



PRESS RELEASE

No. 189 of September 23, 2009

The Research-Development Activity in 2008

In 2008, the total expenditure of Romania with the research-development activity amounted to 2980.7 million lei. The research-development expenditure was 0.59% of the GDP^{*)}, 0.06% more than in 2007.

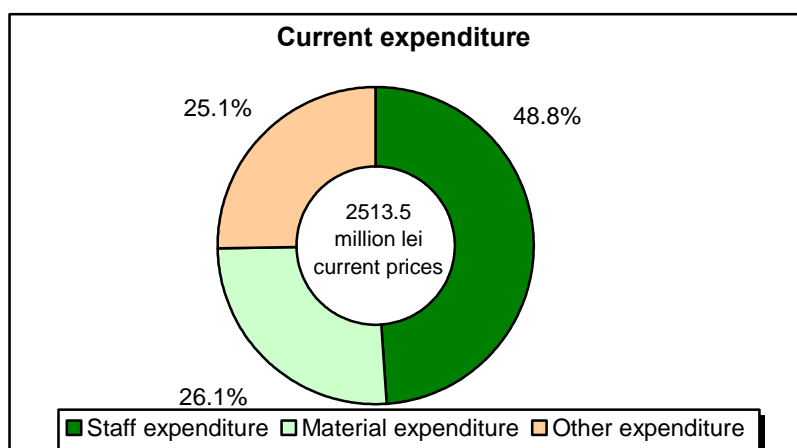
At the end of 2008, 43502 employees were involved in the research-development activity, a relatively constant number, equal to that registered at the end of 2007.

The expenditure with the research-development activity

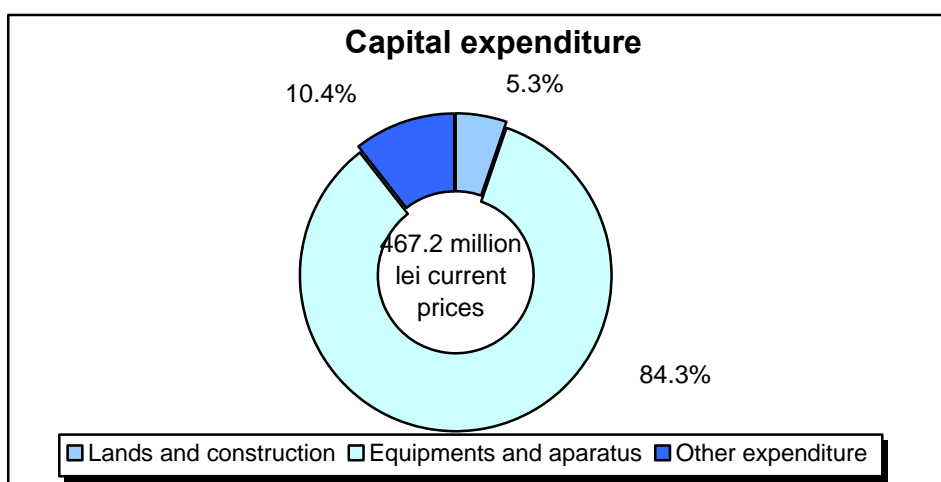
In 2008, 2980.7 million lei were spent on research-development, in its four sectors of activity, out of which 2513.5 million lei, 84.3% respectively, were current expenditure and 467.2 million lei, 15.7% respectively, were capital expenditure.

Compared to 2008, the weight of the expenditure with the endowment of the units that had a research-development activity decreased by 4.3% in 2009.

The structure of the current and capital expenses for the research-development activity, on components, in 2008



^{*)}Gross Domestic Product-Estimated data



In 2008, compared to 2007, the **fundamental research** increased by 3.6% in the total expenditure, that is from 45.9% to 49.5%. The applied research slightly decreased by 2.2% in the total expenditure, from 44.7% to 42.5%. Only 8.0% of the total expenditure was spent for the experimental research.

As to the **financing sources** of the research-development total expenditure in 2008, the public funds have the highest weight (70.1% compared to 67.1% in 2007), followed by the sources from enterprises (23.3% compared to 26.9%).

From public funds, the units in the governmental sector received the largest sums (48.7%), followed by the units in higher education sector (34.5%) and the units in the business sector (16.7%).

**Total expenditure with research-development, on financing sources
and sectors of activity, in 2008**

-million lei current prices-

Sectors of activity / Financing sources	TOTAL	Business sector	Government sector	Higher education sector	Non-profit private sector
TOTAL	2980.7	893.0	1220.8	860.0	6.9
Enterprises	693.4	491.2	176.4	21.4	4.4
Public funds	2089.5	349.6	1018.3	720.2	1.4
Units in tertiary education	78.7	2.5	1.7	74.5	-
Private non-profit	0.8	-	0.3	0.5	-
Abroad	118.3	49.7	24.1	43.4	1.1

The **research intensity** (calculated as a ratio between the total expenditure with research-development and the Gross Domestic Product) in 2008, had a weight of 0.59% compared to 0.53% in 2007.

In 2008, the expenditure from public funds holds a weight of 0.41% of the GDP compared to 0.36% in 2007.

The employees involved in the research-development activity

On December 31, 2008, there were 43502 persons working in the research-development activity (out of them 19988 were women, that is 45.9 %), being preserved a similar percentage as in 2007.

The research-development employees, on sectors of activity, in 2008, as to 2007

- the number at the end of the year -

	2007		2008	
	Employees total	Out of which: women	Employees total	Out of which: women
TOTAL	42484	19544	43502	19988
Business sector	13468	5591	12144	4926
Government sector	9185	4799	10795	5757
Tertiary education sector	19649	9072	20363	9211
Non-profit private sector	182	82	200	94

On **scientific fields**, the biggest weight of the research-development employees is held by those involved in the technologic and engineering sciences, of 47.4%, followed by those involved in natural and exact sciences, with a weight of 15.6%.

The number of researchers in these fields is significant, that is 14366 persons (out of which 39.1% women) in the field of technological and engineering sciences and 4624 persons (out of which 47.8% women) in the field of natural and exact sciences.

On **the level of education**, out of the total number of research-development employees existent at the end of 2008, 34642 have higher education studies (79.6% of the total), 2363 have post high school education and foreman studies (5.4%), 5578 have high school, vocational and apprentice education (12.8%) and 919 have other kinds of education (2.1%).

Compared to 2007, the number of the doctorate graduates was roughly the same in 2008 that is 14851 persons, out of which 6317 female doctorate graduates, which means 42.5%.

Out of the employees who worked in the research-development field in 2008, as to **the effective working hours**, 62.4% had full-time jobs and 37.6 % part-time jobs.

The research-development employees, on activity sectors, in 2008 as to 2007

- full-time jobs equivalent -

	2007		2008	
	Employees total	Out of which: women	Employees total	Out of which: women
TOTAL	28977	13265	30390	14274
Business sector	13107	5330	11525	4689
Government sector	8786	4585	10312	5510
Tertiary education sector	6931	3278	8433	4023
Non-profit private sector	153	72	120	52

In 2008, on **job categories**, the highest weight of the research-development employees were the researchers, 70.9% of the total, that is 30864 persons.

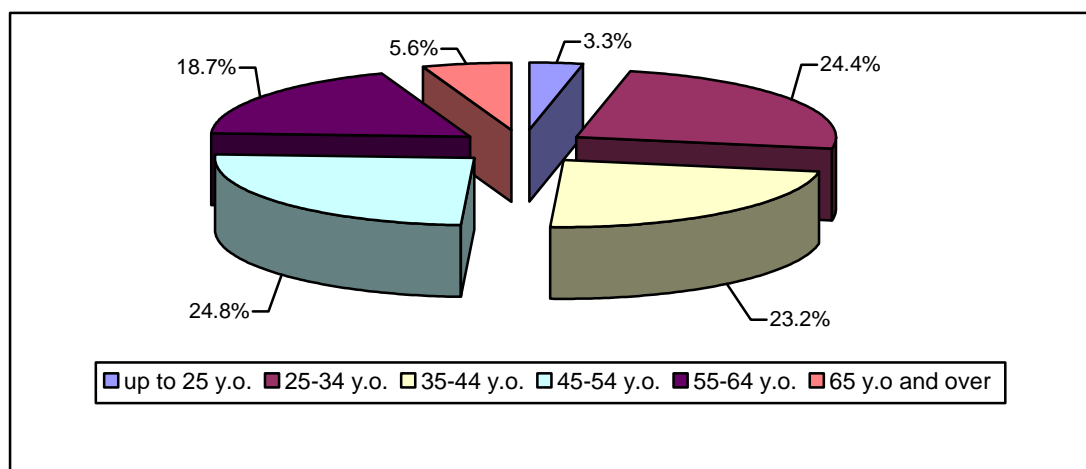
The research-development employees, on job categories, in 2008 as to 2007

- the number at the end of the year -

	2007		2008	
	Employees total	Out of which: women	Employees total	Out of which: women
TOTAL	42484	19544	43502	19988
Researchers	30740	13745	30864	13817
Technicians and similar	4862	2662	5041	2678
Other categories of employees	6882	3137	7597	3493

On age groups, compared to 2007, in 2008 there was a slight decrease in the number of the researchers up to 34 years old (24.4% compared to 26.4%). The weight of researchers aged 35 to 54 was roughly the same, that is 48.0 %.

The structure of researchers on age groups in 2008



METHODOLOGICAL NOTE

1. **Data source:** The annual statistical surveys concerning the research-development activity (CD, CD A and CD U) that provide data collection regarding the indicators concerning human resources and expenditure according to the European Commission Regulation no. 753/2004 on science and technology statistics.

2. **The statistical survey is exhaustive.** The nomenclature on which the reference is based consists of professional research-development units, social and economic units with groups of research-development employees, stations and institutes of agricultural research and production, the units of Tertiary Education and academic clinics with research-development personnel, non-profit organizations with research-development activity.

For detail, kindly see the statistical publication "The Research-Development Activity in 2008", date of issue October 15, 2009.

The next issue of the press release will be on September 2010.