JPI Partner, EU Member State	Spain	ES
Total declared Water RDI Funding: 51[1] M€/yr		

MINECO implements government policy for research and innovation through the Secretariat of State for Research, Development and Innovation. MINECO is the main governmental funding body for research and innovation, owns and manages the "State Plan for Research, Development and Innovation" to promote high-quality scientific research, training and career development in science and technology, supports centres of excellence, research infrastructures, technology transfer, innovation and science dissemination. Two Directorate Generals are directly related to this JPI, covering the areas of Research and Innovation and one public Innovation Agency (CDTI).

With a total budget for RDI activities of 430 M€ in 2013, the mission of the Directorate General for Scientific and Technological Research is to coordinate and finance high-quality research in the full spectrum of scientific and technological disciplines and support researchers' training and research carriers, as well as research infrastructures. This Directorate General also promotes the internationalization of Spanish research through a number of bilateral and multilateral programmes.

Directorate General for Innovation and CDTI are responsible for the promotion of technology development and innovation in the private sector, public-private partnerships, technology transfer, and large national infrastructures.

Within the State Plan for Research, Development and Innovation water research is mainly funded through the following National Programmes:

- State Plan Promoting Excellence in Scientific and Technological Research
- State Plan on RDI Oriented Towards Societal Challenges, aligned with H2020 Societal Challenges
- State Plan Promoting RDI Business Leadership

There is not a specific programme for water RDI, but water issues are funded through both programmes. Other Programmes related to Innovation, applied research or International activities devote additional funds to water issues.

MINECO supports basic, strategic and applied research on Water Science and Technology through annual competitive bottom-up calls. These calls will be coordinated with the Cofunded EC Calls and with other Joint Calls of the Water JPI.

The National Plan has always represented the major opportunity for RTD funding at the National level, although in the last 20 years the research funding capacity of the regional governments has increased.

Regional governments within Spain have a significant capacity to fund research and innovation. Regional research funding programmes often selected and funded research and innovation proposals. In the last years, a number of these programmes have evolved to provide basal funding to outstanding research groups or institutes. Regional programmes on water are not known, and the funding capacity of these programmes is much smaller than that of the National Plan.

Ministry of Agriculture, Food and Environment (MAGRAMA) is responsible for water policy, plans and programmes devoted to water resources evaluation and planning, water quality, sustainable irrigation management, floods, and related issues in the context of the Water Framework Directive. Their capacity to fund research and innovation has been traditionally smaller than that of MINECO. The new Multiannual Financial Framework of the European Union (2014-2020) has increased their responsibilities in the innovation domain.

[1] It includes Water Funding on projects, infraestructures, training and mobility.

Table on major RDI Funding Institutions

Funder Name	Ministry	Programme	Water Programme name (if any)	Target: Research / Innovation	Bottom-up / Top-down	Annual RDI Water Funding (M€)
Ministry of Economy and Competitiveness	MINECO	State Plan for RDI: • Promoting Excellence in STR • RDI Oriented towards Societal Challenges	No			
	DG Research	- RDI projects:		Research	Both	16
		- Other (training, mobility, infrastructures, international cooperation):				12
	DG Innovation	- RDI projects:		Innovation	Both	10
INIA, National Institute for Agri-food Research	Ministry of Economy and Competitiveness	State Plan for RDI: - RDI projects: - Other (training, mobility, infrastructures):	No	Research /Innovation	Top-down	0.7 1
CDTI, Centre for Industrial Technological Development	Ministry of Economy and Competitiveness	State Plan for promoting RDI Business Leadership. Programmes and Instruments: PID, INNODEMANDA, INNPRONTA - RDI projects:	No	Innovation	Bottom up	11

Table with publications and patents data

Indicator[2]	SRIA theme	Publications		Patents	
		Spain	Europe[3]	Spain	Europe
Raw data	Q1	4253	33531	2	59
	Q2	4500	37391	46	855
	Q3	13887	134254	44	759
	Q4	2643	15957	20	184
	Q5	2180	22514	12	329
	ALL	17488	142901	122	2256
Increasing rate[4]		3.0	2.1	2.3	1.3
Patens per 1,000 publications		ES: 6.95; Europe: 15.78			
Standardized by population[5] (10^6 Inhabitants)	Q1	91.2	53.7	0.0	0.0
	Q2	96.5	59.9	1.0	1.4
	Q3	297.9	215.0	0.9	1.2
	Q4	56.7	25.5	0.4	0.3
	Q5	46.8	36.0	0.3	0.5
	ALL	375.2	228.8	2.6	3.6
Standardized by GDP[6] (100×10^3 M EUR)	Q1	424.0	229.3	0.2	0.4
	Q2	448.6	255.7	4.6	5.8
	Q3	1384.5	918.1	4.4	5.2
	Q4	263.5	109.1	2.0	1.3
	Q5	217.3	154.0	1.2	2.2
	ALL	1743.5	977.2	12.1	15.4

[2] All data correspond to the period 1999 - 2013.
[3] Considered as the 28 EU Member States plus the 12 Associated Countries.
[4] Increasing Rate is the number of publications or patens in 2009-2013 divided by the number in 1999-2003 (considering ALL water topics).

[5] Population obtained from http://en.wikipedia.org/wiki/List_of_countries_by_population.
[6] Gross Domestic Product (GDP), nominal, obtained from http://en.wikipedia.org/wiki/List_of_countries_by_GDP_%28nominal%29

Tables on Funders and Performers obtained from publications analyses

SRIA theme	Funding Institutions	Acronym	Intensity of citations
Q1	SPANISH MINISTRY OF ECONOMY AND COMPETITIVENESS	MINECO	100
	AUTONOMOUS GOVERNMENTS (CAT, CVA, AND, PV, CAM, GAL, DGA)	CCAA	27
Q2	SPANISH MINISTRY OF ECONOMY AND COMPETITIVENESS	MINECO	100
	AUTONOMOUS GOVERNMENTS (AND, CAT, CVA GAL, EX, CYL, CAM)	CCAA	32
Q3	MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD	MINECO	100
	AUTONOMOUS GOVERNMENTS (GAL, AND, CAT, CVA, PV, CAM, CYL)	CCAA	31
Q4	SPANISH MINISTRY OF ECONOMY AND COMPETITIVENESS	MINECO	100
	AUTONOMOUS GOVERNMENTS (AND, GAL, CVA, CAT, CAM, DGA)	CCAA	19
	INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA	INIA	11
Q5	SPANISH MINISTRY OF ECONOMY AND COMPETITIVENESS	MINECO	100
	AUTONOMOUS GOVERNMENTS (CAT, AND, CVA, CAM, DGA, PV, GAL)	CCAA	22
ALL	SPANISH MINISTRY OF ECONOMY AND COMPETITIVENESS	MINECO	100
	AUTONOMOUS GOVERNMENTS (CAT, AND, CVA, GAL, CAM, PV. DGA, CYL, EX)	CCAA	30

SRIA theme	Performing Institutions[1]	Intensity of citations
Q1	CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS, CSIC[2]	100
	UNIVERSITY OF BARCELONA	33
	AUTONOMOUS UNIVERSITY OF BARCELONA	18
	UNIVERSITAT DE LES ILLES BALEARS	13
	POLYTECHNIC UNIVERSITY OF MADRID	11
Q2	CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	100
	UNIVERSITY OF BARCELONA	58
	POLYTECHNIC UNIVERSITY OF VALENCIA	31
	AUTONOMOUS UNIVERSITY OF BARCELONA	31
	UNIVERSITY OF GRANADA	29
Q3	CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	100
	UNIVERSITY OF BARCELONA	30
	UNIVERSITY OF VALENCIA	19
	UNIVERSITY OF SANTIAGO DE COMPOSTELA	18
	POLYTECHNIC UNIVERSITY OF VALENCIA	16
Q4	CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	100
	UNIVERSIDAD DE CORDOBA	27
	UNIVERSIDAD POLITECNICA DE CARTAGENA	22
	POLYTECHNIC UNIVERSITY OF MADRID	20
	UNIVERSITAT DE LLEIDA	18
Q5	CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	100
	POLYTECHNIC UNIVERSITY OF VALENCIA	28
	UNIVERSITY OF BARCELONA	24
	POLYTECHNIC UNIVERSITY OF MADRID	22
	UNIVERSIDAD DE CORDOBA	22
ALL	CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	100
	UNIVERSITY OF BARCELONA	32
	AUTONOMOUS UNIVERSITY OF BARCELONA	18
	UNIVERSITY OF GRANADA	18
	POLYTECHNIC UNIVERSITY OF VALENCIA	17

[1] A number of Water RDI Institutes have been created in Spain in the last decades by large RDI performers and/or governments. These institutes are not very visible in bibliometric analyses because author affiliation often does not include the name of the Institute. A non-exhaustive list follows:

- CENTA, Fundación centro de las nuevas tecnologías del agua (Andalucía Government). Sevilla
- CIDTA, Research and Development Center for Water Technology (University of Salamanca). Salamanca.
- ICRA, Catalan Institute for Water Research (Catalan Government). Girona.
- IDAEA, Institute of Environmental Assessment and Water Research (CSIC). Barcelona.
- IMDEA, Water Institute (Madrid Government). Madrid.
- ITA, Polytechnic University of Valencia. Valencia.
- IUACA, University Institute of Water and Environmental Sciences (University of Alicante). Alicante.
- Water Institute (University of Granada). Granada.
- Water Research Institute (University of Barcelona). Barcelona.

- Almeria Solar Platform (PSA-CIEMAT). Almeria.
- CETaqua (Agbar, University of Santiago and CSIC). Santiago de Compostela.

[2] CSIC is the largest public institution dedicated to research in Spain, with a staff of about 15,000 and Institutes distributed throughout the country. Outstanding institutes on Water RDI include: CEBAS (Centro de Edafología y Biología Aplicada del Segura, Murcia); IDAEA (Instituto de Diagnóstico Ambiental y Estudios del Agua, Barcelona); CEAB (Centro de Estudios Avanzados de Blanes, Girona); EEAD (Estación Experimental de Aula Dei, Zaragoza); IAS (Instituto de Agricultura Sostenible, Córdoba); IRNAS (Instituto de Recursos Naturales y Agrobiología, Sevilla).