

27

Gross domestic expenditure on research and development (R&D)

As a percentage of GDP and by source of funds

Dépenses intérieures brutes de recherche et développement (R-D)

En pourcentage du PIB et répartition par source de financement

Country or area Pays ou zone	Year Année	Expenditure on R&D as a % of GDP Dépenses en R&D en % du PIB	Source of funds (%) / Source de financement (%)					
			Business enterprises Entreprises	Government Etat	Higher education Enseigne- ment supérieur	Private non- profit Institut. Privées sans but lucratif	Funds from abroad Fonds de l'étranger	Not specified/ Non précisé
Total, all countries or areas	2005	1.5	...	...	...	...	...	...
Total, tous pays ou zones	2010	1.6	...	...	...	...	...	...
	2014	1.7	...	...	...	...	...	...
Northern Africa Afrique septentrionale	2005	0.3	...	...	...	...	...	...
	2010	0.4	...	...	...	...	...	...
	2014	0.5	...	...	...	...	...	...
Sub-Saharan Africa Afrique subsaharienne	2005	0.4	...	...	...	...	...	...
	2010	0.4	...	...	...	...	...	...
	2014	0.4	...	...	...	...	...	...
Northern America Amérique septentrionale	2005	2.5	...	...	...	...	...	...
	2010	2.7	...	...	...	...	...	...
	2014	2.6	...	...	...	...	...	...
Latin America & the Caribbean Amérique latine et Caraïbes	2005	0.6	...	...	...	...	...	...
	2010	0.6	...	...	...	...	...	...
	2014	0.7	...	...	...	...	...	...
Central Asia Asie centrale	2005	0.2	...	...	...	...	...	...
	2010	0.2	...	...	...	...	...	...
	2014	0.2	...	...	...	...	...	...
Eastern Asia Asie orientale	2005	2.1	...	...	...	...	...	...
	2010	2.2	...	...	...	...	...	...
	2014	2.5	...	...	...	...	...	...
South-eastern Asia Asie du Sud-Est	2005	0.6	...	...	...	...	...	...
	2010	0.8	...	...	...	...	...	...
	2014	0.8	...	...	...	...	...	...
Southern Asia Asie méridionale	2005	0.7	...	...	...	...	...	...
	2010	0.7	...	...	...	...	...	...
	2014	0.7	...	...	...	...	...	...
Western Asia Asie occidentale	2005	0.5	...	...	...	...	...	...
	2010	0.5	...	...	...	...	...	...
	2014	0.6	...	...	...	...	...	...
Europe Europe	2005	1.6	...	...	...	...	...	...
	2010	1.7	...	...	...	...	...	...
	2014	1.8	...	...	...	...	...	...
Oceania Océanie	2005	1.9	...	...	...	...	...	...
	2010	2.2	...	...	...	...	...	...
	2014	2.0	...	...	...	...	...	...
Australia and New Zealand Australie et Nouvelle-Zélande	2005	1.9	...	...	...	...	...	...
	2010	2.2	...	...	...	...	...	...
	2014	2.1	...	...	...	...	...	...
Albania ¹ Albanie ¹	2008	0.2	3.3	80.8	8.6	...	7.4	...
Algeria ¹ Algérie ¹	2005	0.1	...	...	...	...	...	...
Argentina	2005	0.4	31.0	59.6	5.7	3.0	0.7	-0.0
Argentina	2008	0.5	26.5	67.6	4.4	1.0	0.6	-0.0
	2010	0.6	...	...	...	...	...	...
	2014	0.6	...	...	...	...	...	...
Armenia Arménie	2005 ¹	0.3	...	77.5	...	...	4.7	17.8
	2010 ¹	0.2	...	84.5	...	...	11.7	3.8
	2015 ^{2,3}	0.3	...	73.8	...	...	2.3	23.9
Australia Australie	2004	1.9	54.6	40.3	0.4	1.9	2.9	...
	2008	2.4	61.9	34.6	0.1	1.8	1.6	...
	*2010	2.4	...	...	...	...	...	...
	*2013	2.2	...	...	...	...	...	...

Country or area Pays ou zone	Year Année	Expenditure on R&D as a % of GDP Dépenses en R&D en % du PIB	Source of funds (%) / Source de financement (%)					Funds from abroad Fonds de l'étranger	Not specified/ Non précisé
			Business enterprises Entreprises	Government Etat	Higher education Enseigne- ment supérieur	Private non- profit Institut. Privées sans but lucratif			
Austria	2004	2.2	47.2	32.6	0.4	0.5	19.4	...	
Autriche	*2005	2.4	45.6	35.9	...	0.4	18.0	...	
	2009	2.6	47.1	34.9	0.7	0.6	16.8	...	
	*2010	2.7	45.1	38.3 ⁴	...	0.5	16.1	...	
	2013	3.0	48.7	33.6	0.6	0.5	16.6	...	
	*2015	3.1	47.0	36.6 ⁴	...	0.5	15.9	...	
Azerbaijan	2005	0.2 ⁵	18.7	77.5	~0.0	1.3	2.4	...	
Azerbaïdjan	2010	0.2	# 9.6	# 88.2	0.3	1.9	~0.0	...	
	2014	0.2	30.5	67.6	0.8	0.9	0.2	...	
	2015	0.2	32.2	65.8	0.4	1.7	...	...
Bahrain									
Bahreïn	2014	0.1	21.8	41.5	21.2	2.0	12.4	1.1	
Belarus	2002	0.6	24.4	63.4	2.2	~0.0	10.1	...	
Bélarus	2005	0.7	21.2	71.9	0.7	...	6.3	...	
	2008	0.7	36.5	57.6	0.3	0.1	5.5	...	
	2010	0.7	27.1	58.7	...	0.6	13.6	...	
	2011	0.7	45.8	45.5	...	~0.0	8.7	...	
	2015	0.5	41.3	46.0	...	...	12.7	...
Belgium	2005	1.8	59.7	24.7	2.6	0.6	12.4	...	
Belgique	2010	2.1	57.6	25.4	3.1	0.6	13.3	...	
	2013	2.4	61.3	24.1	1.0	0.4	13.2	...	
	*2015	2.5	...	...	...	...	...	...
Bermuda ⁶	2010 ⁷	0.2	...	...	...	...	...	...
Bermudes ⁶	2015	0.2	...	...	...	...	...	...
Bolivia (Plurin. State of)	2002	0.3	16.0	20.0	31.0	19.0	14.0	...	
Bolivie (État plurin. de)	#2009	0.2	5.2	51.2	26.5	2.1	1.9	13.2	
Bosnia and Herzegovina	2005 ¹	~0.0	...	...	...	...	...	...
Bosnie-Herzégovine	2009 ¹	~0.0	...	...	...	...	...	...
	2013	0.3	1.8	25.3	...	~0.0	53.9	18.9	
	2015	0.2	31.4	37.6	14.1	~0.0	16.9	...	
Botswana	2005	0.5	...	...	...	...	...	...
Botswana	#2012	0.3	5.8	73.9	12.6	0.7	6.8	0.2	
	2013	0.5	17.7	59.7	0.9	...	21.7	...	
Brazil	2005	1.0	50.4	47.7	1.9	...	...	...
Brésil	2010	1.2	47.0	51.1	1.8	...	...	~0.0
	2011	1.1	45.2	52.9	1.9	...	...	~0.0
	2014	1.2	36.4	61.4	2.2	...	...	...
Brunei Darussalam	2003	~0.0 ¹	6.7	86.8	...	...	6.6	...
Brunéi Darussalam	#2004	~0.0 ¹	1.6	91.0	7.4	...	...	...
Bulgaria	2005	0.4	27.8	63.9	0.4	0.3	7.6	...	
Bulgarie	2010	0.6	16.7	43.2	0.5	0.1	39.6	...	
	2014	0.8	22.3	26.4	~0.0	0.4	50.9	...	
	*2015	1.0	...	...	...	...	...	...
Burkina Faso	2005	0.2 ¹	...	100.0	...	...	...	...
Burkina Faso	2009	0.2	11.9	9.1	12.2	1.3	59.6	5.9	
Burundi ¹	2008	0.2	...	59.9	0.2	...	39.9	...	
Burundi ¹	2010	0.1	...	...	...	...	...	...
	2011	0.1	...	...	...	...	...	...
Cabo Verde ^{1,8}									
Cabo Verde ^{1,8}	2011	0.1	...	100.0	...	...	...	...
Cambodia	2002 ¹	~0.0	...	17.9	...	43.0	28.4	10.6	
Cambodge	#2015	0.1	19.4	23.5	0.1	22.1	34.9	...	
Canada	2005	2.0	49.3	* 31.8	* 7.3	2.8	8.8	...	
Canada	2010	1.8	47.0	* 35.2	* 7.8	3.5	6.5	...	
	*2014	1.6	45.4	34.6	10.3	3.7	6.0	...	
Chile	2010	0.3	25.4	40.4	12.7	1.7	19.8	...	
Chili	*2015	0.4	32.8	42.6	11.1	0.6	12.9	...	

Country or area Pays ou zone	Year Année	Expenditure on R&D as a % of GDP Dépenses en R&D en % du PIB	Source of funds (%) / Source de financement (%)						
			Business entreprises Entreprises	Government Etat	Higher education Enseigne- ment supérieur	Private non- profit Institut. Privées sans but lucratif	Funds from abroad Fonds de l'étranger	Not specified/ Non précisé	
China ⁹	2005	1.3	67.0	26.3	...	...	0.9	...
China ⁹	2010	1.7	71.7	24.0	...	...	1.3	...
	2015	2.1	74.7	21.3	...	...	0.7	...
China, Hong Kong SAR	2005	0.8	53.0 ¹⁰	44.1	0.4	...	2.5	...	
China, RAS de Hong Kong	2010	0.7	47.6 ¹⁰	47.3	0.1	...	4.9	...	
	2014	0.7	46.4 ¹⁰	46.5	-0.0	...	7.0	...	
	2015	0.8	...	...	...	...	...	...
China, Macao SAR	2005	0.1 ¹	* 0.2	* 88.0	* 10.0	* 0.4	...	* 1.4	
China, RAS de Macao	2007	# 0.1 ¹	0.1	89.3	5.8	2.8	0.6	1.6	
	2008	0.1 ¹	0.2	91.7	6.4	1.4	...	0.3	
	2010 ¹	0.1	...	...	...	...	...	...
	2015 ¹	0.1	...	87.2	6.2	0.5	...	6.1	
Colombia	2005	0.2	25.4	36.9	29.4	3.8	4.5	...	
Colombie	2010	0.2	28.8	38.7	23.2	6.0	3.3	...	
	2015	0.2	33.6	43.3	17.4	3.3	2.4	...	
Costa Rica	2004	0.4	...	...	...	...	...	...
Costa Rica	2010	0.5	20.7	62.6	...	0.4	11.8	4.6	
	2014	0.6	1.5	56.2	...	0.5	1.4	40.4	
Croatia	2005	0.9	34.3	58.1	4.9	-0.0	2.6	...	
Croatie	2010	0.7	38.8	49.2	2.0	0.2	9.9	...	
	2015	0.9	46.6	36.4	2.0	0.5	14.5	...	
Cuba	2005	0.5	35.0	60.0	...	...	5.0	...
Cuba	2010	0.6	15.0	75.0	...	...	10.0	...
	2015	0.4	40.0	55.0	...	...	5.0	...
Cyprus	2005	0.4	16.8	67.0	4.2	1.2	10.9	...	
Chypre	2010	0.4	12.7	68.3	3.5	0.5	15.0	...	
	2014	0.5	13.7	56.5	5.6	0.6	23.7	...	
	*2015	0.5	...	...	...	...	...	...
Czechia	2005	1.2	48.2	45.2	1.2	-0.0	5.4	...	
Tchéquie	2010	1.3	40.8	44.4	0.9	-0.0	13.9	...	
	*2015	1.9	34.5	32.2	0.7	0.1	32.5	...	
Dem. Rep. of the Congo	2005	# 0.1 ^{11,12}	...	100.0	...	...	...	...
Rép. dém. du Congo	2009	0.1 ^{11,12}	...	100.0	...	...	...	...
Denmark	2005	2.4	59.5	27.6	...	2.8	10.1	...	
Danemark	2010	2.9	* 61.1	* 28.2 ⁴	...	* 3.5	* 7.2	...	
	*2015	3.0	59.4	29.4 ⁴	...	4.7	6.5	...	
Ecuador	2003	0.1	...	...	...	...	...	...
Équateur	2010	0.4	1.0 ³	40.2 ³	9.6 ³	0.5 ³	5.3 ³	43.4 ¹³	
	2014	0.4	0.1 ³	42.4 ³	12.6 ³	0.1 ³	2.5 ³	42.3 ¹³	
Egypt	2005 ^{1,11}	0.2	...	...	...	...	...	...
Égypte	2010 ^{2,3}	0.4	...	...	...	...	...	...
	2014	0.6	8.1	91.7 ¹⁴	...	0.1	0.1	...	
	2015	0.7	6.2	93.7 ¹⁴	...	0.1	...	...
El Salvador	2010	0.1	0.6	70.1	20.8	-0.0	8.3	0.1	
El Salvador	2013	0.1	0.7	42.7	37.0	2.8	16.4	0.3	
	2014	0.1	0.7	33.0	48.6	0.9	16.9	...	
	2015	0.1	...	...	...	...	...	...
Estonia	2005	0.9	38.5	43.5	0.8	0.2	17.1	...	
Estonie	2010	1.6	43.6	44.1	0.6	0.2	11.4	...	
	*2015	1.5	41.0	46.4	0.2	0.2	12.2	...	
Ethiopia	2005	0.2 ¹	...	69.2	...	0.1	30.8	...	
Éthiopie	2010	# 0.2	10.8	56.0	1.1	-0.0	30.0	2.2	
	2013	0.6	0.7	79.1	1.8	0.2	2.1	16.0	
Faroe Islands									
Îles Féroé	2003	0.9	20.4	...	...	0.3	18.7	60.6 ^{6,14,15}
Finland	2005	3.3	66.9	25.7	0.2	1.0	# 6.3	...	
Finlande	2010	3.7	66.1	25.7	0.2	1.1	6.9	...	
	2015	2.9	54.8	28.9	0.3	1.5	14.5	...	

Gross domestic expenditure on research and development (R&D) (continued)

As a percentage of GDP and by source of funds

Dépenses intérieures brutes de recherche et développement (R-D) (suite)

En pourcentage du PIB et répartition par source de financement

Country or area Pays ou zone	Year Année	Expenditure on R&D as a % of GDP Dépenses en R&D en % du PIB	Source of funds (%) / Source de financement (%)						
			Business entreprises Entreprises	Government Etat	Higher education Enseigne- ment supérieur	Private non- profit Institut. Privées sans but lucratif	Funds from abroad Fonds de l'étranger	Not specified/ Non précisé	
France	2005	2.0	51.9	38.6	1.0	0.9	7.5	...	
France	#2010	2.2	53.5	37.1	1.0	0.8	7.5	...	
	2014	2.2	55.7	34.6	1.0	1.0	7.8	...	
	*2015	2.2	...	...	...	...	...	...
Gabon									
Gabon	2009	0.6	29.3	58.1	9.5	...	3.1	-0.0	
Gambia	2009 ¹	~0.0	...	...	...	...	...	...
Gambia	2011 ⁶	0.1	...	38.5	...	45.6	15.9	...	
Georgia	2005	0.2	...	...	...	...	...	...
Géorgie	2014	# 0.2 ^{1,2,3}	...	42.1 ^{8,16}	41.8 ^{8,16}	2.1 ^{8,16}	14.3 ^{8,16}	0.3 ^{8,16}	
	2015 ^{1,2,3}	0.3	...	...	...	...	...	...
Germany	2005	2.4	67.6	28.4	...	0.3	3.7	...	
Allemagne	2010	2.7	65.5	30.4	...	0.2	3.9	...	
	2014	2.9	65.8	28.8	...	0.3	5.0	...	
	*2015	2.9	...	...	...	...	...	...
Ghana									
Ghana	2010	# 0.4	# 0.1	# 68.3	0.3	0.1	31.2	...	
Greece	2005	0.6	31.1	46.8	1.7	1.5	19.0	...	
Grèce	*2010	0.6	36.5	48.3	2.3	1.0	11.9	...	
	*2015	1.0	31.8	52.7	2.5	0.2	12.8	...	
Greenland									
Groenland	2004	0.7	...	...	...	...	...	...
Guam									
Guam	2001	...	...	100.0	...	...	...	...
Guatemala ¹	2005	~0.0	...	42.1	57.9	...	...	...
Guatemala ¹	2010	~0.0	...	18.3	30.9	...	50.8	...	
	2012	~0.0	...	23.5	27.5	...	49.0	...	
Honduras									
Honduras	2004	~0.0	...	...	...	...	...	...
Hungary	2005	0.9	39.4 ¹⁶	49.4 ¹⁶	...	0.3 ¹⁶	10.7 ¹⁶	...	
Hongrie	2010	1.1	47.4	39.3	...	0.9	12.4	...	
	2015	1.4	49.7	34.6	...	0.7	15.0	...	
Iceland	2005	2.7	48.0	40.5	...	0.3	11.2	...	
Islande	2009	2.7	47.8	40.2	...	0.6	11.4	...	
	2015	2.2	33.3	32.0	4.2	4.2	26.4	...	
India	2005	0.8	...	...	...	...	...	...
Inde	*2010	0.8	...	...	...	...	...	...
	2015	0.6	...	...	...	...	...	...
Indonesia	2001	~0.0 ¹	14.7 ^{1,10}	84.5	0.2	...	...	0.7
Indonésie	#2009 ¹	0.1	...	...	...	...	...	...
	*2013	0.1	...	...	...	...	...	...
Iran (Islamic Republic of)	2005	0.6	12.2	76.2	11.6	...	...	...
Iran (Rép. islamique d')	2008	0.7	30.9	61.6	7.4	...	...	...
	2010 ^{2,17}	0.3	...	...	...	...	...	...
	2012	0.3	...	...	...	...	...	...
Iraq	2010	~0.0 ¹⁸	...	100.0 ¹⁴	...	...	...	...
Iraq	2015	~0.0	1.1	96.4	2.1	0.3	0.1	...	
Ireland	2005	1.2	57.4	32.0	1.7	0.2	8.6	...	
Irlande	*2010	1.6	52.2	29.4	0.9	0.5	17.0	...	
	*2014	1.5	52.8	27.3	0.7	0.6	18.6	...	
Israel ¹⁹	2005	4.0	56.2	14.5	2.8	1.8	24.7	...	
Israël ¹⁹	2010	3.9	36.2	14.2	1.2	1.1	47.3	...	
	2013	4.1	37.0	12.5	0.2	1.0	49.2	...	
	2015	4.3	...	...	...	...	...	...
Italy	2005	1.0	39.7	50.7	0.1	1.6	8.0	...	
Italie	2010	1.2	44.7	41.6	0.9	3.1	9.8	...	
	*2014	1.4	46.2	40.8	1.0	2.6	9.3	...	
	*2015	1.3	...	...	...	...	...	...

Country or area Pays ou zone	Year Année	Expenditure on R&D as a % of GDP Dépenses en R&D en % du PIB	Source of funds (%) / Source de financement (%)					Funds from abroad Fonds de l'étranger	Not specified/ Non précisé
			Business enterprises Entreprises	Government Etat	Higher education Enseigne- ment supérieur	Private non- profit Institut. Privées sans but lucratif			
Jamaica Jamaïque	2002	0.1	...	...	...	...	...	...
Japan Japon	2005	3.2	76.1	* 16.8	* 6.1	0.7	0.3	...	
	2010	3.1	75.9	* 17.2	* 5.7	0.8	0.4	...	
	2015	3.3	78.0	* 15.4	* 5.4	0.7	0.5	...	
Jordan Jordanie	2002	0.3	...	...	...	...	...	...
	2008	0.4	...	...	...	...	...	...
Kazakhstan Kazakhstan	2005	0.3	39.1	44.5	13.4	1.3	1.5	...	
	2010	0.2	36.6	36.7	17.2	8.9	0.6	...	
	2011	0.2	51.6	24.9	16.3	6.9	0.3	...	
	2013	0.2	28.9	63.7	...	...	0.8	6.6
	2015	0.2	...	...	...	...	...	...
Kenya Kenya	#2010	0.8	4.3	26.0	19.0	3.5	47.1	...	
Kuwait Koweït	2003 ¹¹	0.1 ¹	# 4.4	# 94.7	~0.0	...	0.9	...	
	2004 ¹¹	0.1 ¹	6.0	93.2	...	...	0.8	...
	2005 ¹¹	0.1 ¹	7.3	92.3	...	0.4	...	...
	2009 ¹¹	0.1 ¹	2.3	96.5	...	...	1.2	...
	2010 ¹¹	0.1 ¹	5.2	94.8	...	~0.0	...	...
	2013 ^{2,3}	# 0.3	1.4	92.9	0.2	5.5	...	...
Kyrgyzstan Kirghizistan	2003	0.2	53.7	45.1	0.1	...	1.1	...	
	2005	0.2	36.4	63.6	...	...	~0.0	...
	2010	0.2	...	...	...	...	...	...
	2015 ²	0.1	8.7	89.2	0.2	...	1.0	0.8	
Lao People's Dem. Rep. ¹ Rép. dém. populaire lao ¹	2002	~0.0	36.0	8.0	2.0	...	54.0	...	
Latvia Lettonie	2005	0.5	34.3	46.0	1.2	...	18.5	...	
	2010	0.6	38.8	26.4	1.4	...	33.4	...	
	*2015	0.6	20.1	32.7	2.2	...	45.0	...	
Lesotho Lesotho	2004 ¹	0.1	...	...	...	...	...	...
	2009 ¹	~0.0	3.4	15.0	2.8	...	...	78.9
	2011 ¹	~0.0 ⁸	...	...	44.7 ¹⁵	...	3.4	51.9
	2015 ^{2,3}	0.1	0.8	91.1	...	0.3	7.8	...	
Lithuania Lituanie	2005	0.7	20.8	62.7	5.7	0.2	10.5	...	
	2010	0.8	32.4	46.0	1.5	0.2	19.9	...	
	*2015	1.0	28.0	35.6	1.5	0.3	34.6	...	
Luxembourg Luxembourg	2005	1.6	79.7	16.6	~0.0	0.1	3.6	...	
	2010	1.5	43.5	35.1	0.6	0.1	20.6	...	
	2013	1.3	16.5	48.4	1.7	1.0	32.3	...	
	*2015	1.3	...	...	...	...	...	...
Madagascar Madagascar	2005	0.2 ¹	...	89.8 ¹⁴	...	...	10.2	...
	2009	0.1 ¹	...	89.4 ¹⁴	...	...	10.6	...
	2010	0.1 ¹	...	# 100.0 ¹⁴	...	...	...	...
	2011	0.1 ¹	...	100.0 ¹⁵	...	...	...	...
	#2014 ^{1,11}	~0.0	...	...	...	...	...	...
Malaysia Malaisie	2004	0.6	71.2	21.5	6.9	...	0.4	...	
	2010	1.0	59.6	36.4	3.5	...	0.4	0.1	
	2015	1.3	11.4 ²⁰	# 35.7	7.0	...	1.7	44.3 ⁴	
Mali Mali	2007 ¹	0.2 ¹⁷	10.1	40.9	...	...	49.0	...
	2010	0.6 ³	...	# 91.2	...	...	8.8	...
Malta Malte	2005	0.5	# 46.8	# 25.9	0.4	0.1	26.9	...	
	2010	0.6	51.8	34.6	1.3	0.1	12.2	...	
	*2015	0.8	44.1	33.3	1.2	0.1	21.3	...	
Mauritius Maurice	2005 ^{6,18}	0.4	...	100.0	...	...	...	...
	2012 ³	# 0.2	0.3	72.4	20.7	0.1	6.4	...	
Mexico Mexique	2005	0.4	41.5	49.2	7.3	0.9	1.1	...	
	2010	0.5	32.9	62.3	2.8	1.6	0.5	...	
	*2015	0.6	20.6	71.2	3.5	4.4	0.4	...	

Country or area Pays ou zone	Year Année	Expenditure on R&D as a % of GDP Dépenses en R&D en % du PIB	Source of funds (%) / Source de financement (%)						
			Business enterprises Entreprises	Government Etat	Higher education Enseigne- ment supérieur	Private non- profit Institut. Privées sans but lucratif	Funds from abroad Fonds de l'étranger	Not specified/ Non précisé	
Monaco ¹									
Monaco ¹	2005	~0.0	...	98.8	...	...	...	...	1.2
Mongolia	2005	0.2 ¹	10.4	77.8	0.8	...	4.4	6.5	
Mongolie	2010 ¹	0.2	7.2	61.1	1.5	...	4.2	25.9	
	2014 ¹	0.2	7.5	75.8	3.2	...	2.8	10.7	
	2015 ¹	0.2	7.3	80.1	9.7	...	...	2.9	
Montenegro	2005	0.9	...	...	...	...	...	...
Monténégro	2007	1.1	...	...	...	...	...	...
	2015	0.4	29.9	57.8	6.4	~0.0	5.9	...	
Morocco	2003	0.6	12.3	40.3	47.4	...	...	...
Maroc	2010	0.7	29.9	23.1	45.3	...	1.7	...	
Mozambique	2002 ^{6,12}	0.4	...	34.7	...	...	65.3	...	
Mozambique	2010	# 0.4 ³	...	18.8 ¹⁴	...	3.0	78.1	...	
	2015	0.3	0.5 ¹	43.5	13.3	...	39.9	2.8	
Myanmar ¹									
Myanmar ¹	2002	0.2	...	...	...	...	...	...
Namibia	2010	0.1 ^{1,17}	19.8	78.6	...	...	1.5	...	
Namibie	2014 ¹	0.3	11.1	63.2	6.0	3.9	15.8	...	
Nepal ^{1,18}									
Népal ^{1,18}	2010	0.3	...	...	...	...	...	...
Netherlands	2005	1.8	46.3	38.8	0.3	2.6	12.0	...	
Pays-Bas	2009	1.7	45.1	40.9	0.3	2.8	10.8	...	
	2010	1.7	...	...	...	...	...	...
	*2015	2.0	48.7	33.4	0.2	2.6	15.1	...	
New Zealand	2005	1.1	41.1	43.2	8.9	1.7	5.2	...	
Nouvelle-Zélande	2009	1.3	39.0	44.7	8.3	2.8	5.2	...	
	2013	1.2	39.8	39.8	10.1	3.1	7.2	...	
Nicaragua	2002	~0.0	...	...	...	...	...	...
Nicaragua	2015 ⁸	0.1	...	...	...	...	...	...
Nigeria									
Nigéria	2007	0.2 ³	0.2	96.4	0.1	1.7	1.0	0.6	
Norway	2005	1.5	46.8	43.6	0.7	0.9	8.1	...	
Norvège	2009	1.7	43.6	46.8	0.4	1.0	8.2	...	
	2010	1.7	...	...	...	...	...	...
	2013	1.7	43.1	45.8	0.5	1.0	9.5	...	
	*2015	1.9	...	...	...	...	...	...
Oman	2013	0.2	24.5	48.6	24.4	0.1	~0.0	2.3	
Oman	2015	0.2	21.4	55.7	22.8	0.2	...	...
Pakistan	2005	0.4 ^{2,3}	...	87.0	11.9	...	0.3	0.8	
Pakistan	2009	0.4 ^{2,3}	...	84.0	12.1	1.7	0.9	1.3	
	2015 ^{2,3}	0.2	...	67.0	25.5	0.3	2.7	4.6	
Panama	2003	0.3	0.6	25.5	1.8	1.0	71.0	0.1	
Panama	2005	0.2	0.4	38.5	1.4	0.7	58.9	...	
	2010	0.1	3.4	53.9	6.0	14.0	22.7	~0.0	
	2011	0.2	18.9	46.7	5.0	8.7	20.7	~0.0	
	2013	0.1	10.8	80.9	8.0	...	0.3	...	
Paraguay	2005	0.1	# 0.3	# 74.9	# 8.6	# 2.0	# 14.2	...	
Paraguay	2008	0.1	0.3	76.2	9.2	2.1	12.3	...	
	2015 ³	0.1	0.3	73.1	2.1	4.2	10.3	10.1	
Peru	2004	0.2	...	...	...	...	...	...
Pérou	2015	0.1	...	...	...	...	...	...
Philippines	2005	0.1	62.6	25.6	6.0	0.7	4.8	0.3	
Philippines	2009	0.1	57.5	26.7	7.8	0.4	4.2	3.4	
	2013	0.1	36.9	51.6	9.0	0.2	1.8	0.5	
Poland	2005	0.6	33.4	57.7	2.9	0.3	5.7	...	
Pologne	2010	0.7	24.4	60.9	2.5	0.3	11.8	...	
	2015	1.0	39.0	41.8	2.2	0.2	16.7	...	

Country or area Pays ou zone	Year Année	Expenditure on R&D as a % of GDP Dépenses en R&D en % du PIB	Source of funds (%) / Source de financement (%)					
			Business entreprises Entreprises	Government Etat	Higher education Enseigne- ment supérieur	Private non- profit Institut. Privées sans but lucratif	Funds from abroad Fonds de l'étranger	Not specified/ Non précisé
Portugal	2005	0.8	36.3	55.2	1.0	2.8	4.7	...
Portugal	2010	1.5	43.9	45.1	3.2	4.6	3.2	...
	2014	1.3	41.8	47.1	4.2	1.3	5.6	...
	*2015	1.3	...	...	...	...	...	...
Puerto Rico	2009	0.5	...	...	...	...	...	...
Porto Rico	2013	0.4	65.4	24.9	8.9	0.5	...	0.3
	2015	0.4	...	...	...	...	...	...
Qatar								
Qatar	2012	0.5	24.2	31.2	36.6	5.6	2.4	0.1
Republic of Korea	2005 ²¹	2.6	75.0	23.0	0.9	0.4	0.7	...
République de Corée	2010	3.5	71.8	26.7	0.9	0.4	0.2	...
	2015	4.2	74.5	23.7	0.6	0.4	0.8	...
Republic of Moldova	2005	0.4	...	...	...	...	3.8	96.2 ⁴
République de Moldova	2010	0.4	...	...	...	...	7.4	92.6 ⁴
	2015	0.4	...	...	...	...	11.6	88.4 ⁴
Romania	2005	0.4	37.2	53.5	4.0	~0.0	5.3	...
Roumanie	2010	0.5	32.3	54.4	2.2	~0.0	11.1	...
	2015	0.5	37.3	41.7	1.7	0.1	19.2	...
Russian Federation	2005	1.1	30.0	61.9	0.4	~0.0	7.6	...
Fédération de Russie	2010	1.1	25.5	70.3	0.5	0.1	3.5	...
	2015	1.1	26.5	69.5	1.2	0.2	2.6	...
Saint Vincent & Grenadines								
Saint-Vincent-Grenadines	2002	0.1	...	...	...	...	...	...
Saudi Arabia ¹⁸	2005 ¹	~0.0	...	...	...	...	...	...
Arabie saoudite ¹⁸	#2010 ⁶	0.9	...	...	...	...	...	...
	2013 ⁶	0.8	...	...	...	...	...	...
Senegal								
Sénégal	2010	0.5	4.1	47.6	~0.0	3.2	40.5	4.5
Serbia	2005 ^{22,23}	0.4	...	...	...	...	...	...
Serbie	2010	0.7 ²²	8.6	59.4	28.4	~0.0	3.6	...
	2015	0.9 ²²	12.8	50.6	24.0	~0.0	12.6	...
Seychelles								
Seychelles	2005	0.3	...	...	...	...	...	...
Singapore	2005	2.2	58.8	36.4	0.5	...	4.4	...
Singapour	2010	2.0	53.1	40.2	1.8	...	4.9	...
	2014	2.2	54.1	37.1	2.0	...	6.8	...
Slovakia	2005	0.5	36.6	57.0 ²⁰	0.3	~0.0	6.0	...
Slovaquie	2010	0.6	35.1	49.6 ²⁰	0.4	0.3	14.7	...
	2015	1.2	25.1	31.9 ²⁰	3.3	0.3	39.4	...
Slovenia	2005	1.4	54.8	37.2	0.7	~0.0	7.3	...
Slovénie	2010	2.1	58.4	35.3	0.3	0.1	6.0	...
	*2015	2.2	69.2	19.9	0.3	~0.0	10.6	...
South Africa	2005	0.9	43.9	38.2	3.0	1.4	13.6	...
Afrique du Sud	2010	0.7	40.1	44.5	0.1	3.2	12.1	...
	2013	0.7	41.4	42.9	0.7	2.1	12.9	...
Spain	2005	1.1	46.3	43.0	4.1	0.9	5.7	...
Espagne	2010	1.4	43.0	46.6	3.9	0.7	5.7	...
	2014	1.2	46.4	41.4	4.1	0.7	7.4	...
	2015	1.2	...	...	...	...	...	...
Sri Lanka	#2000 ¹	0.1	7.7	51.7	18.5	~0.0	4.5	17.5
Sri Lanka	#2004	0.2	0.6 ¹⁰	67.5 ¹⁴	...	...	22.6	9.3
	2010	0.1	# 40.9	55.9	0.2	~0.0	2.7	0.3
	2013	0.1	40.7	53.9	...	...	5.0	0.4
State of Palestine ³	2010	0.4	0.9	21.3	2.3	4.9	52.4	18.2
État de Palestine ³	2013	0.5	3.8	29.4	4.6	17.1	24.2	21.1
Sudan ⁶								
Soudan ⁶	2005	0.3	...	...	...	...	...	...

Country or area Pays ou zone	Year Année	Expenditure on R&D as a % of GDP Dépenses en R&D en % du PIB	Source of funds (%) / Source de financement (%)					
			Business enterprises Entreprises	Government Etat	Higher education Enseigne- ment supérieur	Private non- profit Institut. Privées sans but lucratif	Funds from abroad Fonds de l'étranger	Not specified/ Non précisé
Sweden Suède	#2005	3.4	63.9	24.4	0.7	2.9	8.1	...
	2009	3.4	59.5	27.0	0.6	2.6	10.3	...
	*2010	3.2	...	...	...	...	...	...
	2013 ²⁰	3.3	61.0	28.3	1.0	3.1	6.7	...
	*2015	3.3	...	...	...	...	...	...
Switzerland Suisse	2004	2.7	69.7	22.7	1.5	0.8	5.2	...
	2008	2.7	68.2	22.8	2.3	0.7	6.0	...
	2012	3.0	60.8	25.4	1.2	0.6	12.1	...
Tajikistan Tadjikistan	2001	0.1	0.6	97.3	...	...	0.2	1.9
	2005	0.1	2.2 ¹⁶	91.5 ¹⁶	0.3 ¹⁶	...	...	5.5 ¹⁶
	2006	0.1	0.2 ¹⁶	76.3 ¹⁶	0.2 ¹⁶	...	0.6 ¹⁶	19.9 ¹⁶
	2010	0.1 ^{2,3}	1.9 ¹⁶	76.2 ¹⁶	0.4 ¹⁶	...	...	19.7 ¹⁶
	2011	0.1 ^{2,3}	1.6 ¹⁶	82.1 ¹⁶	0.1 ¹⁶	...	...	15.1 ¹⁶
	2013	0.1 ^{2,3}	...	92.5	0.2	...	0.2	7.1
	2015 ^{2,3}	0.1	...	100.0	...	...	...	...
Thailand Thaïlande	2005	0.2	48.7	31.5	14.9	0.7	1.8	2.4
	2009	0.2	41.4	37.9	17.8	0.3	1.0	1.6
	2015	0.6	66.2	20.5	5.5	0.1	1.5	6.0
TFYR of Macedonia ex-R.Y. de Macédoine	2002	0.2	* 7.8	* 76.3	* 7.3	* ~0.0	* 8.6	...
	2005	0.2	...	...	...	...	...	...
	2010	0.2	...	...	...	...	...	...
	2015	0.4	16.8	52.9	25.0	0.1	5.2	...
Togo	2010	0.3 ³	...	88.3	...	...	11.7	...
	2012	0.2 ³	...	84.9	...	3.1	12.1	...
	2014 ³	0.3 ²	...	94.5	...	...	5.5	...
Trinidad and Tobago Trinité-et-Tobago	2005	0.1	...	...	...	...	...	...
	2010	~0.0	...	...	...	...	...	...
	2014	0.1	...	...	...	...	...	...
Tunisia Tunisie	2005	0.7	14.4	79.2	...	...	6.4	...
	2010	0.7	17.1	78.1	...	...	4.8	...
	2015	* 0.6	18.9	77.1	...	...	3.9	...
Turkey Turquie	2005	0.6	43.3 ⁴	50.1 ⁴	...	5.8 ⁴	0.8	...
	2010	0.8	45.1	30.8	19.6	3.7	0.8	...
	2014	1.0	50.9	26.3	18.4	3.4	1.1	...
Uganda Ouganda	2002	0.4	1.3	33.8	1.3	...	63.6	...
	2005	0.2	1.7	41.5	...	...	56.9	...
	2010	0.5	13.7	21.9	1.0	6.0	57.3	...
Ukraine Ukraine	2005	1.0	# 32.3	# 40.1	# 0.1	# 0.4	# 24.4	# 2.8
	2010	0.8	26.2	46.7	0.2	0.1	25.7	1.1
	2015	0.6 ²²	40.3	39.4	0.2	~0.0	18.2	2.0
United Arab Emirates Émirats arabes unis	2014	0.7	74.3 ²⁴	25.7 ¹¹	...	...	...	...
	2015	0.9	...	...	...	...	...	...
United Kingdom Royaume-Uni	2005	1.6	42.1	32.7	1.2	4.7	19.3	...
	*2010	1.7	44.0	32.3	1.2	4.8	17.6	...
	*2015	1.7	48.4	28.0	1.2	4.8	17.6	...
United Rep. of Tanzania Rép.-Unie de Tanzanie	2010	0.4 ^{1,3}	0.1	57.5	0.3	0.1	42.0	...
	2013 ³	0.5	...	...	...	...	...	...
United States of America États-Unis d'Amérique	2005 ⁷	2.5	63.3	30.8	2.8	3.1	...	...
	2010	2.7 ⁷	56.9 ⁷	32.6 ⁷	3.0 ⁷	3.8 ⁷	3.7	...
	2015	* 2.8 ⁷	64.2 ⁷	* 24.0 ⁷	* 3.4 ⁷	* 3.7 ⁷	* 4.7	...
United States Virgin Islands ¹ Îles Vierges américaines ¹	2002	...	...	70.8	28.0	1.2	...	...
	2005	...	...	100.0	...	...	...	...
	2007	...	...	100.0	...	...	...	...
Uruguay Uruguay	2000	0.2	39.3	20.3	35.7	...	4.8	~0.0
	2002	0.2	46.7	17.1	31.4	0.1	4.7	...
	2010	0.3	47.1	22.9	26.6	0.9	1.7	0.8
	2011	0.3	8.5	30.8	45.2	0.1	6.5	8.9
	2014	0.3	4.6	28.6	59.2	0.3	7.4	...

Country or area Pays ou zone	Year Année	Expenditure on R&D as a % of GDP Dépenses en R&D en % du PIB	Source of funds (%) / Source de financement (%)					
			Business enterprises Entreprises	Government Etat	Higher education Enseigne- ment supérieur	Private non- profit Institut. Privées sans but lucratif	Funds from abroad Fonds de l'étranger	Not specified/ Non précisé
Uzbekistan	2005	0.2	...	...	...	...	...	...
Ouzbékistan	2010	0.2	...	...	...	...	...	...
	2015	0.2	38.9	57.0 ¹⁴	...	...	1.2	2.9
Viet Nam	2002	0.2	18.1	74.1	0.7 ¹⁰	...	6.3	0.8
Viet Nam	2013	0.4	40.0	55.9	0.8	...	1.5	1.8
Zambia	2005 ¹	~0.0	...	...	...	...	...	...
Zambie	#2008	0.3	3.2	94.8	...	0.3	1.6	...

Source:

United Nations Educational, Scientific and Cultural Organization (UNESCO), Montreal, the UNESCO Institute for Statistics (UIS) statistics database, last accessed November 2017.

Source:

Organisation des Nations Unies pour l'éducation, la science et la culture (UNESCO), Montréal, base de données statistiques de l'Institut de statistique (ISU) de l'UNESCO, dernier accès novembre 2017.

- 1 Partial data.
- 2 Excluding private non-profit.
- 3 Excluding business enterprise.
- 4 Including other classes.
- 5 Data have been converted from the former national currency using the appropriate conversion rate.
- 6 Overestimated or based on overestimated data.
- 7 Excluding most or all capital expenditures.
- 8 Higher Education only.
- 9 For statistical purposes, the data for China do not include those for the Hong Kong Special Administrative Region (Hong Kong SAR), Macao Special Administrative Region (Macao SAR) and Taiwan Province of China.
- 10 Including private non-profit.
- 11 Government only.
- 12 S&T budget instead of R&D expenditure.
- 13 Including business enterprise.
- 14 Including higher education.
- 15 Including Government.
- 16 The sum of the breakdown does not add to the total.
- 17 Excluding government.
- 18 R&D budget instead of R&D expenditure or based on R&D budget.
- 19 Excluding Defence (all or mostly).
- 20 Underestimated or based on underestimated data.
- 21 Excluding social sciences and humanities.
- 22 Excluding data from some regions, provinces or states.
- 23 Do not correspond exactly to Frascati Manual recommendations.
- 24 Business enterprise only.

- 1 Données partielles.
- 2 Non compris les organisations privées à but non lucratif.
- 3 Ne comprend pas les entreprises commerciales.
- 4 Comprend d'autres catégories.
- 5 Les données ont été converties à partir de l'ancienne monnaie nationale et du taux de conversion approprié.
- 6 Surestimé ou fondé sur des données surestimées.
- 7 Exclut toutes ou presque toutes des dépenses en capital.
- 8 Enseignement supérieur seulement.
- 9 Pour la présentation des statistiques, les données pour la Chine ne comprennent pas la région administrative spéciale de Hong Kong (Hong Kong RAS), la région administrative spéciale de Macao (Macao RAS) et la province chinoise de Taïwan.
- 10 Y compris les fonds privés à but non lucratif.
- 11 Etat seulement.
- 12 Budget pour la science et technologie au lieu des dépenses de recherche et développement.
- 13 Y compris les fonds d'entreprises.
- 14 Y compris l'enseignement supérieur.
- 15 Y compris l'état.
- 16 La somme de toutes les valeurs diffère du total.
- 17 Non compris l'état.
- 18 Basé sur le budget de la recherche-développement au lieu des dépenses.
- 19 À l'exclusion de la défense (en totalité ou en grande partie).
- 20 Sous-estimé ou basé sur des données sous-estimées.
- 21 Non compris les sciences sociales et les sciences humaines.
- 22 Non compris les données de certaines régions, provinces ou états.
- 23 Ne correspond pas exactement aux recommandations du Manuel de Frascati.
- 24 Les entreprises commerciales seulement.