Initiatives, Policies and Programmes in support to research in Romania

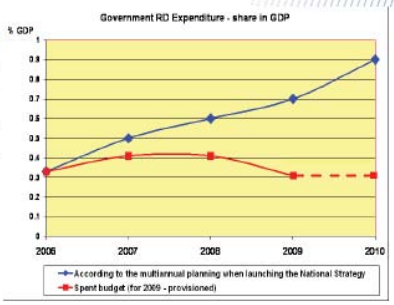
Iulia Mihail

Director of the Romanian Office for Science and Technology to the UE
- ROST -
iulia.mihail@ancs.ro

Challenges public funding

Global crisis led to public under-financing

- Sub-optimal functionality of some public RD institutions
- Sub-optimal functionality of ReNITT (National Network for Innovation and Transfer Technology)
- Provisioned effects upon unemployment, so that the competition for Human Resources in S&T will increase



RD&I system in Romania – Structure & Processes

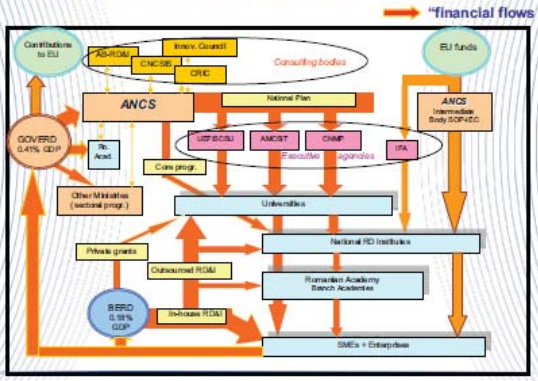
RD&I policy	Government							
	Ministry of Education, Research, Sport and Youth National Authority for Scientific Research (ANCS)						Other ministries	
Consultation	ST Policy Council, Consulting bodies (CNCSIS, Adv.Board-RD&I, Innov. Council, CRIC), Groups of experts, ST foresight						Romanian Academy	Branch Academies
Instruments	National RDI Programmes					European Progs.		Other
	National RDI Plan	Grants	Core Progs.	Sectoral Progr.	Other	FP 7	SOP-IEC	EU,...	CERN...
Implementation	Executive agencies: UEFISCSU, CNMP, AMCSIT, IFA, Intermediate Body							

Operation	Public	Universities	Romanian Academy Institutes	Branch Academies Institutes	National R&D Institutes	ReNITT
	Private	Private Universities	Research Institutes	Associations, Foundations	Enterprises		

Public budget 2010

Public budget for RD&I activities	2008	2009	2010
Total % of GDP	0,41	0,30	0,28
Total (MRON):	2074.5	1509	1640.3
For: MECTS / ANCS	1751.5 / 1740.6	1132.6 / 1122.9	1157.8 / 1129.8
For: Romanian Academy	195.5	226.8	226
For: Other ministries	127.5	149.6	256.5
PN II (National Plan for RD&I)	581.4	773.7	751.8 (needs: 2510)
Costs/RD&I project (planed/realised) – RON	536,133 / 422,443	320,000 / 46,154	planed: 205,000

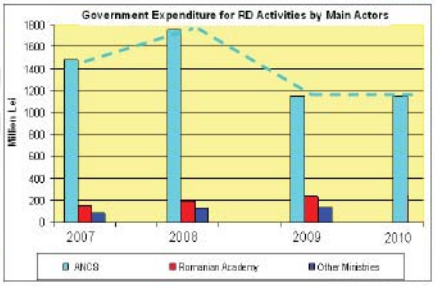
RD&I system in Romania – Main chart



Challenges: public funding

Political decision on diminishing the share of ANCS in public financing has to be balanced by:

- Improving the efficiency of RD expenditure
- Competing for other financing sources: private, EU, structural funds, etc.
- Improving the public acceptance for research & innovation



RD&I system in Romania – system capacity

	Indicator	Unit	Reference 2006	2008
1	Employees from R&D activity	#	42 220	43 502
2	Researchers from R&D activity	#	30 122	30 864
3	PhDs	#	12 309	14 228
4	Public investments in RD&I infrastructure (share of public R&D expenditure)	MLei (%)	115 700 (10.1)	728 600 (35.0)

Source: INS 2009

Increasing trends ...BUT comparing to UE-27 (2007)

- The share of researchers in total employment
  35,2‰ in Romania << 92‰ UE 27
- The share of employees from R&D activities in total employment
  47,9 ‰ in Romania << 155‰ UE 27

FP7 2007- 2013 4 programmes

Cooperation – Collaborative research

Ideas – Frontier Research

People – Human Potential

Capacities – Research Capacity

+

JRC (non-nuclear)
JRC (nuclear)
Euratom

PN II 2007- 2013 6 programmes:

Partnerships in priority RDI fields
Promotion of S&T partnerships leading to innovative technologies, products and services, for solving complex problems in key application areas

Ideas
Generation of high level S&T results, contributing to a higher international visibility and recognition for Romanian research

Human Resources
Increasing the number of researchers and improving their professional performances

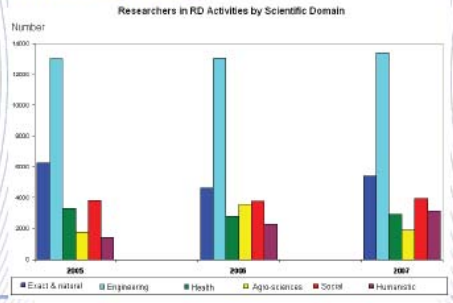
Capacities
Development of RDI infrastructures and their better connection and use at national and international level

Innovation
Promotion of industry-led research, technological development and innovation, based on the absorption of research results, for improving economic competitiveness and the quality of life

Promoting institutional performance
Promoting the continuity and stability of the national R&D institutions, through the development of their own strategies, in accordance with the National RDI Strategy

RD&I system in Ro – researchers by domain of activity

More than half of the number of researchers are still belonging to exact, natural, and engineering sciences



FP7 Cooperation

10 themes

1. Health
2. Food, Agriculture and Biotechnology
3. Information and Communication Technologies
4. Nanosciences, Nanotechnologies, Materials and new Production Technologies
5. Energy
6. Environment (including Climate Change)
7. Transport (including Aeronautics)
8. Socio-Economic Sciences and the Humanities
9. Security
10. Space

PN II Partnerships

9 themes

1. Health
2. Agriculture, food safety and security
3. Information and Communication Technologies
4. Innovative materials, processes and products
5. Energy
6. Environment
7. Biotechnologies
8. Socio-economic and humanistic research
9. Space and security

FP7 aims at achieving the objectives of the "Lisbon" Strategy:

- Economic growth
- Jobs
- Quality of life (CBM, remote working, safe roads, etc.)
- Social challenges: fight poverty, improve human health
- Environmental protection

PN II aims at achieving the 3 strategic objectives of the National RDI Strategy:

- Creating Knowledge
- Increasing the competitiveness
- Increasing the social quality

Raising the EU expenditure in R&D up to 3% GDB by 2010 (1% public funding + 2% industry)

Raising the public funding in R&D up to 1% GDB by 2010

PN II – Partnership - Innovative materials, processes and products (theme 7)

7.1 Advanced materials

7.2 Advanced Technologies for the management of the industrial processes

7.3 High precision mechanical technologies and mechatronic systems

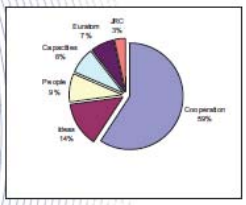
7.4 Nuclear technologies

7.5 Innovative products and technologies for transportation and for automotive manufacturing

15 % of the total budget for Partnership (the highest)

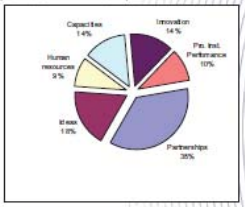
Budget distribution

FP7 Budget 2007-2013
54 582 mil. €



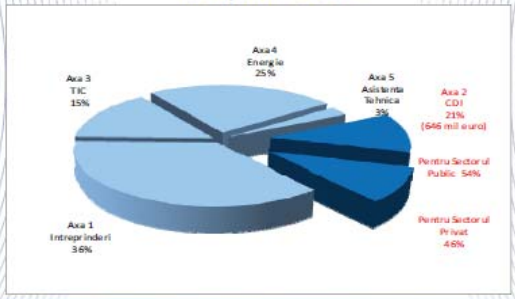
Cooperation	32 292 mil. €
Ideas	7 460 mil. €
People	4 727 mil. €
Capacities	4 291 mil. €
+	
Euratom	4 061 mil. €
JRC	1.751 mil. €

PN II Budget 2007-2013
(15 000 mil. RON) ~ **4 285 mil. €**

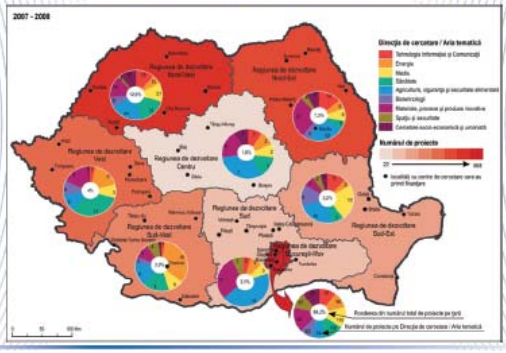


Partnerships	5 400 mil. RON ~	1 543 mil €
Ideas	2 700 mil. RON ~	772 mil €
Human Resources	1 350 mil. RON ~	386 mil €
Capacities	2 025 mil. RON ~	578 mil €
Innovation	2 025 mil. RON ~	578 mil €
Promoting institutional performance	1 500 mil. RON ~	428 mil €

Operational Programme "Increase of Economic Competitiveness" – Priority Axis 2: Research, Technological Development and Innovation for competitiveness



Geographical distribution of the national projects under "Partnership" for 2007-2008/topics



Priority Axis 2: Research, Technological Development and Innovation for competitiveness

Key Areas of Intervation/Operation:

1. ***R&D partnerships between universities/research institutes and enterprises for generating results directly applicable in economy***
   a. Joint R&D projects between universities/research institutes and enterprises
   b. Complex research projects fostering the participation of high-level international experts
2. ***Investments in RDI infrastructure and related administrative capacity development of existing R&D infrastructure and the creation of new infrastructures (laboratories, research centres)***
   a. Development of poles of excellence
   b. Development of networks of R&D centres, nationally coordinated and linked with European and international networks (GRID, GEANT)
   c. Strengthening administrative capacity
3. ***RDI support for enterprises***
   a. Support for high-tech start-ups and spin-offs
   b. Development of R&D infrastructure in enterprises and creation of new R&D jobs
   c. Promoting innovation enterprises

Number of Romanian applicants and requested Community financial contribution in retained proposals for FP7 calls concluded in 2007, 2008 and 2009

	2007	2008	2009
Applicants	234	132	110
Success rate to applicants	13.4 %	15.3 %	15.3 %
EC Contribution (€M)	30.3	18.0	14.4
Success rate to EC Contribution	9.1 %	8.7 %	8.0 %
EC Contribution per applicant (€K)	129.5	136.2	131.1

A piece of advice

- *Use the meeting facilities of ROST, in Brussels*
- *Look to the calls of the Priority Axis 2*
- *Use the Programme "People" (FP7) to stimulate researchers' career development*
- *Have a look to the innovative credit risk-sharering scheme RSFF (Risk-Sharing Financial Facility)*
- *Register as independent expert in FP7*
- *Doubts on FP7? Contact the NCP (Network of National Contact Points), the main structure to provide guidance, practical information and assistance on all aspects of participation in FP7*

Do you know which is the largest metal railway bridge in EUROPE?

Romanian Saligny bridge!

Thank you
and
keep the Romanian research
in your attention !