

UNIVERSIDADE DO PORTO

Self-Evaluation Report

Annex XIII

FCT Projects 2006-2008

FCT Projects 2002-2004

Institutional Evaluation
European University Association

FCT Projects
2006-2008

University of Porto. Rectory
Continuous Improvement Service. 20th May 2009

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R&D Projects financed by the FCT through the competitions “All Scientific Domains – 2006”, “National GRID Initiative – 2006”, “CERN - Particle Physics – 2007”, “Clinical Research – 2007”, “CERN - Particle Physics – 2008” and “Success Factors in Basic and Secondary Education – 2008”	2
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Table 1: Projects financed by the FCT – 2006-2008, per competition

	Portugal	U.Porto	%	U.Porto Leader*	U.Porto Participant	%
	(1)	(2)=(3)+(4)	(2)/(1)	(3)	(4)	(3)/(1)
All Scientific Domains - 2006	1248	275	22%	204	71	16%
National GRID Initiative – 2006	13	2	15%	0	2	0%
CERN - Particle Physics – 2007	35	1	3%	0	1	0%
Clinical Research - 2007	63	22	35%	20	2	32%
CERN - Particle Physics – 2008	27	2	7%	1	1	4%
Success Factors in Basic and Secondary Education - 2008	11	5	45%	4	1	36%
Total	1397	307	22%	229	78	16%

*University of Porto as Principal Contractor or Host Institution.

Source: FCT. Search 4-11 May 2009

Table 2: Projects financed by the FCT “All Scientific Domains – 2006” competition, per area

	Portugal	U.Porto	%	U.Porto Leader*	%
	(1)	(2)	(2)/(1)	(3)	(3)/(1)
Mathematics	20	1	5%	1	5%
Physics	37	2	5%		0%
Chemistry and Biochemistry	132	24	18%	14	11%
Environmental Sciences and Technologies	44	9	20%	4	9%
Global Changes	11	1	9%	1	9%
Marine Sciences and Technologies	42	9	21%	7	17%
Health Sciences - Biomaterials and Biomedical Engineering	19	8	42%	5	26%
Health Sciences - Neurosciences	26	9	35%	8	31%
Health Sciences - Epidemiology, Public Health and Environment	23	4	17%	4	17%
Health Sciences - Microbiology, Infection, Immunology and Inflammation	29	5	17%	5	17%
Health Sciences - Pharmacology and Pharmacological Sciences	23	10	43%	7	30%
Health Sciences - Oncobiology and Developmental Biology	17	6	35%	6	35%
Health Sciences - Medical Genetics and Functional Genomics	17	3	18%	3	18%
Health Sciences - Organs and Systems, Metabolism, Nutrition and Toxicology	15	7	47%	6	40%
Animal Science and Veterinarian Sciences	30	12	40%	12	40%
Agricultural and Forestry Sciences - Agriculture and Environment	35	4	11%	4	11%
Agricultural and Forestry Sciences - Food Science and Technology	18	6	33%	2	11%
Agricultural and Forestry Sciences - Forestry Sciences	12	1	8%	1	8%
Biological Engineering and Biotechnology		n/a			

	Portugal	U.Porto	%	U.Porto Leader*	%
	(1)	(2)	(2)/(1)	(3)	(3)/(1)
Mechanical Engineering - Mechanical Design	29	16	55%	13	45%
Mechanical Engineering - Mechanics of Fluids and Energy	21	4	19%	3	14%
Mechanical Engineering - Mechanical Technology	15	6	40%	4	27%
Mechanical Engineering - Control and Robotics	3	0	0%	0	0%
Mechanical Engineering - Industrial Management	2	0	0%	0	0%
Materials Science and Engineering	57	14	25%	7	12%
Civil and Mining Engineering	n/a				
Chemical Engineering - Chemical Engineering	n/a				
Chemical Engineering - Chemical Reaction Engineering	n/a				
Chemical Engineering - Product Engineering	n/a				
Chemical Engineering - Systems Engineering	n/a				
Chemical Engineering - Thermodynamics and Transport Phenomena	n/a				
Electrical Engineering - Automation and Control of Robotics	17	3	18%	2	12%
Electrical Engineering - Electronics and Computers	24	5	21%	2	8%
Electrical Engineering - Energy	9	2	22%	2	22%
Electrical Engineering - Telecommunications	20	3	15%	2	10%
Computer Engineering	58	17	29%	16	28%
Computer Processing of Portuguese Language	3	1	33%		0%
Economics	30	1	3%	1	3%
Management	26	4	15%	3	12%
Law Sciences	n/a				
Political Sciences	8	0	0%	0	0%
Sociology and Demography	23	3	13%	2	9%
Geography	10	3	30%	2	20%
Education Sciences	28	4	14%	3	11%
Psychology	32	7	22%	6	19%
Linguistics	12	1	8%	0	0%
Communication and Information Sciences	15	3	20%	3	20%
Philosophy	14	0	0%	0	0%
History, Anthropology and Cultural Heritage	n/a				
Architecture and Urban Planning	8	1	13%	1	13%
Literature Studies	10	1	10%	1	10%
Art Studies	9	1	11%	0	0%
History of Science and Technology	4	0	0%	0	0%
Higher Education and Science Policies	10	2	20%	2	20%
Sport Studies	10	5	50%	5	50%
African Studies	9	1	11%	1	11%

	Portugal	U.Porto	%	U.Porto Leader*	%
	(1)	(2)	(2)/(1)	(3)	(3)/(1)
Energy	15	3	20%	3	20%
Transports	11	1	9%	0	0%
Agricultural and Forestry Sciences - Plant Genomics	10	2	20%	1	10%
Earth and Space Sciences - Astronomy and Astrophysics	12	5	42%	3	25%
Earth and Space Sciences - Atmosphere	4	0	0%	0	0%
Earth and Space Sciences - Internal Geodynamics	9	1	11%	1	11%
Earth and Space Sciences - External Geodynamics	16	2	13%	1	6%
Earth and Space Sciences - Space Sciences	4	1	25%	0	0%
Biological Sciences - Celular and Molecular Biology	31	6	19%	5	16%
Biological Sciences - Proteins and Structural Biology	15	3	20%	3	20%
Biological Sciences - Biology of Microorganisms	14	1	7%	0	0%
Biological Sciences - Biodiversity and Ecology	36	20	56%	16	44%
Biological Sciences - Qualification and organization in a network of biological collections	5	1	20%	0	0%
Total	1248	275	22%	204	16%

*University of Porto as Principal Contractor or Host Institution.

n/a – non available

Source: FCT. Search 4th May 2009

Sources:

FCT - Confirmed projects databases:

All Scientific Domains - 2006

National GRID Initiative - 2006

CERN - Particle Physics - 2007

Clinical Research - 2007

CERN - Particle Physics - 2008

Success Factors in Basic and Secondary Education - 2008

In <http://alfa.fct.mctes.pt/apoios/projectos/consultas.phtml.en>

FCT Projects
2002-2004

University of Porto. Rectory
Continuous Improvement Service. December 2007

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R&D Projects financed by the FCT through the competitions “All Scientific Domains – 2002”, “Specific Programmes – 2002”, “Specific Programmes – 2003” and “All Scientific Domains – 2004”

Table 1: Projects financed by the FCT – 2002, per major area

Major area	Portugal (1)	U.Porto (2)	% (2)/(1)	U.Porto Proponent	U.Porto Participant
Interdisciplinary Area	15	2	13.3%	2	0
Engineering Sciences	202	52	25.7%	44	8
Health Sciences	80	25	31.3%	22	3
Exact Sciences	108	11	10.2%	7	4
Natural Sciences	122	33	27.0%	23	10
Social and Human Sciences	103	18	17.5%	13	5
Total	630	141	22.4%	111	30

Table 2: Projects financed by the FCT – 2002 competition, per area

Areas	Portugal (1)	U.Porto (2)	% (2)/(1)	U.Porto Proponent	U.Porto Participant
Mathematics	7	0	0.0%	0	0
Physics - Atomic, molecular, optic and of plasma	18	2	11.1%	1	1
Physics - Nuclear, of particles, gravitational and astrophysics	42	2	4.8%	1	1
Chemistry	41	7	17.1%	5	2
Biological Sciences – Molecular and Structural Biology	14	2	14.3%	2	0
Biological Sciences – Cell and Integrating Biology	19	5	26.3%	5	0
Biological Sciences – Systems Biology, Marine Biology and Ecology	27	12	44.4%	8	4
Earth, Marine and Atmosphere Sciences	40	10	25.0%	5	5
Agricultural and Forestry Sciences – Agri-foodstuffs, forestry products technologies and plant protection	20	3	15.0%	3	0
Agriculture and Forestry Sciences – General Research	24	4	16.7%	4	0
Animal Science and Veterinarian Sciences	14	3	21.4%	2	1
Health Sciences - Molecular and genetic medicine, and immunology	16	1	6.3%	1	0
Health Sciences – Biomedical sciences of organs and systems, and oncology	20	11	55.0%	11	0
Health Sciences – Neurosciences and endocrinous systems	9	4	44.4%	4	0
Health Sciences – Microbiology, epidemiology, human population medicine and public health	22	5	22.7%	2	3
Health Sciences – Pharmacology, pharmacological sciences and biomaterials	13	4	30.8%	4	0
Mechanical Engineering	24	7	29.2%	6	1
Materials Sciences and Engineering – Physics of condensed materials, chemistry of the solid state and polymers	13	2	15.4%	1	1

Areas	Portugal (1)	U.Porto (2)	% (2)/(1)	U.Porto Proponent	U.Porto Participant
Materials Sciences and Engineering – Metals, ceramic and electronic materials	14	5	35.7%	2	3
Civil and Mine Engineering	18	6	33.3%	6	0
Biochemistry Engineering and Biotechnology	8	1	12.5%	1	0
Chemical Engineering	33	13	39.4%	10	3
Electrical and Computer Engineering – Robotic, intelligent and information systems	14	2	14.3%	2	0
Electrical and Computer Engineering – Electronics, microelectronics, electrical systems and energy	13	4	30.8%	4	0
Electrical and Computer Engineering – Networks and communication systems, signal processing	8	1	12.5%	1	0
Electrical and Computer Engineering – Computer systems (hardware/software)	10	2	20.0%	2	0
Economics	11	1	9.1%	1	0
Management	5	1	20.0%	1	0
Law	2	1	50.0%	0	1
Political Sciences	1	1	100.0%	1	0
Sociology	14	0	0.0%	0	0
Demography	1	0	0.0%	0	0
Anthropology	4	1	25.0%	1	0
Geography	6	1	16.7%	0	1
Education Sciences	9	2	22.2%	1	1
Psychology	11	1	9.1%	1	0
Linguistics	4	0	0.0%	0	0
Communication Sciences	7	1	14.3%	1	0
Philosophy	5	0	0.0%	0	0
History and Archaeology	16	6	37.5%	4	2
Architecture and Urban Planning	4	1	25.0%	1	0
Literature Studies	1	1	100.0%	1	0
Art Studies	2	0	0.0%	0	0
Interdisciplinary area - Modelling and management of environmental systems	10	1	10.0%	1	0
Interdisciplinary area – Computer Processing of Portuguese language	2	0	0.0%	0	0
Interdisciplinary area – Paleontological Studies	1	0	0.0%		
Interdisciplinary area – History of Science and Technology	2	1	50.0%	1	0
Network Advanced Technologies	3	1	33.3%	1	0
Teams of Autonomous Mobile Robots in Cooperation/Competition	8	2	25.0%	2	0
Total	630	141	22.4%	111	30

Table 3: Projects Financed by the FCT – 2003 competition

Areas	Portugal (1)	U.Porto (2)	% (2)/(1)	U.Porto Proponent	U.Porto Participant
Research on Social Gender Relations and the Policies for Parity between Women and Men in Portugal	18	5	27.8%	5	0
Research Projects on Immigrants and Ethnic Minorities	9	1	11.1%	1	0
Particle Physics	43	3	7.0%	2	1
Programme for the Development of Space Sciences and Technologies	23	2	8.7%	2	0
Total	93	11	11.8%	10	1

Table 4: Projects Financed by the FCT – 2004 competition, per major area

Major area	Portugal (1)	U.Porto (2)	% (2)/(1)	U.Porto Proponent	U.Porto Participant
Exact Sciences	169	23	13.6%	14	9
Earth and Space Sciences	44	11	25.0%	7	4
Natural Sciences	166	38	22.9%	30	8
Marine and Environment Sciences	126	30	23.8%	24	6
Health Sciences	169	69	40.8%	58	11
Engineering Sciences	396	89	22.5%	61	28
Social and Human Sciences	239	34	14.2%	27	7
Total	1 309	294	22.5%	221	73

Table 5: Projects Financed by the FCT – 2004 competition, per area

Area	Portugal (1)	U.Porto (2)	% (2)/(1)	U.Porto Proponent	U.Porto Participant
Physics	38	3	7.9%	1	2
Mathematics	34	5	14.7%	4	1
Chemistry and Biochemistry	97	15	15.5%	9	6
Earth and Space Sciences – Astronomy and Astrophysics	11	5	45.5%	5	0
Earth and Space Sciences – Atmosphere	4	0	0.0%	0	0
Earth and Space Sciences – External Geodynamics	17	4	23.5%	1	3
Earth and Space Sciences – Internal Geodynamics	12	2	16.7%	1	1
Animal Science and Veterinarian Sciences	33	12	36.4%	10	2
Biological Sciences – Biodiversity and Ecology	49	14	28.6%	12	2
Biological Sciences – Cellular and Molecular Biology	42	8	19.0%	6	2
Biological Sciences –Biology of Microorganisms	10	0	0.0%	0	0

Area	Portugal (1)	U.Porto (2)	% (2)/(1)	U.Porto Proponent	U.Porto Participant
Biological Sciences – Proteins and Structural Biology	12	2	16.7%	2	0
Biochemical Engineering and Biotechnology	20	2	10.0%	0	2
Global Changes	15	2	13.3%	2	0
Environmental Sciences and Engineering	66	14	21.2%	10	4
Marine Sciences and Technologies	45	14	31.1%	12	2
Health Sciences – Biomaterials	6	3	50.0%	3	0
Health Sciences – Epidemiology and Public Health	29	12	41.4%	10	2
Health Sciences – Pharmacology and Pharmacological Sciences	20	9	45.0%	8	1
Health Sciences – Infection and Microbiology	21	8	38.1%	6	2
Health Sciences – Molecular Medicine	42	11	26.2%	10	1
Health Sciences – Neurosciences	22	10	45.5%	9	1
Health Sciences – Oncology and Biopathology of Organs and Systems	16	10	62.5%	10	0
Sport Studies	13	6	46.2%	2	4
Agricultural and Forest Sciences	60	7	11.7%	5	2
Materials Science and Engineering	59	10	16.9%	5	5
Energy	17	4	23.5%	1	3
Civil and Mine Engineering	47	13	27.7%	11	2
Electrical Engineering – Electronics, microelectronics, electrical systems and energy	22	5	22.7%	3	2
Electrical Engineering – Communication networks and systems, signal processing	15	1	6.7%	1	0
Electrical Engineering – Robotic, intelligent and information systems	18	5	27.8%	5	0
Computer Engineering	55	11	20.0%	8	3
Mechanical Engineering	55	10	18.2%	6	4
Chemical Engineering	35	20	57.1%	15	5
Computer Processing of Portuguese language	6	1	16.7%	0	1
Transports	7	2	28.6%	1	1
Anthropology	9	3	33.3%	1	2
Architecture and Urban Planning	9	0	0.0%	0	0
Communication Sciences	12	2	16.7%	2	0
Education Sciences	22	5	22.7%	5	0
Law	4	0	0.0%	0	0
Political Sciences	10	0	0.0%	0	0
Demography	3	2	66.7%	1	1

Area	Portugal (1)	U.Porto (2)	% (2)/(1)	U.Porto Proponent	U.Porto Participant
Economics and Management	27	4	14.8%	3	1
African Studies	10	1	10.0%	1	0
Art Studies	9	1	11.1%	1	0
Literature Studies	4	1	25.0%	1	0
Philosophy	10	1	10.0%	1	0
Geography	5	0	0.0%	0	0
Cultural Heritage	17	1	5.9%	1	0
History of Science and Technology	7	0	0.0%	0	0
History and Archaeology	26	2	7.7%	2	0
Linguistics	5	0	0.0%	0	0
Higher Education and Science Policies	6	3	50.0%	0	3
Psychology	20	4	20.0%	4	0
Sociology	24	4	16.7%	4	0
Total	1 309	294	22.5%	221	73

Source: FCT - Confirmed projects databases:
 All Scientific Domains – 2004
 Specific Programs – 2003
 Specific Programs – 2002
 All Scientific Domains – 2002
 In <http://www.fct.mctes.pt/pt/apoios/projectos/bd/>