



AND REGIONAL TERRITORIAL COHESION IN ITALY **ASSESSMENT OF NATIONAL TERRITORIAL IMPACT**

TERRITORIAL IMPACT ASSESSMENT OF NATIONAL AND REGIONAL TERRITORIAL COHESION IN ITALY

PLACE EVIDENCE AND POLICY ORIENTATIONS TOWARDS EUROPEAN GREEN DEAL

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edited by M. Prezioso

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edited by Maria Prezioso

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ACT	Agenzia per la Coesione Territoriale – Agency for Territorial Cohesion
AdP	Accordo di Partenariato – Partnership Agreement
BAT	Best Available Techniques
CAP	Common Agricultural Policy
CBC	Cross Border Cooperation
CE	Commissione Europea – European Commission
CF	Cohesion Fund
CINSEDO	Centro interregionale di studi e documentazione – Interregional Centre for Studies and Documenta- tion
CIPE	Comitato Interministeriale per la Programmazione Economica – Interministerial Committee for
	Economic Planning
CLLD	Community-Led Local Development
CoR	European Committee of the Regions
CPR	Common Provisions Regulation
DEF	Documento di Economia e Finanza – Document of Economy and Finance
DG	Direzione Generale – Directorate General
EAFRD	European Agricultural Fund for Rural Development
EC	European Commission
EGTC	European Group of Territorial Cooperation
EMFF	European Maritime and Fisheries Fund
ENI	European Neighbourhood Instrument
EP	European Parliament
ERDF	European Regional Development Fund
ERTMS	European Rail Traffic Management System
ERVET	Emilia Romagna Valorizzazione Economica del Territorio
ESF	European Social Fund
ESIF	European Structural and Investment Funds
ESPON	European Territorial Observatory Network
ETC	European Territorial Cooperation
EU	European Union
FSC	Fondo di Sviluppo e Coesione – National Development and Cohesion Fund
FUA	Functional Urban Area
GDP	Gross Domestic Product
GIS	Geographic Information System
I&N	Infrastructure and Networks
ICT	Information and Communication Technology
IG	Inclusive Growth
IP	Inner Periphery
ITI	Integrated Territorial Investments

VEI	Youth Employment Initiative
I A D	Local Action Plan
MATTM	Ministero dell'Ambiente e della Tutela del Territorio e del Mare – Ministry of Environment and
	Ministero del Anolente e della futeta del ferminio e del Mare – Ministry of Environment and
MEE	Ministra dall'Economia della Finanza – Ministry of Economy and Financa
MEE	Multisatio dei Econorial e della Finanza – Ministry of Economy and Finance
MECA	
MIDACT	Minister and Devin Area
MIDACI	Ministero per i beni e le Attivita Culturali e il furismo – Ministry of Cultural Hentage and foun-
MILDS	SIII Ministere del Levere e delle Politiche Socieli – Ministry of Lebeur and Sociel Policies
MISE	Ministero del Lavolo e dele fondele Social – Ministry of Labour and Social fondes
MILID	Ministero dello Sviluppo Economico – Ministry of Economic Development
MIUK	Ministero dell'Istruzione, dell'Università e della Ricerca – Ministry of Education, University and Re-
MC(-)	search
NEET	Menhoel State(s)
NEEI	Netther in Employment nor in Education or Training
NOP DO DO	National Operational Programme
NOP-E&C	National Operational Programme Enteprises and Competitiveness
NOP-EDU	National Operational Programme on Education
NOP-IN	National Operational Programme for Social Inclusion
NOP-I&N	National Operational Programme Infrastructure and Networks
NOP-Metro	National Operational Programme on Metropolitan Cities
NOP-Culture	National Operational Programme on Culture and Development
NOP-R&I	National Operational Programme Research and Innovation
NOP-SME	National Operational Programme Small and Medium Enterprises Initiative
NOP-SAEP	National Operational Programme Systems for Active Employment Policies
NOP-YEI	National Operational Programme Youth Employment Initiative
NUTS	Nomenclature des Unités Territoriales Statistiques – Nomenclature of Territorial Units for Statistics
OPs	Operational Programmes
PGTL	Piano Generale dei Trasporti e della Logistica – General Transport and Logistics Plan
PI	Principal Investigator
PNR	Programma Nazionale di Riforma – National Reform Program
PRIN	Progetto di ricerca di Rilevante Interesse Nazionale – Research Project of National Interest
PTR	Piano Territoriale Regionale – Territorial Regional Plan
R&D	Research and Development
R&F	Resources and Funds
RC	Reddito di Cittadinanza – Citizenship Income
ReI	Reddito di Inclusione – Inclusion Income
RDP	Rural Development Programme
RIS3	Research and Innovation Strategy for Smart Specialisation
ROP	Regional Operational Programme
S3	Smart Specialisation Strategy
SAM	Social Accounting Matrix
SESAR	Single European Sky Air Traffic Management System
SEZ	Special Economic Zone
SG	Smart Growth
SIA	Sostegno per l'Inclusione Attiva – Support for Active Inclusion
SDGs	Sustainable Development Goals
SME	Small Medium Enterprise
SNAI-NSIA	Strategia Nazionale per le Aree Interne – National Strategies for Inner Areas
SNSS	Strategia Nazionale per lo Sviluppo Sostenibile – National Strategy for Sustainable Development
SPAO-SAEP	Sistemi di Politiche Attive per l'Occupazione – Systems of Active Employment Policies
STeMA	Sustainable Territorial economic/environmental Management Approach
STFT	Systemic Territorial Functional Typologies
SuG	Sustainable Growth
SVIMEZ	Associazione per lo Sviluppo dell'industria nel Mezzogiorno - Association for the Development of
	Industry in Southern Italy
TC	Territorial Cohesion
TEN-T	Trans-European Networks – Transport
TIA	Territorial Impact Assessment
TOs	Thematic Objectives
U	PRIN Unit
UNEP	United Nations Environment Programme

Chapter XII

TERRITORIAL COHESION IN LATIUM REGION. A STEMA MEASUREMENT OF REGIONAL OPERATIONAL PROGRAMME ERDF 2014-2020

Michele Pigliucci*

XII.I. THE LATIUM REGION AT THE BEGINNING OF 2014-2020 PROGRAMMING PERIOD

At the beginning of the 2014-2020 programming period, Latium Region did contribute to Italian GDP for 11%, resulting of a progressive period of decline started in 2007, at the beginning of previous period. The regional economy was mainly composed by Services (84,6%), while Industry didn't reach 15% (Italian medium rate is 24,7%), one-third from building, and Primary sector was at 1,2% (Regione Lazio, 2014a, p. 14).

In terms of role for the development of the country, Latium Region Regional Operational Plan (ROP) claims to be aware of the responsibility to host the metropolitan area of Rome Capital City (and biggest city of the country), which results in the responsibility to be the driver to development for the whole country: a clear definition of targets and an overall simplification of governance models are the main ways to reach this scope through a simple definition of achievable projects to be measured by weighable indicators.

The adoption of ROP was preceded by the drawing up of the strategic document *Linee di indirizzo per un uso efficiente delle risorse finanziarie destinate allo sviluppo 2014-2020* (Guidelines for an efficient use of financial resources for development 2014-2020) (Regione Lazio, 2014a) adopted by Latium Region in 2014, which aimed at identify a common framework for the development of the policies related to European Structural and Investment Funds (ESIF) and related expenses, in order to guarantee an efficient synergy for the use of European Regional Development Fund (ERDF), European Social Fund (ESF) and European Agricultural Fund for Rural Development (EAFRD). This document identifies the main Regional macroareas related to Thematic Objectives of the Program 2014-2020:

- Economic progress based on Research;

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- Innovation and digital growth;

- Economic and social progress reinforced by vocational education and training;

- Social progress and quality of life through integration between social and health politics;

- Policies for social and territorial cohesion;

- Policies for optimization of organization tasks of Regional Administration.

Since Latium Region is in the category of the more-developed regions, according to 2014-2020 classification of Cohesion Policy (OJEU, 2013, art. 90 c. 2), at least 80% of ERDF funds had to be allocated to four Thematic Objectives (UE 1299/2013, art. 6), and at least 20% for the TO 4¹²⁹. According to this rule, the document *Linee di Indirizzo* draws a plan for the use of funds with a redefinition of the planning, evaluation and management phases in an innovative manner, in order to face severe consequences of economic crisis and to guarantee an efficient use of the EU funds. The most important element of this new approach is the institutional partnership in the definition of the territorial goals and plans to be adopted, and in the targets and objectives to be addressed, in close cooperation aiming at achieving and in a place-based approach (Regione Lazio, 2014a, p. 9):

- a close cooperation amongst national, regional and local public bodies and private stakeholders;

- active involvement of partners in the whole cycle of programming (preparation, implementation, monitoring and evaluation).

Territorial interpretation of the pillars of EU Strategy 2014-2020 put particular attention to the need to raise the expenditure in R&D, to enhance tertiary education and employment, to reduce poverty level and increase share of energy from renewable sources. Regional government programme was designed in 7 macro-areas, regrouping European aims in single steps, matching Thematic Objectives (TO) of Europe 2020 Strategy (*Linee di Indirizzo*, p. 22-23):

1) A modern Region helping development, intended as reorganisation and rationalization of Public Administration tasks (TO 4, 10 and 11);

2) A great Region of innovation (TO 1, 2, 3, 4, 6, 8, 9, 10);

3) Right to education for development and employment, intended as a tool for economic and social development (TO 2, 8, 9, 10, 11);

4) A Region that cares and protects, intended social development to be reached matching health and and social policies (TO 9, 10);

5) A sustainable Region (TO 3, 4, 5, 6);

6) Investments for a competitive territory (TO 2, 4, 8, 10, 22);

7) Choices for a more united society, intended as social and territorial cohesion (TO 2, 3, 8, 9, 10, 11).

While identifying the expenditure voices for investments, the ERDF ROP list the chapters of ERDF on which Latium Region decided in advance not to invest, in particular TO 8 and TO 7 (7) promoting sustainable transport and removing bottlenecks in key network infrastructures; (8) promoting sustainable and quality employment and supporting labour mobility.

¹²⁹ TO 4 – Supporting the shift towards a low-carbon economy in all sectors.

At the basis of this selection there is an analysis of competitiveness elements of Region: out of 600 thousand companies (in 2012), 164 thousands worked in trade, 89 thousands in building, 47 thousands in primary sector, 39 thousands in manufacturing and mining. The cornerstone of the Regional economy is tertiary non-trade activities, that counts 216 thousands companies, around 39% of the total. Among them, a lot of enterprises working in public sector, such as several Research Centres and Institutions (218 labs, 4 Excellence centres, 48 Research institutions, 12 Universities, 2 Scientific and technologic parks and 3 technological districts) that bring Latium Region at the high level of the list of innovative capacity (Regione Lazio, 2014a, p. 45).

Starting from this analysis, Latium ERDF ROP include a SWOT analysis of regional context per thematic objectives, whose results identifies main territorial priorities (Regione Lazio, 2014b, pp. 15-16):

- the need to strengthen "knowledge system" of Region, also with the help of technologies, to contribute to keep European global technologic leadership, to face challenges through technologies and to enhance industrial chances.

- The need to strengthen the access to Public Administration services. This results in Latium Digital Agenda (Regione Lazio, 2015), aiming at laying the foundation of a digitalisation of all the Public Authorities services for citizens and enterprises.

- The need of improving competitive position of Regional productive systems, bringing industrial system towards new business models, strengthening export and sustaining creation of new innovative start-ups.

- The need to enhance sustainable use of resources, and to improve sustainability of mobility within metropolitan area. In particular, Region aims at enhancing energy use in public buildings, considering the important weight of this sector in the Region.

These evaluations resulted in 5 strategic priority axes for territory:

- Priority axis 1: Research, Innovation;

- Priority axis 2: Digital Latium;
- Priority axis 3: Competitiveness;
- Prority axis 4: Sustainable energy and mobility;
- Priority axis 5: Hydrogeological and seismic risk;
- (Axis 6 Technical assistance).

Priority Axis 1 – Research and innovation: Latium aim at being specialized in the development of advanced services enhancing domestic and international technologies and knowledge. Starting from the context analysis and the dialogue with territorial stakeholders, three macro targets have been identified (Regione Lazio, 2014b, p. 17):

- facilitate a repositioning process of Regional enterprises towards a better addedvalue market segment, through know-how and excellence technologies processes;

- turn Latium a "great European Region of innovation" oriented to international market;

- bring Latium to the top of European benchmark in internationalization, with a particular attention to strategic interest marketplaces, like MENA (Middle East and North Africa) and BRICS (Brazil, Russia, India, China and South Africa).

The Smart Specialization Strategy of the Region takes in charge these targets, painting a model where technological, research and enterprise excellences work in contact with ITC companies for drawing innovative solutions able to improve the quality of life of citizens and institutions in agrifood, health, water management, natural resources management, smart cities and security (Regione Lazio, 2014b, p. 17) in a real cross-sectorial view (Regione Lazio, 2016).

Priority Axis 2 – Digital Latium: In order to develop Information-based Society, and in line with European Digital Agenda (EC, 2014), Latium aims at enhancing digital infrastructures in order to guarantee online services from Public Administration to citizens and companies working in Region. The target is to guarantee a 100Mbps broadband to all the Regional territory, starting from Metropolitan area of Rome and industrial areas suffering crisis.

Priority Axis 3 – Competitiveness: Starting from the understanding of the economic global crisis, Latium identifies a complex of actions aiming at giving new vitality to economic regional sector through three keywords:

- Competitive repositioning of companies, through a common vision of market;

- Territorial marketing of the Region as a whole and its companies;

- Support to start-up creation through business accelerator and financial instruments for credit.

Priority Axis 4 – Sustainable energy and mobility: Latium Region wants to conjugate revitalisation of economic field with a strong fight against climate change issues, in order to plan an economic growth founded on "competitiveness in sustainability" (Prezioso, 2011), starting from an incentive to decarbonization of energy resources through new technologies, in line with National Energy Strategy (MISE, 2017) and Energy Roadmap 2050 (EU, 2012) of European Commission towards green economy. Achievement of energy efficiency targets is possible thanks to development of sustainable technologies in different sectors (green jobs), also in order to reduce enterprise's costs.

One of the key elements of this Axis is the turning of Public Local Transport towards a green technology, through replacement of vehicles and deep changes in the use of public infrastructures.

Priority Axis 5 – Hydrogeological and seismic risk: Latium Region suffers a highlevel risk of seismic and hydrogeological damages, especially in some territories. In coherence with National Risk assessment (Presidency of the Council of Ministers Italian, Civil Protection Department, 2018), ERDF ROP foresees a complex plan for reducing risk reasons and for enhance seismic resistance of buildings.

The selection of the priority axes was done starting from a strategic view of the Region and was explained in the ROP with the explicit deep indication of mandatory steps to be reached in order to achieve the targets.

The ROP document reviews the situation related to compliance with ex ante conditionalities (ExAc), addressing the ones not fulfilled with specific strategies (Tab. XII.1).

The definition of investment priorities was reached through a broad participatory process on the basis of the motto "Invest for the future and determine the change", in order to re-thinking the development models and maximize result of the expenditure choices, switching from the 'how much' to the 'how' to spend, in a point of view oriented on the quality and not just the quantity of expenditure.

With the aim to use the funds in a 'smart way', ROP forecasts a deep modification of governance model in the use of EU funds, in order to match operative processes to spend better and sooner.

The achievement of these aims also passes through the complex application of National and Regional strategic documents, which constitute key elements of the overall strategy, in a cross-sectorial view. In particular, the *Strategia Nazionale per le*

ExAc	Priority Axes of ROP	References
T.01.1 – Research and Innovation: Existence of a natio- nal or regional smart specialisation strategy in line with the national reform programme, in order to produce le- verage effect on private expenditure in research and in- novation and complies with the characteristics of systems at national and regional levels	1. Research and Innovation	Smart Specialisation Strategy of Latium Region (DGR n.478 17/7/2014) Regional Strategic Programme for Rese- arch, Innovation and Techno- logy transfer Creative Latium
T.02.1 – Digital Growth: A strategic-political framework devoted to digital growth, in order to boost private and public accessible services, of good quality and interopera- ble, increasing the spread among citizens, including vul- nerable groups, enterprises, public administrations	2. Digital Latium	National strategy for digital growth Digital Agenda for Latium Region
T.02.1 – New access network infrastructure Generation (NGN): Existence of National or Regional plans for NGN, taking into account actions in order to achieve the Union's objectives of high-speed Internet access, focusing on areas where the market does not provide an infrastructure open to a affordable and quality cost in accordance with standards, providing services to vulnerable groups	2. Digital Latium	Italian Strategic Plan for hi- gh-speed Broadband
T.03.1 – Implementation of specific actions to support the promotion of entrepreneurship taking into account Small Business Act (SBA)	3. Competiti- veness	Regional Law 8/2011 – "Pro- visions to promote the quality and simplification of regional legislation on small and me- dium-sized enterprises", which introduced SBA in Latium. Implementing Regulation was adopted with Regional Law 25/2012
T.04.1 – Implementation of actions to promote cost- effective improvement of efficiency energy end-use and effective investment in cost terms in energy efficiency at construction or renovation of buildings	4. Sustainable energy and mobility	Italian National Energy Stra- tegy; Institution of a formal control service of Certificates of Energy Performance (Re- gional Law n. 90/2013)
T.05.1 – Risk prevention and risk management: existen- ce of national or regional risk assessments for disaster management, taking into account adaptation to climate change	5. Hydro- geologic and seismic risk	Institution of SIRDIS, Re- gional Informative System for the Soil protection

Tab. XII.1 - Ex Ante priorities and compliance references.

Source: Author's elaboration of data from Regione Lazio, 2014b, pp. 200-265

Aree Interne (National Strategy for Inner areas – NSIA, Barca et al. 2014) identifies 5 areas of Latium territory, to be addressed by specific projects, to contribute in the achievement of ROP priorities also in inner peripheries.

In areas identified within NSIA, ROP intends to work through actions for reinforcement of Services of General Economic Interest, in order to create condition to stop the depopulation, defining a needs-based strategy for revitalize territories. With this aim, the NSIA was declined by Latium Region in specific pilot projects addressing in particular 'Valle di Comino' territory, in Frosinone province, a 571 km² terri-



Fig. XII.1 - Selected 'Inner Areas' for pilot strategies in Latium Region.

Source: Deliberazione Giunta Regionale Lazio 17 luglio 2014, n. 477. Individuazione Aree interne della Regione Lazio per la I fase di attuazione della Strategia nazionale Aree interne – Strategia per il Lazio. Allegato a p. 1

tory identified as pilot area for Regional strategy, considering, in Financial plan, the use of ERDF ROP 2014-2020 funds for reduction of digital divide. ERDF ROP foresees to allocate a share between 1%-5% of total amount for these areas (Regione Lazio, 2014b, p. 187 and 193).

The achievement of ROP targets passes through a complex set of policy interventions aiming at improving efficiency of ERDF funds in marking the change towards the territorial goals.

In particular, the adoption of Smart Specialisation Strategy (S3) (Regione Lazio, 2016) was the key document in fulfil the Ex Ante conditionalities related to Research and Innovation. Starting from the Research and Innovation Strategies for Smart Specialisation (RIS3) (EC, 2012), the strategy analyse the Regional situation and potentialities of innovations, with the aims to:

- develop a long-term strategy to foster dialogue between Innovation and Research actors;

- to promote path of valorization of excellences in industry and research, encouraging development of technologies in facing main social challenges;

- to find new technology paths for regional specialisation;

- to speed up the evolution of industry among the emerging market;

- avoid fragmentation of interventions and to set up all the instruments in innovation and research (Regione Lazio, 2016, p. 4). The document includes the identification of Specialisation Areas of Region, selected through *focus groups*: Aerospace; Life Sciences; Cultural Heritage and Cultural technologies; Digital Creative Companies; Agrifood; Green economy and Security.

Finally, the document identifies main tools for the achievement of the targets, with the definition of financial and policy instruments, programmes (like 'Startup Lazio!') and strategic documents, such as Regional Strategic Programme for Research, Innovation and Technology transfer (Regione Lazio, 2017).

Digital Agenda of Latium Region (Regione Lazio, 2015) helps in achieving targets of Axis 2, through identification of main objectives like resetting digital divide, achievement of e-government and open government, innovative services for citizens and companies, and promotion of new citizenship through digital competences (Regione Lazio, 2015, pp. 3-4). The document lies in compliance with National Strategy for digital growth (Presidenza del Consiglio dei Ministri, 2015a) and European Digital Agenda (EC, 2014) and represents an important element for the actual implementation of ROP actions in Axis 2.

A key part of overall strategy for achievement of targets of Priority Axis 2 is the Italian Strategic Plan for the High-Speed Broadband (Presidenza del Consiglio dei Ministri, 2015b), a national plan approved in 2015, aiming at building a public network in all the national territory to be used by operators, in order to bridge the digital gap by 2020, starting from lagging territories.

XII.2. AN EX ANTE EVALUATION OF THE REGIONAL PERFORMANCE

The evaluation of regional performance was carried out through STeMA methodology, a Territorial Impact Assessment able to assess the weight of several indicators shared in fourth determinants founded on pillars of Europe 2020 Strategy for a Smart, Sustainable and Inclusive Growth. The fourth one is dedicated to use of funds for financing strategic actions: this evaluation is needed in order to better assess the effectiveness of policy choices in the achievement of strategic results for the territory.

The ex ante evaluation aims at assessing the situation of Region within the fourth determinant at t_0 moment, that is to say the performance of territory through indicator analysis, before the implementation of politics foreseen in ROP.

XII.2.1. Smart Growth determinant

Within the *Smart Growth* field, Latium Region shows a B level of overall performance, in a scale from A to D. The medium-high level is reached thanks to the pushing effect of Roma, that reach an A level in eight on nine indicators. The reason why the Capital area doesn't reach A level is due to the very low level (D) of *Index of Innovative Dependency*, that is an indicator related to the composition of *Human Capital* within NUTS3 territory. However, the maximum level reached by the other indicators, and consequently by the typologies, sectors and categories, push overall level of region to a B level. The same level is reached by Frosinone province; in this case just three indicators reach an A level: *Population with tertiary education*

N2_03	Italy	Territory	SG_UI	SG_BUL	SG_PAI	VsT	DS	SG_PL	SG_IDI	SG_PET	SG_PLL	PETPLL	HC	Е	IV	SG_RDI	SG_BLPA	ISQ	SG
IT1099	Lazio	1	А	А	С	С	С	А	D	А	В	А	В	В	В	А	D	В	В
IT1100	Viterbo	6	С	С	С	С	С	В	С	В	D	С	С	С	С	A	В	А	С
IT1101	Rieti	6	D	D	С	С	С	D	В	D	D	D	D	D	D	А	В	А	С
IT1102	Roma	1	A	А	А	А	А	А	D	А	А	А	В	В	В	A	А	А	В
IT1103	Latina	3	А	В	D	D	С	А	D	А	С	В	С	С	С	А	С	В	С
IT1104	Frosinone	3	В	D	В	С	С	В	С	А	С	В	В	В	В	A	А	А	В
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Tab. XII.2 - STeMA ex ante assessment of Latium Region, Smart Growth determinant.

(PET), R&D Infrastructures (RDI) and Telecommunication development level (BLPA). The specific weight of these indicators permits to province to reach a B performance, equal to Rome, bringing regional level to B performance level.

As foreseen, the weight of bad performance of inner peripheries of Viterbo, Rieti and Latina represent a ballast in the regional *Smart Growth* determinant: the three rural provinces reach a C level, with some interesting result.

In particular, Viterbo and Rieti shows a bad (C and D) performance in all the indicators but the one related to *Research and Development Infrastructure*, which reach an A level: this seems to highlight the vocation of regional territory to a researchoriented economy, proven by the six public, eight private and seven telematic universities on regional territory.

Since reaching a determinant level of C, the Latina province shows some good performances in the indicators related to *Human Capital*, and in particular the percentage of population with high-level degree in education (level A both for three years and advanced degree). However, this result doesn't let to province to go over a C level.

The overall picture of region performance in *Smart Growth* shows deep differences between territory, giving evidence to a territorial organization still far from a polycentric vision, still highly oriented on a monocentric organization through Rome Capital city.

Capital city appears to be more 'smart' than the rest of the territory, also due to the deep centrality of administrative sector within city's economy: the status of Capital city brings the territory towards a stronger efficiency in the field of connectivity, communication development and internet use in public body. Furthermore, this kind of advantages are not widely distributed on the territory but keep stronger in province of Rome and in province of Frosinone, while the other three provinces stay far away from a standard of efficiency.

XII.2.2. Sustainable Growth determinant

As far as *Sustainable Growth* determinant is concerned, Latium Region reaches a low performance level C. In this case, differences between Rome Capital city and the other three provinces are lees deep, and ex ante assessment give evidence to a territo-

	Sustainable growth	υ	В	D	Ο	С	\cup	trix
	CCA + SI	υ	υ	D	В	υ	В	та
	Sostenibilità infrastrutturale (SI)	В	В	В	В	В	В	MA
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	O Rift	0	Α	Α	Ω	В	В	
	O KaccD	υ	U	D	C	C	υ	
	Vulerabilità (Vuln)	υ	U	D	В	С	В	
	Q_Risk	В	В	С	Ο	Α	В	
	SAAcPot	υ	υ	D	В	С	В	
	Q_AcPot	V	В	Ω	A	A	В	
	Stato dell'aria (SA)	C	υ	D	В	С	В	
	niA2_Q	D	В	С	D	В	В	
	ଦିପେ	В	υ	D	Α	С	В	
	Competitività sostenibile (CS)	υ	В	D	υ	υ	υ	
	IEIE	υ	В	В	υ	υ	υ	
	Interazione finanziaria (IF)	υ	В	С	υ	D	υ	
	Q_IAF	A	υ	D	A	В	υ	
	0 ⁻ BnK	υ	В	C	υ	D	υ	
	Interazione economica (IE)	υ	В	В	υ	C	υ	
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rial disparity where rural territories has a better chance to be more competitive in sustainability than territories with a strong historic industrialization.

In fact, Viterbo rural province reaches a B level, higher than C of R oma, Latina and Frosinone. The latter, in particular, has to face a bad *Broadband penetration level* and a bad performance in *Employed* indicator probably related to the crisis of old-style industrial sector within the Sacco Valley, despite reaching the unique A level in the indicator related to *Local Units*. Same reason seems to be behind the bad performance of *Commercial integration of goods*, while indicator of 'Patents' reaches a A level only in the province of Rome Capital.

It is to be noted that the two main rural provinces in Latium Region reaches very different results in *Sustainable Growth* determinant: Rieti has the worst performance (D) in all the Region. This is related to the lowest level in twelve on twenty-eight indicators, such as *Manufacturing companies, Green Added Value, Insurance and Finance institutions* and *Separate waste collection*: in all of these indicators, Rieti is the only province in region with the lowest score. On the other side, Viterbo – the other rural province – reaches the best performance in the region with a B level, which is due to the highest impact of *Green jobs, Foreign Direct Investments* as well as of *Waste* sector.

XII.2.3. Inclusive Growth determinant

The *Inclusive Growth* determinant aims at highlighting the ability of the territory in reaching the goal of Europe 2020 in building an Inclusive Growth for Europe. In this topic, Latium Region looks to reaching a general good level B, thanks to a highest-score performance in some indicators, especially related to the economic issues and to cultural potentiality: *GDPpps, Cultural opportunities, Students inbound* and *Foreign Inclusion* sector. Furthermore, this regional performance is due to a very high weight of Rome in the region: at lower scale, the same indicators show a bad or even very bad performance in the other provinces, highlighting the overall imbalance between centre and peripheric areas of region.

Rome province, in facts, register a B level in the determinant, result of the maximum level (A) in some key indicators such as the *Rate of cross-border and trans-regional cooperation*, *Female employment* and *Per-capita consumption*. In the same indicators, the other provinces reach mostly levels among D and C. In *Female employment* Rieti rural province register a B level.

Apart from this indicator, Rieti is the lowest-level province in *Inclusion Growth*, with a D level. Several indicators (eleven out of twenty-seven) register worst performance, while only four boast the maximum level, including *Hospitalization* (Rome has a C level) and *Early school leaving* (Rome level D). Lowest level in economic indicators and in indicators measuring cultural offer give evidence to the peripherality of Rieti province, still unable to compete with the high weight of Rome and to find an endogenous way of local development.

Latina province, C level in determinant, register a better performance in some social indicator like *Nurseries*, and a worst in other ones like *Hospitalization*. In general, the *Economic variables* sector is able to assess the performance of the province in economic issues related to *Inclusive Growth*. Data of this sector shows a maximum level for the province of Rome, and C level for the other provinces but Rieti, which reaches the

	Inclusive Growth	В	υ	Ω	В	υ	υ	
	C2I + CI	O	υ	υ	υ	υ	0	
	(IJ) incitatizi istituzioni (CI)	8	8	8		0	8	
		~	~	3	~	0	~	
	-1002_0	-		1			1	
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		В	В	В	0	0	В	
	O PeEe	В	В	В	C	0	С	
	O_PpEn	В	В	В	Ο	Ο	В	
	д-АтКед	A	Α	Α	A	A	A	
	Capacità di inclusione sociale (CSI)	υ	υ	Ο	Ο	υ	Ω	
	Attitude to social welfare (ATS)	В	υ	В	В	υ	Ω	
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	Capacità formativa inclusiva (CFI)	U	В	С	В	В	В	
	Capacità del sistema formativo	U	В	С	В	В	В	
	Esclusione del siste formativo (EFS)	Ω	В	A	Ω	υ	С	
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Source: STeMA matrix

Italy	RF_SpR&S	RF_SpSvEc	IC	RF_SpOc	RF_SpFoP	CU	InCon	RF_SpSS	RF_SpTra	CS	RF_SpG	RF_SpSoc	QV	Sost	Vuln	RF_FCP	RF_COOP	UF	R&F
Lazio	С	D	C	С	В	C	С	C	D	С	В	С	В	С	С	В	С	В	С
Viterbo	С	D	C	С	В	C	С	С	D	С	В	С	В	С	С	D	D	D	С
Rieti	C	D	C	D	С	D	D	D	D	D	D	D	D	D	D	D	С	D	D
Roma	A	А	A	А	A	A	Α	A	В	A	A	Α	A	А	А	A	А	А	Α
Latina	С	С	С	В	A	В	В	В	D	С	В	В	В	С	С	D	D	D	С
Frosinone	C	D	C	С	В	C	С	C	D	С	В	В	В	С	C	C	D	С	С

Tab. XI.5 - STeMA ex ante assessment of Latium Region, Resources and Funds determinant.

Source: STeMA matrix

worst level in the scale. Less differences in *Capability of education systems*, where all the provinces reach a B level and Rieti a C.

If Rieti shows big weakness in economic and cultural/educational indicators, Frosinone registers a bad performance in indicators related to *Social Inclusion* typology: in both sectors *Risk of social exclusion* and *Foreign inclusion* Frosinone is the unique province to get the worst level. High level in Inclusion of foreigners is guaranteed only in Rome, while Rieti and Frosinone don't go over C level. In the typology of *Institutional capability* Latina is the dark grey spot C in a light grey-level B of the other provinces.

11.2.4. Resources and Funds determinant

The analysis of the *Resources and Funds* determinant of Latium Region aims at giving evidence to the level of funding of territorial budgets oriented to the main issues related to Europe 2020 goals. Data collection was conducted on the basis of the published financial statements and permit to assess the level of attention payed by territories in the distribution of funds on the main expenditure items. The overall picture of regional expenditure is quite low (C). Among the voices, territories look to pay more attention to expenditures related to *Quality of life* sector, such as *Spending on youth policies, sport and leisure* and *Spending on social right, social policies and the family*, while less money are oriented to economic development, and transport remains an element of weakness of regional competitiveness.

XII.3. EX POST TERRITORIAL IMPACT ASSESSMENT OF THE ERDF ROP 2014-2020 POLICIES

The ERDF ROP (Regional Operational Programme of ERDF) of Latium Region, identifies strategic lines of use of European funds within the Europe 2020 strategy for the development of the territory. Through a deep analysis of this document it is possible to assess how Latium policy/decision-makers are facing challenges of the territory as resulted in ex ante analysis of the determinants. As shown in the previous paragraphs, Latium shows a bad performance level in *Sustainable Growth* (C), but B level of *Smart* and *Inclusive Growth* are reached through considerably deep differences among the provinces, where the burden of Rome Metropolitan area counterweights a very composite mosaic of territories, especially rural ones, which stay generally way behind the performance of Rome in several key indicators.

Starting from this ex ante situation, policy makers declares in the ERDF ROP that regional view is oriented to a strong investment in key strategic actions aiming at building a deep change intended to last in the future, summarized with the motto "Invest in the future and determine the change", also as a response to economic crisis, with the aim to propose a different kind of economic development (Regione Lazio, 2014b, p. 10). The idea of the change of direction compared to the current development models is the main path of the ROP, to make strongly more concrete the efficiency of the EU-funded policy oriented to territorial development.

In this paragraph will be carried out a Territorial Impact Assessment aiming at assessing the territorial impact of the Latium ERDF ROP policies in the different territorial typologies of the Region. Through STeMA methodology, assessment will be achieved in the same four determinants used in ex ante paragraph, in order to give back comparative results of the ex post situation.

XII.3.1. Smart Growth – ex post assessment

In conceptual initial analysis, Latium ROP shows a particular attention to *Smart Growth*: since all the first 3 TOs of ESIF general regulations in support of the Europe 2020 strategy are refereed to this determinant, Operational Programme aims at achieving huge results in this field, in which Region overall is at a medium-high ex ante level (B).

ROP starts from the consideration of the need to develop a better match between supply and demand in research field, as a key tool for the competitiveness of Regional productive system, to be based on high technological level of goods and services. Latium boast a big potential in innovation, thanks to a large concentration of excellence research centre, but looks to be unable to transfer this innovative added value to companies and citizens level. In this sense, strategic elements of the ROP are S3 strategy and High-speed broadband strategic plan, aiming at bridging the digital gap (Regione Lazio, 2014b, p. 27).

By applying policies choices of ROP within Smart Growth STeMA matrix, we can see an improvement of the performance of *Smart Growth* determinant only in Latina province (from C to B), while the other territories keep their ex ante level.

Scaling down to indicator level, we can notice more deep differences. It is interesting to highlight that Rome province doesn't find any changes but in *Innovative Dependency Index* (IDI), that is an indicator related to structure of *Human Capital* sector. IDI register an improvement of the performance in every provinces, while the *Education* typology (typology level) register a growing of performance in Rieti and Latina territories.

Digital Society typology registers also an important rising of level only in Viterbo, Rieti and Frosinone, while e-government improvement target seems to be reached in all the provinces but Rome.

Italy	SG_UI	SG_BUL	SG_PAI	VsT	DS	SG_PL	SG_IDI	SG_PET	SG_PLL	PETPLL	HC	Э	IV	SG_RDI	SG_BLPA	ISQ	SG
Lazio	А	A	В	B	B	Α	С	А	В	А	В	В	В	А	C	В	В
VT	B	B	B	B	B	Α	B	В	D	С	С	С	С	А	A	A	С
RT	C	C	B	B	B	С	Α	D	D	D	С	C	С	А	A	A	С
RM	A	A	А	A	Α	Α	С	А	А	А	В	В	В	А	A	A	В
LT	А	A	С	С	С	A	С	А	С	В	B	B	B	А	B	A	B
FR	Α	C	Α	B	B	Α	B	А	С	В	В	В	В	А	A	A	В

Tab. XII.6 - STeMA ex post assessment of Latium Region ROP policy choices, *Smart Growth* determinant. *Letters in bold shows a change in ex post situation.*

Source: STeMA matrix



Figg. XII.2 and XII.3 - SG3 Indicator (Internet in the public body), ex ante and ex post situation. Source: Author's elaboration



Figg. XII.4 and XII.5 - SG17 Indicator (*Telecommunication development level*), ex ante and ex post situation. Source: Author's elaboration



Figg. XII.6 and XII.7 - SG20 Smart Growth determinant, ex ante and ex post situation. Source: Author's elaboration

XII.3.2. Sustainable Growth – ex post assessment

With a C level, ex ante performance of Latium Region in *Sustainable Growth* is medium-low, with little differences among the provinces. Furthermore, the assess of ROP policy in this determinant shows an improvement of the performance in the Region as a whole, and in all the provinces, showing that result are properly addressed in this pillar.

Among the provinces, Viterbo rural one registers the best performance, reaching A level, while Rieti (the other rural province) grows a little, reaching C level.

Scaling down to indicators' level, it is possible to note that almost every indicator is interested by policy choices, in almost every territory. Rome is the province less interested, since in some case ex ante performance was yet at A level.

Indicator related to *Urban Waste* show an improvement in Rome and Latina performance (C and B), while Viterbo and Rieti keep their maximum level. By looking at financial and economic sustainable growth, it is interesting to underline that one of the main target of ROP, enhancing *Productive system Identity* (sector level) register an important improvement in all the provinces and in overall Region (B level).

XII.3.3. Inclusive Growth – ex post assessment

Even if ROP decides not to invest on any policies directly related to Thematic Objectives 8-11, overall performance of Latium Region registers an important improvement in *Inclusive Growth* determinant and indicators.

Through policies selected by ROP, Regional performance level in determinant grows to a A level; the province rises in all territory, reaching A level in Rome, C in Rieti and B in other provinces.

The complex set of policies, oriented in particular to Thematic Objectives 1-5, permits to territory to the level of indicators composing *Inclusive Growth* determinant. The Indicator related to *NEET* shows an improvement in all the provinces but Rieti (that was at A level in ex ante), reaching A level in Viterbo, B in Latina and Frosinone, C in Rome (in the ex ante it was D). This means that ROP policies can have a good impact in reducing number of NEETs.

Female Employment indicator registers also an increasing in determinant performance to A level at region scale, while Rieti reaches maximum level like Roma. Viterbo province registers a B level, while Frosinone and Latina stay behind with a C performance, anyway better than ex ante situation.

Performance of territories in *Institutional capability* of the region and of the provinces receive a good boost reaching top level as region and as Rieti and Roma provinces, while the other ones achieves a B good level.

XII.3.4. Resources and Funds – ex post assessment

The last determinant assessed is related to the use of funds in financing specific policies for the achievements of Europe 2020 goals. Through this *Resources and*

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Figg. XII.8 and XII.9 - SuG28 Indicator Insurance and financial institutions, ex ante and ex post situation. Source: Author's elaboration



Figg. XII.10 and XII.11 - SuG41 Indicator Urban Waste, ex ante and ex post situation. Source: Author's elaboration

Funds determinant is possible to assess the situation of expenditure in key budget voices, in order to better understand the weight of policy choices within territories.

Ex ante situation of Region was characterized by a large amount of expenditure in Rome and in southern provinces, and a low level in rural provinces of Viterbo and Rieti.

The assessment of foreseen impact of the ROP policies shows a general improvement of all the indicators in all the territories but Rome, which was at A level in ex ante analysis. In particular, top level is reached in Vocational Training and in policies for youth and leisure, and cohesion overall level rises in all the territory.

The territory of Latium Region has political-administrative characteristics unique in Italy, due to the presence, on its territory, of the Capital city of Rome. The administrative structure and the territorial organization of the regional area is strongly influenced by the specific weight of this urban reality that is, on one hand, a driver for the development of whole regional economy – which reach performance level higher than the other regions of NUTS 1 level "Centro" –, but on the other hand, it risks devouring the potential territorial capital of peripheral provinces by preventing the homogeneous distribution of services and resources in a polycentric perspective: the presence of the



Figg. XII.12 and XII.13 - SuG54 Sustainable Growth determinant, ex ante and ex post situation.

Source: Author's elaboration

	Inclusive Growth	v	В	υ	V	в	в	trix
	C2I + CI	в	в	в	в	в	C	ma
	Capacità istituzioni (CI)	V	в	V	V	в	В	MA
	Fiducia nella governance	V	в	V	A	m	В	STe
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	Capacità di inclusione sociale (CSI)	~	~	~	3	~		
	Affitude to social welfare (ALS)	-	-		-	-	0	
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Figg. XII.14 and XII.5 - IG38 Sector Inclusion of foreigners, ex ante and ex post situation.

Source: Author's elaboration



Figg. XII.16 and XII.17 - IG40 Indicator *Female Employment*, ex ante and ex post situation. Source: Author's elaboration

Italy	RF_SpR&S	RF_SpSvEc	IC	RF_SpOc	RF_SpFoP	CU	InCon	RF_SpSS	RF_SpTra	CS	RF_SpG	RF_SpSoc	QV	Sost	Vuln	RF_FCP	RF_COOP	UF	R&F
Lazio	B	С	B	B	Α	B	B	B	С	B	Α	B	A	B	B	A	B	Α	B
Viterbo	B	С	B	B	A	B	B	B	С	B	A	B	A	B	B	C	C	С	B
Rieti	B	С	B	С	B	C	C	C	С	С	С	С	С	С	С	С	B	С	C
Roma	A	А	A	Α	Α	Α	Α	Α	Α	Α	Α	А	А	А	Α	А	А	А	A
Latina	B	B	B	A	A	A	A	A	С	B	A	Α	A	B	B	C	С	С	B
Frosinone	B	C	B	B	A	B	B	B	С	B	A	A	A	B	B	B	С	B	B

Tab. XII.9 - STeMA ex post assessment of Latium Region ROP policy choices, *Resources and Funds* determinant. *Letters in bold shows a change in ex post situation*

Source: STeMA matrix



Figg. XII.18 and XII.19 - IG51 Inclusive Growth determinant, ex ante and ex post situation. Source: Author's elaboration



Figg. XII.20 and XII.21 - RF19 *Resources and Funds* determinant, ex ante and ex post situation. Source: Author's elaboration

Capital city of Rome have brought a Regional development model strongly focused on the centre, with a very unbalanced demographic, urbanistic and economic growth. Starting from this assumption, ROP drew action aiming at addressing this unbalance through path of valorisation of peripheric areas, starting from cultural-touristic field, in order to reorganize regional weight according to a polycentric view.

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