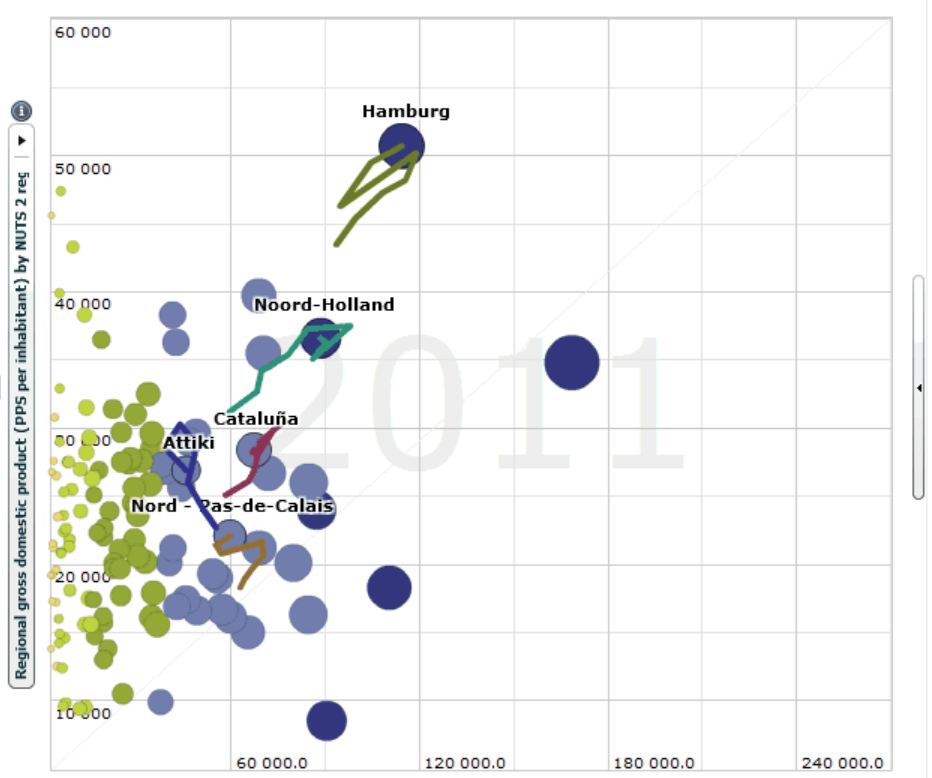
Statistical domains: **Transport**



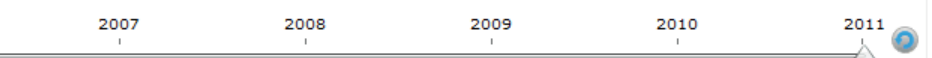
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Size: **Maritime transport of freight by NUTS 2 regions** Scale:



Maritime transport of freight by NUTS 2 regions Trails



Land cover/use information

Combines information from

- **Population grid**
- **Street network**
- **Natura 2000 areas**
- **CORINE land cover**

Relevant for

- **AGRI**
- **ENV**
- **REGIO**

Combined indicators of proximity to natural areas

