

TABLE S6-16

## Value added of IT and other information services industry, by region, country, or economy: 2002–18

(Millions of current dollars)

| Region, country, or economy | 2002    | 2003    | 2004    | 2005    | 2006    | 2007    | 2008    | 2009    | 2010    | 2011      | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| World                       | 505,562 | 554,334 | 619,728 | 659,840 | 718,496 | 808,107 | 929,114 | 913,014 | 982,541 | 1,108,619 | 1,143,048 | 1,205,592 | 1,274,942 | 1,264,453 | 1,346,512 | 1,467,987 | 1,621,824 |
| North America               | 192,626 | 194,187 | 208,350 | 217,937 | 239,805 | 244,333 | 286,716 | 287,611 | 320,385 | 353,909   | 364,808   | 393,646   | 422,329   | 464,636   | 520,787   | 571,629   | 629,671   |
| Canada                      | 8,634   | 10,507  | 11,931  | 13,408  | 15,718  | 18,009  | 19,118  | 19,400  | 22,157  | 25,325    | 26,452    | 27,326    | 27,740    | 24,828    | 25,803    | 28,860    | 30,289    |
| Mexico                      | 824     | 792     | 908     | 1,055   | 1,091   | 1,199   | 1,286   | 1,087   | 1,164   | 1,195     | 1,220     | 1,232     | 1,339     | 1,210     | 1,193     | 1,217     | 1,275     |
| United States               | 183,168 | 182,888 | 195,512 | 203,475 | 222,996 | 225,125 | 266,312 | 267,124 | 297,064 | 327,389   | 337,136   | 365,087   | 393,250   | 438,598   | 493,792   | 541,553   | 598,108   |
| Central and South America   | 7,870   | 8,306   | 10,645  | 14,345  | 17,267  | 22,176  | 26,803  | 28,044  | 34,508  | 41,796    | 41,108    | 43,522    | 42,642    | 37,522    | 35,286    | 39,779    | 37,180    |
| Argentina                   | 1,108   | 1,241   | 1,553   | 1,862   | 2,183   | 2,765   | 3,472   | 3,389   | 4,013   | 4,829     | 5,195     | 5,537     | 4,979     | 5,866     | 5,116     | 6,066     | 4,913     |
| Bolivia                     | 48      | 47      | 47      | 47      | 50      | 56      | 66      | 74      | 79      | 86        | 99        | 109       | 115       | 127       | 139       | 150       | 162       |
| Brazil                      | 3,790   | 4,215   | 5,778   | 8,088   | 9,994   | 13,370  | 15,973  | 17,283  | 22,029  | 26,814    | 24,599    | 26,078    | 26,173    | 20,458    | 20,733    | 23,113    | 21,019    |
| Chile                       | 568     | 582     | 735     | 1,377   | 1,658   | 1,944   | 2,488   | 2,305   | 2,962   | 3,743     | 4,041     | 4,214     | 3,775     | 3,410     | 3,404     | 3,590     | 3,847     |
| Colombia                    | 769     | 736     | 921     | 1,183   | 1,351   | 1,730   | 2,003   | 1,840   | 2,276   | 2,612     | 2,828     | 2,942     | 3,004     | 2,357     | 2,229     | 2,420     | 2,518     |
| Costa Rica                  | 51      | 54      | 60      | 66      | 83      | 99      | 115     | 129     | 175     | 218       | 251       | 282       | 323       | 367       | 396       | 423       | 447       |
| Ecuador                     | 124     | 144     | 156     | 172     | 178     | 209     | 208     | 215     | 260     | 308       | 344       | 377       | 394       | 371       | 369       | 387       | 409       |
| Honduras                    | 33      | 37      | 39      | 44      | 47      | 53      | 59      | 67      | 72      | 75        | 80        | 84        | 90        | 93        | 97        | 102       | 107       |
| Jamaica                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| Panama                      | 181     | 194     | 208     | 220     | 244     | 252     | 284     | 318     | 361     | 404       | 449       | 520       | 555       | 596       | 633       | 686       | 755       |
| Peru                        | 467     | 493     | 540     | 593     | 677     | 728     | 832     | 791     | 895     | 988       | 1,095     | 1,164     | 1,171     | 1,075     | 1,080     | 1,258     | 1,322     |
| Uruguay                     | 195     | 149     | 155     | 197     | 222     | 267     | 365     | 417     | 573     | 686       | 787       | 908       | 938       | 900       | 905       | 1,044     | 1,081     |
| Venezuela                   | 537     | 416     | 453     | 495     | 581     | 703     | 938     | 1,217   | 813     | 1,032     | 1,341     | 1,307     | 1,126     | 1,903     | 185       | 540       | 600       |
| Europe                      | 169,092 | 202,645 | 237,634 | 250,995 | 272,871 | 326,262 | 361,486 | 328,881 | 330,051 | 376,453   | 372,610   | 400,796   | 421,110   | 378,526   | 392,336   | 429,338   | 471,384   |
| EU                          | 158,070 | 190,312 | 223,414 | 234,492 | 254,296 | 302,834 | 331,904 | 301,311 | 298,891 | 337,900   | 329,482   | 356,685   | 379,754   | 344,178   | 357,876   | 391,008   | 431,785   |
| Austria                     | 2,700   | 3,281   | 3,724   | 4,026   | 4,267   | 4,831   | 5,444   | 5,138   | 5,031   | 6,331     | 6,106     | 6,823     | 7,353     | 6,416     | 6,691     | 7,265     | 7,868     |
| Belgium                     | 3,415   | 3,996   | 4,436   | 4,659   | 5,100   | 6,399   | 7,347   | 7,229   | 7,264   | 8,392     | 8,441     | 8,585     | 8,950     | 7,920     | 8,550     | 9,549     | 10,588    |
| Bulgaria                    | 58      | 73      | 98      | 95      | 122     | 153     | 302     | 289     | 247     | 339       | 304       | 346       | 346       | 290       | 359       | 347       | 394       |
| Czechia                     | 858     | 1,116   | 1,289   | 1,881   | 2,336   | 3,201   | 4,295   | 4,072   | 4,041   | 4,910     | 4,545     | 4,694     | 4,817     | 4,526     | 4,774     | 5,630     | 6,176     |
| Denmark                     | 2,471   | 2,948   | 3,513   | 3,300   | 3,900   | 4,666   | 5,578   | 6,105   | 6,246   | 5,960     | 5,558     | 6,252     | 6,379     | 5,576     | 5,786     | 6,142     | 6,555     |
| Finland                     | 2,260   | 2,825   | 3,454   | 3,730   | 3,878   | 5,008   | 5,517   | 4,817   | 4,738   | 5,598     | 5,690     | 6,351     | 7,200     | 6,579     | 6,866     | 7,395     | 8,032     |
| France                      | 31,139  | 37,189  | 42,277  | 43,233  | 47,481  | 55,033  | 61,341  | 55,794  | 54,723  | 59,194    | 56,764    | 59,480    | 62,700    | 55,246    | 58,445    | 65,948    | 70,836    |
| Germany                     | 33,964  | 39,080  | 44,479  | 47,758  | 50,990  | 63,266  | 69,259  | 63,986  | 62,808  | 76,345    | 75,779    | 86,787    | 91,727    | 79,049    | 84,615    | 94,499    | 106,949   |
| Greece                      | 424     | 548     | 752     | 810     | 1,017   | 1,026   | 950     | 941     | 1,085   | 1,040     | 933       | 957       | 1,046     | 918       | 979       | 1,041     | 1,123     |
| Hungary                     | 723     | 901     | 1,075   | 1,194   | 1,367   | 1,836   | 2,216   | 2,096   | 2,104   | 2,358     | 2,324     | 2,640     | 2,831     | 2,419     | 2,663     | 3,143     | 3,544     |
| Ireland                     | 2,868   | 3,528   | 3,980   | 4,822   | 4,959   | 5,613   | 7,209   | 5,988   | 5,907   | 5,018     | 5,880     | 6,846     | 8,511     | 8,477     | 10,505    | 11,379    | 15,216    |
| Italy                       | 20,497  | 24,558  | 26,402  | 26,840  | 27,526  | 31,936  | 35,300  | 34,391  | 33,208  | 35,972    | 33,211    | 34,715    | 35,984    | 31,557    | 31,900    | 33,457    | 35,019    |
| Netherlands                 | 8,052   | 9,851   | 11,563  | 12,681  | 14,252  | 17,720  | 20,387  | 18,466  | 18,011  | 19,262    | 18,242    | 19,880    | 20,735    | 19,013    | 19,649    | 21,932    | 24,152    |
| Poland                      | 1,373   | 1,603   | 1,954   | 2,167   | 2,480   | 3,269   | 4,469   | 4,097   | 4,829   | 5,698     | 6,340     | 7,510     | 8,492     | 8,285     | 8,365     | 9,691     | 10,259    |
| Portugal                    | 846     | 1,054   | 1,226   | 1,325   | 1,498   | 1,804   | 2,114   | 2,141   | 2,126   | 2,308     | 2,142     | 2,323     | 2,470     | 2,129     | 2,291     | 2,440     | 2,630     |

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(Millions of current dollars)

| Region, country, or economy | 2002    | 2003    | 2004    | 2005    | 2006    | 2007    | 2008    | 2009    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Romania                     | 378     | 499     | 541     | 705     | 976     | 1,553   | 1,897   | 1,535   | 1,402   | 1,724   | 1,676   | 2,173   | 2,176   | 2,043   | 2,261   | 2,496   | 2,826   |
| Slovakia                    | 161     | 241     | 358     | 421     | 567     | 971     | 1,251   | 1,501   | 1,489   | 1,827   | 1,958   | 1,940   | 1,834   | 1,711   | 1,822   | 2,065   | 2,290   |
| Spain                       | 8,494   | 10,986  | 12,668  | 13,541  | 14,974  | 17,837  | 20,726  | 20,307  | 18,563  | 20,431  | 19,457  | 21,125  | 22,171  | 19,150  | 19,941  | 21,755  | 24,297  |
| Sweden                      | 5,677   | 6,953   | 8,762   | 9,192   | 9,492   | 11,028  | 12,471  | 10,448  | 11,674  | 14,262  | 14,040  | 15,333  | 15,731  | 16,767  | 16,802  | 18,026  | 19,877  |
| United Kingdom              | 31,712  | 39,083  | 50,862  | 52,115  | 57,113  | 65,684  | 63,829  | 51,971  | 53,395  | 60,931  | 60,091  | 61,923  | 68,300  | 66,106  | 64,614  | 66,808  | 73,154  |
| Other Europe                | 11,022  | 12,334  | 14,220  | 16,503  | 18,575  | 23,427  | 29,582  | 27,570  | 31,160  | 38,553  | 43,129  | 44,111  | 41,356  | 34,347  | 34,460  | 38,331  | 39,599  |
| Norway                      | 2,302   | 2,556   | 3,141   | 3,668   | 3,846   | 5,020   | 5,987   | 5,427   | 6,162   | 7,217   | 7,368   | 7,986   | 7,570   | 6,154   | 6,354   | 6,850   | 7,450   |
| Russia                      | 1,450   | 1,809   | 1,756   | 2,666   | 3,792   | 5,893   | 8,797   | 7,226   | 8,709   | 12,673  | 16,503  | 15,867  | 13,519  | 8,755   | 8,221   | 9,953   | 10,291  |
| Switzerland                 | 6,280   | 6,700   | 7,685   | 7,934   | 8,263   | 8,757   | 10,357  | 10,790  | 11,840  | 14,112  | 14,046  | 14,706  | 15,203  | 14,999  | 15,312  | 16,179  | 16,698  |
| Turkey                      | 782     | 1,034   | 1,368   | 1,886   | 2,202   | 2,958   | 3,401   | 3,319   | 3,522   | 3,375   | 3,681   | 3,996   | 4,004   | 3,651   | 3,744   | 4,348   | 4,005   |
| Ukraine                     | 209     | 235     | 270     | 349     | 471     | 800     | 1,040   | 808     | 927     | 1,177   | 1,530   | 1,556   | 1,060   | 789     | 828     | 1,000   | 1,155   |
| Middle East                 | 5,188   | 5,563   | 6,426   | 7,377   | 8,626   | 10,957  | 13,426  | 13,774  | 14,907  | 16,938  | 16,405  | 17,262  | 19,183  | 20,291  | 21,725  | 23,438  | 22,910  |
| Bahrain                     | 68      | 73      | 83      | 96      | 108     | 124     | 139     | 139     | 152     | 144     | 150     | 154     | 165     | 172     | 182     | 192     | 213     |
| Iran                        | 1,223   | 1,480   | 1,793   | 2,139   | 2,721   | 3,742   | 4,530   | 4,743   | 5,292   | 6,061   | 4,612   | 3,558   | 4,022   | 4,202   | 4,550   | 4,841   | 3,444   |
| Israel                      | 1,966   | 1,912   | 2,111   | 2,446   | 2,664   | 3,138   | 4,093   | 4,225   | 4,450   | 5,194   | 5,160   | 6,102   | 6,719   | 7,216   | 8,075   | 9,158   | 9,603   |
| Jordan                      | 108     | 113     | 121     | 124     | 128     | 135     | 139     | 150     | 166     | 179     | 192     | 205     | 220     | 231     | 243     | 256     | 273     |
| Kuwait                      | 41      | 46      | 49      | 54      | 56      | 61      | 65      | 60      | 67      | 118     | 120     | 123     | 129     | 131     | 131     | 137     | 163     |
| Qatar                       | 26      | 28      | 53      | 66      | 163     | 248     | 312     | 320     | 320     | 411     | 438     | 527     | 606     | 623     | 632     | 633     | 708     |
| Saudi Arabia                | 851     | 871     | 950     | 1,007   | 1,085   | 1,195   | 1,424   | 1,687   | 1,933   | 2,152   | 2,789   | 3,398   | 3,758   | 3,928   | 3,996   | 4,134   | 4,314   |
| United Arab Emirates        | 905     | 1,040   | 1,266   | 1,446   | 1,702   | 2,313   | 2,724   | 2,450   | 2,528   | 2,680   | 2,944   | 3,193   | 3,563   | 3,789   | 3,916   | 4,086   | 4,191   |
| Africa                      | 1,852   | 2,402   | 3,443   | 4,557   | 6,033   | 7,886   | 10,389  | 11,621  | 12,042  | 11,522  | 12,516  | 13,804  | 13,988  | 12,962  | 11,046  | 9,790   | 11,411  |
| Cameroon                    | 61      | 77      | 88      | 96      | 106     | 118     | 136     | 138     | 140     | 157     | 153     | 160     | 163     | 140     | 158     | 160     | 180     |
| Egypt                       | 189     | 152     | 145     | 203     | 249     | 297     | 361     | 424     | 481     | 1,228   | 1,627   | 1,622   | 1,735   | 1,825   | 1,608   | 1,136   | 1,427   |
| Kenya                       | 79      | 90      | 90      | 103     | 123     | 143     | 151     | 144     | 133     | 105     | 116     | 112     | 103     | 128     | 142     | 150     | 158     |
| Morocco                     | 324     | 411     | 480     | 536     | 600     | 735     | 809     | 859     | 853     | 943     | 931     | 994     | 1,029   | 922     | 957     | 1,024   | 1,106   |
| Nigeria                     | 735     | 1,014   | 1,833   | 2,736   | 3,995   | 5,498   | 7,817   | 8,838   | 8,941   | 7,449   | 8,205   | 9,465   | 9,502   | 8,643   | 6,935   | 5,933   | 7,082   |
| Senegal                     | 49      | 62      | 71      | 76      | 84      | 103     | 123     | 118     | 117     | 131     | 125     | 136     | 141     | 117     | 119     | 136     | 154     |
| South Africa                | 205     | 344     | 459     | 522     | 558     | 634     | 592     | 683     | 944     | 1,035   | 908     | 825     | 808     | 726     | 669     | 800     | 841     |
| Tunisia                     | 210     | 252     | 277     | 286     | 319     | 359     | 400     | 416     | 435     | 473     | 451     | 490     | 505     | 460     | 458     | 452     | 463     |
| Zimbabwe                    | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| Asia                        | 121,184 | 131,300 | 141,153 | 151,411 | 159,395 | 177,944 | 209,131 | 221,495 | 244,192 | 276,777 | 302,894 | 305,077 | 324,406 | 324,371 | 339,781 | 367,021 | 421,955 |
| Bangladesh                  | 280     | 303     | 319     | 317     | 365     | 399     | 443     | 510     | 577     | 609     | 647     | 785     | 909     | 1,058   | 1,181   | 1,271   | 1,376   |
| China                       | 7,879   | 8,132   | 8,995   | 12,010  | 16,128  | 23,046  | 32,025  | 37,064  | 44,334  | 56,943  | 71,230  | 87,659  | 105,923 | 109,319 | 108,073 | 120,948 | 164,202 |
| India                       | 6,648   | 7,832   | 10,245  | 12,387  | 14,517  | 19,086  | 22,659  | 25,301  | 32,385  | 38,233  | 42,822  | 49,723  | 55,219  | 63,870  | 67,267  | 77,888  | 86,290  |
| Indonesia                   | 794     | 1,017   | 1,167   | 1,322   | 1,650   | 1,860   | 2,161   | 2,475   | 3,423   | 3,999   | 4,091   | 4,077   | 3,789   | 3,680   | 4,104   | 4,791   | 5,056   |
| Japan                       | 92,060  | 99,299  | 104,076 | 105,301 | 102,683 | 106,286 | 125,050 | 130,938 | 134,240 | 143,912 | 148,868 | 125,258 | 118,598 | 107,451 | 118,367 | 119,523 | 122,101 |

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(Millions of current dollars)

| Region, country, or economy | 2002  | 2003  | 2004   | 2005   | 2006   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
|-----------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Malaysia                    | 373   | 405   | 440    | 609    | 674    | 811    | 935    | 981    | 1,229  | 1,354  | 1,510  | 1,654  | 1,741  | 1,616  | 1,659  | 1,717  | 1,943  |
| Pakistan                    | 198   | 224   | 252    | 333    | 650    | 693    | 823    | 602    | 637    | 734    | 854    | 772    | 838    | 861    | 967    | 1,042  | 977    |
| Philippines                 | 489   | 508   | 554    | 633    | 769    | 956    | 1,148  | 1,153  | 1,336  | 1,521  | 1,773  | 1,665  | 1,699  | 1,801  | 2,194  | 2,278  | 2,366  |
| Singapore                   | 408   | 420   | 427    | 773    | 940    | 1,235  | 1,538  | 1,662  | 1,953  | 2,750  | 3,071  | 3,428  | 3,620  | 3,299  | 3,500  | 3,693  | 3,928  |
| South Korea                 | 8,792 | 9,658 | 10,838 | 13,599 | 16,372 | 18,289 | 16,536 | 15,428 | 18,081 | 20,223 | 21,167 | 22,771 | 24,690 | 23,983 | 24,898 | 25,282 | 24,599 |
| Sri Lanka                   | 5     | 5     | 5      | 6      | 7      | 9      | 10     | 11     | 12     | 14     | 14     | 18     | 22     | 27     | 29     | 33     | 35     |
| Taiwan                      | 2,371 | 2,486 | 2,670  | 2,871  | 3,190  | 3,617  | 3,954  | 3,740  | 3,998  | 4,154  | 4,305  | 4,497  | 4,614  | 4,560  | 4,658  | 5,239  | 5,399  |
| Thailand                    | 829   | 948   | 1,094  | 1,175  | 1,369  | 1,562  | 1,731  | 1,502  | 1,795  | 2,142  | 2,355  | 2,561  | 2,522  | 2,634  | 2,658  | 3,074  | 3,431  |
| Vietnam                     | 58    | 63    | 71     | 75     | 81     | 95     | 118    | 128    | 194    | 188    | 187    | 208    | 222    | 211    | 225    | 241    | 253    |
| Oceania                     | 7,749 | 9,931 | 12,076 | 13,218 | 14,498 | 18,549 | 21,163 | 21,589 | 26,455 | 31,223 | 32,707 | 31,486 | 31,285 | 26,145 | 25,551 | 26,992 | 27,313 |
| Australia                   | 7,007 | 8,959 | 10,951 | 11,979 | 13,386 | 17,154 | 19,799 | 20,332 | 25,007 | 29,603 | 30,950 | 29,629 | 29,344 | 24,453 | 23,886 | 25,283 | 25,565 |
| New Zealand                 | 743   | 972   | 1,125  | 1,239  | 1,112  | 1,395  | 1,364  | 1,257  | 1,448  | 1,620  | 1,757  | 1,857  | 1,941  | 1,692  | 1,665  | 1,709  | 1,749  |

EU = European Union.

**Note(s):**

Value added is the amount contributed by a country, firm, or other entity to the value of a good or service and excludes purchases of domestic and imported materials and inputs. Detail may not add to total because of rounding or minor discrepancies. World total does not include all countries and economies due to limitations in data availability. See Table S6-1 for a full list of countries and economies in each region.

**Source(s):**

IHS Markit, special tabulations (2019) of Comparative Industry Service.

Science and Engineering Indicators