

Inspire policy making by territorial evidence

ESPON Seminar

South Europe at the crossroads

Are we making the right decisions about accessibility investments for the future?

Risks of territorial marginalization and policy design in the South

- why decision making is at the crossroads?

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General plan

What is South?

What is South for the ESPON Projects?

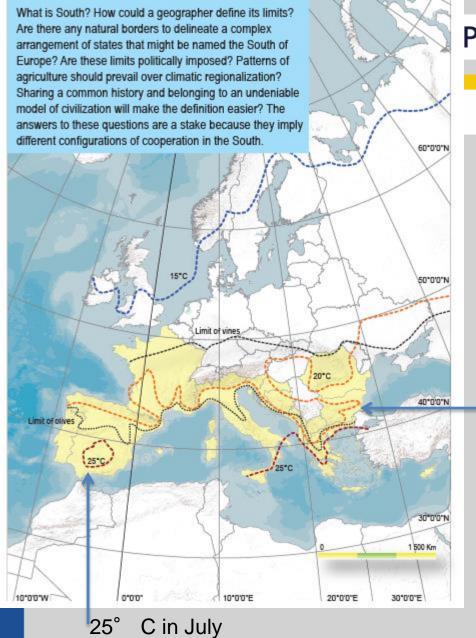
Myths about the economic performance of the Southern States

Economic performance and accessibility

Spatial equity and access to the TEN corridors

Challenges to be addressed – new patterns of mobility

Conclusions



- 1 access to the Mediterranean Sea
- 3 both Greek and Roman civilization background
- 4 geographical specificities



	CNTR	MEDIT	OLIVES	CIV	GEOSPECS	25°C	20°C	TOTAL
	CY	1	1	1	1	1	1	6
	ES	1	1	1	1	1	1	6
	GR	1	1	1	1	1	1	6
	IT	1	1	1	1	1	1	6
λ.	MT	1	1	1	1	1	1	6
	FR	1	1	1	1	0	1	5
	HR	1	1	1	1	0	1	5
	AL	1	1	1	0.5	0	1	4.5
	BA	1	1	1	0.5	0	1	4.5
	ME	1	1	1	0.5	0	1	4.5
	MK	0.5	1	1	0.5	0	1	4
	SI	1	1	0.5	0.5	0	1	4
	PT	0.25	1	0.5	0.5	0	1	3.25
	BG	0.25	0	1	0.5	0	1	2.75
	RO	0.25	0	1	0.5	0	1	2.75
	AT	0	0	0.5	0.5	0	1	2
	HU	0	0	0.5	0.5	0	1	2
	RS	0	0	0.5	0.5		1	2
	CH	0	0	0.5	0.5	0	0	1

5

20° C in July

TEMPERATURE CONTRAST IN THE SOUTH OF EUROPE

- ITALY VS. CYPRUS -

- TOP 10 HIGHEST TEMPERATURES RECORDED -

ITALY (average temperatures) CYPRUS

Year	T°C	Month	Country	Year	T°C	Month	Country
200	24.18	6	ITA	2003	28.90	7	CYP
201	5 24.01	7	ITA	2015	28.95	7	CYP
200	23.76	8	ITA	2003	28.98	7	CYP
200	23.39	7	ITA	2003	28.99	8	CYP
200	6 23.33	7	ITA	2006	29.19	8	CYP
201	23.17	8	ITA	2012	29.22	8	CYP
199	4 23.01	8	ITA	1994	29.26	7	CYP
201	0 22.98	7	ITA	2010	29.40	7	CYP
200	9 22.89	8	ITA	2009	29.85	8	CYP
199	4 22.79	7	ITA	1994	29.98	8	CYP

Data source : www.worldbank.org

This map does not necessarily reflect the opinion of the ESPON **Monitoring Committee** University of Geneva, GEOSPECS, 2012 Part-financed by the European Regional Development Fund INVESTING IN YOUR FUTURE Boundaries: © EuroBoundaryMap v4 2008; except Western Balkans and Turkey (GEOSPE

Territorial diversity

- multiple challenges
- multiple opportunities
- reactive&proactive planning

The geography as a datum

Focusing on the accessibility is a precondition for planning:

- islands
- mountain areas
- sparsely populated areas
- socio-economic problems

Priority: connecting territories

Geographic specificities identified in each LAU 2-unit

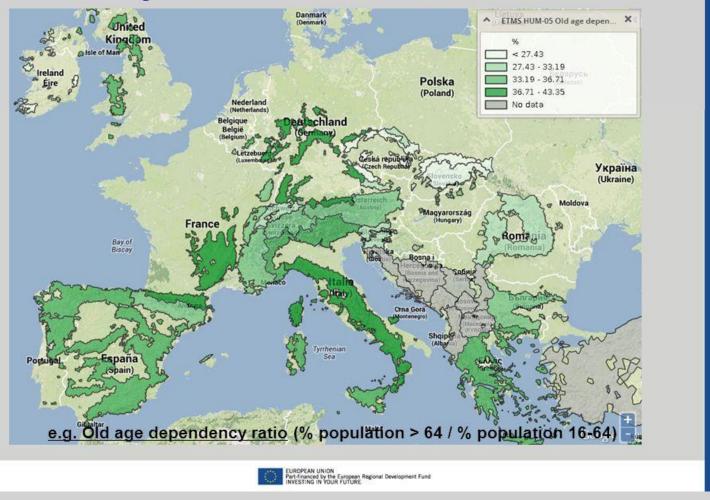


In GEOSPECS, Sparsely Populated Areas have been delineated on the basis of population potentials, i.e. the number of persons that can be reached within a maximum generally accepted daily commuting or mobility area from each point in space. Two approaches were used, with a threshold of 100,000 persons (i.e. 12.7 persons/km² within 50 km) to: 1) to delineate SPAs, based on the isotropic distance, i.e., the possibility to commute 50 km from a point in all directions equally Islands with a fixed link to the continent have not been considered 2) to delineate "poorly connected areas" (PCAs), based on population potential using 45-minute travel times along road networks, as a proxy for the maximum generally accepted commuting distance. SPAs were clustered into 39 'Sparse territories

Islands with a fixed link to the continent have not been at Fund

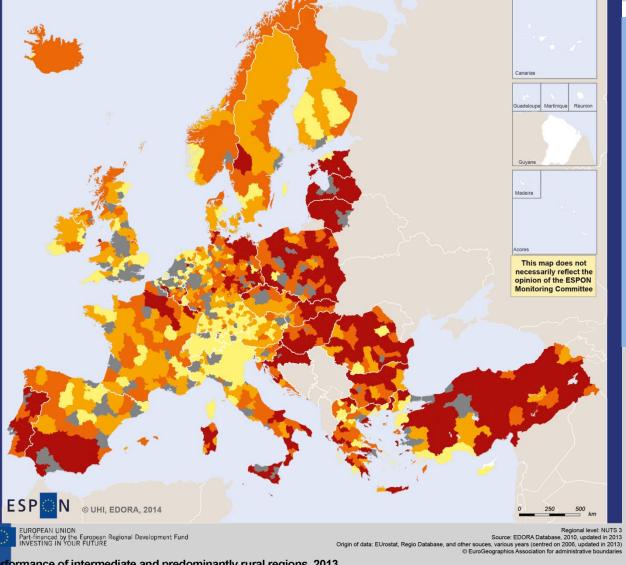
2. Maps for territories with regional specificities (based on LAU)

Mountain ranges as defined in ESPON GEOSPECS



More specifically (1): rough terrain + ageing population => accessibility to specific services





More specifically (2):

- a South in the South

- policy against the gradients

-depleting = peripheral, ergo accessibility is a stake

Performance of intermediate and predominantly rural regions, 2013

Predominantly Urban Regions

Depleting

Below average

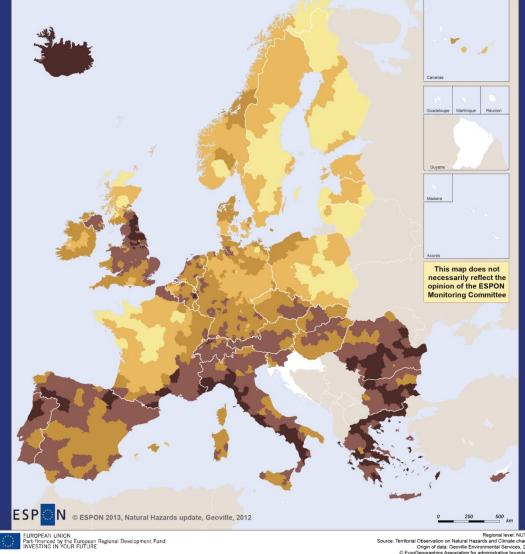
Above average

Accumulating

No data

Five indicators were used in the calculation of a composite regional performance indicator : net migration, GDP per capita, average annual change in GDP, average annual change in total employment, and unemployment rate.

The composite indicator was simply calculated as the average of the normalised (Z) scores for the five indicators (In CH, and TR there are many gaps in the data. In CH the A-D score is based only upon Net Migration and Unemployment, whilst for TR on GDP per capita and GDP change are present. The A-D scores, ant typology codes for these countries are therefore not comparable with those for EU27 and NO.)



rial Observation on Natural Hazards and Climate chan-Origin of data: Geoville Environmental Services, 20

Natural hazard exposure potential

Very low

Moderate

Very high

No data

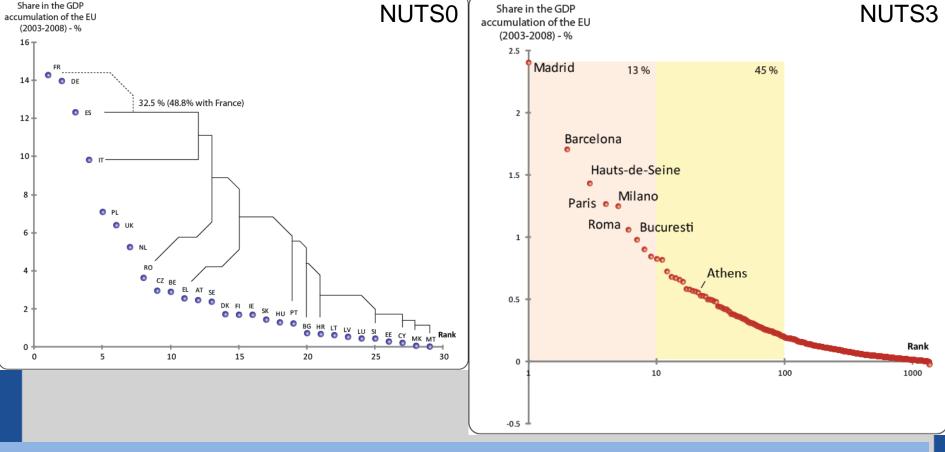
To identify those regions under threat by more than one natural hazard, an aggregated hazard exposure potential can be used. This potential is based on a weighted aggregate of single natural hazard exposures.

- 1. Average floods per year/catchment, 1985 2011 (weight 19)
- 2. Observed forest fires; biogeographic regions, 1997 2012 (weight 14)
- 3. Drought frequency, 1991 2010 (weight 13)
- 4. Modelled earthquake hazard, 2010 (weight 12)
- 5. Occurrence of winter and tropical storms, 2006 (weight 10)
- Extreme temperatures (Occurrence of warm and cold spells), 1981 2010 (weight 9)
- 7. Landslide occurrence, 2012 (weight 8)
- 8. Storm surge occurrence, 2012 (weight 7)
- 9. Potential avalanche occurrence, 2000-2011 (weight 3)
- 10. Occurrence of volcanic eruptions, 10.000 B.C. 2012 (weight 3) 11. Tsunami occurrence, 2000 B.C. 2012 (weight 2)

- More specifically (3):
- the exposure to natural hazard is consistently higher in the South
- the opposition between the rural and the metropolitan areas is no longer relevant
- -what is the connection between exposure, accessibility and reactive policy decisions? A logical one ...

Profile of policy design:

- reactive
- proactive
- protective

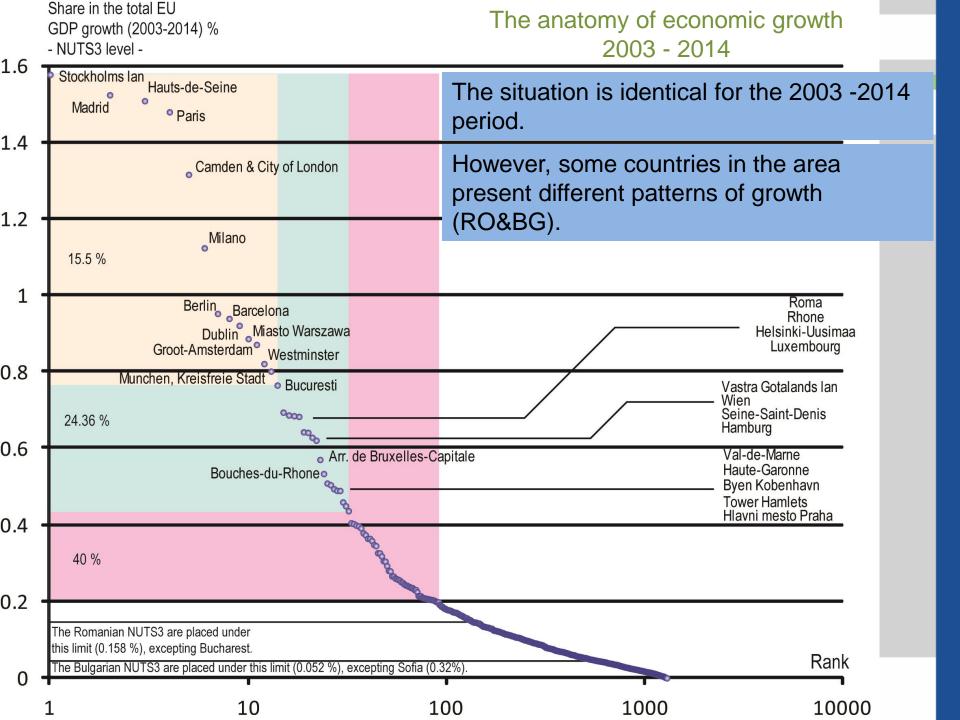


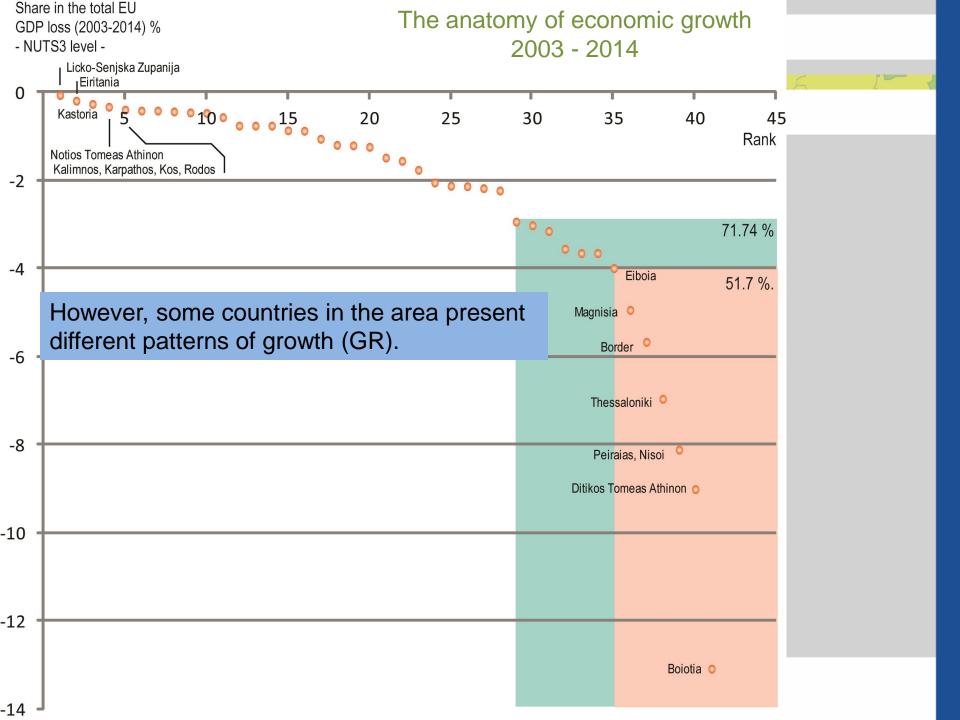
Common places about the South:

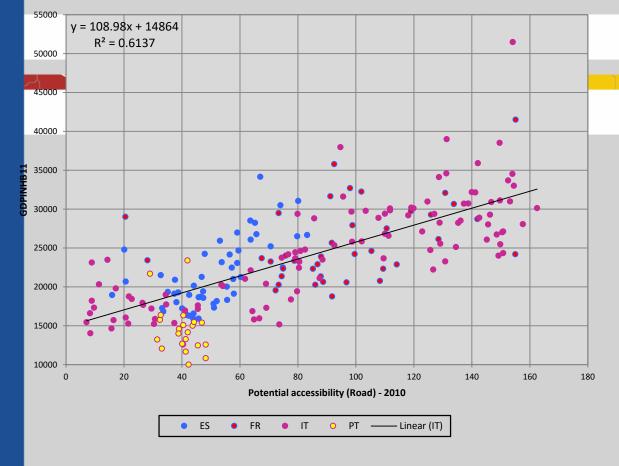
- the South is not an engine of economic growth

Reality:

- the Southern states are responsible for 33 % of the economic growth in the EU (2003-2008)
- the NUTS3 from the South are in the top of the hierarchy of GDP accumulation (2003-2008)







Spain y = 194.95x + 11803 $R^2 = 0.4241$

France y = 71.049x + 18787 $R^2 = 0.1629$

Italy y = 108.98x + 14864 $R^2 = 0.6137$

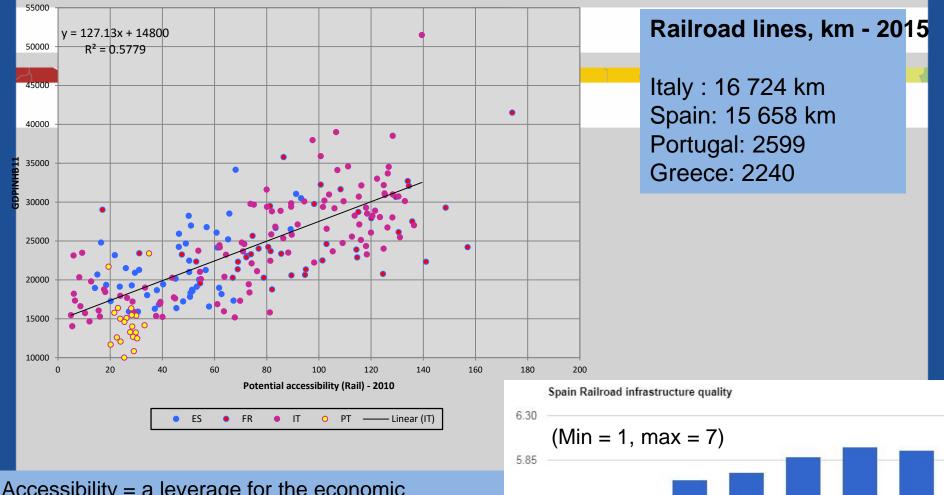
Portugal y = -191.86x + 22180 $R^2 = 0.109$

Accessibility = a leverage for the economic performance

Different rhythms.

Road accessibility > rail accessibility > air accessibility

Data source: Eurostat and ESPON DB (TRACC)

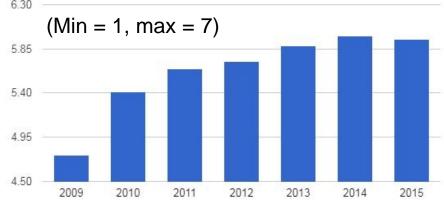


Accessibility = a leverage for the economic performance

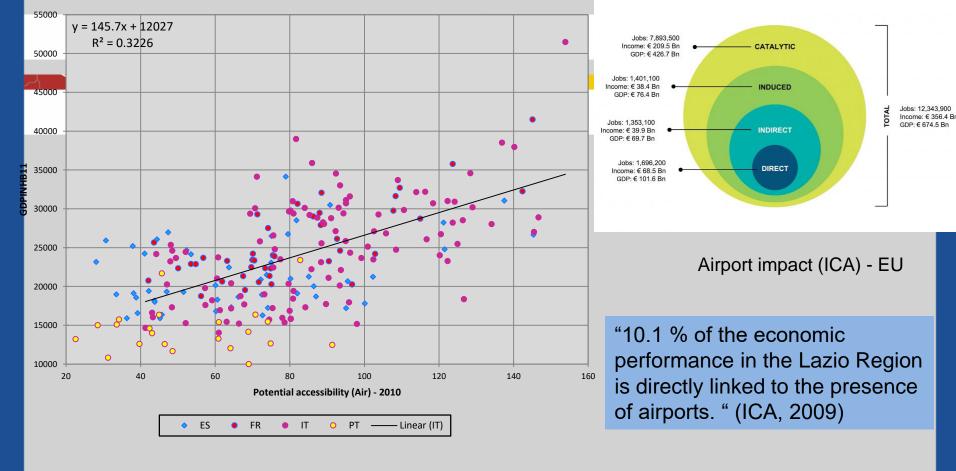
Different rhythms.

Road accessibility > rail accessibility > air accessibility

Data source: Eurostat, ESPON DB (TRACC), WDB



Source: The Global Economy.com, World Economic Forum



Accessibility = a leverage for the economic performance

Different rhythms.

Road accessibility > rail accessibility > air accessibility

Data source : Eurostat, ESPON DB (TRACC), composite data providers

AIRP_NAME	CITY	PAX_1000K
Leonardo da Vinci–Fiumicino Airport	Rome	41.745
Malpensa Airport	Milan	19.421
Orio al Serio Airport	Bergamo/Milan	11.160
Linate Airport	Milan	9.682
Venice Marco Polo Airport	Venice	9.625
Catania-Fontanarossa Airport	Catania	7.914
Bologna Airport	Bologna	7.681

Naples

Palermo

Rome

Pisa

6.776

5.396

5.326

4.989

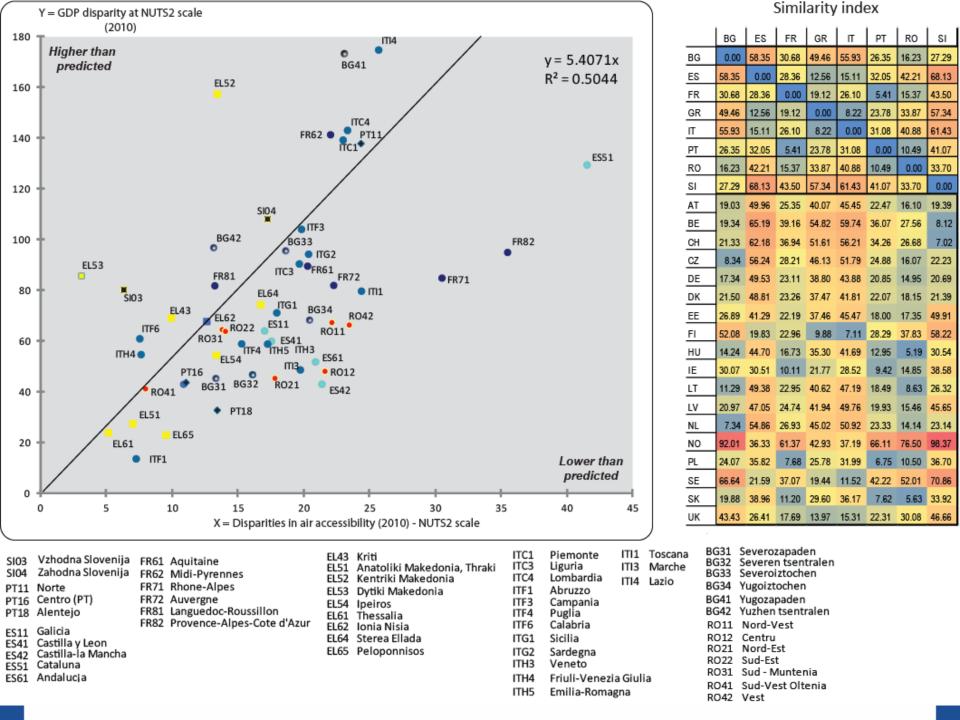
129.714

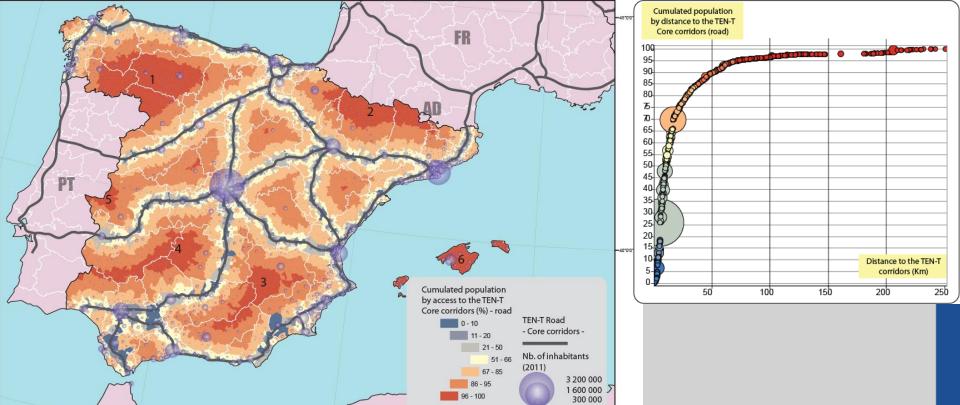
Naples Airport

Rome Ciampino Airport

Galileo Galilei Airport

Falcone-Borsellino Airport





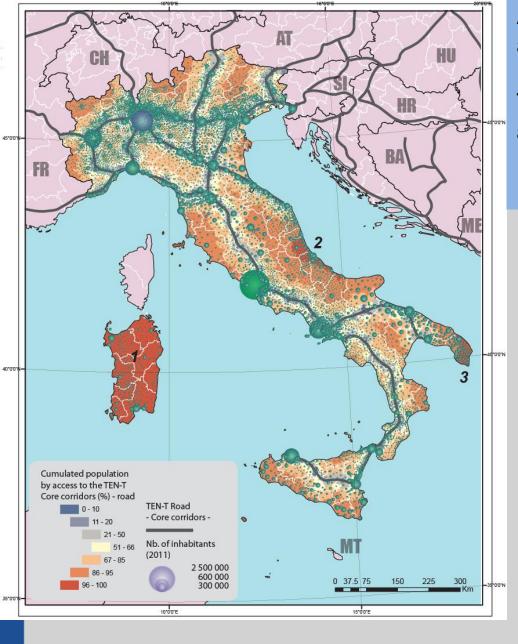
TEN-T and accessibility

Good News:

- -70% of the population is located at less than 20 km
- the void areas concern sparsely populated areas

Bad news:

- the void areas concern sparsely populated areas
- only 4.6 millions of inhabitants are located in the void areas (> 90 %)

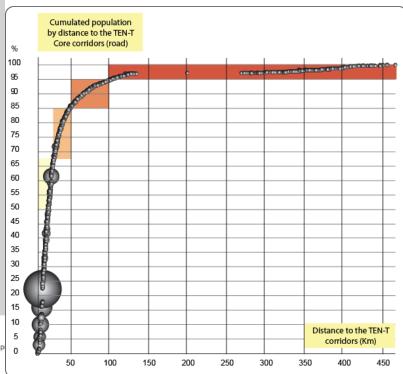


Almost 9 million Italians are located at more than 50 Km from a core corridor.

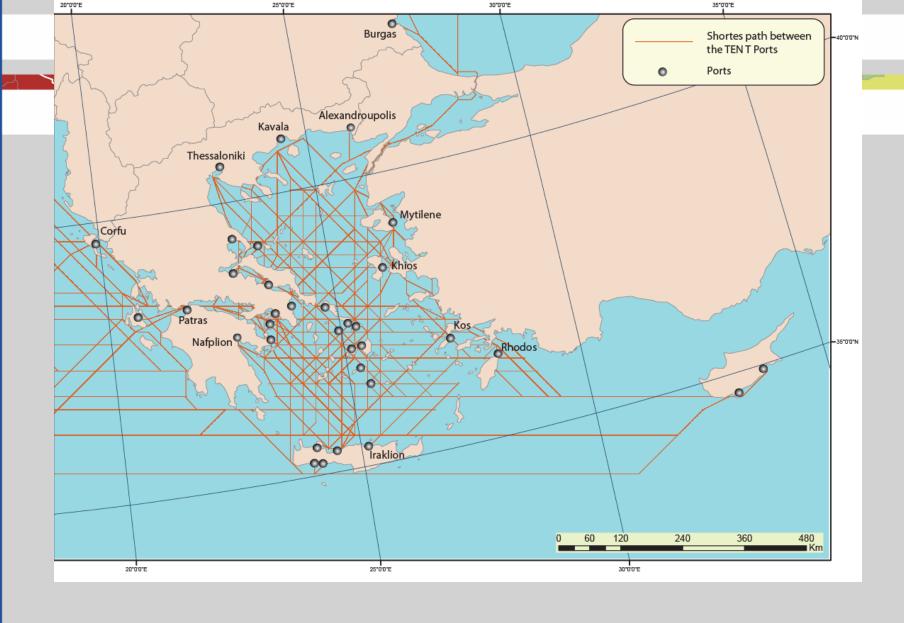
The large metropolitan areas are located at less than 25 Km from a corridor.

North vs. Centre vs. South

- 1. SARDINIA & OTHER ISLANDS
- 2. TERAMO, PESACARA, CHIETI, CAMPOBASSO
- 3. LECCE

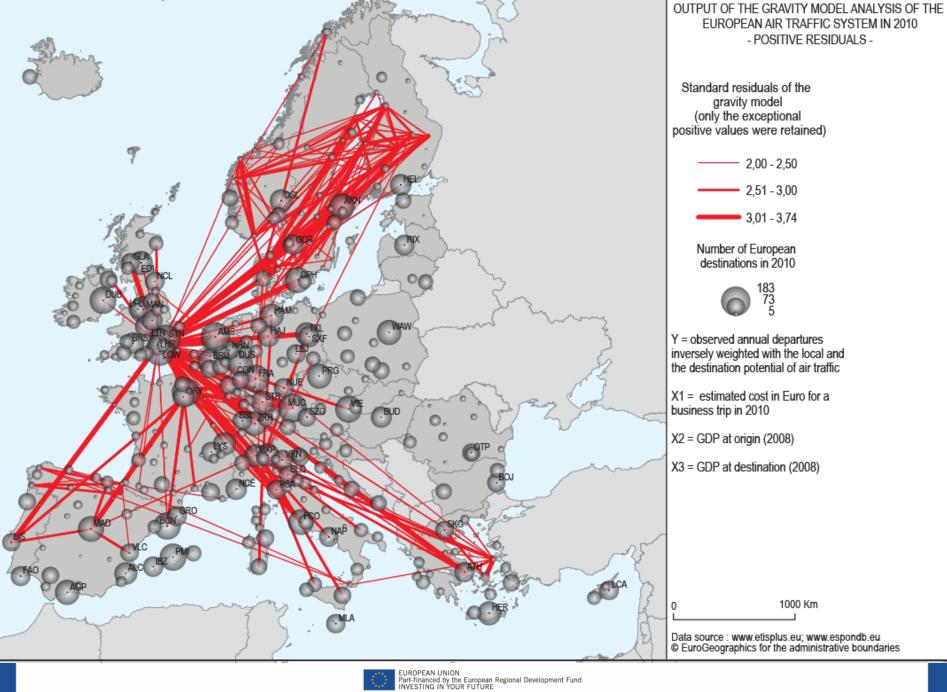


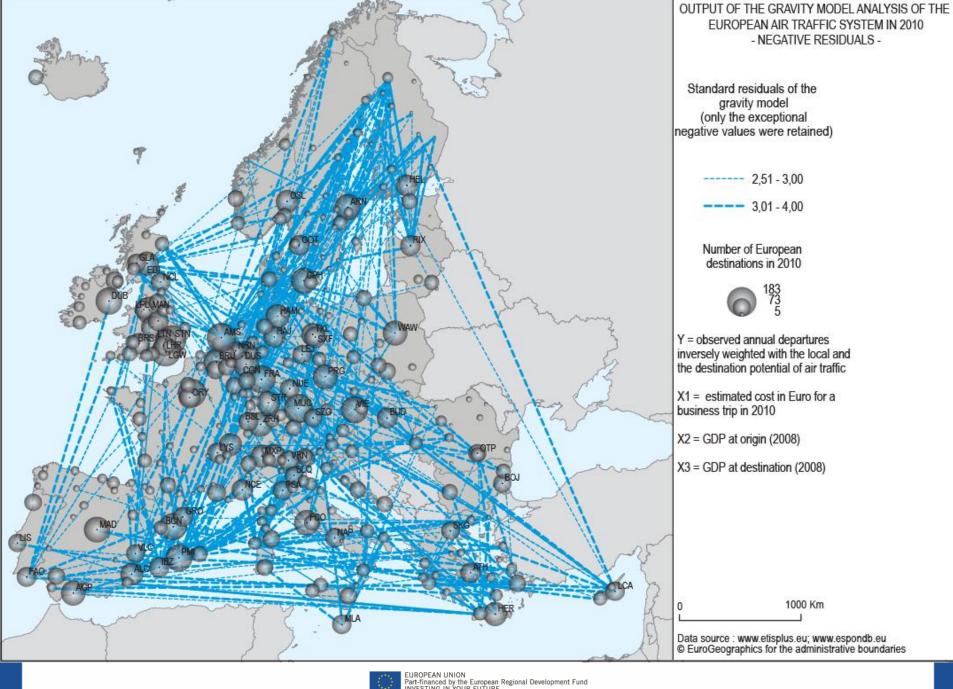


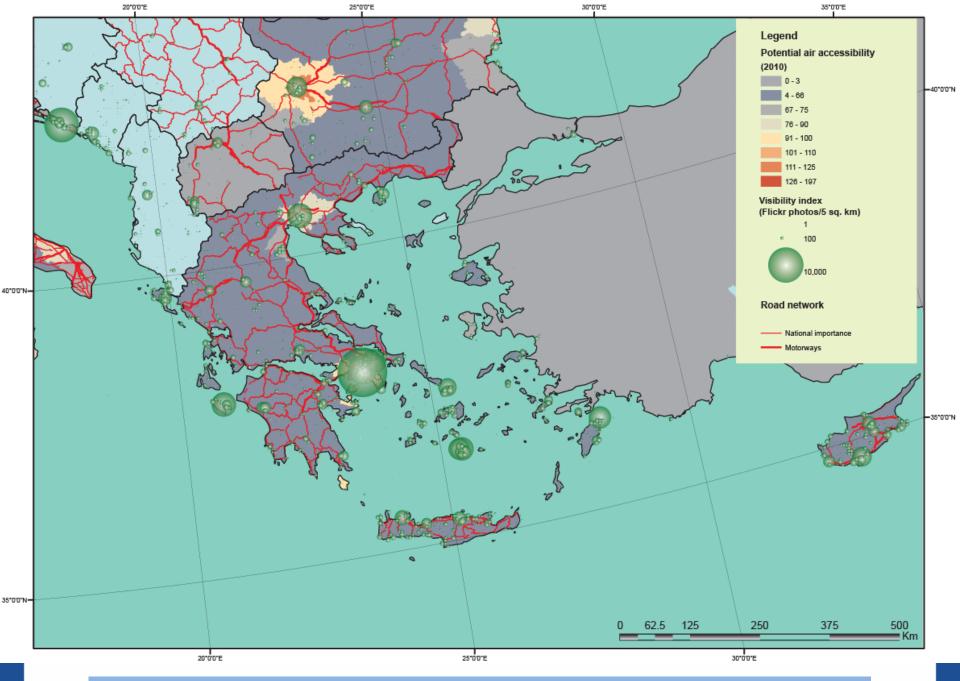


TEN – T is not only about the roads => void areas at sea?

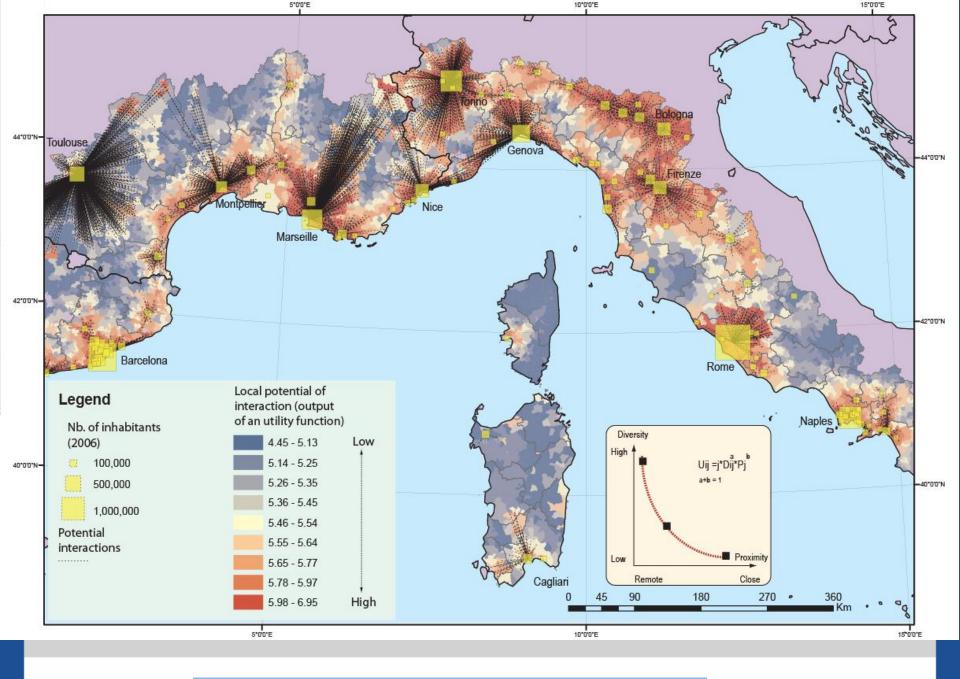
Cyclades, Sporades&other islands have their own geography of transportation.







Connecting the accessibility planning with the mobility of population.



Local accessibility => towards new stakes.



Conclusions:

- more empirical studies at local level are needed
- access to data describing the flows system should become a priority in the ESPON studies
- more accessibility is just a starting point in recovering some path dependency trends of economic growth