

JPI Partner, EU Member State	Germany	DE
Total estimated Water RDI Funding: 114.3 M€/yr		

The Federal Ministry of Education and Research (BMBF) performs research funding operations of science and research. These activities must provide for the future: The protection of the environment and climate change, safeguarding energy supplies, but also demographic development are all processes which take several decades. Research also secures the basis for prosperity and social cohesion, since research results form the basis for international competitiveness.

BMBF research funding supports private and public scientific institutions and enterprises. The Ministry also funds individual researchers via special funding institutions. BMBF's grants are mainly based on competitive calls and peer review processes. In the field of water research, the five years programme "Nachhaltiges Wassermanagement – NaWaM" (Sustainable Water Management) has been started at the end of 2010 with a volume of approximately 200 M€. It comprises five thematic areas: water and health, water and energy, water and food, water in urban areas and water and environment. The institution has been partner of the IWRMNet and CRUE ERA-NETs.

Another large funding body in Germany is the 'Deutsche Forschungsgemeinschaft' (DFG; German Research Foundation). DFG is the self-governing organisation for science and research in Germany. The DFG funds knowledge-oriented research without predefinition of topics and relies on competition to select the best projects in terms of scientific quality. The DFG receives its funds from the States and the Federal Government, which are represented in all Grants Committees. At the same time, the voting system and procedural regulations guarantee science-driven decisions.

The Deutsche Bundesstiftung Umwelt (DBU) is a foundation created using industrial privatization funds. This foundation is committed to fund research and development in three specific areas of knowledge. Two of them, "environmental technology" and "environmental research and nature conservation" are directly related to the objectives of the water JPI. Grants can be assigned to individuals or institutions. The evaluation criteria include innovation, model character and prospects for environmental relief.

The Federal States of Germany ("Länder") also act as research funding bodies. They run several research institutions which contribute to supporting the research activities of the Länder. There are more than 100 institutes owned and managed by the Länder, covering a broad range of research areas.

Table with publications and patents data

Indicator ¹	SRIA theme	Publications		Patents	
		Germany	Europe ²	Germany	Europe
Raw data	Q1	5739	33531	7	59
	Q2	5267	37391	205	855
	Q3	23711	134254	191	759
	Q4	1815	15957	26	184
	Q5	3642	22514	90	329
	ALL	20205	142901	492	2256
Increasing rate ³		2.0	2.1	1.3	1.3
Patens per 1,000 publications		DE: 24.33 ; Europe: 15.78			
Standardized by population ⁴ (10 ⁶ Inhabitants)	Q1	71.1	53.7	0.0	0.0
	Q2	65.3	59.9	2.5	1.4
	Q3	293.8	215.0	2.4	1.2
	Q4	22.5	25.5	0.3	0.3
	Q5	45.1	36.0	1.1	0.5
	ALL	250.3	228.8	6.1	3.6
Standardized by GDP ⁵ (100 x 10 ³ M EUR)	Q1	213.8	229.3	0.2	0.4
	Q2	196.2	255.7	7.6	5.8
	Q3	883.4	918.1	7.1	5.2
	Q4	67.6	109.1	1.0	1.3
	Q5	135.7	154.0	3.3	2.2
	ALL	752.7	977.2	18.3	15.4

¹ All data correspond to the period 1999 - 2013.

² Considered as the 28 EU Member States plus the 12 Associated Countries.

³ Increasing Rate is the number of publications or patens in 2009-2013 divided by the number in 1999-2003 (considering ALL water topics).

⁴ Population obtained from http://en.wikipedia.org/wiki/List_of_countries_by_population

⁵ 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	GERMAN RESEARCH FOUNDATION	DFG	100
	GERMAN FEDERAL MINISTRY OF EDUCATION AND RESEARCH	BMBF	26
	GERMAN ACADEMIC EXCHANGE SERVICE	DAAD	13
Q2	GERMAN RESEARCH FOUNDATION	DFG	100
	GERMAN FEDERAL MINISTRY OF EDUCATION AND RESEARCH	BMBF	68
	GERMAN ACADEMIC EXCHANGE SERVICE	DAAD	23
	ALEXANDER VON HUMBOLDT FOUNDATION	AVH	10
Q3	GERMAN RESEARCH FOUNDATION	DFG	100
	GERMAN FEDERAL MINISTRY OF EDUCATION AND RESEARCH	BMBF	22
	GERMAN ACADEMIC EXCHANGE SERVICE	DAAD	10
Q4	GERMAN FEDERAL MINISTRY OF EDUCATION AND RESEARCH	BMBF	100
	GERMAN RESEARCH FOUNDATION	DFG	98
	GERMAN ACADEMIC EXCHANGE SERVICE	DAAD	49
	ALEXANDER VON HUMBOLDT FOUNDATION	AVH	10
Q5	GERMAN RESEARCH FOUNDATION	DFG	100
	GERMAN FEDERAL MINISTRY OF EDUCATION AND RESEARCH	BMBF	79
	GERMAN ACADEMIC EXCHANGE SERVICE	DAAD	16
	ALEXANDER VON HUMBOLDT FOUNDATION	AVH	11
ALL	GERMAN RESEARCH FOUNDATION	DFG	100
	GERMAN FEDERAL MINISTRY OF EDUCATION AND RESEARCH	BMBF	38
	GERMAN ACADEMIC EXCHANGE SERVICE	DAAD	21

SRIA theme	Performing Institutions	Intensity of citations
Q1	MAX PLANCK SOCIETY	100
	HELMHOLTZ ASSOCIATION	77
	UNIVERSITY OF GOTTINGEN	49
	UNIVERSITY OF BAYREUTH	45
	UFZ HELMHOLTZ CENTER FOR ENVIRONMENTAL RESEARCH	44
Q2	HELMHOLTZ ASSOCIATION	100
	KARLSRUHE INSTITUTE OF TECHNOLOGY	53
	TECHNICAL UNIVERSITY OF BERLIN	52
	UFZ HELMHOLTZ CENTER FOR ENVIRONMENTAL RESEARCH	51
	MAX PLANCK SOCIETY	42
Q3	MAX PLANCK SOCIETY	100
	HELMHOLTZ ASSOCIATION	75
	KARLSRUHE INSTITUTE OF TECHNOLOGY	39
	UNIVERSITY OF KIEL	31
	UNIVERSITY OF BREMEN	30
Q4	UNIVERSITY OF BONN	100
	HELMHOLTZ ASSOCIATION	90
	UNIVERSITY HOHENHEIM	78
	UFZ HELMHOLTZ CENTER FOR ENVIRONMENTAL RESEARCH	60
	MAX PLANCK SOCIETY	57
Q5	HELMHOLTZ ASSOCIATION	100
	MAX PLANCK SOCIETY	71
	UNIVERSITY OF BONN	67
	UFZ HELMHOLTZ CENTER FOR ENVIRONMENTAL RESEARCH	59
	UNIVERSITY OF GOTTINGEN	38
ALL	HELMHOLTZ ASSOCIATION	100
	MAX PLANCK SOCIETY	81
	UFZ HELMHOLTZ CENTER FOR ENVIRONMENTAL RESEARCH	51
	TECHNICAL UNIVERSITY OF MUNICH	45
	UNIVERSITY OF GOTTINGEN	45