

Appendix table 4-39

Government budget appropriations or outlays for R&D, by socioeconomic objectives and selected countries: 2011

Socioeconomic objective	United States	France	Germany	United Kingdom ^a	China	Japan	South Korea
	PPP, US \$millions						
All objectives	144,379	19,394	29,366	14,081	NA	34,136	15,856
Defense	82,021	1,318	1,174	2,386	–	906	2,582
Nondefense	62,358	18,075	28,192	11,695	NA	33,231	13,274
Exploration and exploitation of Earth	1,315	154	522	431	–	478	270
Environment	584	292	798	352	–	367	348
Exploration and exploitation of space	8,658	2,506	1,413	240	–	2,242	313
Transport, telecommunication, and other infrastructures	1,518	1,168	399	248	–	967	101
Energy	2,285	1,198	1,282	96	–	4,546	852
Industrial production and technology	532	328	4,678	183	–	2,275	4,680
Health	33,536	1,317	1,308	2,905	–	1,488	1,259
Agriculture	2,211	424	862	445	–	1,065	994
Education	546	na	289	76	–	76	NA
Culture, recreation, religion, and mass media	27	na	425	341	–	25	NA
Political and social systems, structures, and processes	1,211	976	436	237	–	123	NA
General advancement of knowledge, R&D financed from GUF ^b	na	4,412	11,144	3,495	–	12,424	**
General advancement of knowledge, R&D financed from sources other than GUF	9,955	3,229	4,831	2,645	–	7,155	4,104
	Percent						
Share of all objectives	100.0	100.0	100.0	100.0	NA	100.0	100.0
Defense	56.8	6.8	4.0	16.9	–	2.7	16.3
Nondefense	43.2	93.2	96.0	83.1	–	97.3	83.7
Share of nondefense objectives	100.0	88.6	100.7	100.0	NA	100.0	97.3
Exploration and exploitation of Earth	2.1	0.9	1.9	3.7	–	1.4	2.0
Environment	0.9	1.6	2.8	3.0	–	1.1	2.6
Exploration and exploitation of space	13.9	13.9	5.0	2.1	–	6.7	2.4
Transport, telecommunication, and other infrastructures	2.4	6.5	1.4	2.1	–	2.9	0.8
Energy	3.7	6.6	4.5	0.8	–	13.7	6.4
Industrial production and technology	0.9	1.8	16.6	1.6	–	6.8	35.3
Health	53.8	7.3	4.6	24.8	–	4.5	9.5
Agriculture	3.5	2.3	3.1	3.8	–	3.2	7.5
Education	0.9	na	1.0	0.6	–	0.2	NA
Culture, recreation, religion, and mass media	0.0	na	1.5	2.9	–	0.1	NA
Political and social systems, structures, and processes	1.9	5.4	1.5	2.0	–	0.4	NA

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Socioeconomic objective	United States	France	Germany	United Kingdom ^a	China	Japan	South Korea
General advancement of knowledge, R&D financed from GUF ^b	na	24.4	39.5	29.9	–	37.4	**
General advancement of knowledge, R&D financed from sources other than GUF	16.0	17.9	17.1	22.6	–	21.5	30.9

** = included in other categories; na = not applicable; NA = not available.

GUF = general university funds; PPP = purchasing power parity.

^a The data for the United Kingdom are for 2010, the most recent year available.

^b The United States and South Korea do not have a category equivalent to GUF.

NOTES: Detail may not add to total due to rounding. U.S. data are based on federal budget authority. Socioeconomic objective categories reflect the NABS 2007 classifications (Nomenclature for the Analysis and Comparison of Scientific Budgets and Programmes 2007 classifications). Conversions of foreign currencies to U.S. dollars are based on PPP exchange rates. Because of GUF and slight differences in accounting practices, distribution of government budgets among socioeconomic objectives may not completely reflect actual distribution of government-funded research in particular objectives.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of federal R&D budget authority by spending category, Organisation for Economic Co-operation and Development (January 2013).

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