



Stairway to Excellence

Cohesion Policy and the Synergies with the
Research and Innovation Funds

Romania (RO)

Facts & Figures

Complementary Regional Indicators



June 2015

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- European Commission, JRC-IPTS (2015), Stairway to Excellence Facts and Figures: Romania.

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Introduction

The regional indicators presented in this document complement the "National Facts and Figures"¹. The regional level focussed on is NUTS2² and key indicators for the regions in the country are provided related to the macro economy, Framework Programme 7 (FP7) and the Structural Funds (2007 – 2013). The document allows the capacity of individual regions to be better understood and the regions place in the national context can be studied when used in conjunction with the national figures. The purpose of this document overlaps with the "National facts and figures" in that it provides data to address the following questions:

- What is the overall position of the territory in terms of FP7 budget captured and Structural funds dedicated to R&I?
- What are the specialisation areas emerging from FP7 participation?
- What are the main R&I stakeholders involved in EU programmes?

These "Complementary Regional Indicators" are provided for those countries for which the regional level has some important but limited relevance. For other countries the regional level is not important and no complementary indicators are provided. For one country, namely Poland, the regional level is important and detailed "Regional facts and figures" are provided.

Macro-economic Indicators

Disparities exist between territories within a country. These disparities impact on the capacity of participants to be involved in EU programmes such as FP7/Horizon 2020, the funding rate of EU regional funding, the funding absorption capacity and specialisation pattern at territorial level.

Table 1 gathers some macro-economic indicators extracted Eurostat in order to characterise the regions.

Table 1: General macro-economic indicators of the Regions in 2011

	GDP per Capita (in EUR)	GDP per capita compar ed to EU average (in %)	R&D expendit ure (in MEUR)	R&D exp. /GDP (in %)	Share of business sector in R&D expenditu re /gdp (In %)	Share of gov sector in R&D expenditur e /gdp (In %)	Share of Higher education sector in R&D expenditur e /gdp (In %)	Share of Private non-profit in R&D expenditur e /gdp (In %)
Nord-Vest - RO11	5,300	21	71.189	0.49	0.23	0.07	0.19	0.00
Centru - RO12	5,800	23	29.228	0.2	0.08	0.02	0.10	0.00
Nord-Est - RO21	3,600	15	40.632	0.3	0.03	0.13	0.14	0.00
Sud-Est - RO22	5,000	20	14.959	0.11	0.00	0.07	0.03	0.00
Sud - Muntenia - RO31	5,100	20	62.712	0.38	0.33	0.03	0.02	-
Bucureşti - Ilfov - RO32	15,500	62	379.372	1.08	0.35	0.58	0.16	0.00
Sud-Vest Oltenia - RO41	4,700	19	29.639	0.28	0.06	0.13	0.07	0.02
Vest - RO42	6,800	27	29.679	0.23	0.04	0.06	0.13	0.00

Source: Compiled and calculated by using Eurostat 2011

¹ <http://s3platform.jrc.ec.europa.eu/facts-figures>

² <http://ec.europa.eu/eurostat/web/nuts/overview>

Framework Programme 7

Different specialisation patterns emerge from the analysis of the participation of territories in the FP7. The specialisation areas showed in the following table come up from the FP7 participation of beneficiaries based in Regions. Methodology is the following: we consider there is an FP7 specialisation in a specific area when we observe an over-distribution in this area compared to the standardized distribution of the budget in the FP7. The table is result of the comparison of the weight of each theme in the total funding received by the Region/country with the corresponding weight in the whole FP7.

Table 2: FP7 specialisation at regional level (Nuts 2)

	R011	R012	R021	R022	R031	R032	R041	R042	Romania
Food, Agriculture and Fisheries	X	X		X					
Biotechnology	X		X						
Health					X				
Information & communication technologies	X							X	
Nanosciences & Nanotechnologies			X			X		X	X
Materials	X		X	X	X	X		X	X
New production technologies		X		X		X			X
Integration of nanotechnologies for ind.l app			X			X		X	X
Energy									
Environment			X	X	X	X			X
Aeronautics		X	X		X	X			X
Space		X		X		X			
Automotive	X							X	
Rail		X							
Waterborne				X			X	X	X
Urban transport and intermodalities			X	X			X		X
Socio economic sciences and humanities	X			X		X		X	X
Security				X		X	X		X

Source: EC FP7 contract database June 2014

The following table show the four first organisations based in each Region in terms of number of funded participations in the FP7.

Table 3: The 4 first organisations at regional level

	NAME	TYPE
Nord-Vest - R011	UNIVERSITATEA TEHNICA CLUJ-NAPOCA	HES
	UNIVERSITATEA BABES BOLYAI	HES
	TECHNOSAM SRL	PRC
	TRITECC SRL	PRC
Centru - R012	NAME	TYPE
	UNIVERSITATEA TRANSILVANIA DIN BRASOV	HES
	ROPARDO SRL	PRC
	SIEMENS PROGRAM AND SYSTEM ENGINEERING SRL	PRC
	UNIVERSITATEA LUCIAN BLAGA DIN SIBIU	HES
Nord-Est - R021	NAME	TYPE
	UNIVERSITATEA ALEXANDRU IOAN CUZA DIN IASI	HES
	INSTITUTUL DE CHIMIE MACROMOLECULARA PETRU PONI	REC
	UNIVERSITATEA TEHNICA GHEORGHE ASACHI DIN IASI	HES
	UNIVERSITY STEFAN CEL MARE SUCEAVA	HES
Sud-Est - R022	NAME	TYPE
	INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE MARINA GRIGORE ANTIPA	REC
	UNIVERSITATEA DUNAREA DE JOS DIN GALATI	HES
	INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE DELTA DUNARII	REC
	Universitatea Ovidius Constanta	HES
Sud - Muntenia	NAME	TYPE

- RO31	REGIA AUTONOMA TEHNOLOGII PENTRU ENERGIA NUCLEARA - RATEN UNIVERSITATEA VALAHIA TARGOVISTE GREENTRONICS SRL ANA ASLAN INSTITUTE OF GERONTOLOGY AND GERIATRICS	PRC HES PRC HES
Bucureşti - Ilfov - RO32	NAME UNIVERSITATEA POLITEHNICA DIN BUCURESTI Ministerul Educatiei Nationale Unitatea Executiva pentru Finantarea Invatamantului Superior, a Cercetarii, Dezvoltarii si Inovarii UNIVERSITATEA DIN BUCURESTI	TYPE HES PUB REC HES
Sud-Vest Oltenia - RO41	NAME UNIVERSITATEA DIN CRAIOVA BLUE POINT IT SOLUTIONS SRL SC IPA SA NATIONAL RESEARCH AND DEVELOPMENT INSTITUTE FOR CRYOGENICS AND ISOTOPIC TECHNOLOGIES ICSI RM VALCEA	TYPE HES PRC REC REC
Vest - RO42	NAME UNIVERSITATEA POLITEHNICA DIN TIMISOARA UNIVERSITATEA DE VEST DIN TIMISOARA INSTITUTUL E-AUSTRIA TIMISOARA UNIVERSITATEA DE MEDICINA SI FARMACEIA VICTOR BABES TIMISOARA	TYPE HES HES REC HES

Source: EC FP7 contract database June 2014

The following table shows the four first partners of the Region based outside of the Country.

Table 4: The 4 first EU partners

	NAME	TYPE	REGION
Nord-Vest - RO11	BIOZOON GMBH KATHOLIEKE UNIVERSITEIT LEUVEN FUNDACION TECNALIA RESEARCH & INNOVATION Masarykova univerzita	PRC HES REC HES	DE50 BE24 ES21 CZ06
Centru - RO12	NAME UNIVERSITY OF SURREY FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V TECHNISCHE UNIVERSITEIT DELFT UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA	HES REC HES HES	UKJ2 DE11 NL33 ITI4
Nord-Est - RO21	NAME UNIVERSITAET FUER BODENKULTUR WIEN UNIVERSITEIT GENT COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES HELSINGIN YLIOPISTO	HES HES REC HES	AT13 BE23 FR10 FI1B
Sud-Est - RO22	NAME HELLENIC CENTRE FOR MARINE RESEARCH INSTITUTE OF OCEANOLOGY - BULGARIAN ACADEMY OF SCIENCES MARINE HYDROPHYSICAL INSTITUTE - UKRAINIAN NATIONAL ACADEMY OF SCIENCES MIDDLE EAST TECHNICAL UNIVERSITY	REC REC HES HES	EL30 BG33 UA TR51
Sud - Muntenia - RO31	NAME CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE FONDATION D'UTILITE PUBLIQUE COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES NUCLEAR RESEARCH AND CONSULTANCY GROUP JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION	REC REC REC REC	BE21 FR10 NL32 EU
Bucureşti - Ilfov - RO32	NAME TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION	REC REC REC REC	TR51 FR10 FR10 EU
Sud-Vest	NAME	TYPE	REGION

Oltenia - R041	SINGULARLOGIC ANONYMI ETAIRIA PLIROFORIAKON SISTIMATON KAI EFARMOGON PLIROFORIKIS	PRC	EL30
	AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA	REC	ITI4
	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	REC	FR10
	ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	REC	EL12
Vest - R042	NAME	TYPE	REGION
	UNIVERSITA DEGLI STUDI DI VERONA	HES	ITH3
	EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZURICH	HES	CH04
	SIEMENS AKTIENGESELLSCHAFT	PRC	DE21
	TECHNISCHE UNIVERSITAET WIEN	HES	AT13

Source: EC FP7 contract database June 2014

Structural Funds

There are no regional operational programmes for Romania in 2007-2013. Therefore, the funding for Research and Technological Development, Innovation and Entrepreneurship (RTDI) is associated with National OPs and is addressed in the "Romania: Facts and Figures" report.

However, **Table 5** shows estimations for regional funding by priority themes. There are ten priority themes identified as RTDI:

1. R&TD activities in research centres
2. R&TD infrastructure and centres of competence in a specific technology
3. Technology transfer and improvement of cooperation networks
4. Assistance to R&TD, particularly in SMEs (including access to R&TD services in research centres)
5. Advanced support services for firms and groups of firms
6. Assistance to SMEs for the promotion of environmentally-friendly products and production processes
7. Investment in firms directly linked to research and innovation
8. Other investment in firms
9. Other measures to stimulate research and innovation and entrepreneurship in SMEs
74. Developing human potential in the field of research and innovation, in particular through post-graduate studies

Regional analysis is undertaken at the NUTS2 level. The Operational Programmes (OPs) can be national, regional and in some cases multi-regional. This can present problems as while the regional OPs mean that the funding can be assigned to the NUTS2 region for the national OPs this was frequently not the case with only the national level indicated or a NUTS1 region.

In order to have an idea of the total RTDI funding allocated to projects in a region the national or NUTS1 funding was disaggregated based on the appropriate population proportions for the NUTS2 region. Therefore, the figures in **Table 5** are based on the assumption that the funding allocated is proportional to the population and are therefore estimations intended to provide an approximation of the funding breakdown.

Table 5: Estimated funding allocated to projects by region and priority theme

Region	Estimated funding by priority theme M€										Regional Total M€
	01 R&TD activities in research centres	02 R&TD infrastructure and centres of competence in a specific technology	03 Technology transfer and improvement of cooperation networks	04 Assistance to R&TD, particularly in SMEs	05 Advanced support services for firms and groups of firms	06 Assistance to SMEs for the promotion of environmentally-friendly products	07 Investment in firms directly linked to research and innovation	08 Other investment in firms	09 Other measures to stimulate research and innovation	74 Developing human potential in the field of research and innovation	
Nord-Vest - RO11	6.1	61.1	0.0	2.3	0.0	51.4	21.8	104.7	12.1	37.9	297.4
Centru - RO12	5.6	55.6	0.0	2.1	0.0	46.7	19.9	83.3	11.0	34.5	258.6
Nord-Est - RO21	7.8	77.2	0.0	2.9	0.0	64.9	27.6	99.5	15.3	47.9	343.0
Sud-Est - RO22	6.0	59.4	0.0	2.2	0.0	50.0	21.2	71.5	11.8	36.9	258.9
Sud - Muntenia - RO31	7.4	73.2	0.0	2.7	0.0	61.5	26.2	112.0	14.5	45.4	342.9
Bucureşti - Ilfov - RO32	5.4	53.8	0.0	2.0	0.0	45.2	19.2	63.4	10.7	33.3	233.0
Sud-Vest Oltenia - RO41	4.9	48.3	0.0	1.8	0.0	40.6	17.2	71.3	9.6	29.9	223.5
Vest - RO42	4.3	43.0	0.0	1.6	0.0	36.1	15.4	70.8	8.5	26.6	206.4
Priority Total M€	47.4	471.6	0.0	17.4	0.0	396.4	168.5	676.5	93.4	292.4	2163.7

Source: JRC/IPTS calculated from the Operational Programmes and funding allocated to projects in AIR 2013