



# ESPON 2006 Programme Project 3.3

# Territorial dimension of the Lisbon/Gothenburg Process

**Lead Partner:** Centre for International Studies on Economic Growth Faculty of Economics, University of Rome "Tor Vergata"

**Project Partners**: Centre for Urban Development and Environmental Management, Leeds Metropolitan University (UK); OTB Research Institute for Housing, Urban and Mobility Studies, Technical University of Delft (NL); Centre of Geographical Studies, University of Lisbon (P); Centre of Urban and Regional Studies (CURS), Helsinki University of Technology (HUT) (FI); Slovenia ESPON Contact Point

Subcontractors: Mcrit sl., Barcelona (E); IGS, Italian Geographical Society (I)



## Political goals at the base of the research

#### 3.3. contextualised results:

- 1. Political recommendations and indications to revisit the **Structural Funds 2007-2013**, having full coherence with the dictates on **competitiveness** of Lisbon (2000 and renovated in 2004-05), performing **sustainable** economic and social development (Göteborg, 2001) as a support for a policy of *cohesion* towards *integration* of the EU **regional territories**
- 2. New list of indicators about both competitiveness and sustainability, to measure the *territorial competitiveness in sustainability*
- 3. Proposal of some **transnational cooperative areas** to act upon by the new Structural Funds, according to precise indications expanding the base of the cohesive participation



# 3.3 TPG political choices to revisit the Structural Funds 2007-2013 according to Lisbon and Göteborg territorial dimension

Some **composite indicators** (4, to be combined into a synthetic one) to measure the L/G territorial dimension and strategies looking at:

- The ESDP policy
- Policies from the other ESPON projects in relation to the Lisbon-Gothenburg strategy
- Policy recommendations derived from the Lisbon strategy through the 4 determinants
- Policy recommendations derived from the Gothenburg strategy through the 4 determinants
- Policies from other sectors or opinion groups (e.g. Metrex, EESC, COR, SMF, etc.)



# General policy recommendations arising from the territorial dimension of Lisbon/Gothenburg

- to review the open method of coordination (OMC) introduced by the Lisbon Strategy and to adopt in experimental substitution the European Strategic Territorial/Environmental Assessment processes (e.g. SEA) applied to policies and programs at different subsidiarity level of constitutional country organisations;
- to apply Specific Environmental Concerns by appropriate technological support (e.g. IPPC, BAT, etc.) and procedures (TQ, EMAS, CSR) particularly into institutional actions and enterprise delocalisation investments towards the new Eastern countries
- to study integrated strategies about the offer of 'research/education delocalization'
- to apply the subsidiarity principle and the relative rules to create a link between territorial government and governance (bottom-up vision), favoring the intra and interregional cohesive instruments
- to revisit the application of Social Quality and Cohesion principles looking at some common indicators on the base of social and welfare system and the capability of sustaining the balanced and satisfactory relationships between stakeholders and shareholders
- to build a common model/procedure for contrasting the risk of social exclusion looking at the children and ageing people;
- to invest in the life and environmental quality with regard to public expenditure for employment;
- to fix some common rules for making the places to invest in and work more attractive and developing and sharing good practices with public and private business partners
- to support innovation and tech transfer jointly with technical assistance and advisory financial services provided to agencies working for creation and development of SMEs, looking at the question of Access to Intellectual Property from research organisations
- to include in the Espon researches the study of new instruments to better meet the Lisbon/Gothenburg objectives (e.g new risk capital instruments for SME start-ups using environmental technologies).



## How the 3.3 project obtained the A case results

- By concentrating the research on the 4 main addresses of Lisbon/Gothenburg dimension (determinants or synthetic indices):
- 1. Innovation & Research
- 2. Global/Local Interaction
- 3. Quality
- 4. Resources & Funds
- In respect of the principles of the EU cohesion
- On the base of a new measure using new instruments
- Looking at the territorial dimension and not only at the spatial one
- Integrating and making interaction between sectoral policies and territorial capabilities (local identities at regional level)
- Amplifying the base of participation by the transnational cooperation

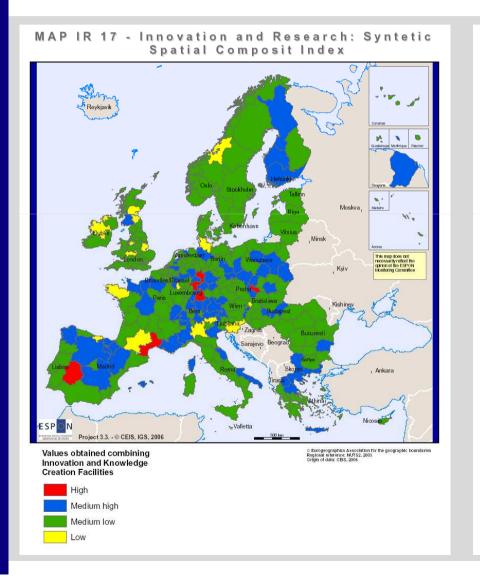


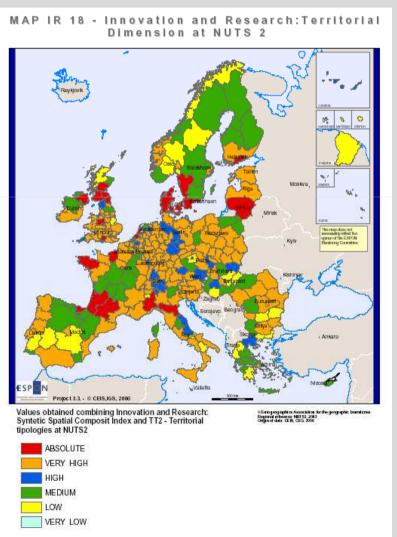
### Policies recommendations with regard to Innovation & Research

- common measures directly dedicated to the countries showing very low I&R profiles, with respect to the national plans to invest in an appropriate technological base (I&R exchanges and growth about ICS)
- improving the share of population and firms "surfing the web" in Eastern countries and Mediterranean area to sustain internationalisation
- common education as a base of the ICS (from the tertiary education level by lifelong learning projects) putting attention towards the medium age population and their possible re-involvement into the productive system with new responsibility positions
- innovation and restructuring of the knowledge structures and R&D infrastructures (new telecommunication systems and dedicated technologies by European patents) to sustain exchanges between research products and their applications
- a better link between I&R and local job market, opening new Structural Funds at the SM firms-regional institutions-educational/research system joint;
- the SF participation in the public-private cooperation about education (Mediterranean and North Sea regions, Baltic ones including Estonia, Latvia, Lithuania, Eastern European regions) balancing the EU offer and mobility of Human Capital towards the Eastern regions;
- the actualisation of the tertiary education level to the international needs (Mediterranean regions) in order to realise more telecommunication, horizontal structural connection and integration, over taking the design of the positive 'Y', using especially new technologies contributions.



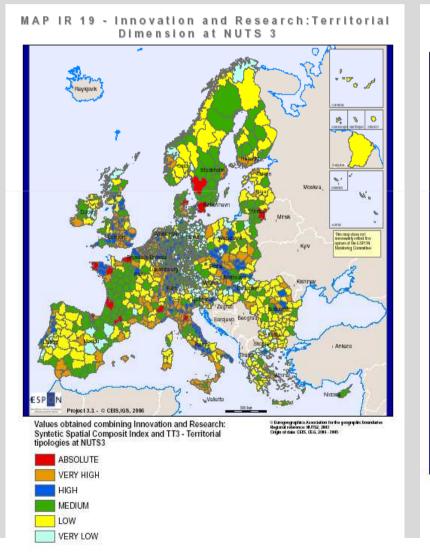
# The I&R current territorial patterns







# First proposal of some transnational cooperative areas from the Innovation & Research territorialisation







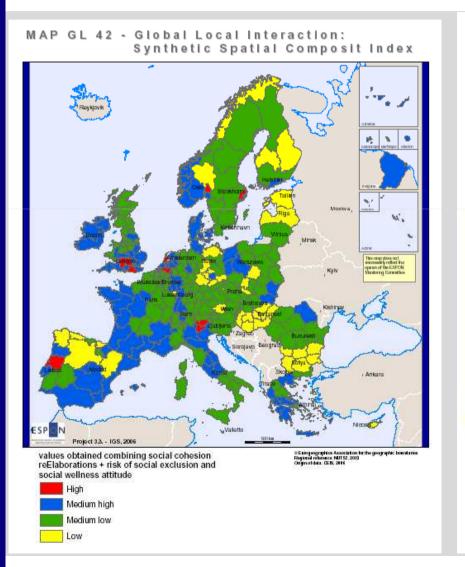
#### Policies recommendations with regard to

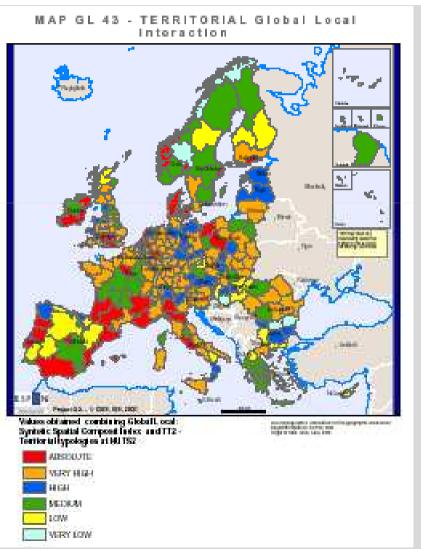
#### **Global Local Interaction**

- to create a common language in the global 'arena' of competitiveness and sustainability
- to guarantee an appropriate level of security of population migration
- to valorise tourism into a general territorial appeal, linking tourism to the education mobility, sustaining the family income offering a new educational and knowledge system by globalization inputs and ICS;
- to launch specific environmental projects for excluded active population (new job market in the coastal or boundary countries)
- to sustain a global vision into the student and researcher outbound regional mobility
- to launch specific manufacturing enterprise policies
- to improve polycentric models as alternatives to the capital regions
- to implement G/L infrastructures involving credit institutions level and insurance companies to sustain a better general management attitude
- to stress the delocalization particularly in borderline regions
- to confirm the cohesion regional funds to reinforce the local social interaction, involving the manufacturing enterprises and local trade activities, by specific fiscal and financial instruments
- to consolidate the internal goods and services trade using the same rules of the free EU market circuits, favoring the internationalization position of regional systems
- to re-organise a balanced distribution of management attitude



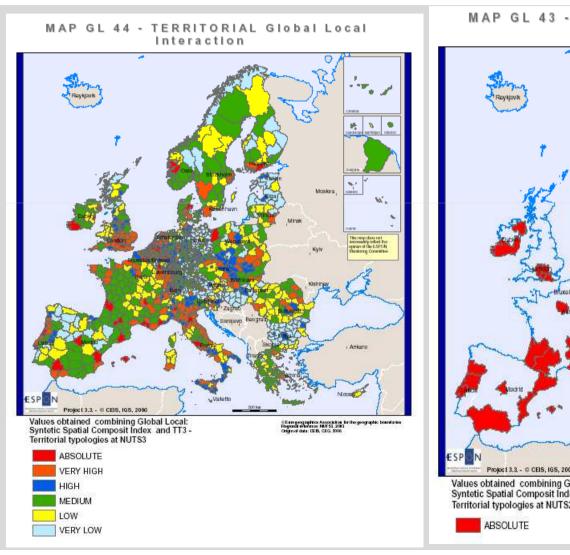
# **Maps of Global/Local Interaction**

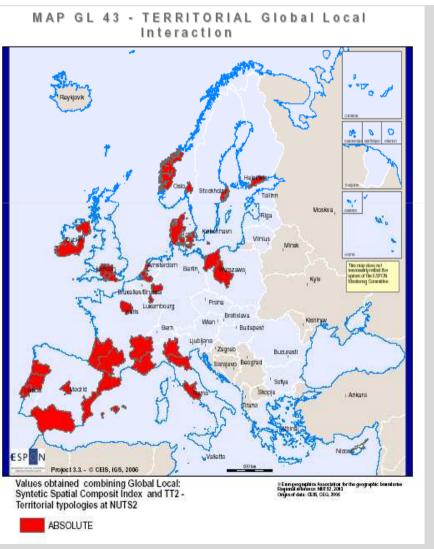






# First proposal of some transnational cooperative areas from the Global/Local Interaction territorialisation





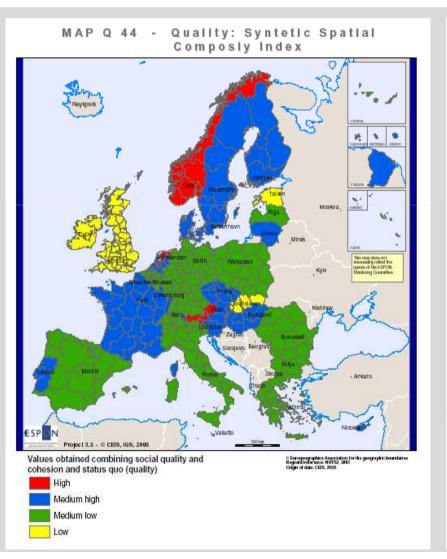


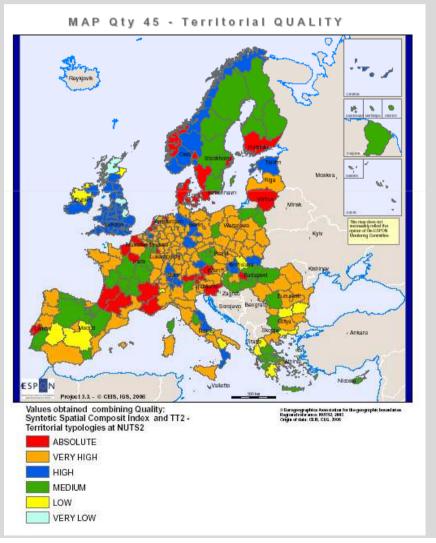
## Policies recommendations with regard to **Quality**

- to use more indicators than one to assess the country positions and to harmonise consumer prices index and the consumption aggregates towards a common medium level in all UE;
- to connect the level of employment (employment index) and its organisation in the traditional industrial regions to the de-industrialisation process;
- to change the parameters of calculation of buying power looking at EU goods of large consumption;
- to stress the *infrastructural variables of cohesion* as significant measure of welfare efficiency,
- to complete the network of physical accessibility and multimodal organisation
- to consider *life quality* as a complex synthetic index, representative of the regional identity into EU context;
- to consider *government quality* as a fundamental point of European integration and a measure of the common European political feeling (using the government quality as a synthetic index);
- to apply the *subisdiarity* principle and its rules to create intra and interregional cohesive instrument;
- to fix different governance rules with respect to the geographical/territorial scale
- to improve citizenship confidence in some countries
- to propose a common reflection about Social Quality and Cohesion
- to sustain the social wellness aptitude to reinforce the cooperative regional projects



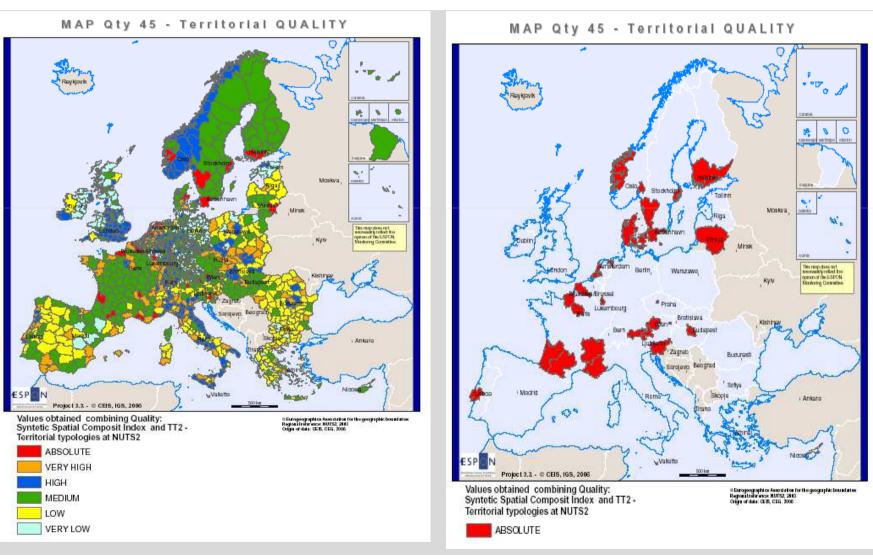
# **Maps of Quality**







# First proposal of some transnational cooperative areas from the Quality territorialisation



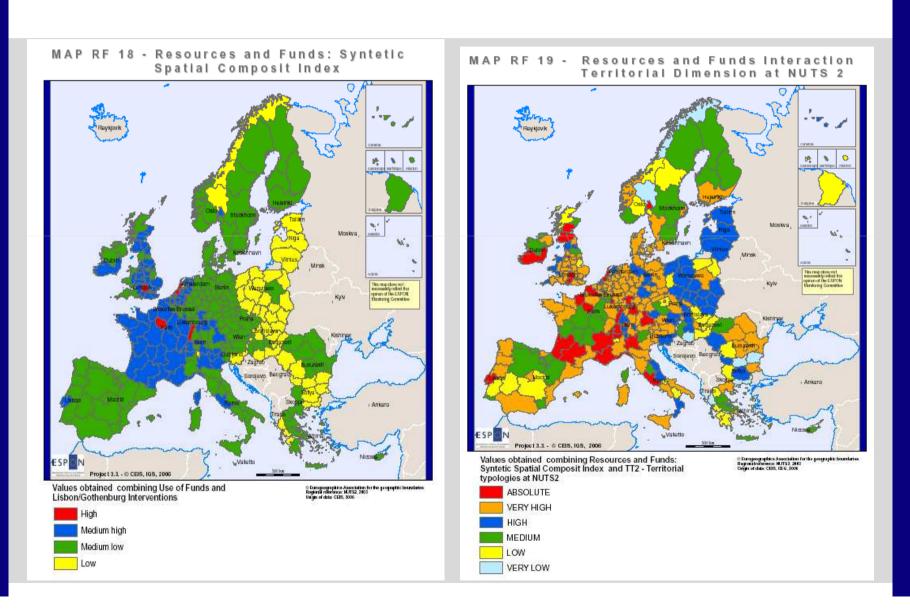


## Policies recommendations with regard to **Resources and Funds**,

- to balance the regional differences on the base of regional capability
- to relate the *Lisbon Strategy (Structure)* to regionally led innovation poles
- to link Human Capital Expenditure to Public Expenditure for Employment as well as sustaining more specific Human Capital Policies (for example, in Austria and Belgium)
- to sustain *Firms Aids*, reflecting on polarisation as economic support (in Central and Eastern Europe, Ireland and Portugal)
- Addressing Public Expenditure for Employment to contrast the high public expenditure along the diagonal concentration (from Ireland through to Italy, with the South-West, North-East and Central-East regions), building up the service sector in IT
- To stress international exchange in I&R and cross-border activities in pollution, risk prevention and tackling environmental problems (particularly in the Eastern regions)
- to improve the link between *Structural Funds and Accessibility by Population* by the development of corridors between urban areas
- to address the *policies for the Gothenburg Strategy (Structure)* to contrast the lowest expenditures
- about Public Expenditure for Poverty and Ageing, it's needed to have more expenditure for labor markets including older workers
- to overcome the North/South divide by a new ESDP

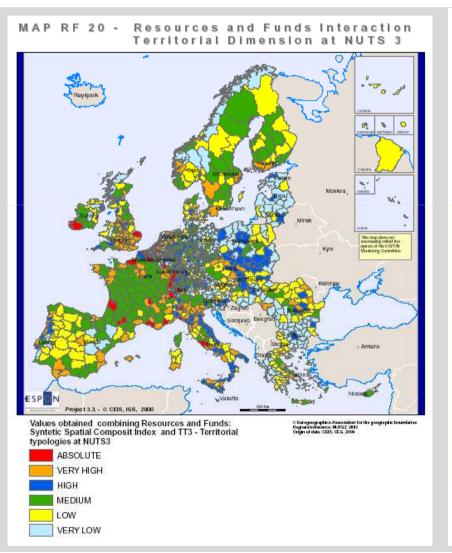


# **Maps of Resources and Funds**





# First proposal of some transnational cooperative areas from the Funds & Resources territorialisation







# Political results on the base of research goals

#### **New list of indicators**

Indicators	Categories	Sectors	Typologies	Determinant
11	8	5	3	Innovation & Research
68	23	9	4	Global/local interaction
27	23	10	4	Quality
10	10	6	3	Use of resources and funds



# List of basic indicators and relative sources

Determinant	3.3 Indicator	42 Spring indic. (2003)	Espon references
Innovation & Research	Internet users	II.3.1	project 1.2.2
	Firms with internet access  Municipalities with	II.3.2	project 1.2.2
	internet access		
	Universities students		project 1.1.2 (w. gaps)
	Innovative dependency index		ESPON DB
	Population with tertiary education		ESPON DB (w. gaps)
	Population in life-long learning	1.5	
	Science Parks members of (ISAP)		project 2.2.1
	Business Innovation Centres		project 2.2.1
	Universities and High level research centres	*** 2.2	project 2.2.1 (partly)
	Old technologies	III.3.3	project 1.2.2
	New technologies	III.3.3	project 1.2.2
Global local interaction	Environmental International Agreements	V.7.2	
	Population change		ESPON DB
	Tourists inbound		
	Tourists outbound		
	Student inbound		
	Student outbound		
	Researcher inbound		
	Researcher outbound		
	Active people	I.1.1	ESPON DB
	Manufacturing enterprise		
	Product trademarks		
	Energy Self-sufficiency Index	V.2	project 2.1.4
	FDI intensity	III.6.6	
	Trade integration of goods	III.6.4	
	Trade integration of services	III.6.5	

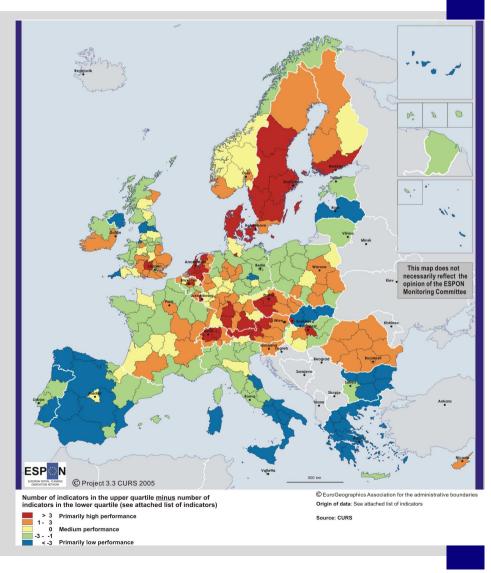
	Vulnerability		project 1.3.1
	Typology Multimodal Accessibility Potential	V.3	project 2.1.1
	Total general government revenue	g/f	
	Labour - cost index (2000:100) - NSA	e	
	Long-term interest rate	d	
	Credit institutions	1	
	Insurance companies	1	
	Companies		
	Stock market capitalisation - end of period - Milliards of euro - NSA	III.6.1	
Quality	GDP per capita (PPS)	a.1	ESPON DB
-	Consumption per capita		
	Level of employment	I.1	ESPON DB
	Consumer price Index	III.1.1	
	Hospital beds	1	
	cultural opportunities	1	
	Hotels beds		
	Typology Multimodal Accessibility Potential		project 2.1.1
	Muncipal waste generation	V.5	
	Hazardous waste generation		
	Recycling Municipal waste		
	Degree of Hazard	1	project 1.3.1
	Greenhouse emissions	V.1	
	Gross abstraction	1	
l	Confidence in EU	1	
	commission Confidence in EU	<b>I</b>	
l	confidence in EU	I	
l	Confidence in EU	<del> </del>	
1	parliament	I	
	National parliament % of voting		
	European parliament % of voting		
	Early school leavers	IV.5.1	
	Inequality of income distribution	IV.1	

	Persons living in households where no one works	IV.7	
	Level of poverty	IV.2.2	
	Female employment	I.2.1	
	Fertility rate		
	Life expectancy		
Resources and funds	R&D expenditure	II.2.1	project 2.1.2
	Firm National aids	III.5	
	Human capital expenditure pps per capita	II.1	
	Employment expenditure pps per capita		
	EU funds spending		project 2.2.2
	Economics resources	III.1.1	
	Climate and natural resources expenditure pps per capita		
	Efficiency of accessibility		project 2.2.1
	Public Health expenditure pps per capita	III.5	
	Poverty and age expenditure pps per capita	111.5	



# Regional performance of 14 Lisbon Short List Structural Indicators (B case)

the performance on all fourteen structural indicators from the short list has been merged into one map. The overrepresentation (eight out of fourteen) of economic indicators is mirrored in the spatial patterns. Thus the hard economic core of Europe is clearly discernible, also encompassing much of the Nordic countries. Norway falls short primarily due to low "performance" on the environmental indicators whereas the opposite holds true for e.g. Romania and eastern Poland due to better performance both on social and environmental indices. The capital regions of Prague, Bratislava and Budapest are also among the top European performers in this respect. Territorial disparities are greatest in Slovakia basically dividing the country into the capital region on the one hand and the rest of the country on the other. The Cohesion Countries (apart from Ireland) as well as southern Italy do also stand out as low performers in this respect, scoring fairly low on all three sectors





# A Flash Back: How did we get these results? By a particular methodological approach (STeMA)

- 1. Systemic vision where economy, territory and environment are considered as a whole system. By this, we made a revision of the Porter's Diamond and its integration with Lisbon/Gothenburg Agendas (2005)
- 2. Carrying capacity of the economic/territorial/environmental systems as common base for regions and states to be "competitive in sustainability" (composite synthetic indicator)
- 3. **Strategic Environmental Assessment** as logical common standard procedure to evaluate the territorial carrying capacity
- 4. **GIS** as the best instrument to manage the complexity of the knowledge in a system

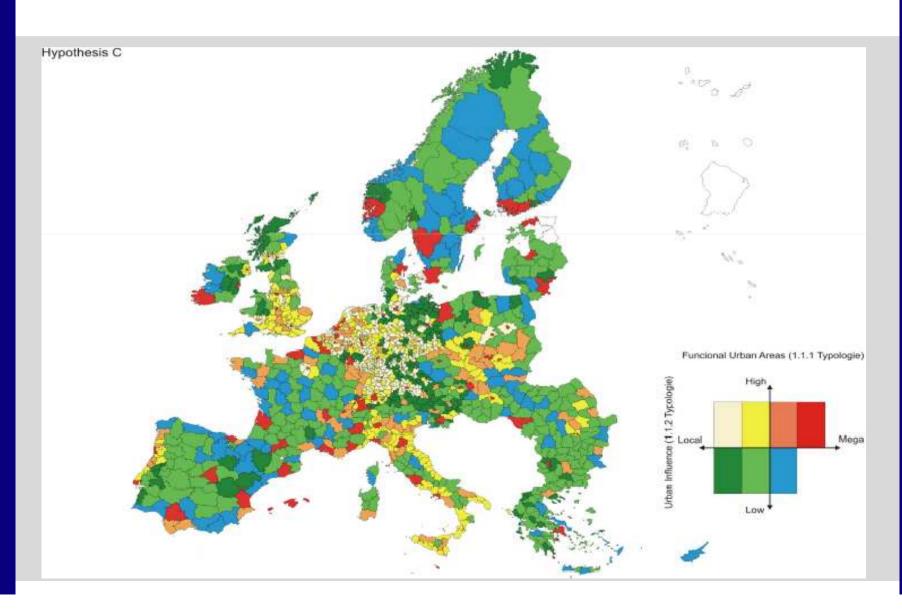


#### Other results: the base of territorialisation

- In the chosen hypothesis, the differences between "Regional/Local functional areas" or "No special function areas" emerge. In this case, more depopulated areas are separated from the rural areas where we can find medium-sized cities with regional/local economic bases.
- Reminding that the main arguments of the analysis are:
  - To identify the more competitive and dynamic territories based on knowledge and innovation and relate it with urban and regional characteristics;
  - to know if urban centres and metropolitan agglomerations play a crucial role in providing the framework conditions for a knowledge-based economic development;
  - To understand polycentric model in different scales, which includes the dynamics of urban growth centres and linking peripheral and disadvantaged areas with urban centres (ESPON, Terms of Reference, 2004)
- Considering these three main arguments, the TPG has chosen the Hypothesis C as the more adequate to evaluate behaviour in the four determinants.
- This type of approach allows one to construct an indicator which includes not only the information on the current situation according to its own specificities, but also on the real dynamics of the actions that enable a given goal to be reached: in this case we turn from the simple territorial competitiveness to the **capability to generate territorial competitiveness in sustainability**.



# The Map of territorialisation





# Other results: the interaction matrix

Table 11: Interaction matrix between indicator and Territorial typologies: Hypothesis C

Determinant	Value	1 High urban influence with Mega functions (A1)	2 High urban influence with Transnational or National functions (B1)	3 High urban influence with Regional/Local fucntions (C1)	4 High urban influence with No special function (D1)	5 Low urban influence with Transnational or National functions (E1)	6 Low urban influence with Regional/Local fucntions (F1)	7 Low urban influence with No special function (G1)
	Α	Α	A	В	В	С	С	D
Innovation	В	A	В	В	С	D	D	Е
& Research	С	В	В	С	D	D	Е	F
	D	С	С	С	D	E	F	F
	Α	Α	Α	В	В	С	С	D
Global/Local	В	Α	В	В	С	D	D	E
Global/Local	С	В	В	С	D	D	E	F
	D	С	С	С	D	E	F	F
	Α	A	A	В	В	С	С	D
Quality	В	Α	В	В	С	D	D	Е
Quality	С	В	В	С	D	D	E	F
	D	С	С	С	D	E	F	F
	Α	А	A	В	В	С	С	D
Resources &	В	А	В	В	С	D	D	Е
Funds	С	В	В	С	D	D	E	F
	D	С	С	С	D	Е	F	F

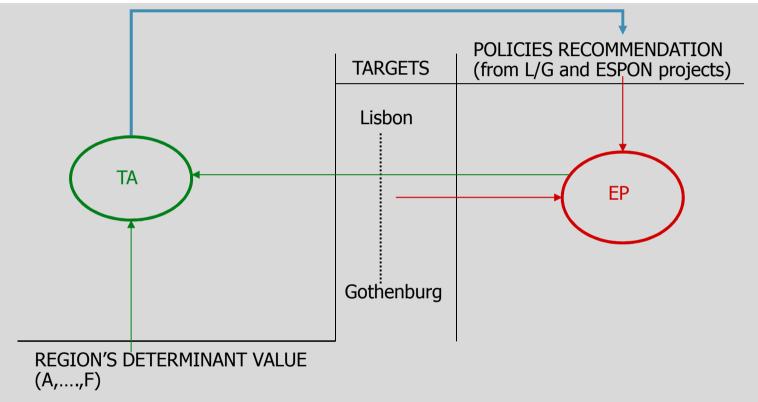
#### cross values

A
B
C
D
E

absolute very high high medium low low very low



# The "Policies impact assessment" matrix



**ACTION 1:** assess the targets relating to the policies with a qualitative rank (outcome=effects=EP)

ACTION 2: assess the effects of the policies in relation to the regional value, for each determinant (outcome= territorial answer/reaction=TA)

ACTION 3: assess of the TA for each region according to a *impact matrix* and, if not sustainable (overcome the A value), change or regret of that policy for that territory



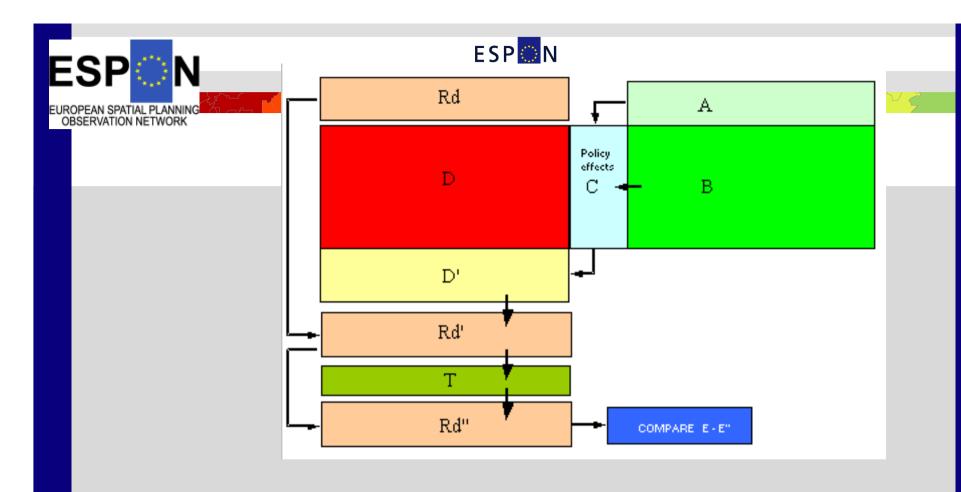




MAIN REL: Formulario **ESP** 3.3 Logical network toolbox 1.- Select determinant... Global Local C Quality C Resources found C Innovation Research 2.- Define logic objects ... POLICY CHOICES POLICY EFECTS: 3.- Define computation rules... LOGICAL TABLE TERRITORIAL IMPACTS 4.- View results MAP TOOL

The toolbox is a software application that provides for a systhematic procedure to define highly abstract concepts (e.g. "sustainable development", "territorial cohesion"...) as a combination of more concret concepts and specific statistic indicators (e.g. GDP/capita, number of firms with Internet access, CO2 emissions...) and calculate them for preselected territorial units (e.g. European regions).

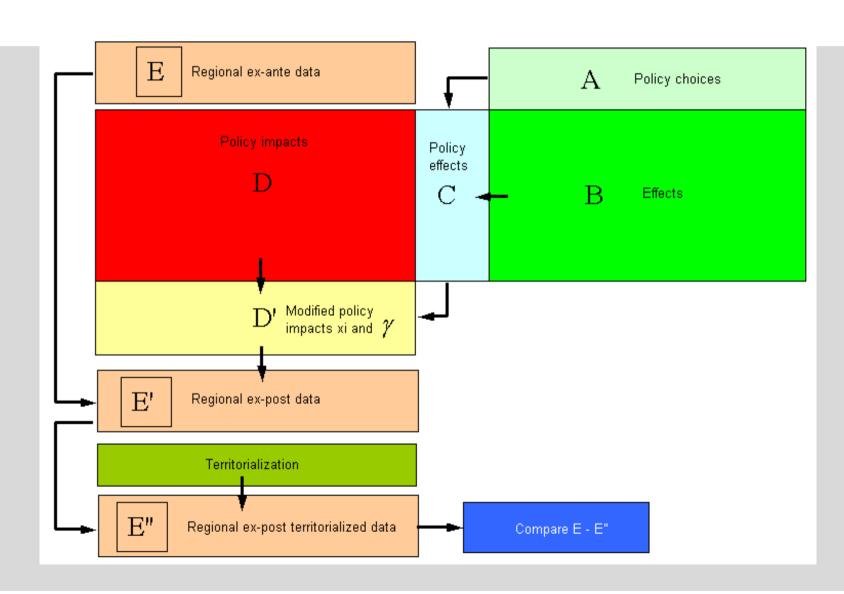
The software platform selected to implement the toolbox has been Visual Basic on Microsoft ACCESS. The toolbox uses Geomedia Viewer, a royalties-free desktop mapping application by Intergraph, to display results graphically, and it can be easily linked to any other standard Desktop mapping or GIS application such as Mapinfo or ArcGIS.



The design of the toolbox and the theory behind has been developed by the University of Rome "Tor Vergata", also responsible for testing and using it within the ESPON 3.3 project, and the software implementation by MCRIT (Barcelona).

The toolbox uses as a reference data ESPON regional statistical indicators, aggregates them according to the network-like conceptual structures to be defined by the user, and provides as a result relatives values of each region from the simple indicators up to the highest more abstract concept. .









											Glo	bal & L	ocal											
							El 8	FI&I	CE										S	ocial Inter	action (	SI)		
						E	1 & FI								Interna Coop Envir	o. on								
			Ed	conomy	interac	ction (El) Financial Interactio														Populatio	on Mobili	ty (PM)		
			ESSI	& Int & :	SL				Produ syst identity	tem														
	ESSI	& Int		Sti	rategic	Localiza	ition (SL	-)													TI &	CE		
	Intern	ationaliz (Int)	zation	RDA 8	3 Vuln	Co	sts (CS	)											Touri	sm (TI)	Culti	ural Exc	:hange (0	CE)
		Tra Integr (Ti	ation				FP &	LC			Credit&Insur ance attitude (C&IA)		attitude   Management								Resea mobility		Stude mobility	
Energy self- sufficiency Index	Forein Direct Investments Intensity	trade integration of goods	trade integration of services	R&D Accessibility	Vulnerability	Long term interest rate	Fiscal pressure	Labour Cost	Manufacturing enterprise	Manufacturing enterprise Product trademarks		Insurance Companies	Stock Market Capitalisation	Companies	General environment concerns	Specific environment concerns	Active population	Population change	Tourism Inbound	Tourism Outbound	Researcher Inbound	Researcher Outbound	Student Inbound	Student Outbound
Q_ESSI	Q_FDlin	Q_Tig	Q_Tis	R&D A	Q_Vuln (NH)	Q_LTIr	Q_FP	0_LC	Q_ME	PTm	Q_Bank	O_Insc	Q_STM	o_Bc	o_GEC	o_SEC	Q_AcP	Q_Pch	Q_InT	@_outT	Q_InRes	@_outRes	@_InStud	@_outStud

Table with **indicators** at base level. Aggregation procedure computes the **determinant**, which is at top level.





#### **DEFINE POLICY CHOICES**

	Homogeneisation of enterprise costs	
Circular in and	Support enterprise creation	
Employment	Support employer mobility	
	Support equal opportunities	
	Development of telecomunication networks	
Transport/network	Development of energy networks	
	Increase of phisical accessibility	1 🗇
	Use of renovable resources	1 🗇
Natural Resources	Active Protection of Natural resources	
Natural Nesources	Reduction of Natural Resources consumption	
	Natural hazard prevention	
	Energy policies	
Climate	Flexible Mechanisms	
	Climate Active Protection	
	Social Programme Financing	
Public Healt	Safety	
	Support Welfare	

**Policies and actions**: Houses the list of the all possible policies and relative actions included in the Lisbon/Gothenburg strategy and that the Structural Funds can finance to realise this strategy. Policies and actions are the same for all the four determinants





									Lisb	on / Go	thembu	ırg Age	enda - F	Policies	for:					
					Emplo	yment		Trans	port/ne	twork	Na	tural R	esourc	es		Climate		Pu	ıblic He	alt
	Effects Ci Bj'							Development of telecomunication networks	Development of energy networks	Increase of phisical accessibility	Use of renovable resources	Active Protection of Natural resources	Reduction of Natural Resources consumption	Natural hazard prevention	Energy policies	Flexible Mechanisms	Climate Active Protection	Social Programme Financing	Safety	Support Welfare
Effects	Ci	Bj'	Bj	Homogeneisation of enterprise	Support	Support employer mobility	Support equal opportunities	0	0	0	0	0	0	0	0	0	0	0	0	0
Transnational cooperation improvement	0.00	0	18					1				3	3	3	2	3	3			
Promotion of local products	0.00	0	15	2	2		1	2		3	2	3								
Energy efficiency	0.00	0	11	2					3		3				3					
Internationalization	4	1						1												
Improvement territorial attractiveness	0.00	0	25		3 1					3	3	3		2	2		2		2	2
Increase networking	0.00	0	10	1						3						3				
Increase financial global market	0.00	0	5	2				3												
Increase cultural connections	_							1		2						3				





# **Effects**

					3										3	3									Transnational cooperation
					1				3	3															Promotion of local products
3						3	3	3																	Energy efficiency
	3	3	3		2				2	2	2	2		2	2	2							3	3	Internationalization
	3			3	3	3	3	3	3	3			3					3	3	3	3	3			Improvement territorial attra
		2	2										3												Increase networking
											3	3													Increase financial global m
				1	1				2	2			2					1	2	2	3	3	2	2	Increase cultural connection
	2								2	2							3								Increase staying in labour
Energy self- sufficiency Index	Forein Direct Investments Intensity	trade integration of goods	trade integration of services	R&D Accessibility	Vulnerability	Long term interest rate	Fiscal pressure	Labour Cost	Manufacturing enterprise	Product trademarks	Credit Insitutions	Insurance Companies	Stock Market Capitalisation	Companies	General environment concerns	Specific environment concerns	Active population	Population change	Tourism Inbound	Tourism Outbound	Researcher Inbound	Researcher Outbound	Student Inbound	Student Outbound	

on improvement tractiveness market ur market

List of effects: It's different for each determinant because the effects are linked at the determinant and its capability to transform itself when we simulate the scenarios ex post of the policies/actions in applying L/G.





- 1	Logi	cal t	able	:
	12			
11	а	Ь	С	d
Α	Α	Α	В	В
В	В	В	В	O
С	O	O	O	O
D	С	D	D	D

**Logical tables**: Define how indicators/typologies... agregates. They are the same for all variables and for the four determinants.





				Territorial	typologies: H	ypothesis C		
		influence with	influence with Transnational	Regional/Local	No special	5 Low urban influence with Transnational or National functions (E1)	6 Low urban influence with Regional/Local fucntions (F1)	7 Low urban influence with No special function (G1)
		1	2	3	4	5	6	7
	Α	Α	A	В	В	С	С	D
Determinant	В	A	В	В	С	D	D	E
R&F	С	В	В	С	D	D	E	F
	D	]c	С	С	D	E	F	F

**Territorialization tables**: Define how indicators/typologies... territorialize. They are the same for all variables and for the four determinants.





N2_03	REGION_03	Territo	Q_GEC	Q_SEC	Q_ME	Q_P Tm	Q_E SSI	Q_FD lin	Q_ Tig	Q_ Tis	Tint	Int			Q_V uln		Q_L Tir	Q_ FP	Q_ LC	FP& LC	cs	SL	ESSI & Int & SL	Q_ ME	Q_P Tm	PSI	
AT11	Burgenland	7	В	D	С	В	С	В	Α	А	А	В	С	С	В	С	В	D	А	D	В	С	С	С	В	С	С
AT12	Niederösterreich	3	В	D	С	С	С	В	Α	А	А	В	С	С	В	С	В	D	А	D	В	С	С	С	С	С	С
AT13	Wien	1	В	D	С	А	С	В	Α	Α	А	В	С	В	D	В	В	D	А	D	В	В	С	С	А	С	С
AT21	Kärnten	2	В	D		В	С	В	Α	Α	А	В	С	С	В	С	В	D	А	D	В	С	С	_	В	В	С
AT22	Steiermark	2	В	D	С	С	С	В	Α	Α	А	В	С	С	В	С	B	D	А	D	В	С	С	С	С	С	С
AT31	Oberösterreich	2	В	D	В	С	С	B	Α	Α	Д	В	С	С	В	C	Ð	D	А	D	В	С	С	В	С	В	С
AT32	Salzburg	2	В	D	В	В	С	В	А	А	Ą	В	С	C	В	U	Ф	D	А	D	В	С	С	В	В	В	С
AT33	Tirol	2	В	D	В	В	С	В	Α	А	Ą	В	С	C	В	U	Ф	D	А	D	В	С	С	В	В	В	С
AT34	Vorarlberg	3	В	D	В	C	С	В	Α	А	Ą	В	С	C	C	U	Ф	D	А	D	В	С	С		С	В	С
BE1	Région de Bruxelles-Cap	1	А	С	С	А	С	А	Α	А	Ą	А	С	А	D	Ð	В	D	А	D	В	В	С	С	А	С	C
BE21	Prov. Antwerpen	3	А	С	С	С	С	Α	А	А	Д	А	С	В	D	Ð	Ð	D	А	D	В	В	С	С	С	С	C -
BE22	Prov. Limburg (B)	2	А	С	С	C	С	А	Α	А	Ą	А	С	В	C	Ð	Ф	D	А	D	В	В	С	С	С	С	C
BE23	Prov. Oost-Vlaanderen	2	А	С	В	C	С	Α	Α	А	Ą	А	С	В	C	Ð	В	D	А	D	В	В	С	В	С	В	C
BE24	Prov. Vlaams-Brabant	2	А	С	С	А	С	Α	Α	А	Ą	А	С	А	D	Ð	Ð	D	А	D	В	В	С	С	А	С	C
BE25	Prov. West-Vlaanderen	2	А	С	В	С	С	А	Α	А	Ą	А	С	C	С	O	Ð	D	А	D	В	С	С	В	С	В	C
BE31	Prov. Brabant Wallon	4	А	С	С	А	С	А	А	А	Ą	А	С	А	С	А	Ð	D	А	D	В	А	С	С	А	С	C
BE32	Prov. Hainaut	2	А	С	С	В	С	А	Α	А	Д	А	С	В	С	B	Ð	D	А	D	В	В	С	С	В	С	C
BE33	Prov. Liège	2	А	С	В	В	С	А	А	А	А	А	С	В	С	B	B	D	А	D	В	В	С	В	В	В	C
BE34	Prov. Luxembourg (B)	4	А	С	С	В	С	А	Α	А	А	А	С	С	В	C	B	D	А	D	В	С	С	С	В	С	C
BE35	Prov. Namur	2	А	С	С	А	С	А	Α	А	А	А	С	В	В	B	B	D	А	D	В	В	С	С	А	С	C
BG01	Severozapaden	6	В	D	А	D	В	В	А	А	А	В	В	D	D	D	D	В	D	В	С	D	В	А	D	В	В
BG02	Severen tsentralen	6	В	D	А	D	В	В	Α	Α	А	В	В	D	D	D	D	В	D	В	С	D	В	А	D	В	В
BG03	Severoiztochen	2	В	D	А	D	В	В	А	А	А	В	В	D	D	D	D	В	D	В	С	D	В	А	D	В	В
BG04	Yugozapaden	1	В	D	В	D	В	В	А	А	А	В	В	С	D	U	D	В	D	В	С	С	В	В	D	В	В
BG05	Yuzhen tsentralen	2	В	D	А	D	В	В	А	А	А	В	В	D	D	D	D	В	D	В	С	D	В	А	D	В	В
BG06	Yugoiztochen	5	В	D	А	D	В	В	Α	Α	А	В	В	С	D	C	D	В	D	В	С	С	В	А	D	В	В
CH01	Région lémanique	1	В	С	В	А	С	А	В	Α	В	Α	С	С	С	C	С	D	В	С	С	С	С	В	Α	В	С

Regional ex-ante data: Indicators and agregattions by Nuts2 previous to apply policies.





N2_03	REGION_03	Terri		Q_ : CEC	Q	Q_P		Q_F		Q_ Tis	Tint	Int	ESSI & Int			RDA & Vuln	Q_ LTIr	Q_ ED	Q_ LC	FP& LC	cs	SL	ESSI & Int & SL		Q_P Tm	PSI	EI		Q_ln sC		Q_S
AT11	Burgenland	tory 7	$\overline{}$	SEC	C	Tm B	SSI C	Dlin B	Tig A	A	Α	В	C	C	Vul IB			D D	A	D	В	В	C SL	C	В	С	С	_	B	IA A	TM D
AT12	Niederösterreich	<u> </u>	В	D	Č	<u>-                                    </u>	c	В	Α	Α	Α	В	c	c	В		<del>-</del>	D	Α.	D	В	В	c	c	c	c	c	_	c	A	D
AT13	Wien	_	В	b	c	Ā	c	В	A	A	Α	В	c	В	<u> </u>		В	D	A	D	В	c	c	c	Ā	c	c	1 .	В	Ā	D
AT21	Kärnten		B	D	В	В	c	В	A	A	Δ	В	C	С	В		В	D	A	D	В	В	С	В	В	В	c	1	В	A	D
AT22	Steiermark		B	<u> </u>	c	c	c	В	Α	A	A	В	c	c	В	_	В	D	A	D	В	В	c	c	c	c	c	1 .	В	A	D
AT31	Oberösterreich		!В	D	В	С	С	В	А	Α	Α	В	С	С	В	В	В	D	А	D	В	В	С	В	С	В	С	А	С	А	D
AT32	Salzburg	2	В	D	В	В	С	В	А	А	А	В	С	С	В	В	В	D	А	D	В	В	С	В	В	В	С	Α	С	Α	D
AT33	Tirol	2	В	D	В	В	С	В	А	А	А	В	С	С	В	В	В	D	А	D	В	В	С	В	В	В	С	А	В	А	D
AT34	Vorarlberg	3	В	D	В	С	С	В	А	А	А	В	С	С	С	С	В	D	А	D	В	С	С	В	С	В	С	Α	С	А	D
BE1	Région de Bruxelles-Ca	1	Α	С	С	Α	С	Α	Α	Α	Α	Α	С	А	D	D	В	D	А	D	В	С	С	С	Α	С	С	С	Α	С	С
BE21	Prov. Antwerpen	3	А	С	С	С	С	Α	А	А	А	Α	С	В	D	С	В	D	Α	D	В	С	С	С	С	С	С	С	В	С	С
BE22	Prov. Limburg (B)	2	Α	С	С	С	С	А	Д	А	Д	Д	С	В	С	С	В	D	Д	D	В	С	С	С	С	С	С	С	В	С	С
BE23	Prov. Oost-Vlaanderen	2	. A	С	В	С	С	А	А	А	А	А	С	В	С	С	В	D	А	D	В	С	С	В	С	В	С	С	В	С	С
BE24	Prov. Vlaams-Brabant	2	. A	С	С	А	С	А	А	А	А	А	С	А	D	D	В	D	А	D	В	С	С	С	А	С	С	С	А	С	С
BE25	Prov. West-Vlaanderer	2	. A	С	В	С	С	А	А	А	А	А	С	С	С	С	В	D	А	D	В	С	С	В	С	В	С	С	А	С	С
BE31	Prov. Brabant Wallon	4	Α	С	С	А	С	А	А	А	А	А	С	А	С	С	В	D	А	D	В	С	С	С	А	С	С	С	А	С	С
BE32	Prov. Hainaut	2	. A	С	С	В	С	Α	А	Α	А	Α	С	В	С	С	В	D	А	D	В	С	C	С	В	С	С	С	Α	С	С
BE33	Prov. Liège	2	. A	С	В	В	С	А	А	А	А	А	С	В	С	С	В	D	А	D	В	С	C	В	В	В	С	С	А	С	С
BE34	Prov. Luxembourg (B)	4	Α	С	С	В	С	Α	А	А	А	Α	С	С	В	В	В	D	А	D	В	В	C	С	В	С	С	С	А	С	С
BE35	Prov. Namur	2	. A	С	С	А	С	А	А	Α	А	Α	С	В	В	В	В	D	А	D	В	В	С	С	А	С	С	С	А	С	С
BG01	Severozapaden	6	В	D	А	D	В	В	А	А	А	В	В	D	D	D	D	В	D	В	С	D	B	А	D	В	В	D	D	D	D
BG02	Severen tsentralen	6	В	D	Α	D	В	В	А	А	А	В	В	D	D	D	D	В	D	В	С	D	В	Α	D	В	В	D	D	D	D
BG03	Severoiztochen	2	B	D	Α	D	В	В	А	А	А	В	В	D	D	D	D	В	D	В	С	D	В	А	D	В	В	D	D	D	D
BG04	Yugozapaden	1	В	D	В	D	В	В	А	А	А	В	В	С	D	D	D	В	D	В	С	D	В	В	D	В	В	D	D	D	D
BG05	Yuzhen tsentralen	2	B	D	А	D	В	В	А	А	А	В	В	D	D	D	D	В	D	В	С	D	В	А	D	В	В	D	D	D	D
BG06	Yugoiztochen	5	В	D	Α	D	В	В	А	А	А	В	В	С	D	D	D	В	D	В	С	D	В	А	D	В	В	D	D	D	D
CH01	Région lémanique	1	В	С	В	А	С	А	В	А	В	А	С	С	С	С	С	D	В	С	С	С	С	В	А	В	С	А	А	А	С

Regional ex-post data: Indicators and aggregations by Nuts2 previous to territorialize.



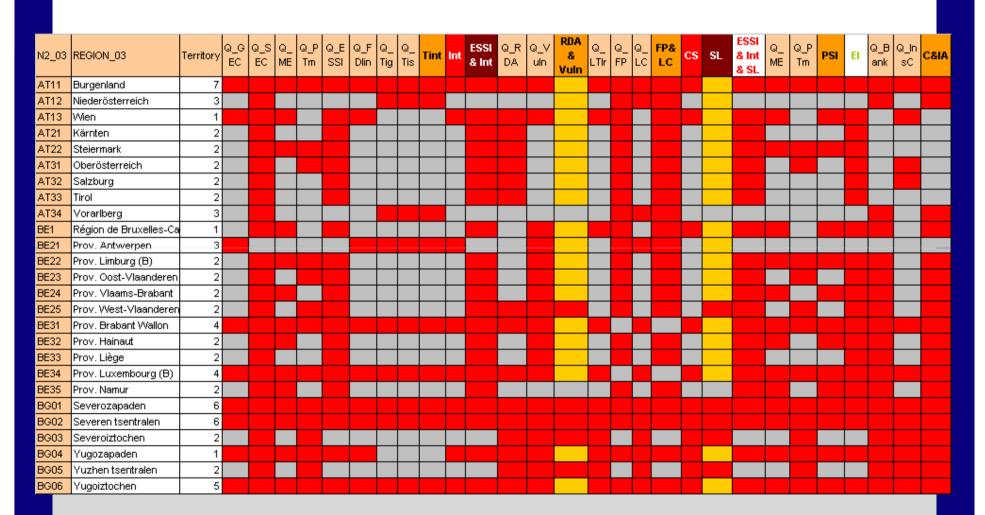


N2_03	REGION_03	Territory	Q_G EC	Q_ SEC	Q_ ME	Q_P Tm	Q_E SSI	Q_F Dlin	Q_ Tig	Q_ Tis	Tint	Int	ESSI _Int	Q_R DA	Q_V uln	RDA_ Vuln	Q_L Tir	Q_ FP	Q_ LC	FP_ LC	cs	SL	ESSI_ Int_S L	Q_ ME
AT11	Burgenland	7	Е	F	F	E	F	Е	D	D	D	Е	F	F	Е	F	Е	F	D	F	Е	F	F	F
AT12	Niederösterreich	3	В	С	С	С	С	В	В	В	В	В	С	С	В	С	В	С	В	С	В	С	С	С
AT13	Wien	1	А	С	В	А	В	А	А	А	А	А	В	А	С	А	А	С	Α	С	А	А	В	В
AT21	Kärnten	2	В	С	В	В	В	В	А	Α	А	В	В	В	В	В	В	С	Α	С	В	В	В	В
AT22	Steiermark	2	В	С	В	В	В	В	А	Α	А	В	В	В	В	В	В	С	Α	С	В	В	В	В
AT31	Oberösterreich	2	В	С	В	В	В	В	А	А	А	В	В	В	В	В	В	С	Α	С	В	В	В	В
AT32	Salzburg	2	В	С	В	В	В	В	А	А	А	В	В	В	В	В	В	С	Α	С	В	В	В	В
AT33	Tirol	2	В	С	В	В	В	В	А	А	А	В	В	B	В	В	В	С	Α	С	В	В	В	В
AT34	Vorarlberg	3	В	С	В	С	U	B	В	В	В	В	С	С	U	С	В	С	В	С	В	С	С	В
BE1	Région de Bruxelles-Cap	1	А	В	В	А	В	А	А	А	А	А	В	А	С	А	А	С	Α	С	А	А	В	В
BE21	Prov. Antwerpen	3	В	С	O	C	U	Ф	В	В	В	В	С	В	U	В	В	С	В	С	В	В	С	С
BE22	Prov. Limburg (B)	2	А	-		B	8	А	А	Α	А	Α	B	В	8	В	В	С	Α	С	В	В	В	В
BE23	Prov. Oost-Vlaanderen	2	А	В	Ф	В	B	А	А	А	А	А	В	В	В	В	В	С	Α	С	В	В	В	В
BE24	Prov. Vlaams-Brabant	2	А	В	В	А	В	А	А	А	А	А	В	А	С	В	В	С	А	С	В	В	В	В
BE25	Prov. West-Vlaanderen	2	А	В	В	В	В	А	А	А	А	А	В	В	В	В	В	С	А	С	В	В	В	В
BE31	Prov. Brabant Wallon	4	В	D	D	В	D	B	В	В	В	В	D	В	D	В	С	D	В	D	С	В	D	D
BE32	Prov. Hainaut	2	А	В	Ф	B	Ф	Ą	А	А	А	А	В	В	Ф	В	В	С	Α	С	В	В	В	В
BE33	Prov. Liège	2	А	В	Ф	B	Ð	Ą	А	А	А	А	В	В	Ф	В	В	С	Α	С	В	В	В	В
BE34	Prov. Luxembourg (B)	4	В	D	٥	C	٥	Ð	В	В	В	В	D	D	U	D	С	D	В	D	С	D	D	D
BE35	Prov. Namur	2	А	В	Ф	А	Ð	Ą	А	А	А	А	В	В	Ð	В	В	С	Α	С	В	В	В	В
BG01	Severozapaden	6	D	F	O	F	٥	٥	С	С	С	D	D	F	F	F	F	D	F	D	Е	F	D	С
BG02	Severen tsentralen	6	D	F	O	F	D	D	С	С	С	D	D	F	F	F	F	D	F	D	Е	F	D	С
BG03	Severoiztochen	2	В	С	А	С	B	Ð	А	А	А	В	В	С	O	С	С	В	С	В	В	С	В	А
BG04	Yugozapaden	1	А	С	А	С	А	А	А	А	А	А	А	В	C	В	С	А	С	А	В	В	А	Α
BG05	Yuzhen tsentralen	2	В	O	А	С	В	В	А	А	А	В	В	С	C	С	С	В	С	В	В	С	В	Α
BG06	Yugoiztochen	5	D	E	O	E	D	D	С	С	С	D	D	D	E	D	E	D	E	D	D	D	D	С
CH01	Région lémanique	1	А	В	А	А	В	А	А	А	А	А	В	В	Б	В	в	С	А	В	В	В	В	Α

Regional ex-post territorial: Indicators and aggregations by Nuts2 data before mapping.







Compare ex ante & ex-post terr: Table comparing the old and new values for each determinant.

no changes

changed before territorialization
changed after territorialization





#### Mapping tool

- a) **EXPERT-USERS** (researchers, consultants, civil servants...).
- 1) Open the EXCEL file of each determinant (Quality...)
- 2) Change the policy check list or any other parameter in the simulator
- 3) Import the datasheet "Regional ex-post territorial" into ArcGIS 9.0 or other GIS tool
- 4) Make any mapa or spatial analysis he/she needs

#### b) POLICY-USERS

- 1 ) Open the Toolbox Viewer main interface (ESPON33.mdb)
- 2) Change the policy-cheks list or any other parameter in the simulator
- 3) Go to map tool and use Geomedia Viewer options to change visualization

