

Appendix table 4-44

International R&D expenditures for selected countries, by performing sector and source of funds: Selected years, 2002–04

Country and R&D performer	Source of R&D funds						Performers (% distribution)
	Total	Industry	Government	Higher education	Private nonprofit	Abroad	
Japan (2002) (billions of yen).....	15,551,513	11,486,713	2,830,142	1,004,191	171,032	59,435	100.0
Industry.....	11,576,842	11,334,347	112,181	916	72,420	56,978	74.4
Government.....	1,483,209	17,621	1,460,999	768	3,696	125	9.5
Higher education.....	2,158,797	56,197	1,082,057	1,002,239	17,564	740	13.9
Private nonprofit.....	332,665	78,548	174,905	268	77,352	1,592	2.1
Percent distribution, sources.....	100.0	73.9	18.2	6.5	1.1	0.4	na
Germany (2003) (millions of euros).....	54,310	35,910	16,910	0	230	1,260	100.0
Industry.....	37,910	34,610	2,310	NA	80	910	69.8
Government.....	7,300	200	6,800	NA	150	150	13.4
Higher education.....	9,100	1,100	7,800	NA	NA	200	16.8
Private nonprofit.....	NA	NA	NA	NA	NA	NA	0.0
Percent distribution, sources.....	100.0	66.1	31.1	0.0	0.4	2.3	na
France (2002) (millions of euros).....	34,527	17,990	13,244	242	295	2,756	100.0
Industry.....	21,839	17,342	2,256	1	4	2,236	63.3
Government.....	5,709	382	4,997	16	13	301	16.5
Higher education.....	6,512	186	5,931	204	18	174	18.9
Private nonprofit.....	468	81	60	21	260	45	1.4
Percent distribution, sources.....	100.0	52.1	38.4	0.7	0.9	8.0	na
Italy (2003) (millions of euros).....	NA	NA	NA	NA	NA	NA	na
Industry.....	7,102	5,555	1,025	5	15	502	na
Government.....	2,507	73	2,136	4	183	112	na
Higher education.....	NA	NA	NA	NA	NA	NA	na
Private nonprofit.....	NA	NA	NA	NA	NA	NA	na
Percent distribution, sources.....	NA	NA	NA	NA	NA	NA	na
United Kingdom (2002) (millions of pounds).....	19,568	9,138	5,268	196	963	4,003	100.0
Industry.....	13,110	8,654	884	NA	4	3,567	67.0
Government.....	1,752	183	1,426	11	72	60	9.0
Higher education.....	4,416	257	2,914	182	714	349	22.6
Private nonprofit.....	290	44	44	2	174	26	1.5
Percent distribution, sources.....	100.0	46.7	26.9	1.0	4.9	20.5	na
Canada (2004) (millions of Canadian dollars).....	24,487	11,314	8,672	1,781	787	1,933	100.0
Industry.....	12,534	10,403	327	NA	NA	1,804	51.2
Government.....	2,564	93	2,470	NA	NA	1	10.5
Higher education.....	9,319	807	5,847	1,781	758	126	38.1
Private nonprofit.....	70	11	28	NA	29	2	0.3
Percent distribution, sources.....	100.0	46.2	35.4	7.3	3.2	7.9	na
Russian Federation (2003) (billions of rubles).....	169,862	52,257	101,252	807	278	15,268	100.0
Industry.....	116,248	44,402	59,897	78	205	11,667	68.4
Government.....	42,945	4,926	34,808	24	23	3,164	25.3
Higher education.....	10,298	2,870	6,294	704	13	416	6.1
Private nonprofit.....	372	59	253	1	38	21	0.2
Percent distribution, sources.....	100.0	30.8	59.6	0.5	0.2	9.0	na
South Korea (2003) (billions of won).....	19,068,682	14,113,599	4,548,933	256,825	70,467	78,858	100.0
Industry.....	14,509,663	13,653,286	772,178	4,003	10,765	69,431	76.1
Government.....	2,401,051	130,956	2,264,378	557	3,861	1,299	12.6
Higher education.....	1,932,663	262,304	1,379,634	251,973	30,660	8,092	10.1
Private nonprofit.....	225,304	67,053	132,743	292	25,180	36	1.2
Percent distribution, sources.....	100.0	74.0	23.9	1.3	0.4	0.4	na
United States (2003) (millions of U.S. dollars).....	284,584	179,615	88,778	7,944	8,247	NA	100.0
Industry.....	196,112	176,415	19,697	NA	NA	NA	68.9
Government.....	25,747	0	25,747	NA	NA	NA	9.0
Higher education.....	47,683	2,123	34,630	7,944	2,986	NA	16.8
Private nonprofit.....	15,042	1,077	8,704	NA	5,261	NA	5.3
Percent distribution, sources.....	100.0	63.1	31.2	2.8	2.9	NA	na

NA = assumed negligible or not available; na = not applicable

SOURCE: Organisation for Economic Co-operation and Development, special tabulations (2005).