

Table 4-4
International comparisons of gross domestic expenditures on R&D and R&D share of gross domestic product, by region/country/economy: 2013 or most recent year

Region/country/economy	GERD (PPP \$millions)	GERD/GDP (%)
North America		
United States (2013) ^a	456,977.1	2.73
Canada (2013)	24,565.4	1.62
Mexico (2013)	11,543.1	0.50
South America		
Brazil (2011)	27,430.0	1.21
Argentina (2013)	5,437.9	0.58
Chile (2013)	1,494.2	0.39
Colombia (2012)	859.6	0.17
Europe		
Germany (2013)	100,991.4	2.85
France (2013)	55,218.2	2.23
United Kingdom (2013)	39,858.8	1.63
Italy (2013)	26,520.4	1.25
Spain (2013)	19,133.4	1.24
Netherlands (2013)	15,377.4	1.98
Sweden (2013)	14,151.3	3.30
Switzerland (2012)	13,251.4	2.96
Austria (2013)	10,603.4	2.95
Belgium (2013)	10,603.4	2.28
Poland (2013)	7,918.1	0.87
Denmark (2013)	7,513.4	3.06
Finland (2013)	7,175.6	3.32
Czech Republic (2013)	5,812.9	1.91
Norway (2013)	5,513.8	1.65
Portugal (2013)	3,942.7	1.36
Ireland (2012)	3,271.5	1.58
Hungary (2013)	3,249.6	1.41
Ukraine (2011)	2,404.1	0.74
Greece (2013)	2,213.4	0.78

Region/country/economy	GERD (PPP \$millions)	GERD/GDP (%)
Slovenia (2013)	1,537.8	2.59
Romania (2013)	1,452.9	0.39
Slovak Republic (2013)	1,190.6	0.83
Belarus (2011)	984.0	0.70
Serbia (2012)	841.3	0.99
Bulgaria (2012)	749.1	0.64
Croatia (2012)	672.4	0.75
Lithuania (2012)	656.1	0.90
Estonia (2013)	592.2	1.74
Luxembourg (2013)	571.5	1.16
Middle East		
Turkey (2013)	13,315.1	0.95
Israel (2013)	11,032.9	4.21
Iran (2008)	5,969.6	0.75
United Arab Emirates (2011)	1,755.3	0.49
Saudi Arabia (2009)	503.2	0.07
Africa		
South Africa (2012)	4,870.7	0.76
Egypt (2011)	2,200.5	0.43
Morocco (2010)	1,108.1	0.73
Tunisia (2009)	1,042.4	1.10
Kenya (2010)	646.3	0.98
Nigeria (2007)	644.0	0.22
Central Asia		
Russian Federation (2013)	40,694.5	1.12
South Asia		
India (2011)	36,195.5	0.81
Pakistan (2011)	1,526.9	0.33
East and Southeast Asia		
China (2013)	336,495.4	2.08
Japan (2013)	160,246.8	3.47
South Korea (2013)	68,937.0	4.15
Taiwan (2013)	30,511.2	2.99
Singapore (2012)	8,176.9	2.00



Region/country/economy	GERD (PPP \$millions)	GERD/GDP (%)
Malaysia (2011)	4,902.9	1.07
Thailand (2009)	1,339.9	0.25
Indonesia (2009)	794.9	0.08
Australia and Oceania		
Australia (2011)	20,955.6	2.13
New Zealand (2013)	1,828.5	1.17
Selected country groups		
European Union (2013)	342,431.5	1.91
OECD (2013)	1,128,468.2	2.36
G20 (2013)	1,551,393.7	2.00

G20 = Group of Twenty; GDP = gross domestic product; GERD = gross expenditures (domestic) on R&D; OECD = Organisation for Economic Co-operation and Development; PPP = purchasing power parity.

^a Data for the United States in this table may differ slightly from those cited earlier in the chapter. Data here reflect international standards for calculating GERD, which vary slightly from the National Science Foundation's protocol for tallying U.S. total R&D.

NOTES: Year of data is listed in parentheses. Foreign currencies are converted to dollars through PPPs. Countries in this table have an annual GERD of \$500 million or more. Countries are grouped according to the regions described by *The World Factbook*, www.cia.gov/library/publications/the-world-factbook/. No countries in the Central America and Caribbean region had annual GERD of \$500 million or more. Data for Israel are civilian R&D only. See sources below for GERD statistics on additional countries.

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics, National Patterns of R&D Resources (annual series); OECD, *Main Science and Technology Indicators* (2015/1); United Nations Educational, Scientific and Cultural Organization Institute for Statistics Data Centre, <http://www.uis.unesco.org/DataCentre/Pages/BrowseScience.aspx>, accessed 23 January 2015. *Science and Engineering Indicators 2016*