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Funding Opportunities for young researchers

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Overview of the Spanish S&T System

- The Spanish political system is **highly decentralised with 17 political entities**. Regional governments have been very active in S&T policies in the last years. Most of them have their own regional R&D plans resembling the national one.
- In Spain the central state has exclusive powers on the general framework for R&D policies. But the regions (autonomous communities) can develop and fund their own S&T policies, fund research projects, scientific infrastructure and other activities. As a result, there is a certain **degree of overlap** because this real high degree of decentralisation has not been accompanied by the same degree of co-ordination.
- Probably one of the most important influencing factors during the last two decades has been the **emergence of regional research policies**. Approaches vary, but there are typically 2 main orientations: (1) academic, in which most policies are geared towards academic research and (2) emphasis on applied research and technological innovation processes in firms.
- Spain has **no Research Council which acts as a research-funding agency**. The MICINN provides funds for public research directly, mainly through **competitive calls** –National R&D Plan- in which proposals are evaluated by the National Evaluation and Foresight Agency. Additionally, the Centre for technological and industrial development (CDTI) is responsible for industrial technological research.

Overview of the Spanish S&T System

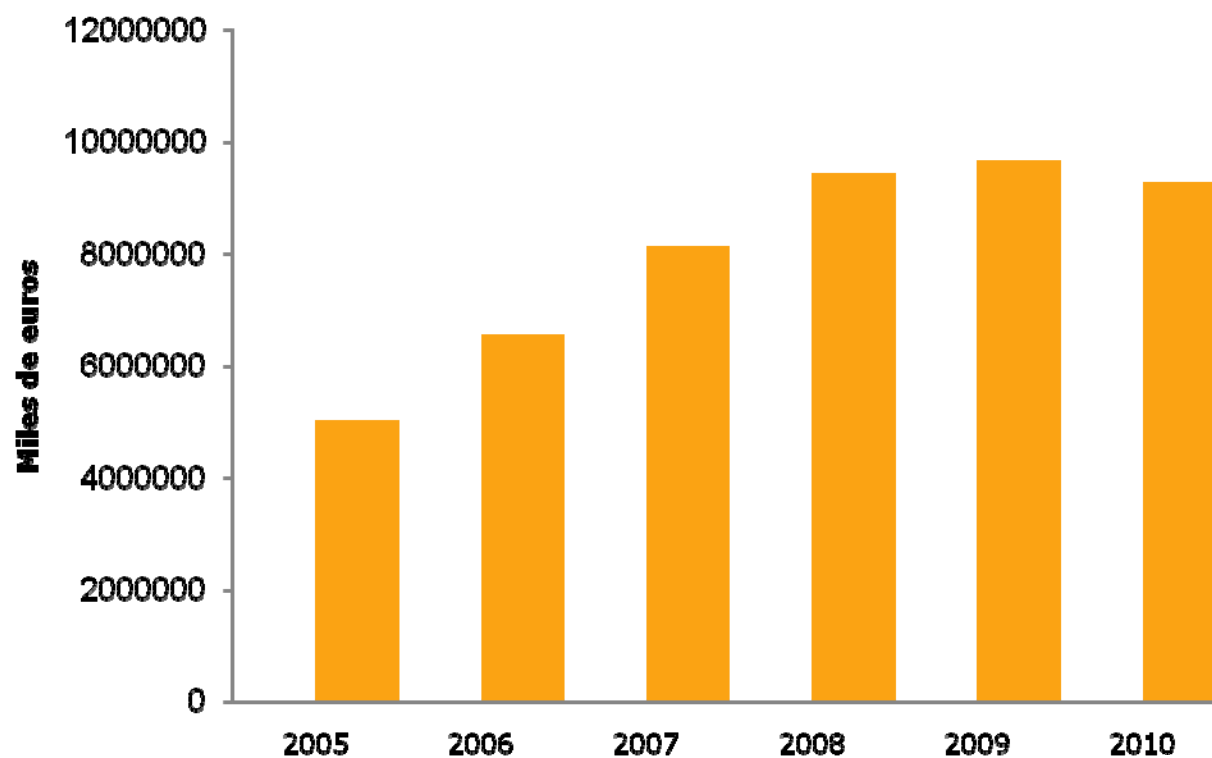
- Spain has a formalised framework for S&T policy design, defined by law. The **Science Act** (law 13/1986) establishes that a **National Research Plan** must be elaborated every four years at the initiative of the government. At the present the VI National R&D Plan (2008-2011) represents the basic instrument for funding research at national level.
- **Universities** are very important actors in the Spanish research landscape performing the largest part of Public Sector research activities funded thru the National Research Plan. They report to the regional authorities from which they receive their funding but they are rather autonomous organisations and each of them has their own statutes.
- Non-university research is performed by **public research centres** -6- under the umbrella of the MICINN. The largest public research institution is the CSIC, an umbrella organisation comprising more than one hundred institutes in all scientific fields.
- Recently the Spanish Science and Technology capabilities have experienced a strong dynamism. R&D expenditures as % of GDP; human resources in S&T, and other indicators show this trend.

Overview of the Spanish S&T System: Main Indicators

Overview of the Spanish S&T System: Main Indicators

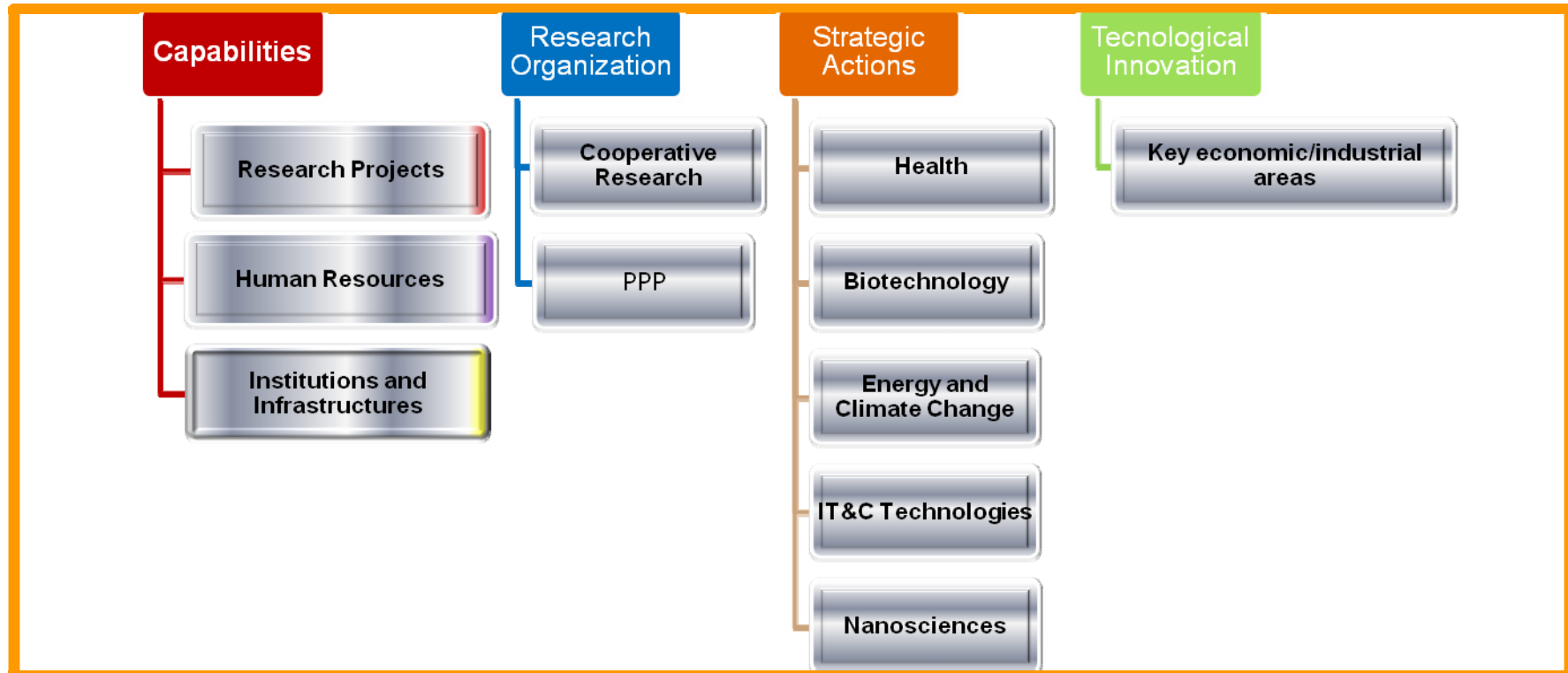
Overview of the Spanish S&T System: Main Indicators

Central government budget R&D

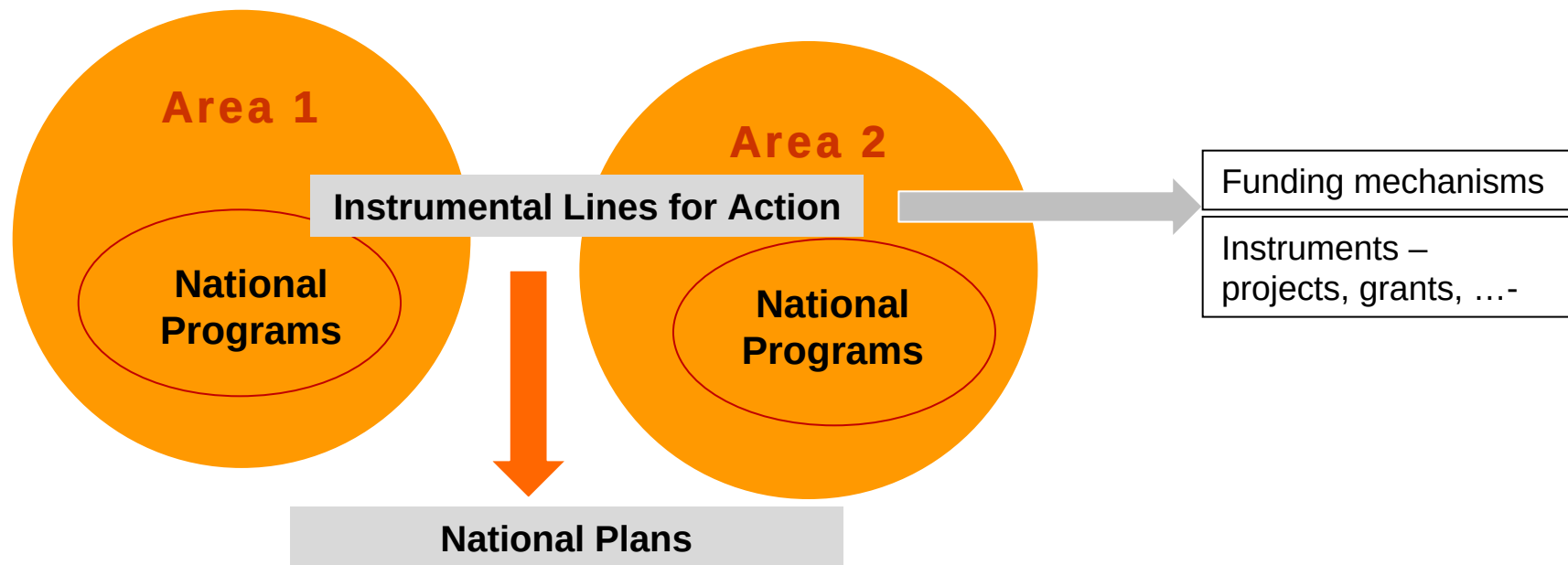


VI National R&D Plan (2008-2011): Conceptual Design

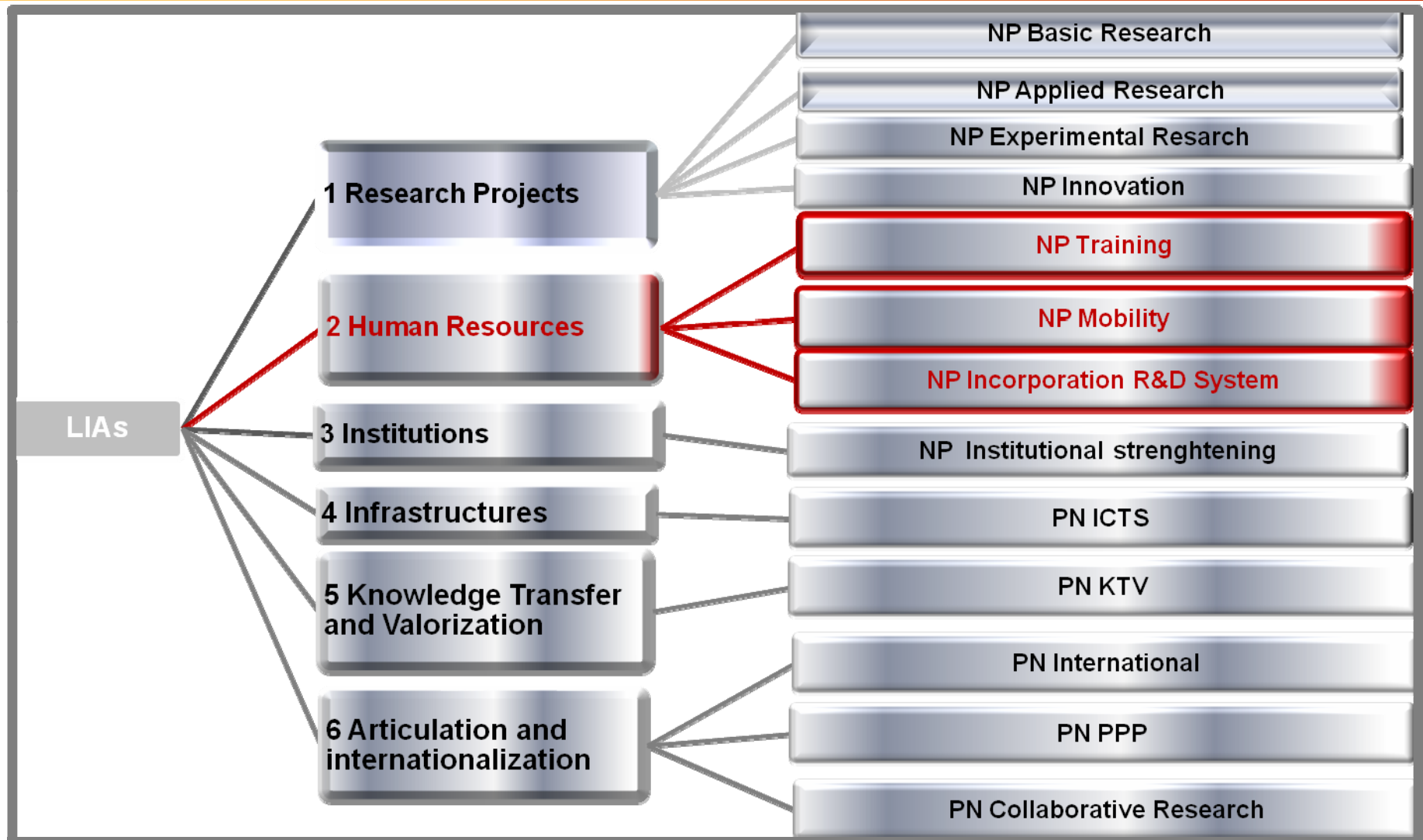
The VI National R&D Plan introduces a new conceptual approach departing from the traditional distribution of National Programs based on disciplinary boundaries. It is organized in four basic building blocks: (1) the building of R&D capabilities –knowledge, skills and infrastructures; (2) the increasing role of cooperative research and public-private partnerships; (3) areas of strategic concern and (4) technological innovations.



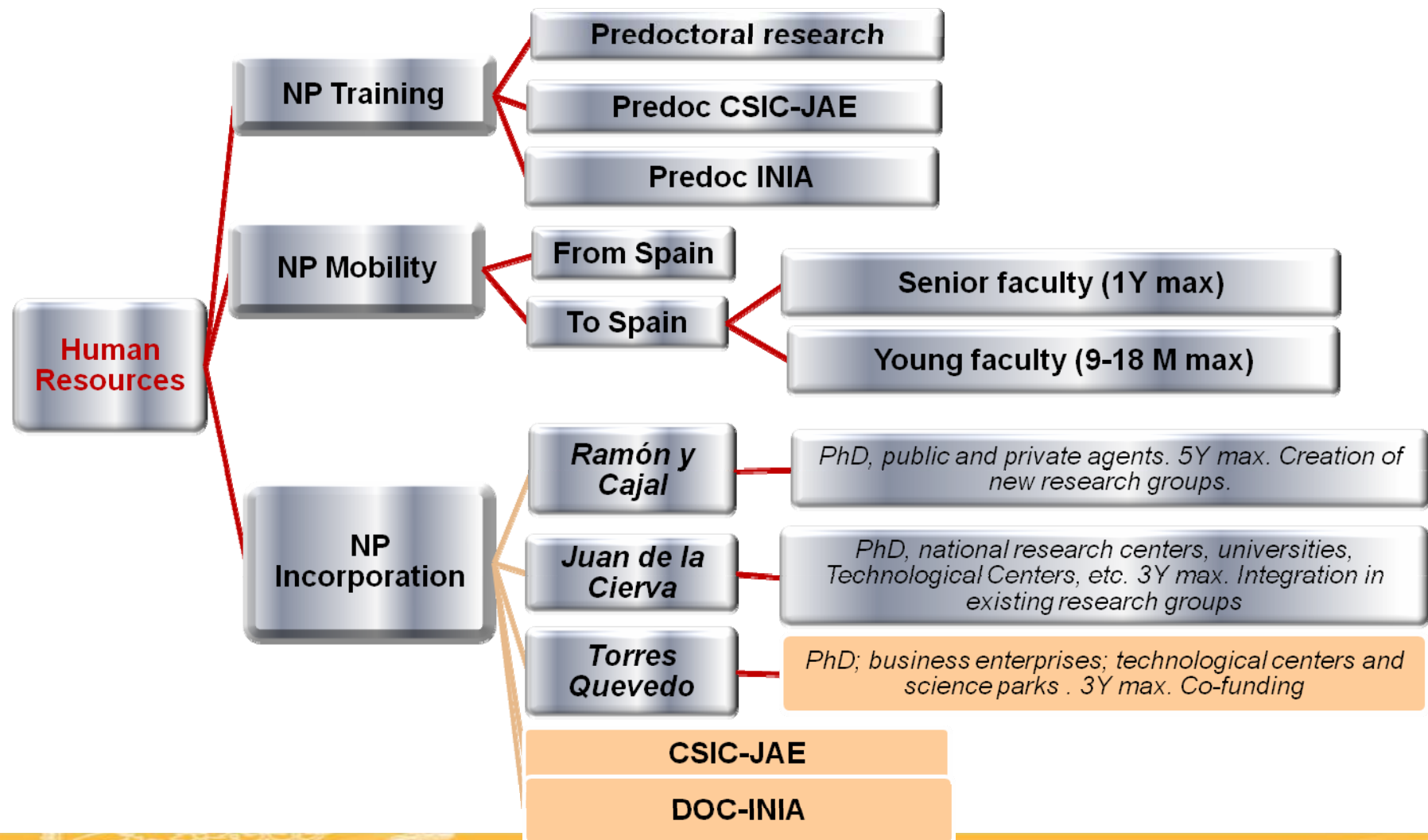
VI National R&D Plan (2008-2011): Management Approach



VI National R&D Plan (2008-2011): Management Approach



Funding Opportunities for young researchers: National R&D Plan (2008-2011)

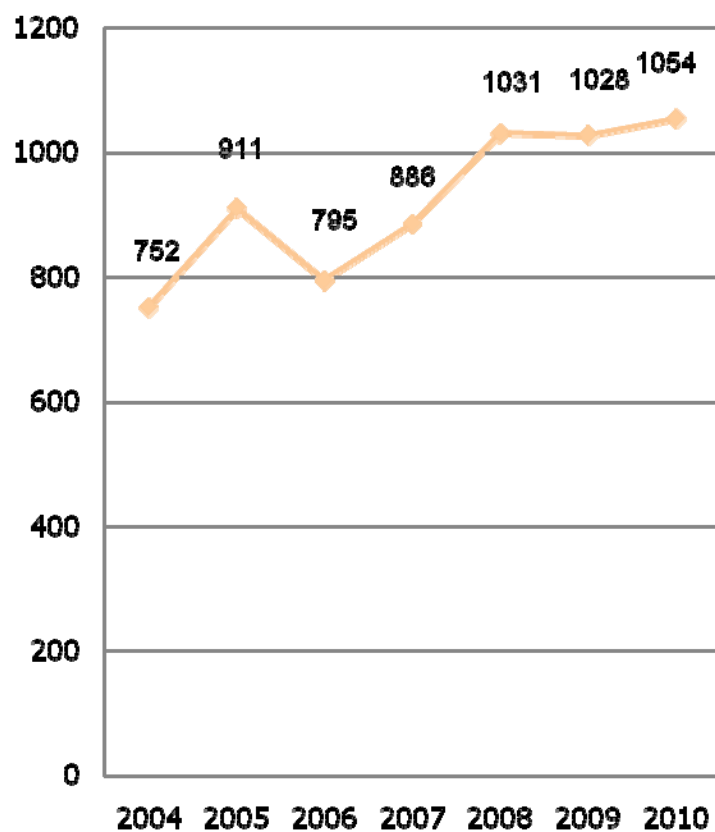


Funding Opportunities for young researchers: National R&D Plan 2010

National Programs		
Human Resources	Nº	€
Predoctoral -Formación de Personal Investigador -	1.054	71.834.485 €
Juan de la Cierva	350	35.343.000 €
Ramón y Cajal	231	44.462.880 €
Torres Quevedo	925	49.607.593 €
Technicians	298	15.841.980 €
R&D Projects	Nº	€
Proyectos de Investigación Fundamental no orientada	3378	370.685.373 €
Complementary Actions	770	8.719.321 €
Collaborative Research -Proyectos CONSOLIDER-	7	25.000.000 €
Infraestructura Científica*		
TOTAL	7.013	621.494.632 €

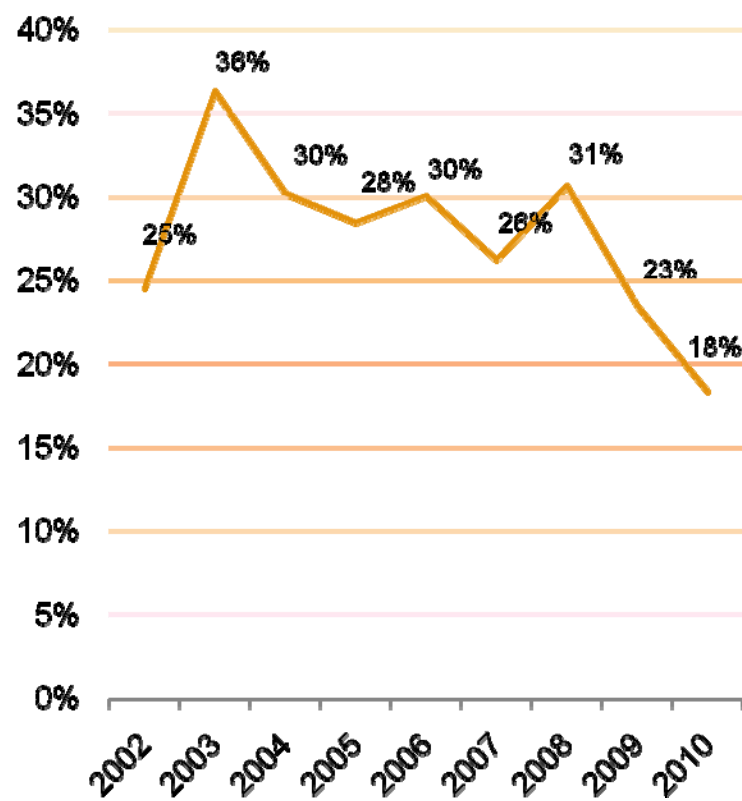
Funding Opportunities for young researchers: 2004-2010

FPI: Number of Grants



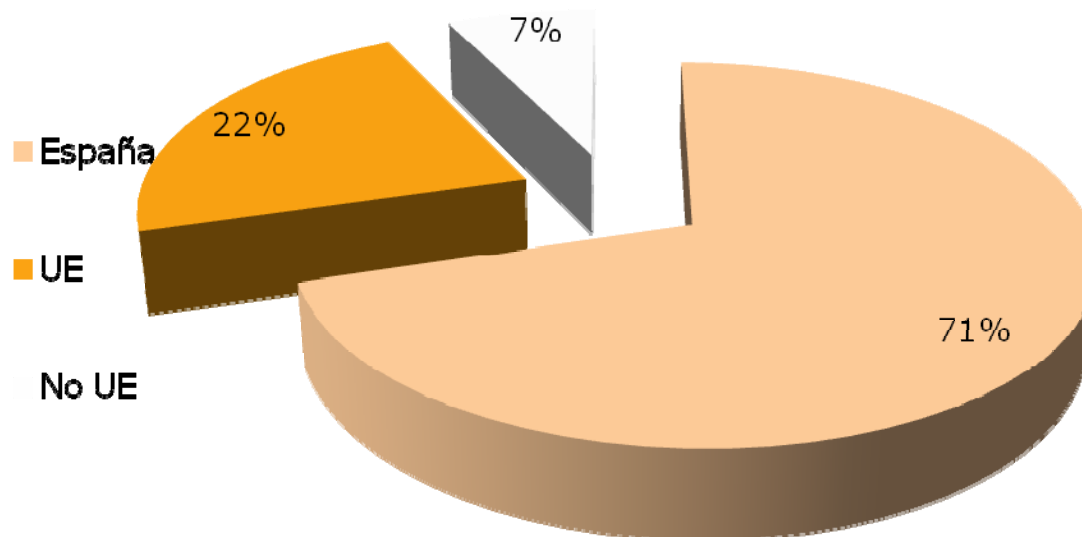
FPI 2010: Resolución definitiva

FPI. Success Rate



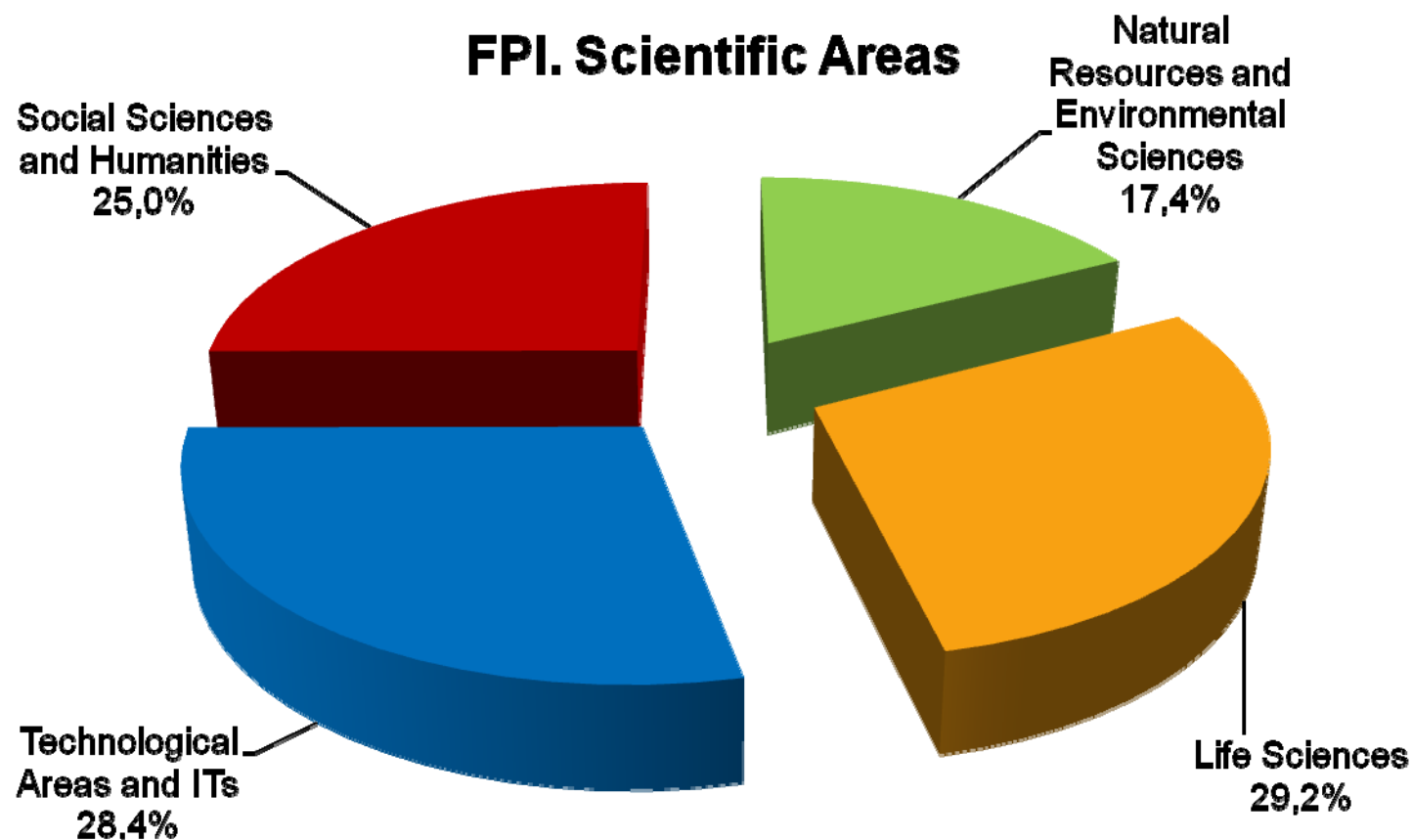
Funding Opportunities for young researchers: 2004-2010

FPI: citizenship of grantees



FPI 2010: Resolución definitiva

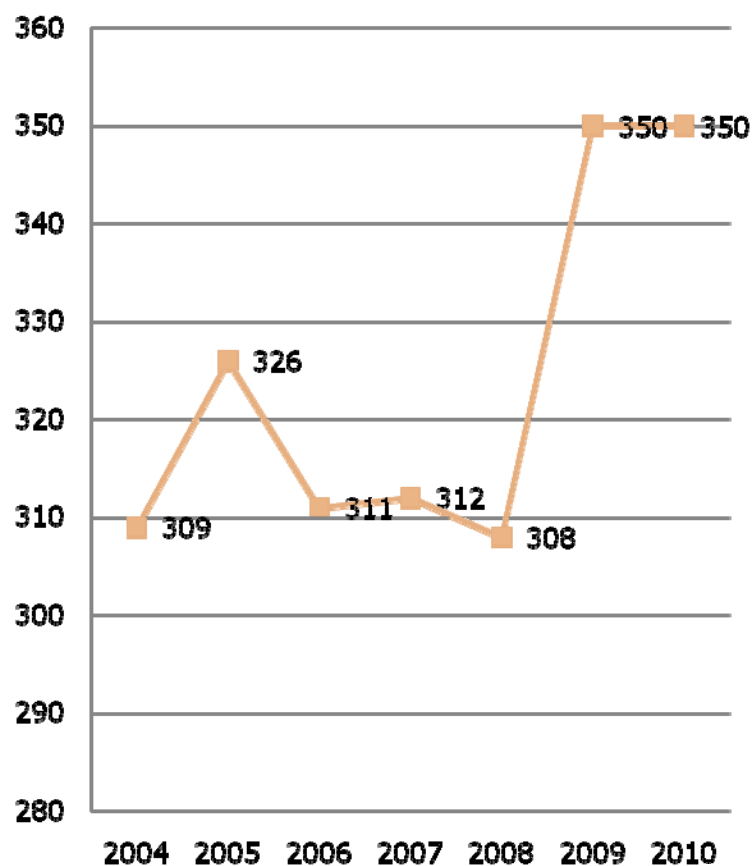
Funding Opportunities for young researchers: National R&D Plan 2010



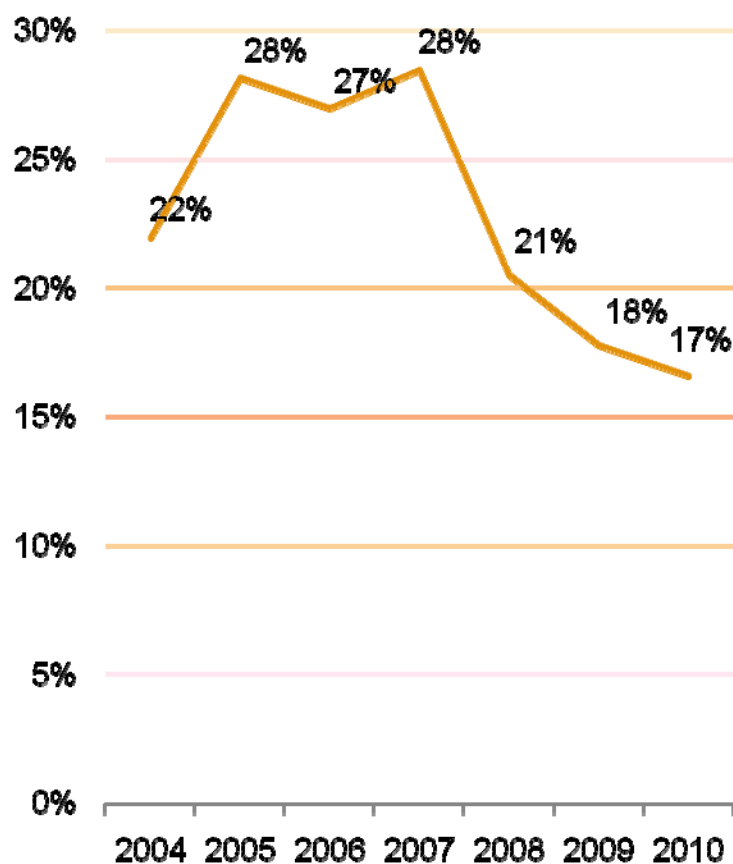
FPI 2010: Resolución definitiva

Funding Opportunities for young researchers: National R&D Plan 2010

Juan de la Cierva: Grants

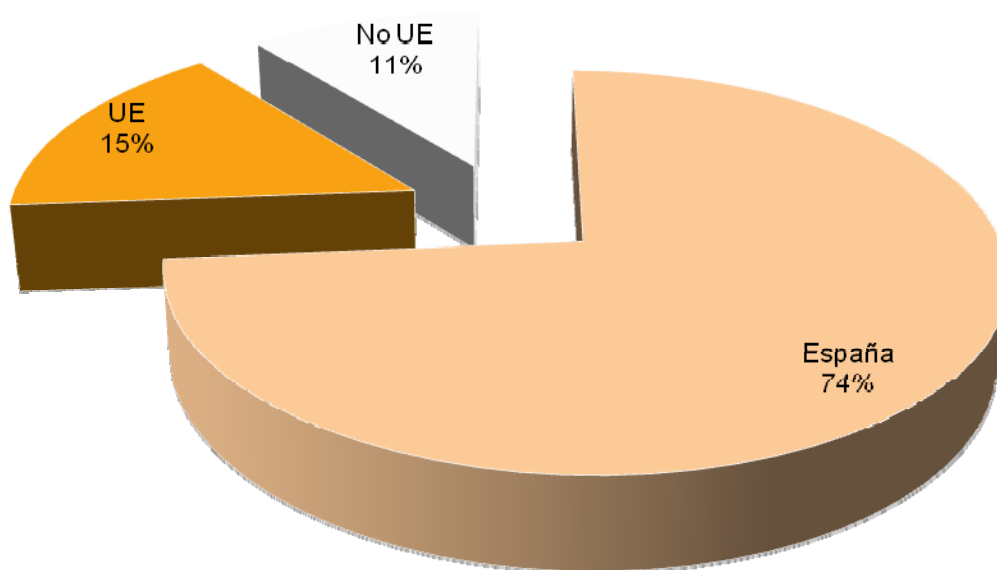


Juan de la Cierva. Success Rate

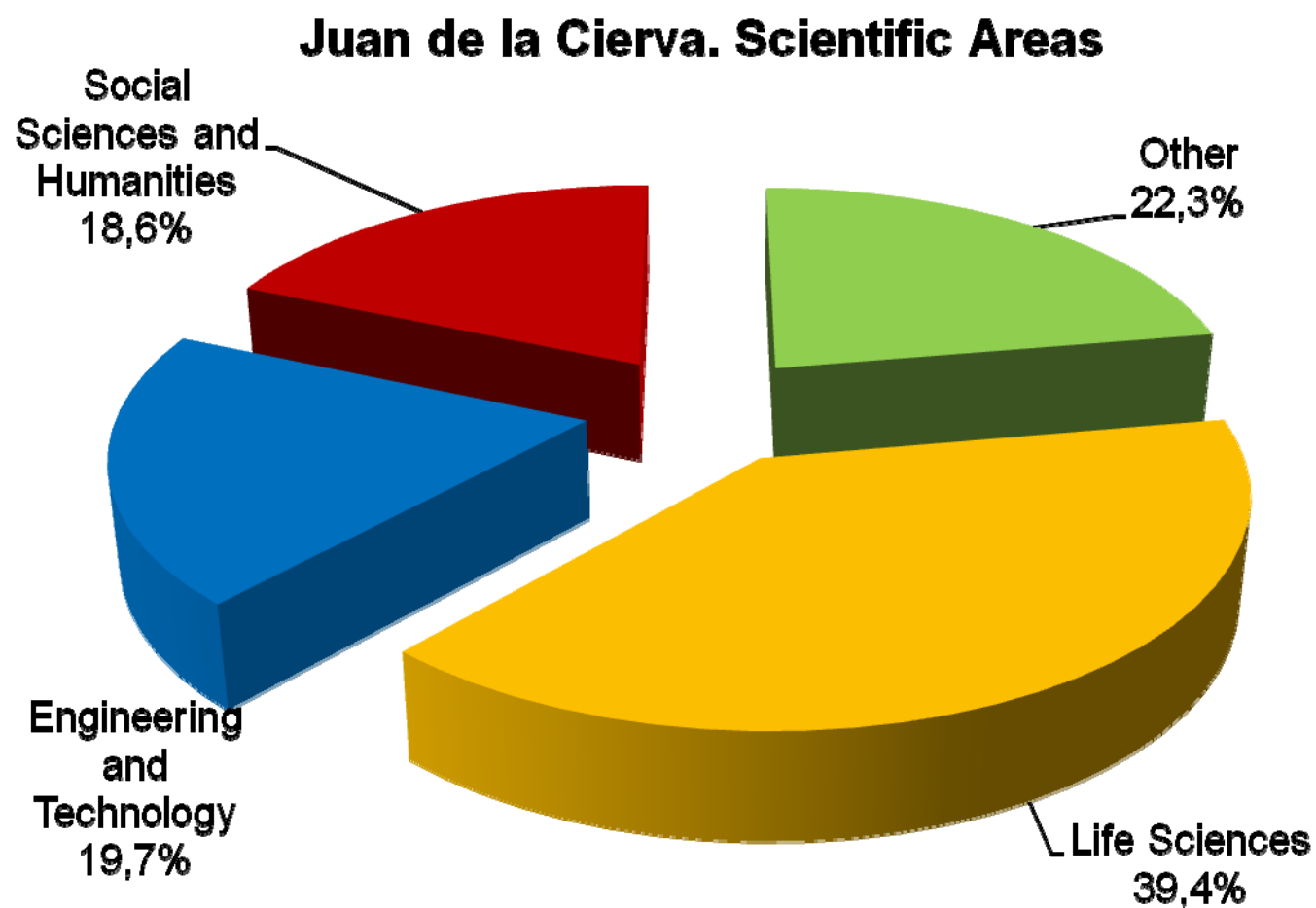


Funding Opportunities for young researchers: National R&D Plan 2010

Citizenship of grantees

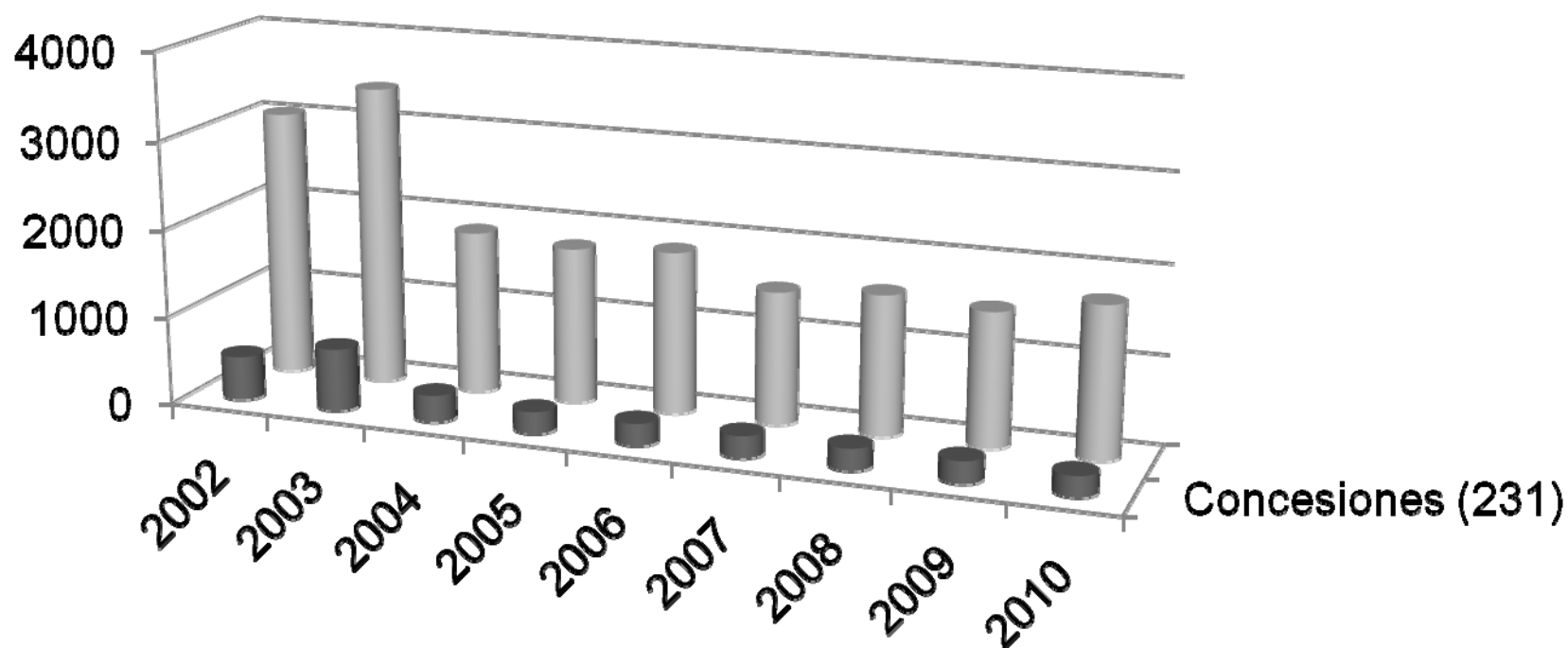


Funding Opportunities for young researchers: National R&D Plan 2010



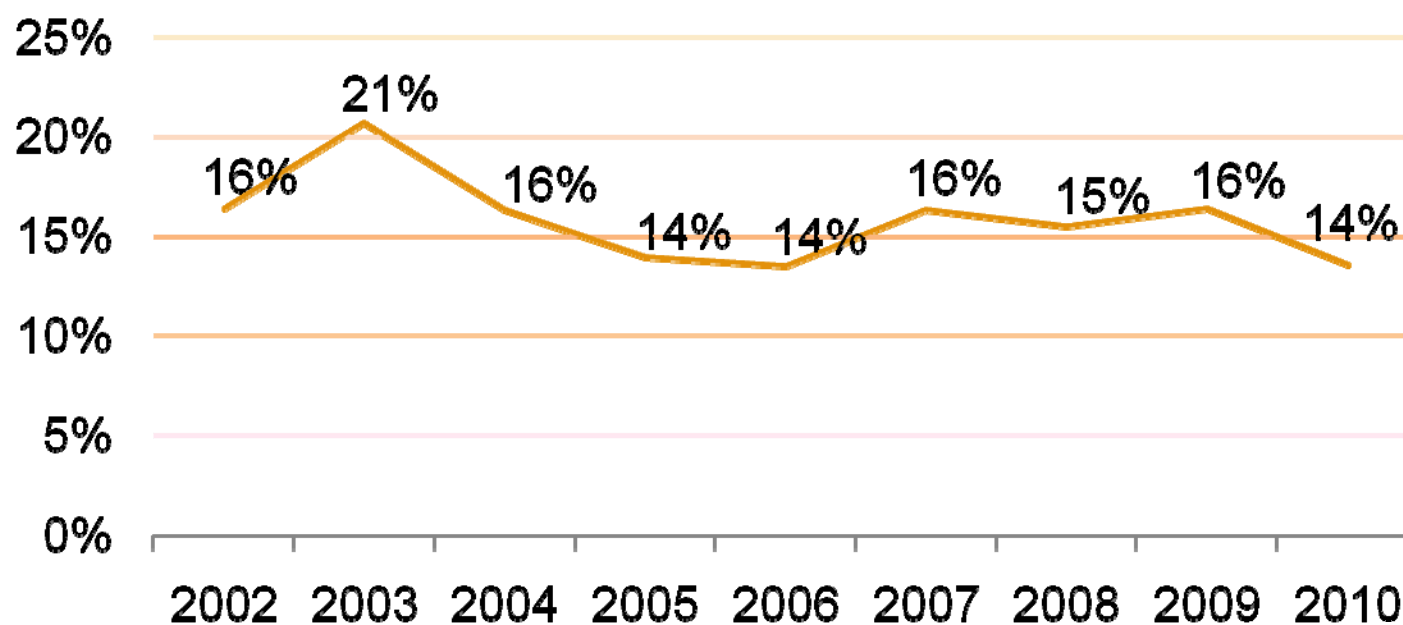
Funding Opportunities for young researchers: National R&D Plan 2010

Ramon y Cajal. Applications and Grants

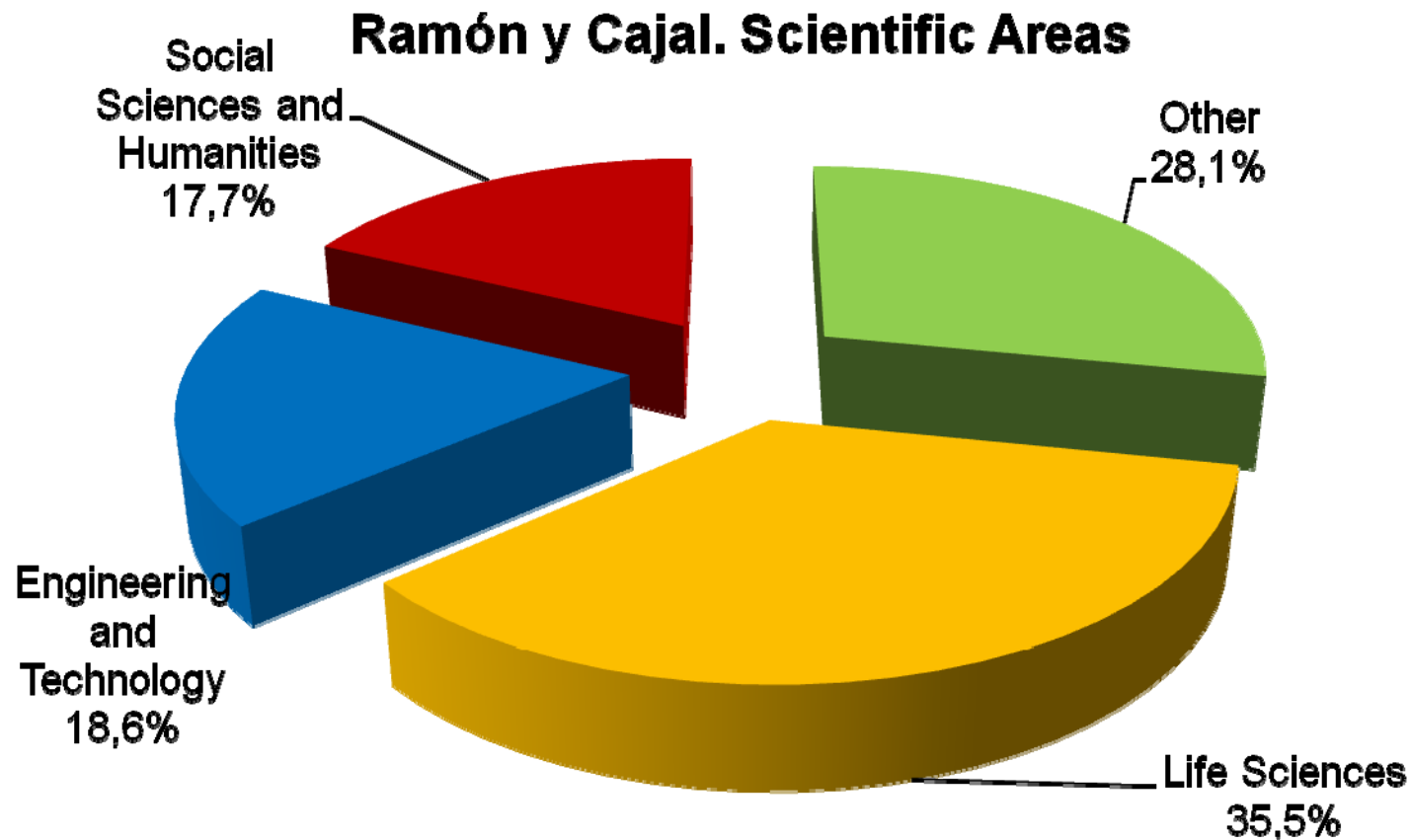


Funding Opportunities for young researchers: National R&D Plan 2010

Ramón y Cajal. Success Rate

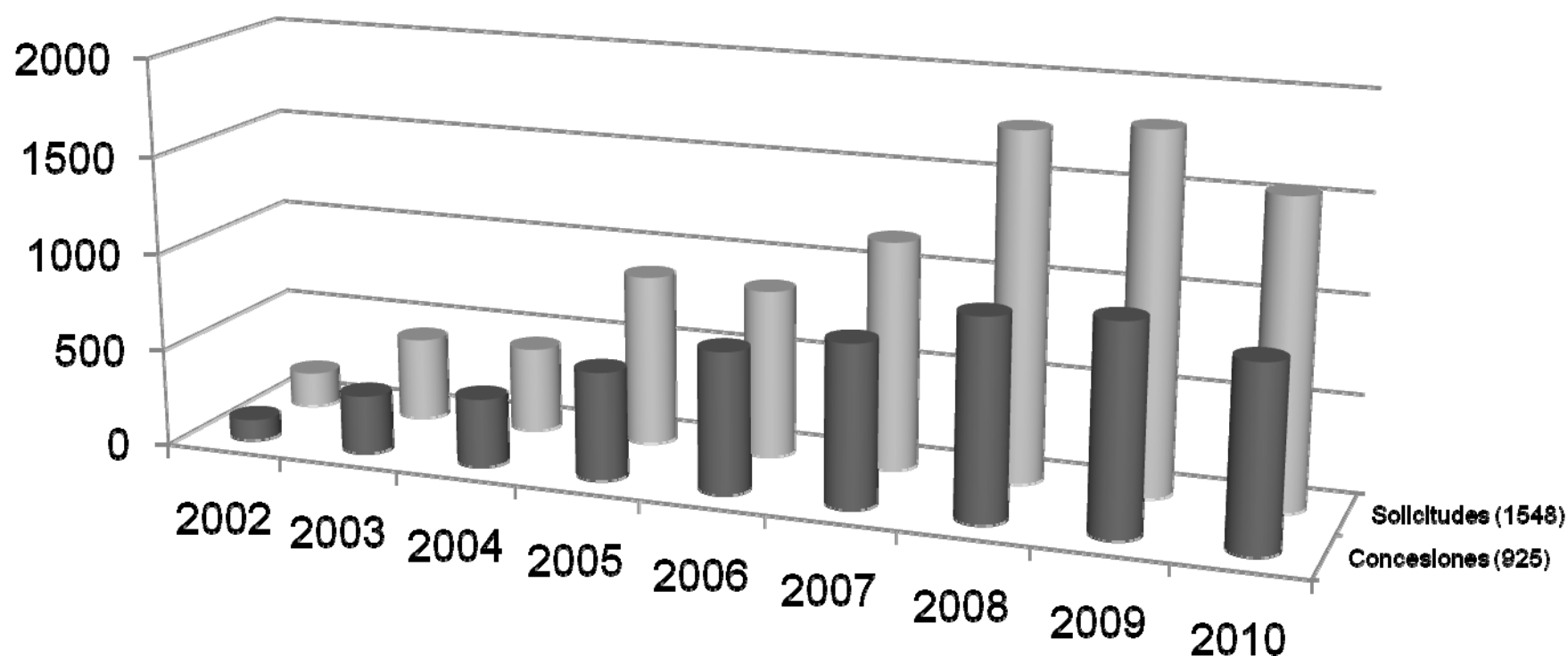


Funding Opportunities for young researchers: National R&D Plan 2010

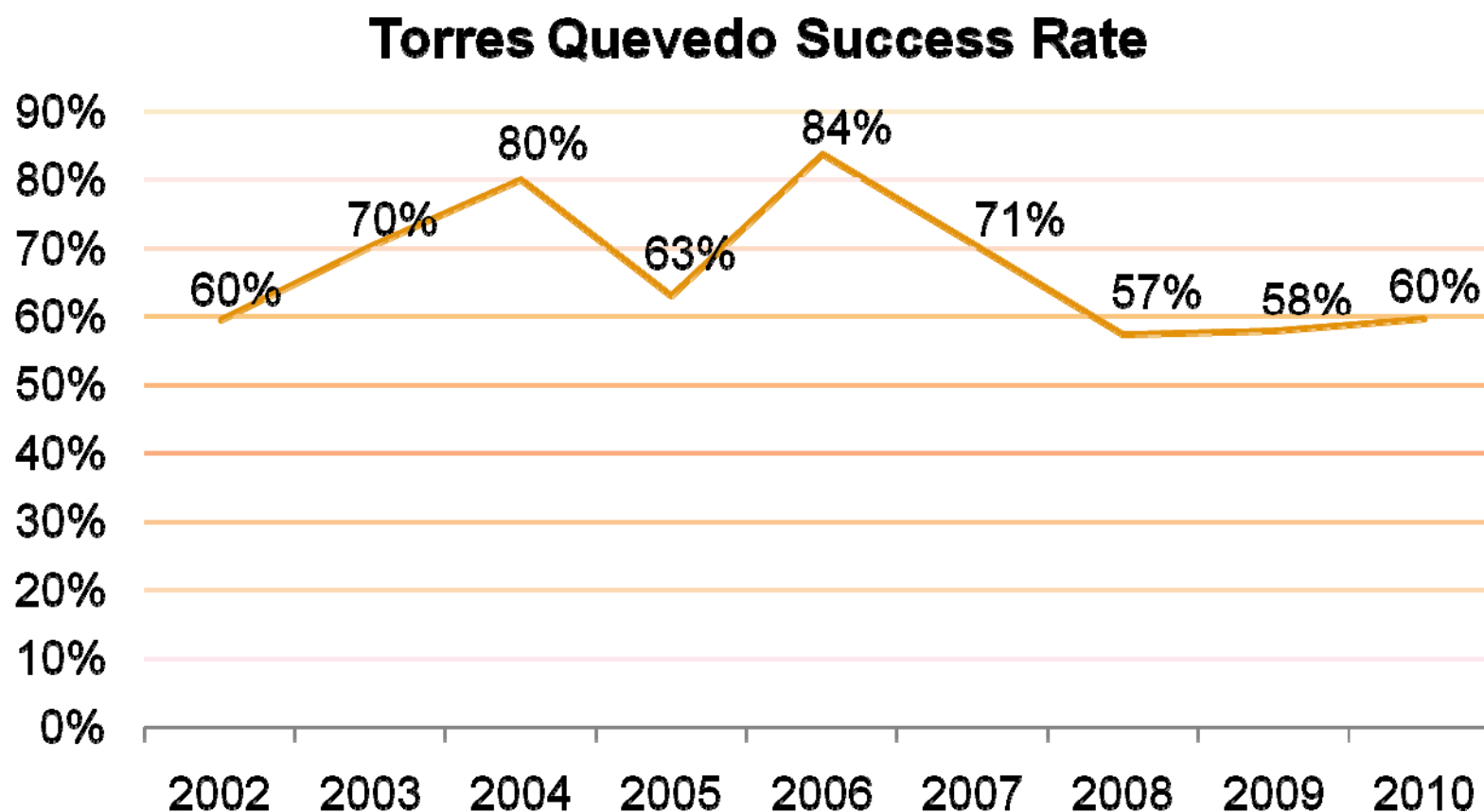


Funding Opportunities for young researchers: National R&D Plan 2010

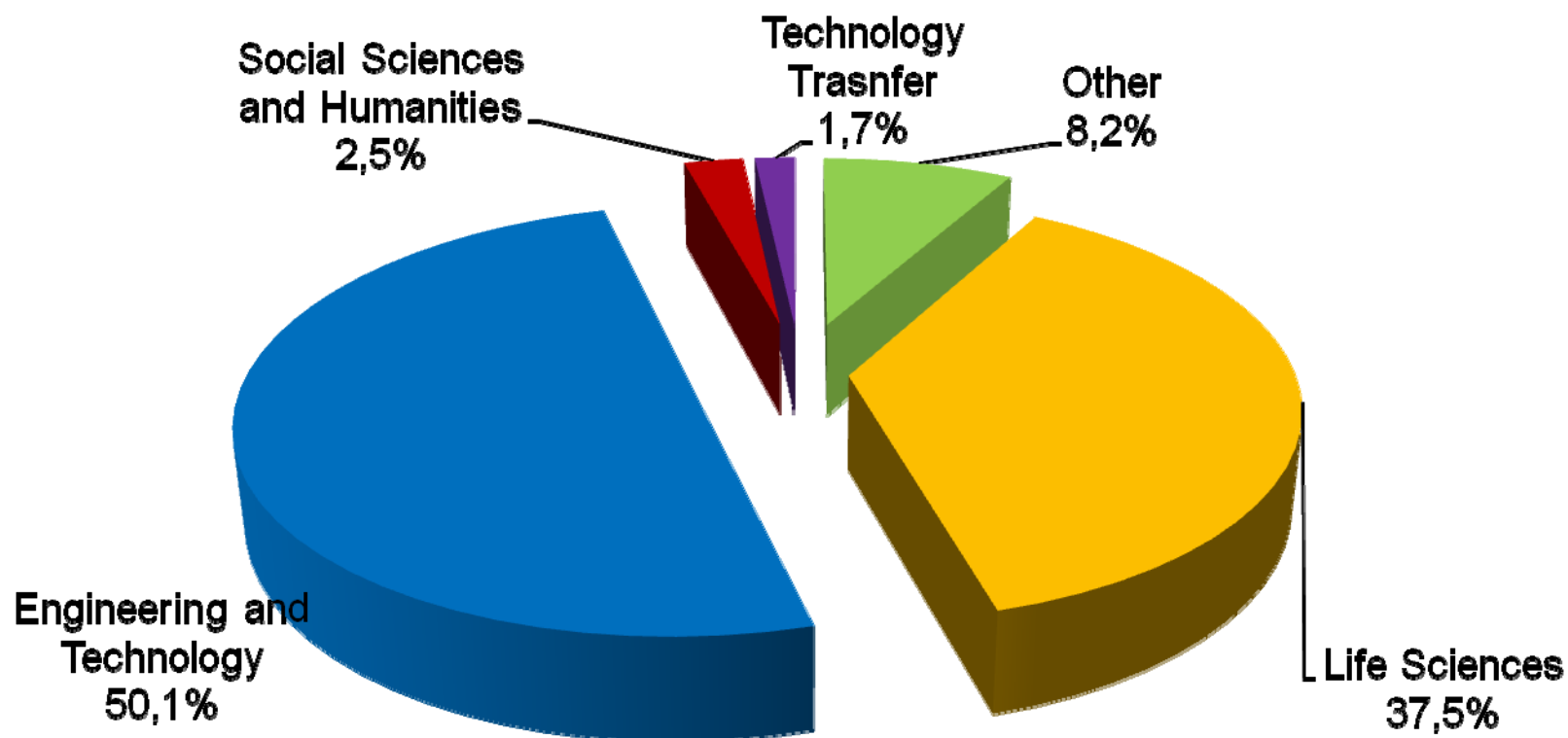
Torres Quevedo. Applications and Grants



Funding Opportunities for young researchers: National R&D Plan 2010



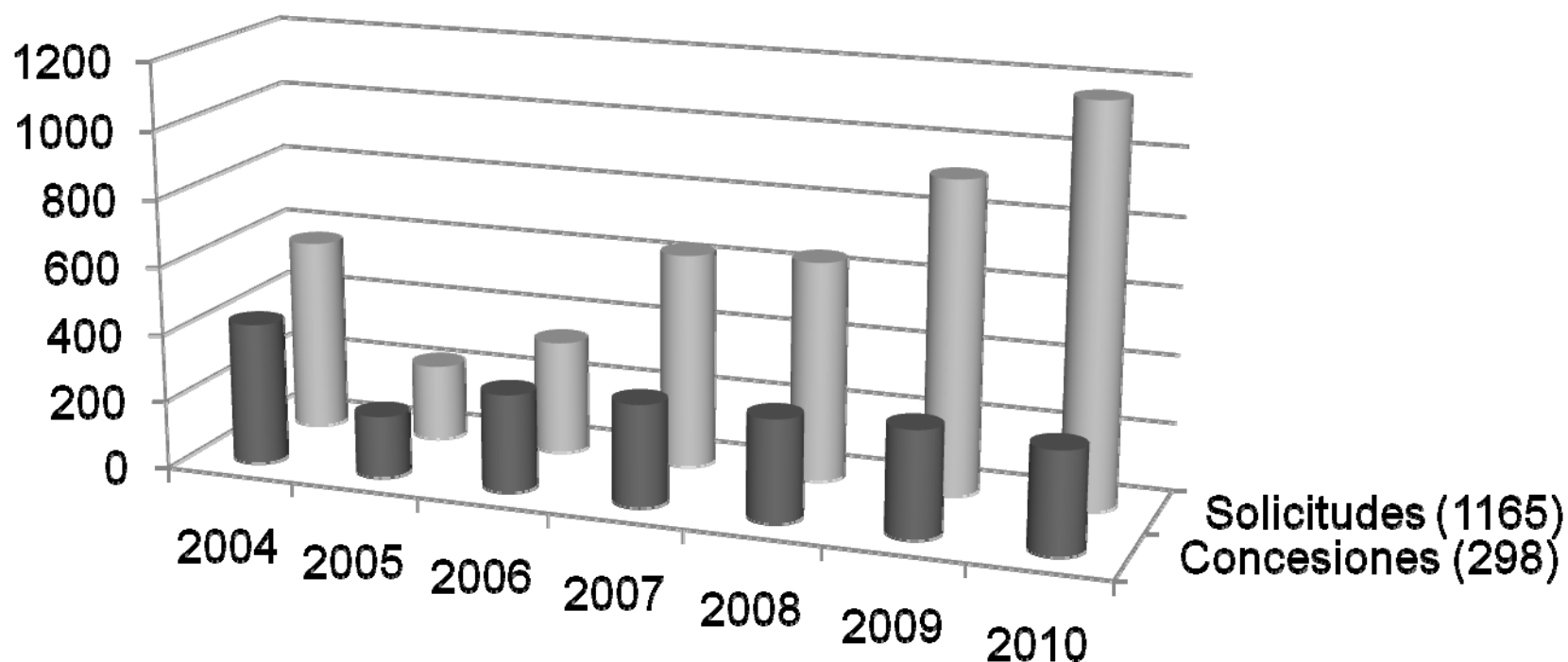
Funding Opportunities for young researchers: National R&D Plan 2010



Torres Quevedo. Scientific Areas

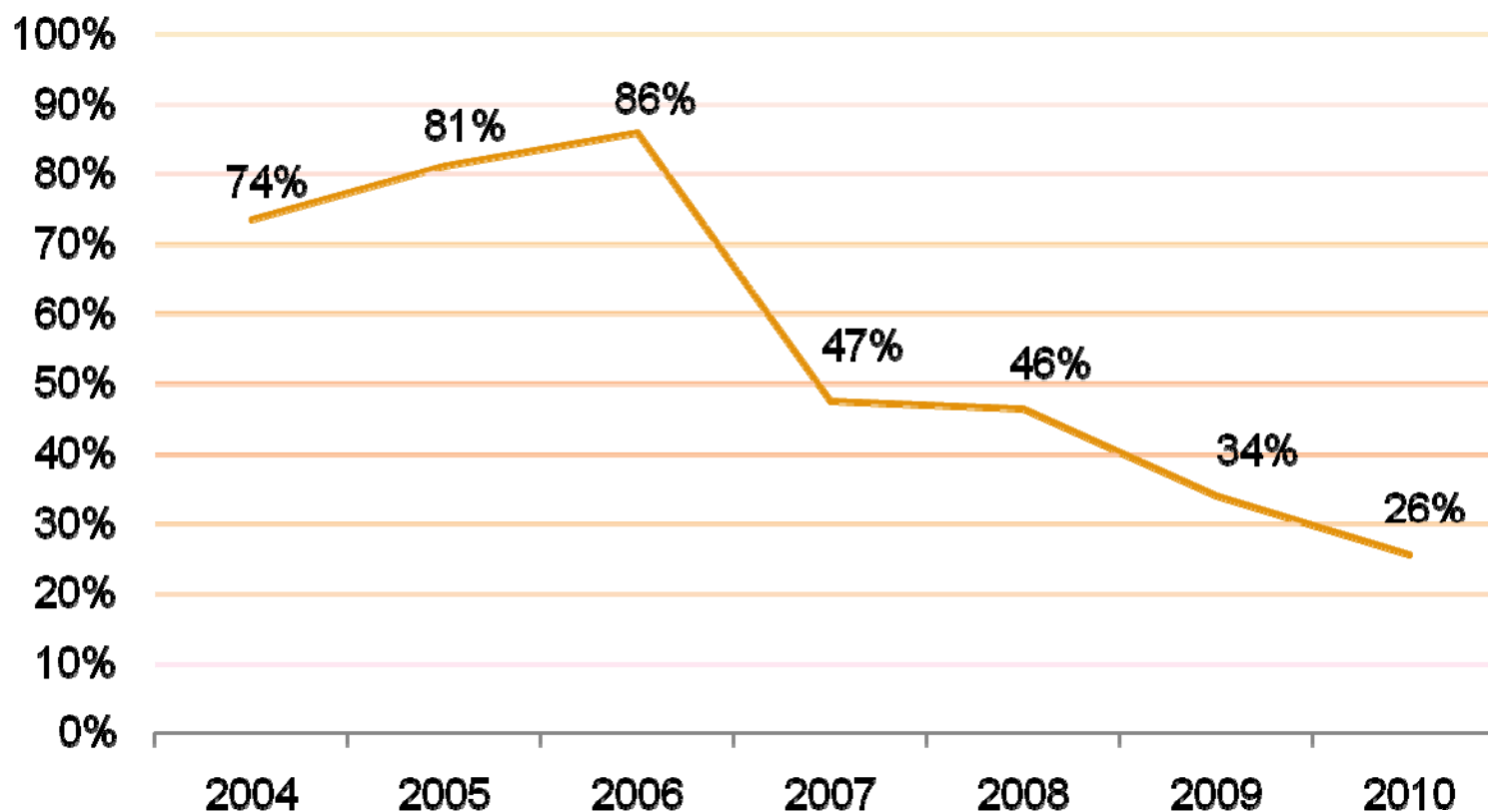
Funding Opportunities for young researchers: National R&D Plan 2010

Technicians. Applications and Grants

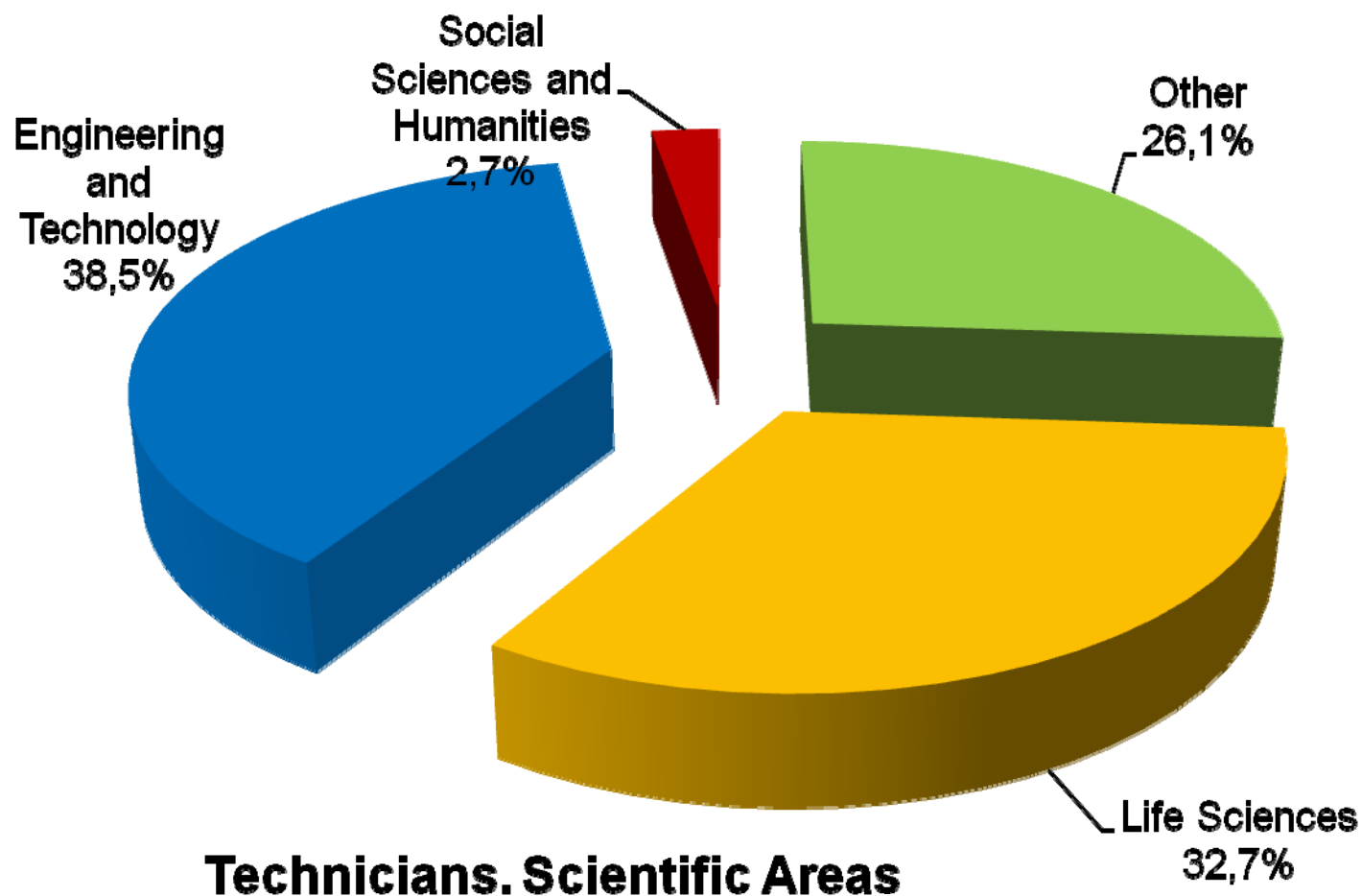


Funding Opportunities for young researchers: National R&D Plan 2010

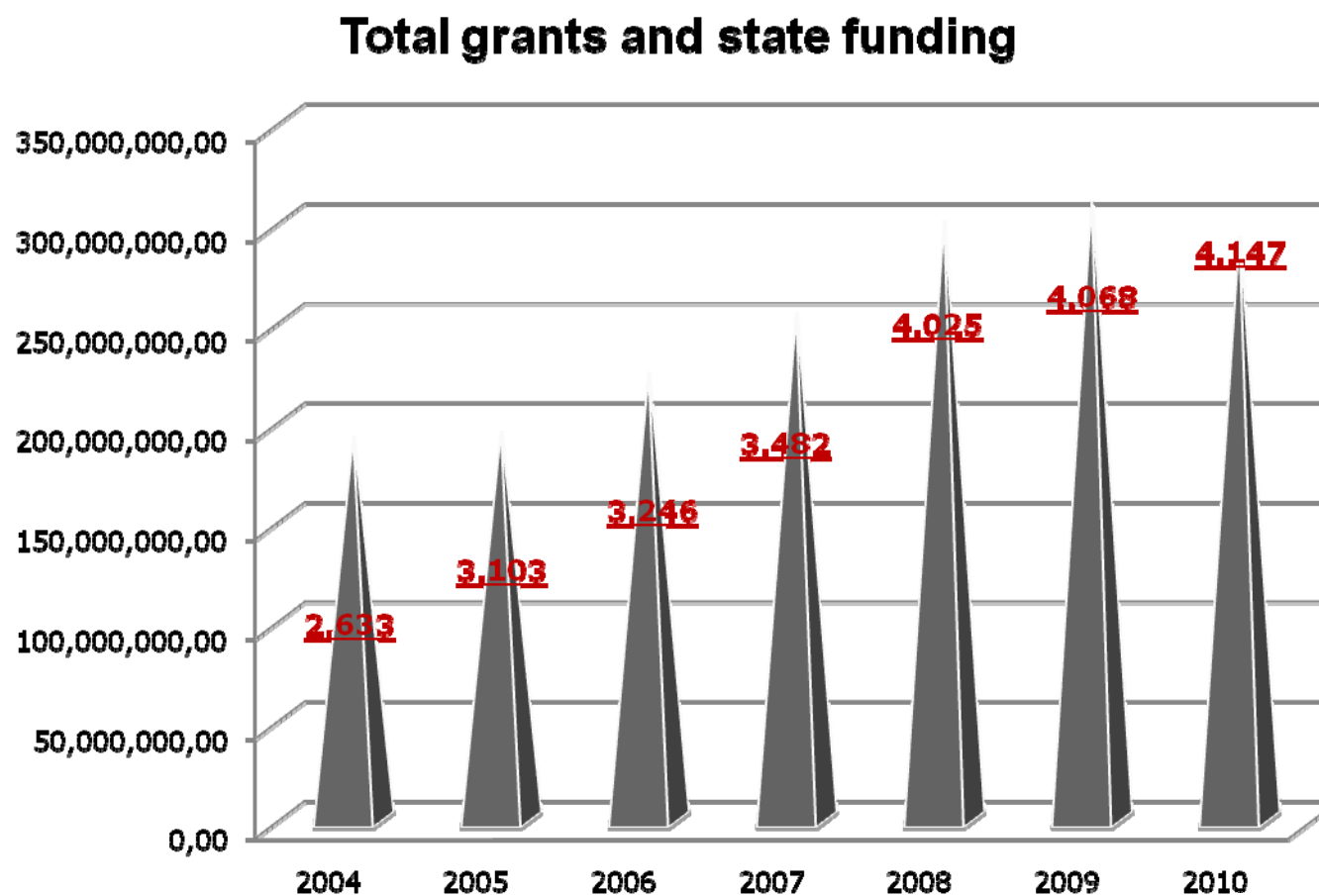
Technicians Success Rate



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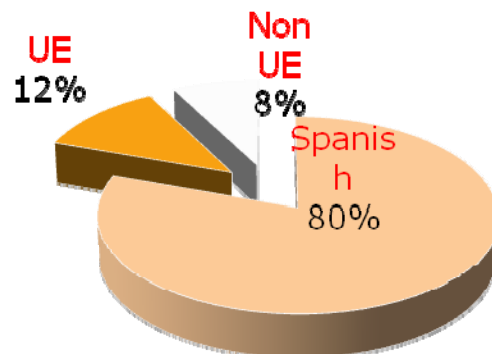


Funding Opportunities for young researchers: 2004-2010

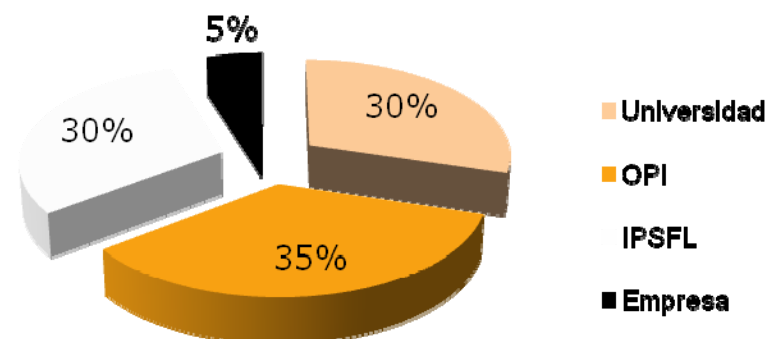


Funding Opportunities for young researchers: 2004-2010

Citizenship of grantees

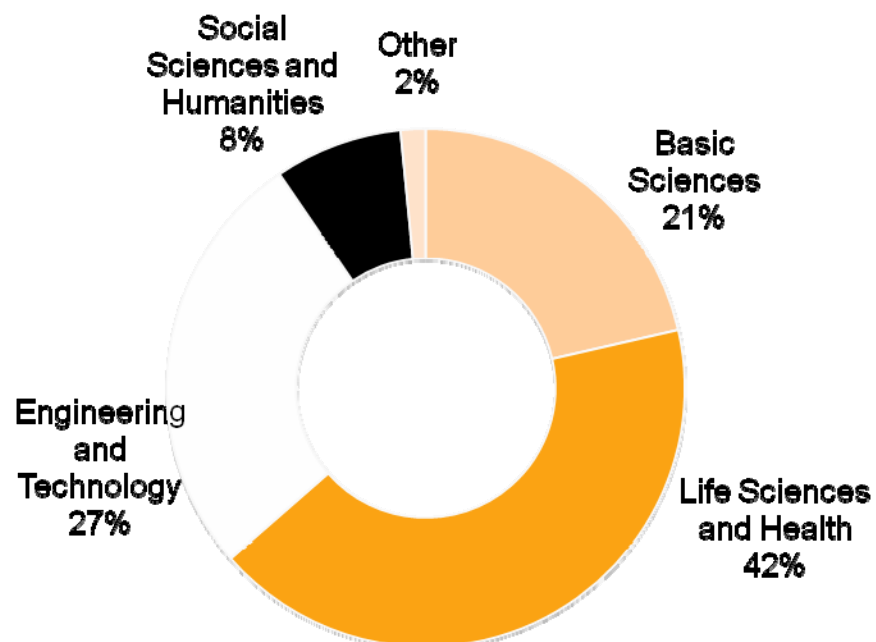


Recipients by institutional category



Funding Opportunities for young researchers: 2004-2010

Scientific Areas



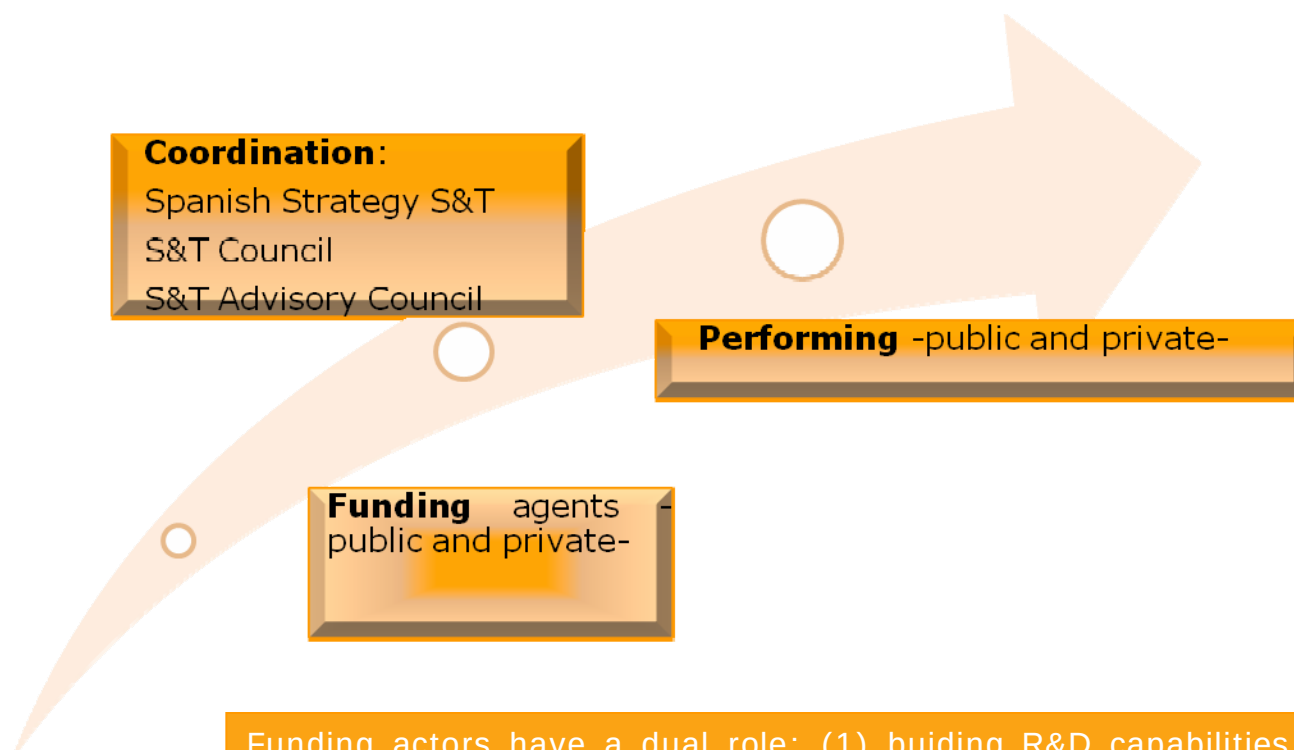
Funding Opportunities for young researchers: 2004-2010

Programa	Años 2004-2010		Programa	Años 2004-2010	
	Nº ayudas	Financiación		Nº ayudas	Financiación
Formación Personal Investigador	6.457	462.540.390,00	Ramón y Cajal	1.734	320.576.560,00
Formación Personal Investigador-IEO	30	492.460,98	Juan de la Cierva	2.266	221.535.860,00
Formación Personal Investigador-CIEMAT	183	3.380.531,59	Torres Quevedo	6.167	298.249.603,00
Formación Personal Investigador-IAC	47	1.393.958,01	Sara Borrell-ISCIII	248	19.429.963,60
Formación Personal Investigador-INIA	321	24.923.245,00	Río Hortega-ISCIII	352	17.737.637,80
Formación en Investigación en Salud-ISCIII	388	17.798.356,00	Miguel Servet-ISCIII	245	30.606.294,90
JAEPRE-CSIC	1.065	63.900.000,00	SALK-ISCIII	14	837.963,52
Total	8.491	574.428.941,58	Contratación Doctores-INIA	286	35.220.254,25
			JAEDOC-CSIC	691	57.923.314,00
			Total	12.003	1.002.117.451,07

Funding Opportunities for young researchers: 2004-2010

Programa	Años 2004-2010	
	Nº ayudas	Financiación
I3PDOC-CSIC	490	37.194.820,00
I3PTEC+JAETEC-CSIC	1.264	61.062.157,00
I3PPRE-CSIC	565	32.004.000,00
I3 Estabilización Investigadores-ISCIII	181	5.700.000,00
I3 Estabilización Técnicos-ISCIII	66	880.000,00
I3 Intensificación-ISCIII	601	17.820.000,00
JAETRANSFER-CSIC	16	1.387.342,00
Formación en Gestión de la Investigación-ISCIII	44	1.322.880,00
Bolsas de Ampliación de Estudios-ISCIII	124	2.502.060,00
Personal Técnico de Apoyo	2.090	107.247.971,88
Tecnólogos-INIA	27	1.015.488,00
Técnicos Apoyo-ISCIII	367	11.146.728,00
Fecyt	15	15.000.000,00
	5.850	294.283.446,88
TOTAL	26.344	1.870.829.840

A New Science Act for expanding opportunities



Funding actors have a dual role: (1) building R&D capabilities and (2) strengthening cooperation among performing agents.

R&D funding by the national state is supported by: (1) National R&D Plan and (2) State Strategy for Innovation.

National state funding, evaluation and control will be allocated to the National Research Agency + Center for Industrial and Technological Development.

A New Science Act for expanding opportunities

S&T System: Agents

1. Coordination

1.1. Regional

1.2. Internacional

National State and Regional Governments + CCAA

Tools

Estrategia Española de Ciencia y Tecnología

The EECYT is at the core of science and technology policies in Spain, fostering cooperation and coordination thru the establishment of shared goals and commitments in those strategic areas and priorities.

Governance

Consejo de Política Científica y Tecnológica

Shared responsibility in S&T policy beyond the National R&D Plan and the coordination –hypothetical- with the corresponding regional R&D Plans.

Consejo Asesor de Ciencia, Tecnología e Innovación

Assist the CPCYT in the process of coordination and elaboration of: the National R&D Plan, the Spanish Strategy for S&T and the State Strategy for Innovation.

A New Science Act for expanding opportunities

S&T System: Agents

2. Planning and Management of R&D funding (State)

2.1. Scientific and Technological RESEARCH

2.2. INNOVATION

Planning Tools

Plan Estatal de I+D+i

The National R&D Plan is the basic tool of the State to promote, fund and plan R&D activities in country as a whole and internationally.

Estrategia Estatal de Innovación

It aims at fostering environment conditions for innovation: (1) financial markets; (2) human resources; (3) public procurement; (3) internationalization; (4) territorial integration and (5) technology transfer.

Management

Agencia Estatal de la Investigación

After the approval of the New Science Act. Deadline 2012 for the management of the new National/State R&D Plan. It replace administrative management and functions conducted by the Ministry.

CDTI

Funding, evaluation and management of the State' innovation policies

A New Science Act for expanding opportunities

S&T System: Agents

3. Funding

3.1. State

3.2. Regional Governments

Resources

National Budget

....

Regional Budgets

Management

**State: Agencia Estatal
de la Investigación**

State: CDTI

**Some Regional
Agencies**

Accountability, transparency and international standards.

Debilidades: No queda claro el papel que le corresponde en relación a la gestión de la E2i.

A New Science Act for expanding opportunities

A new perspective for conducting a scientific career in Spain



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Thank you!



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