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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 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
Total, all countries or areas	2005	1.5	...	...	...	...	...	...
Total, tous pays ou zones	2010	1.6	...	...	...	...	...	...
	2015	1.7	...	...	...	...	...	...
	2018	1.7	...	...	...	...	...	...
Northern Africa Afrique septentrionale	2005	0.3	...	...	...	...	...	...
	2010	0.5	...	...	...	...	...	...
	2015	0.6	...	...	...	...	...	...
	2018	0.6	...	...	...	...	...	...
Sub-Saharan Africa Afrique subsaharienne	2005	0.4	...	...	...	...	...	...
	2010	0.3	...	...	...	...	...	...
	2015	0.4	...	...	...	...	...	...
	2018	0.4	...	...	...	...	...	...
Northern America Amérique septentrionale	2005	2.5	...	...	...	...	...	...
	2010	2.7	...	...	...	...	...	...
	2015	2.6	...	...	...	...	...	...
	2018	2.7	...	...	...	...	...	...
Latin America & the Caribbean Amérique latine et Caraïbes	2005	0.6	...	...	...	...	...	...
	2010	0.7	...	...	...	...	...	...
	2015	0.7	...	...	...	...	...	...
	2018	0.6	...	...	...	...	...	...
Central Asia Asie centrale	2005	0.3	...	...	...	...	...	...
	2010	0.2	...	...	...	...	...	...
	2015	0.2	...	...	...	...	...	...
	2018	0.1	...	...	...	...	...	...
Eastern Asia Asie orientale	2005	2.0	...	...	...	...	...	...
	2010	2.2	...	...	...	...	...	...
	2015	2.4	...	...	...	...	...	...
	2018	2.5	...	...	...	...	...	...
South-eastern Asia Asie du Sud-Est	2005	0.6	...	...	...	...	...	...
	2010	0.7	...	...	...	...	...	...
	2015	0.9	...	...	...	...	...	...
	2018	0.9	...	...	...	...	...	...
Southern Asia Asie méridionale	2005	0.7	...	...	...	...	...	...
	2010	0.7	...	...	...	...	...	...
	2015	0.6	...	...	...	...	...	...
	2018	0.6	...	...	...	...	...	...
Western Asia Asie occidentale	2005	0.7	...	...	...	...	...	...
	2010	0.7	...	...	...	...	...	...
	2015	0.8	...	...	...	...	...	...
	2018	0.9	...	...	...	...	...	...
Europe Europe	2005	1.6	...	...	...	...	...	...
	2010	1.7	...	...	...	...	...	...
	2015	1.8	...	...	...	...	...	...
	2018	1.9	...	...	...	...	...	...
Oceania Océanie	2005	1.8	...	...	...	...	...	...
	2010	2.2	...	...	...	...	...	...
	2015	1.8	...	...	...	...	...	...
	2018	1.8	...	...	...	...	...	...
Australia and New Zealand Australie et Nouvelle-Zélande	2005	1.9	...	...	...	...	...	...
	2010	2.2	...	...	...	...	...	...
	2015	1.8	...	...	...	...	...	...
	2018	1.8	...	...	...	...	...	...
Albania ¹ Albanie ¹	2008	0.2	3.3	80.8	8.6	...	7.4	...
Algeria Algérie	2005 ¹	0.1
	2017	# 0.5	6.7	93.1	0.1	...	~0.0	~0.0

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			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
American Samoa ¹	2005	0.4	...	...	...	...	...	...
Samoa américaines ¹	2006	0.4	...	...	...	...	...	...
Angola ^{1,2,3}								
Angola ^{1,2,3}	2016	~0.0	...	* 100.0 ⁴	...	...	...	...
Argentina	2005	0.4	31.0	59.6	5.7	3.0	0.7	...
Argentine	2008	0.5	26.5	67.6	4.4	1.0	0.6	...
	2010	0.6	...	...	...	...	...	...
	2015	0.6	19.2	74.8	2.0	0.5	3.5	...
	2018	0.5	20.7	66.6	1.7	0.8	10.3	...
Armenia	2005 ¹	0.3	...	77.5	...	...	4.7	17.8
Arménie	2010 ¹	0.2	...	84.5	...	...	11.7	3.8
	2015 ^{2,3}	0.3	...	73.8	...	...	2.3	23.9
	2018 ^{2,3}	0.2	16.7	# 68.7	...	...	5.6	* 9.1
Australia	2004	1.9	54.6	40.3	0.4	1.9	2.9	...
Australie	2008	2.4	61.9	34.6	0.1	1.8	1.6	...
	*2010	2.4	...	...	...	...	...	...
	*2015	1.9	...	...	...	...	...	...
	*2017	1.9	...	...	...	...	...	...
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 ⁵	...	0.5	16.1	...
	2015	3.0	49.7	32.6	0.6	0.5	16.6	...
	2017	3.0	54.7	27.6	0.8	0.3	16.6	...
	*2019	3.2	54.2	29.7	...	0.6	15.5	...
Azerbaijan	2005	0.2 ⁶	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	...	...
	2016	0.2	29.9	68.5	1.4	0.2	...	...
	2017	0.2	32.0	67.2	...	0.7	0.1	...
	2018	0.2	30.8	68.7	...	0.5	...	...
Bahrain								
Bahreïn	2014	0.1	21.8	41.5	21.2	2.0	12.4	1.1
Belarus	2005	0.7 ⁶	21.2	71.9	0.7	...	6.3	...
Bélarus	2008	0.7 ⁶	36.5	57.6	0.3	0.1	5.5	...
	2010	0.7 ⁶	27.1	58.7	...	0.6	13.6	...
	2015	0.5 ⁶	41.3	46.0	...	...	12.7	...
	2018	0.6	45.0	41.8	...	...	13.2	...
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	...
	2015	2.4	58.6	22.5	2.0	0.4	16.5	...
	2017	2.7	63.5	20.0	3.0	0.5	13.0	...
	*2018	2.8	...	...	...	...	...	...
Bermuda ⁷	2010 ⁸	0.2	...	...	...	...	...	...
Bermudes ⁷	2015	0.2	...	...	...	...	...	...
	2018	0.3	...	...	...	...	...	...
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	...	...	53.9	18.9
	2015	0.2	31.4	37.6	14.1	~0.0	16.9	...
	2017	0.2	29.1	41.2	13.1	0.1	16.4	0.1
	2018	0.2	28.9	40.9	9.8	~0.0	20.4	...
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	...

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Brazil Brésil	2005	1.0	50.4	47.7	1.9
	2010	1.2	47.0	51.1	1.8
	2015	1.3	45.5	52.2	2.2
	2018	1.2	43.5	53.6	2.9
Brunei Darussalam Brunéi Darussalam	2003	~0.0 ¹	6.7	86.8	...	...	6.6	...
	#2004	~0.0 ¹	1.6	91.0	7.4	...	...	...
	2018 ⁹	# 0.3	...	# 97.0	# 2.2	...	# 0.1	0.6
Bulgaria Bulgarie	2005	0.4	27.8	63.9	0.4	0.3	7.6	...
	2010	0.6	16.7	43.2	0.5	0.1	39.6	...
	2015	1.0	35.6	20.3	0.1	0.1	43.8	...
	2017	0.7	43.2	24.3	0.1	0.2	32.2	...
	2018	0.8	...	...	...	...	...	...
Burkina Faso Burkina Faso	2005	0.2 ¹	...	100.0	...	...	...	...
	2009	0.2	11.9	9.1	12.2	1.3	59.6	5.9
	#2014 ³	0.2	...	98.4	~0.0	0.1	1.5	...
	2017 ³	0.6	...	93.6	1.6	...	4.8	...
Burundi ¹ Burundi ¹	2008	0.2	...	59.9	0.2	...	39.9	...
	2010	0.1	...	...	...	...	...	...
	2012	0.1	...	...	...	...	...	...
	2018	# 0.2	8.8	# 64.8 ⁴	...	# 26.4	...	...
Cabo Verde ^{1,9} Cabo Verde ^{1,9}	2011	0.1	...	100.0	...	...	...	...
Cambodia Cambodge	2002 ¹	~0.0	...	* 17.9	...	* 43.0	* 28.4	* 10.6
	#2015	0.1	19.4	23.5	0.1	22.1	34.9	...
Canada Canada	2005	2.0	49.3	* 31.8	* 7.3	2.8	8.8	...
	2010	1.8	47.2	* # 34.9	* 7.9	3.5	6.6	...
	2015	1.7	44.0	* 31.6	* 10.0 ¹⁰	4.0 ¹⁰	9.8	...
	*2019	1.5	41.0	32.9	10.9 ¹⁰	4.5 ¹⁰	9.9	...
Chad ^{2,3} Tchad ^{2,3}	2016	0.3	...	100.0 ⁴	...	...	...	...
Chile Chili	2010	0.3	25.4	40.4	12.7	1.7	19.8	...
	2015	0.4	32.8	42.6	11.1	0.6	12.9	...
	2017	* 0.4	* 31.4	* 47.0	* 15.4	1.7	* 4.5	...
China ¹¹ Chine ¹¹	2005	1.3	67.0	26.3	...	...	0.9	...
	2010	1.7	71.7	24.0	...	...	1.3	...
	2015	2.1	74.7	21.3	...	...	0.7	...
	2018	2.1	76.6	20.2	...	...	0.4	...
China, Hong Kong SAR Chine, RAS de Hong Kong	2005	0.8	53.0 ¹²	44.1	0.4	...	2.5	...
	2010	0.7	47.6 ¹²	47.3	0.1	...	4.9	...
	2015	0.8	47.4 ¹²	47.1	~0.0	...	5.5	...
	2018	0.9	49.2 ¹²	46.8	0.2	...	3.7	...
China, Macao SAR Chine, RAS de Macao	*2005	0.1 ¹	0.2	88.0	10.0	0.4	...	1.4
	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
	2018 ¹	0.2	...	66.7	4.1	0.3	...	29.0
Colombia Colombie	2005	0.2	...	...	...	...	...	...
	2010	0.2	23.1	8.9	39.9	27.2	1.0	...
	2015	0.3	44.7	9.6	28.6	16.7	0.4	...
	2017	0.2	49.1	8.2	22.8	19.1	0.5	0.4
	2018	0.2	...	...	...	...	...	...
Costa Rica Costa Rica	2004	0.4	...	...	...	...	...	...
	2009	0.5	28.7	53.0	...	2.8	1.7	13.7
	2010	0.5
	2015	0.4	4.7	57.4	...	2.9	3.7	31.2
	2018	0.4	1.3 ³	51.9 ³	...	~0.0 ³	2.2 ³	44.6 ¹³

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Côte d'Ivoire ^{1,3}								
Côte d'Ivoire ^{1,3}	2016	0.1
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	0.8	46.6	36.4	2.0	0.5	14.5	...
	2017	0.9	42.6	43.1	3.5	0.1	10.8	...
	*2018	1.0	...	...	...	...	...	...
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	...
	2016	0.3	34.5	62.0	...	...	2.0	1.5
	2018	0.5	42.0	56.4	...	...	1.6	...
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	...
	2013	0.5	15.8	59.5	5.4	0.6	18.8	0.1
	2015	0.5	20.0	50.6	5.8	0.6	23.0	...
	2017	0.6	32.8	38.5	5.4	0.9	22.5	...
	*2018	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	...
	*2018	1.9	33.0	34.1	1.0	0.1	31.8	...
Dem. Rep. of the Congo	2005	# 0.1 ^{14,15}	...	100.0	...	...	...	...
Rép. dém. du Congo	2009	0.1 ^{14,15}	...	100.0	...	...	...	...
	2015 ³	# 0.4 ⁷	~0.0	# 34.5 ⁷	63.8 ⁷	0.2	1.4	...
Denmark	2005	2.4	59.5	27.6	...	2.8	10.1	...
Danemark	2010	2.9	* 61.1	* 28.2 ⁵	...	* 3.5	* 7.2	...
	2015	3.1	59.1	30.2 ⁵	...	4.4	6.3	...
	*2017	3.1	58.5	27.2 ⁵	...	5.4	8.9	...
	*2018	3.0	...	...	...	...	...	...
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 ^{1,14}	0.2	...	...	...	...	...	...
Égypte	2010 ^{2,3}	0.4	...	...	...	...	...	...
	2014	0.6	8.1	91.7 ⁴	...	0.1	0.1	...
	2015	0.7	6.2	93.7 ⁴	...	0.1	...	...
	2018	0.7	3.9	95.4	0.1	~0.0	0.5	...
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
	#2015	0.1	41.9	29.0	21.2	1.1	6.8	...
	2018	0.2	35.2	* 31.9	26.8	0.4	5.6	* 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	...
	2017	1.3	43.6	40.2	1.0	0.3	15.0	...
	*2018	1.4	...	...	...	...	...	...
Eswatini								
Eswatini	2015	0.3	22.3	41.7	...	2.5	33.5	...
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
	2017	# 0.3	1.5	73.4	3.1	1.5	19.1	1.4
Faroe Islands								
Îles Féroé	2003	0.9	20.4	0.3	18.7	60.6 ^{4,7,16}

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Finland Finlande	2005	3.3	66.9	25.7	0.2	1.0	# 6.3	...	
	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	...	
	2017	2.7	58.0	29.0	0.5	1.7	10.8	...	
	2018	2.8	...	...	...	...	...	...
France France	2005	2.1	51.9	38.6	1.0	0.9	7.5	...	
	#2010	2.2	53.5	37.1	1.0	0.8	7.5	...	
	2015	2.3	54.0	34.8	2.6	0.9	7.6	...	
	*2017	2.2	56.1	32.4	2.7	1.0	7.8	...	
	*2018	2.2	...	...	...	...	...	...
Gabon Gabon	2009	0.6	29.3	58.1	9.5	...	3.1	~0.0	
Gambia Gambie	2009 ¹	~0.0	...	...	...	...	...	...
	2011 ⁷	0.1	...	38.5	...	45.6	15.9	...	
	#2018 ^{1,17}	0.1	...	...	...	...	...	...
Georgia Géorgie	2005	0.2	...	...	...	...	...	...
	2013 ¹	# 0.1 ^{9,18}	...	46.7 ^{9,19}	36.1 ^{9,19}	3.1 ^{9,19}	14.7 ^{9,19}	0.4 ^{4,19}	
	2015 ^{1,2,3}	0.3	...	...	...	...	...	...
	2018 ¹	0.3 ^{2,3}	1.7 ^{2,3}	42.5	42.8 ^{2,3,20}	1.0 ^{2,3}	10.3 ^{2,3}	1.7	
Germany Allemagne	2005	2.4	67.5 ⁵	28.5 ⁵	...	0.3 ⁵	3.7 ⁵	...	
	2010	2.7	65.5 ⁵	30.4 ⁵	...	0.2 ⁵	3.9 ⁵	...	
	2015	2.9	65.6 ⁵	27.9 ⁵	...	0.4 ⁵	6.2 ⁵	...	
	2017	3.1	66.2 ⁵	27.7 ⁵	...	0.3 ⁵	5.8 ⁵	...	
	*2018	3.1	...	...	...	...	...	...
Ghana Ghana	2010	# 0.4	# 0.1	# 68.3	0.3	0.1	31.2	...	
Greece Grèce	2005	0.6	31.1	46.8	1.7	1.5	19.0	...	
	*2010	0.6	# 36.5	48.3	2.3	1.0	11.9	...	
	2015	1.0	31.4	53.1	2.5	0.4	12.7	...	
	*2018	1.2	42.6	40.6	1.9	0.6	14.2	...	
Greenland Groenland	2004	0.6	...	...	...	...	...	...
Guam Guam	2001	...	...	100.0	...	...	...	...
	2005	0.3	...	...	...	...	...	...
Guatemala ¹ Guatemala ¹	2005	~0.0	...	42.1	57.9	...	...	...
	2010	~0.0	...	18.3	30.9	...	50.8	...	
	2015	~0.0	...	27.8	28.2	...	44.0	~0.0	
	2018	~0.0	12.5	8.3	78.8	...	0.4	...	
Honduras Honduras	2004	~0.0	...	...	...	...	...	...
	2015 ¹	# ~0.0	...	82.5	17.5	...	...	...
	2017	~0.0	10.4	44.9	27.4	13.8	3.5	...	
Hungary Hongrie	2005	0.9	39.4 ⁵	49.4 ⁵	...	0.3 ⁵	10.7 ⁵	...	
	2010	1.1	47.4	39.3	...	0.9	12.4	...	
	2015	1.3	49.7	34.6	...	0.7	15.0	...	
	2017	1.3	52.7	31.9	...	0.5	14.9	...	
	2018	1.5	...	...	...	...	...	...
Iceland Islande	2005	2.7	48.0	40.5	...	0.3	11.2	...	
	2009	2.6	47.8	40.2	...	0.6	11.4	...	
	2015	2.2	35.8	30.8	4.0	4.1	25.4	...	
	2018	2.0	40.2	36.0	3.3	1.9	18.6	...	
India Inde	2005	0.8	
	2010	0.8	
	2015	0.7	
	2017	0.7	36.8 ²⁰	63.2 ²⁰	
	*2018	0.7	

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Indonesia Indonésie	2001	~0.0 ¹	14.7 ^{1,12}	84.5	0.2	0.7
	#2009 ¹	0.1
	*2013	0.1
	2018	0.2	8.0	87.7	3.1	0.2	0.1	1.0
Iran (Islamic Republic of) Iran (Rép. islamique d')	2005	0.6	12.2	76.2	11.6	...	...	...
	2008	0.6	30.9	61.6	7.4	...	...	...
	2010 ^{2,21}	0.3	...	...	...	...	...	...
	2015	0.4	...	...	...	...	...	...
	#2017	0.8	...	...	...	...	...	...
Iraq Iraq	2010	~0.0 ^{2,3,18}	...	100.0 ⁴	...	...	...	...
	2015	~0.0	1.1	96.4	2.1	0.3	0.1	...
	2016	~0.0	1.2	96.0	2.0	0.7	0.1	...
	2018	~0.0	1.8	97.3	0.6	0.3	...	...
Ireland Irlande	2005	1.2	57.4	32.0	1.7	0.2	8.6	...
	*2010	1.6	52.2	29.4	0.9	0.5	17.0	...
	*2015	1.2	48.7	26.1	1.0	0.6	23.6	...
	*2016	1.2	49.0	25.8	0.8	0.8	23.6	...
	*2018	1.1	...	...	...	...	...	...
Israel ⁵ Israël ⁵	2005	4.0	56.2	14.5	2.8	1.8	24.7	...
	2010	3.9	36.2	14.2	1.2	1.1	47.3	...
	2015	4.3	33.2	12.8	0.7	0.8	52.5	...
	2017	* 4.8	* 35.8	* 10.6	0.3	* 0.8	* 52.6	...
	*2018	4.9	...	...	...	...	...	...
Italy Italie	2005	1.0	39.7	50.7	0.1	1.6	8.0	...
	2010	1.2	44.7	41.6	0.9	3.1	9.8	...
	2015	1.3	50.0	38.0	1.0	2.7	8.3	...
	2017	1.4	53.7	32.3	0.8	1.5	11.7	...
	*2018	1.4	...	...	...	...	...	...
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	...
	2018	# 3.3	# 79.1	* 14.6	* 5.1	# 0.7	# 0.6	...
Jordan Jordanie	2002	0.3	...	...	...	...	...	...
	2008	0.4	...	...	...	...	...	...
	#2016 ⁷	0.7	...	...	...	...	...	...
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	...
	2015	0.2	36.6	58.8	...	...	1.8	2.8
	2018	0.1	47.4	44.5	...	...	2.7	5.4
Kenya Kenya	#2010	0.8	4.3	26.0	19.0	3.5	47.1	...
Kuwait Koweït	2003 ¹⁴	0.1 ¹	# 4.4	# 94.7	~0.0	...	0.9	...
	2004 ¹⁴	0.1 ¹	6.0	93.2	...	...	0.8	...
	2005 ¹⁴	0.1 ¹	7.3	92.3	...	0.4	...	...
	2009 ¹⁴	0.1 ¹	2.3	96.5	...	...	1.2	...
	2010 ¹⁴	0.1 ¹	5.2	94.8	...	~0.0	...	...
	2014 ^{2,3}	0.4 ⁷	1.0	90.2	5.5	1.1	...	2.3
	#2015 ^{1,2,3}	0.1	...	...	...	...	...	...
	2018 ^{1,2,3}	0.1	...	...	...	...	...	...
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
	2018 ²	0.1	6.9	87.8	0.3	...	4.3	0.6

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Lao People's Dem. Rep. Rép. dém. populaire lao	2002	~0.0 ¹	36.0 ¹	8.0	2.0 ¹	...	54.0 ¹	...
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	20.0	32.7	2.2	...	45.0	...
	2017	0.5	24.1	43.6	2.5	...	29.8	...
	2018	0.6	...	...	...	...	...	...
Lesotho Lesotho	2004 ¹	0.1	...	...	...	...	...	...
	2009 ¹	~0.0	3.4	15.0	2.8	...	...	78.9
	2011 ¹	~0.0 ⁹	...	...	44.7 ¹⁶	...	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	28.5	35.3	1.5	0.3	34.3	...
	2017	0.9	35.4	36.4	3.7	0.1	24.4	...
	*2018	0.9	...	...	...	...	...	...
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	...
	2015	1.3	47.1	47.7	1.6	0.2	3.4	...
	2017	1.3	49.6	43.1	1.4	0.3	5.7	...
	*2018	1.2	...	...	...	...	...	...
Madagascar Madagascar	2005	0.2 ¹	...	89.8 ⁴	...	...	10.2	...
	2009	0.1 ¹	...	89.4 ⁴	...	...	10.6	...
	2010	0.1 ¹	...	# 100.0 ⁴	...	...	...	...
	2011	0.1 ¹	...	100.0 ¹⁶	...	...	...	...
	#2014 ^{1,14}	~0.0	...	...	...	...	...	...
	2017 ^{1,14}	~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	# 49.6	# 35.8	7.0	...	1.7	# 6.0 ²⁰
	2018	1.0	38.2	27.9	25.9	...	5.5	2.5
Mali Mali	2007	0.2 ^{1,21}	10.1 ¹	40.9	...	...	49.0 ¹	...
	2010	0.6 ³	...	# 91.2	...	...	8.8	...
	2015 ³	0.3	0.9	43.6	0.1	0.3	32.7	22.4
	2017 ^{1,3}	0.3	0.8	46.0	...	3.0	50.2	...
Malta Malte	2005	0.5	# 46.8	# 25.9	0.4	0.1	26.9	...
	2010	0.6	52.5	34.4	1.3	0.1	11.7	...
	2015	0.7	45.6	32.8	1.1	0.1	20.4	...
	2017	0.6	56.4	31.3	1.3	0.3	10.8	...
	*2018	0.6	...	...	...	...	...	...
Mauritania ^{1,9} Mauritanie ^{1,9}	2018	~0.0	...	92.8	...	7.2	...	...
Mauritius Maurice	2005 ^{7,18}	0.4	...	100.0	...	...	...	...
	2012 ³	# 0.2	0.3	72.4	20.7	0.1	6.4	...
	2018	0.3	4.1	79.4	4.4	...	1.0	11.0
Mexico Mexique	2005	0.4	41.5	49.2	7.3	0.9	1.1	...
	2010	0.5	33.0	64.0	2.0	0.5	0.5	...
	2015	0.4	17.4	79.7	1.7	0.5	0.6	...
	*2018	0.3	18.6	76.8	2.8	0.8	0.9	...
Monaco ¹ Monaco ¹	2005	~0.0	...	98.8	...	...	...	1.2
Mongolia Mongolie	2005	0.2 ¹	10.4	77.8	0.8	...	4.4	6.5
	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
	2016 ¹	0.2	4.9	86.3	3.7	0.8	2.1	2.1
	2018 ¹	0.1	8.1	80.9	7.1	...	3.5	0.4

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Montenegro Monténégro	2005	0.9
	2007	1.1
	2015	0.4	29.9	57.8	6.4	~0.0	5.9	...
	2017	0.3	18.7	64.1	6.9	...	10.3	...
	2018	0.4	...	...	...	...	...	...
Morocco Maroc	2003	0.6	12.3	40.3	47.4	...	...	...
	2010	0.7	29.9	23.1	45.3	...	1.7	...
Mozambique Mozambique	2002 ^{7,15}	0.4	...	34.7	...	...	65.3	...
	2010	# 0.4 ³	...	18.8 ⁴	...	3.0	78.1	...
	2015	0.3	0.5 ¹	43.5	13.3	...	39.9	2.8
Myanmar Myanmar	2002 ¹	0.2	...	...	...	...	...	...
	2017 ^{2,3}	# ~0.0 ¹	...	77.4 ⁴	...	~0.0	22.5	...
Namibia Namibie	2010	0.1 ^{1,21}	19.8	78.6	...	...	1.5	...
	2014 ¹	0.4	11.1	63.2	6.0	3.9	15.8	...
Nepal ^{1,18} Népal ^{1,18}	2010	0.3	...	...	...	...	...	...
Netherlands Pays-Bas	2005	1.8	46.3	38.8	0.3	2.6	12.0	...
	2009	1.7	45.1	40.9	0.3	2.8	10.8	...
	2010	1.7	...	...	...	...	...	...
	2015	2.0	48.6	33.1	0.2	2.6	15.5	...
	2017	2.0	51.6	31.4	0.2	2.5	14.3	...
	* #2018	2.2	...	...	...	...	...	...
New Zealand Nouvelle-Zélande	2005	1.1	41.1	43.2	8.9	1.7	5.2	...
	2009	1.3	39.0	44.7	8.3	2.8	5.2	...
	2015	1.2	43.8	37.1	8.3	3.1	7.7	...
	2017	1.3	46.4	35.8	7.6	2.5	7.7	...
Nicaragua Nicaragua	2002	~0.0	...	...	...	...	...	...
	2015 ⁹	0.1	...	...	...	...	...	...
Nigeria Nigéria	2007	0.1	0.2	96.4	0.1	1.7	1.0	0.6
North Macedonia Macédoine du Nord	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	...
	2018	0.4	30.1	45.2	20.2	0.2	4.3	...
Norway Norvège	2005	1.5	46.8	43.6	0.7	0.9	8.1	...
	2009	1.7	43.6	46.8	0.4	1.0	8.2	...
	2010	1.7	...	...	...	...	...	...
	2015	1.9	44.2	44.9	0.4	1.2	9.2	...
	2017	2.1	42.8	46.7	0.4	1.2	8.8	...
	*2018	2.1	...	...	...	...	...	...
Oman Oman	2012	0.2	29.9	47.8	22.0	0.3	~0.0	...
	2013	0.2	24.5	48.6	24.4	0.1	...	* 2.3
	2015	0.3	21.4	55.7	22.8	0.2	...	...
	2018 ¹	0.2	31.8	43.3	19.1	4.3	1.5	...
Pakistan Pakistan	2005	0.4 ^{2,3}	...	87.0	11.9	...	0.3	0.8
	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
	2017	0.2 ^{2,3}	...	61.8	35.1	0.3	1.3	1.4
Panama Panama	2003	0.3	0.6	25.5	1.8	1.0	71.0	0.1
	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
	2015	0.1	0.9	26.4	0.8	14.8	57.2	~0.0
	2016	0.1	0.5	48.0	6.0	6.7	38.8	...
	2017	0.1	1.5	55.7	...	8.0	34.7	0.1
Papua New Guinea ³ Papouasie-Nvl-Guinée ³	2016	~0.0 ¹	4.5	38.7	7.6	0.8	39.7	8.8

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Paraguay	2005	0.1	# 0.3	# 74.9	# 8.6	# 2.0	# 14.2	...	
Paraguay	2008	~0.0	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	
	2018 ³	0.1	0.4	69.2	3.7	8.2	13.6	4.9	
Peru	2004	0.2	...	...	...	...	...	...
Pérou	2015	0.1	...	...	...	...	...	...
	2018	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	
	2015	0.2	38.0	49.4	9.9	0.4	1.8	0.4	
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	...	
	2017	1.0	52.5	38.3	3.0	0.3	6.0	...	
	*2018	1.2	...	...	...	...	...	...
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	...	
	2015	1.2	42.7	44.3	4.4	1.3	7.4	...	
	2017	1.3	46.5	41.0	3.9	1.2	7.3	...	
	*2018	1.3	...	...	...	...	...	...
Puerto Rico	2009	0.5	...	...	...	...	...	...
Porto Rico	2015	0.4	69.4	23.1	6.6	0.3	...	0.6	
Qatar	2015	0.5	7.1	42.6	20.6	27.8	1.9	~0.0	
Qatar	2018	0.5	9.3	32.4	45.1	12.7	0.5	~0.0	
Republic of Korea	2005 ⁵	2.5	75.0	23.0	0.9	0.4	0.7	...	
République de Corée	2010	3.3	71.8	26.7	0.9	0.4	0.2	...	
	2015	4.0	74.5	23.7	0.6	0.4	0.8	...	
	2018	4.5	76.6	20.5	0.6	0.3	1.9	...	
Republic of Moldova	2005	0.4	...	...	...	...	3.8	96.2 ²⁰
République de Moldova	2010	0.4	...	...	...	...	7.4	92.6 ²⁰
	2015	0.3	...	...	...	...	11.6	88.4 ²⁰
	2016	0.3	...	...	...	...	4.2	95.8 ²⁰
	2018	0.3	15.5	76.7	2.8	...	5.0	...	
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	...	
	2017	0.5	54.4	35.9	1.7	~0.0	7.9	...	
	2018	0.5	...	...	...	...	...	...
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	...	
	2018	1.0	29.5	67.0	0.9	0.3	2.3	...	
Rwanda	2016	0.6	0.6	64.5	0.4	0.7	33.7	...	
Saint Vincent & Grenadines	2002	0.1	...	...	...	...	...	...
Saint-Vincent-Grenadines	2005 ¹	~0.0	...	...	...	...	...	...
Saudi Arabia ¹⁸	#2010 ⁷	0.9	...	...	...	...	...	...
Arabie saoudite ¹⁸	2013 ⁷	0.8	...	...	...	...	...	...
Senegal	2010	0.4	4.1	47.6	~0.0	3.2	40.5	4.5	
Sénégal	2015 ³	0.6	2.1	85.4	0.1	4.5	7.9	...	
Serbia	2005 ^{5,22}	0.4	...	...	...	...	...	...
Serbie	2010	0.7 ²²	8.6	59.4	28.4	~0.0	3.6	...	
	2015	0.8 ²²	12.8	50.6	24.0	~0.0	12.6	...	
	2018	0.9 ²²	10.0	43.1	25.3	~0.0	21.6	...	
Seychelles	2005	0.3	
Seychelles	2016	# 0.2	2.0 ³	56.1 ³	4.5 ³	3.2 ³	33.9 ³	* 0.3 ³	

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Singapore Singapour	2005	2.1	58.6	35.7	1.3	...	4.4	...	
	2010	1.9	51.8	41.2	2.0	...	5.0	...	
	2015	2.2	52.8	38.2	2.2	...	6.8	...	
	2017	1.9	52.2	37.4	3.3	...	7.1	...	
Slovakia Slovaquie	2005	0.5	36.6	* 57.0	0.3	~0.0	6.0	...	
	2010	0.6	35.1	* 49.6	0.4	0.3	14.7	...	
	2015	1.2	25.1	31.9	3.3	0.3	39.4	...	
	2018	0.8	48.8	38.0	1.7	0.3	11.2	...	
Slovenia Slovénie	2005	1.4	54.8	37.2	0.7	~0.0	7.3	...	
	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	...	
	2017	1.9	63.1	22.9	0.5	0.4	13.1	...	
	*2018	2.0	...	...	...	...	...	...
South Africa Afrique du Sud	2005	0.9	43.9	38.2	3.0	1.4	13.6	...	
	2010	0.7	40.1	44.5	0.1	3.2	12.1	...	
	2015	0.8	38.9	44.6	0.1	3.3	13.0	...	
	2017	0.8	41.5	46.7	0.2	1.5	10.2	...	
Spain Espagne	2005	1.1	46.3	43.0	4.1	0.9	5.7	...	
	2010	1.4	43.0	46.6	3.9	0.7	5.7	...	
	2015	1.2	45.8	40.9	4.3	0.9	8.0	...	
	2017	1.2	47.8	38.9	4.3	0.8	8.2	...	
	2018	1.2	...	...	...	...	...	...
Sri Lanka Sri Lanka	#2000	* 0.1 ¹	* 7.7 ¹	51.7 ¹	* 18.5 ¹	...	* 4.5	* 17.5	
	#2004	0.2	0.6	67.5 ⁴	...	...	22.6	9.3
	2010	0.1	# 40.9	55.9	0.2	...	2.7	0.3	
	2015	0.1	34.4	59.6	...	2.3	1.5	2.1	
	2017	0.1	40.3	46.6	...	...	7.3	5.9
State of Palestine ³ État de Palestine ³	2010	0.4	0.9	21.3	2.3	4.9	52.4	18.2	
	2013	0.5	3.8	29.4	4.6	17.1	24.2	21.1	
Sudan Soudan	*2005	0.3	...	...	...	...	...	...
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	3.3	61.0	28.3	1.0	3.1	6.7	...	
	2015	3.2 ¹⁹	57.3	...	0.9	3.3	...	...
	2017	3.4 ¹⁹	60.8	25.0	0.7	3.3	10.1	...	
	*2018	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	...	
	2015	3.4	63.5	24.4	1.5	0.5	10.2	...	
	2017	3.4	67.0	25.9	1.4	0.5	5.2	...	
Syrian Arab Republic ^{2,3} République arabe syrienne ^{2,3}	2015	~0.0	...	...	...	...	...	...
Tajikistan Tadjikistan	2001	0.1	0.6	97.3	...	...	0.2	1.9
	2005	0.1	2.2 ¹⁹	91.5 ¹⁹	0.3 ¹⁹	...	...	5.5 ¹⁹
	2006	0.1	0.2 ¹⁹	76.3 ¹⁹	0.2 ¹⁹	...	0.6 ¹⁹	19.9 ¹⁹	
	2010	0.1 ^{2,3}	1.9 ¹⁹	76.2 ¹⁹	0.4 ¹⁹	...	...	19.7 ¹⁹
	2011	0.1 ^{2,3}	1.6 ¹⁹	82.1 ¹⁹	0.1 ¹⁹	...	...	15.1 ¹⁹
	2013	0.1 ^{2,3}	...	92.5	0.2	...	0.2	7.1	
	2015 ^{2,3}	0.1	...	100.0	...	...	...	...
	2018 ^{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	
	2017	1.0	80.8	12.2	5.7	0.5	0.7	0.1	

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Togo	2010	0.2	...	88.3	11.7	...
Togo	2012	0.2 ³	...	84.9	3.1	12.1	...
	2014 ³	0.3 ²	...	94.5	5.5	...
Trinidad and Tobago	2005	0.1
Trinité-et-Tobago	2010	~0.0	...	...	...	...	...	...	...
	2015	0.1	...	...	...	...	...	...	...
	2018	0.1	13.6	62.5	...	* 0.1	...	23.9	0.1
Tunisia	2005	0.7	14.4	79.2	...	...	...	6.4	...
Tunisie	2010	0.7	17.1	78.1	...	...	...	4.8	...
	2015	* 0.6	18.9	77.1	...	...	...	3.9	...
	2018	0.6	...	...	...	...	...	...	...
Turkey	2005	0.6	43.3 ⁵	50.1 ⁵	...	5.8 ⁵	...	0.8	...
Turquie	2010	0.8	38.2	43.1	16.8	0.1	...	1.7	...
	2015	0.9	44.6	38.5	15.0	~0.0	...	1.9	...
	2017	1.0	49.4	33.6	13.3	0.1	...	3.5	...
Uganda	2002	0.4	1.3	33.8	1.3	...	...	63.6	...
Ouganda	2005	0.2	1.7	41.5	...	...	...	56.9	...
	2010	0.4	13.7	21.9	1.0	6.0	...	57.3	...
	2014	# 0.1	# 3.4	37.9	2.3	3.3	...	52.4	0.7
Ukraine	2005	1.0	# 32.3	# 40.1	# 0.1	# 0.4	# 24.4	# 2.8	...
Ukraine	2010	0.8	26.2	46.7	0.2	0.1	...	25.7	1.1
	2014	0.7 ²²	35.2	43.8	0.2	~0.0	...	19.8	1.1
	2015	0.6 ²²	40.3	39.4	0.2	...	...	18.2	2.0
	2018	0.5 ²²	30.5	46.3	0.3	0.1	...	21.7	1.1
United Arab Emirates	2014	0.7	74.3 ²³	25.7 ¹⁴	...	...	...	...	...
Émirats arabes unis	2015	0.9	...	...	...	...	...	...	...
	#2018	1.3	...	...	...	...	...	...	...
United Kingdom	2005	1.6	42.1	32.7	1.2	4.7	...	19.3	...
Royaume-Uni	*2010	1.6	44.0	32.3	1.2	4.8	...	17.6	...
	2015	1.6	49.0	27.7	1.4	4.9	...	17.1	...
	2017	1.7	53.7	26.0	0.7	5.2	...	14.4	...
	*2018	1.7	...	...	...	...	...	...	...
United Rep. of Tanzania	2010	0.4 ¹³	0.1	57.5	0.3	0.1	...	42.0	...
Rép.-Unie de Tanzanie	2013 ³	0.5	...	...	...	...	...	...	...
United States of America	2005 ⁵	2.5	63.3	30.8	2.8	3.1	...	...	...
États-Unis d'Amérique	2010	2.7 ⁵	56.9 ⁵	32.6 ⁵	3.0 ⁵	3.8 ⁵	...	3.7	...
	2015	2.7 ⁵	62.5 ⁵	25.3 ⁵	3.5 ⁵	3.7 ⁵	...	5.0	...
	2018	* 2.8 ⁵	* 62.4 ⁵	* 23.0 ⁵	* 3.6 ⁵	* 3.7 ⁵	...	* 7.3	...
United States Virgin Islands ¹	2002	0.1	...	70.8	28.0	1.2	...	...	...
Îles Vierges américaines ¹	2005	~0.0	...	100.0	...	...	...	...	...
	2007	~0.0	...	100.0	...	...	...	...	...
Uruguay	2000	0.2	39.3	20.3	35.7	...	...	4.8	~0.0
Uruguay	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
	2015	0.4	4.6	28.6	59.2	0.3	...	7.4	...
	2018	0.4	4.6	28.2	59.5	0.3	...	7.4	...
Uzbekistan	2005	0.2	52.7	43.1 ⁴	...	...	...	0.6	3.6
Ouzbékistan	2010	0.2	35.1	57.8 ⁴	...	...	...	2.4	4.7
	2015	0.2	38.9	57.0 ⁴	...	...	...	1.2	2.9
	2018	0.1	42.4	54.3 ⁴	...	...	...	0.3	3.0
Venezuela (Boliv. Rep. of)	2005	0.2	...	...	...	...	...	...	...
Venezuela (Rép. boliv. du)	2010	0.2	...	...	...	...	...	...	...
	2014	0.3	...	59.6	8.3	...	...	...	32.0
	2015	...	...	89.1	10.9	...	...	...	...
	#2016	...	...	* 91.1	8.9	...	...	...	...

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 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	
Viet Nam	2002	0.2	18.1	74.1	0.7 ¹²	...	6.3	0.8	
Viet Nam	2015	0.4	58.1	33.0	0.9	...	2.9	5.0	
	2017	0.5	64.1	26.9	1.4	...	4.5	3.1	
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 June 2020.

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 juin 2020.

- 1 Partial data.
- 2 Excluding private non-profit.
- 3 Excluding business enterprise.
- 4 Including higher education.
- 5 Do not correspond exactly to Frascati Manual recommendations.
- 6 Data have been converted from the former national currency using the appropriate conversion rate.
- 7 Overestimated or based on overestimated data.
- 8 Excluding most or all capital expenditures.
- 9 Higher Education only.
- 10 Underestimated or based on underestimated data.
- 11 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.
- 12 Including private non-profit.
- 13 Including business enterprise.
- 14 Government only.
- 15 S&T budget instead of R&D expenditure.
- 16 Including Government.
- 17 Excluding Higher Education.
- 18 Based on R&D budget instead of R&D expenditure.
- 19 The sum of the breakdown does not add to the total.
- 20 Including other classes.
- 21 Excluding government.
- 22 Excluding data from some regions, provinces or states.
- 23 Business enterprise only.

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