

Table SKTI-1

U.S. KTI industry value added: 2002–20

(Billions of dollars and percent share)

| Industry | ISIC, Rev. 4, industry code | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|--------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Billions of dollars | | | | | | | | | | | | | | | | | | | | |
| Gross domestic product | | 10,929.1 | 11,456.5 | 12,217.2 | 13,039.2 | 13,815.6 | 14,474.2 | 14,769.9 | 14,478.1 | 15,049.0 | 15,599.7 | 16,254.0 | 16,843.2 | 17,550.7 | 18,206.0 | 18,695.1 | 19,479.6 | 20,527.2 | 21,372.6 | 20,893.7 |
| All KTI industries | | 1,052.6 | 1,096.6 | 1,152.8 | 1,202.6 | 1,294.7 | 1,350.3 | 1,376.2 | 1,356.6 | 1,484.1 | 1,570.1 | 1,622.6 | 1,709.1 | 1,782.2 | 1,883.5 | 1,960.0 | 2,058.0 | 2,209.2 | 2,336.2 | 2,387.0 |
| Manufacturing | | 752.3 | 784.4 | 812.5 | 842.0 | 909.8 | 944.7 | 925.1 | 891.4 | 975.7 | 1,007.7 | 1,033.5 | 1,076.6 | 1,107.0 | 1,149.3 | 1,170.2 | 1,210.8 | 1,268.3 | 1,301.7 | 1,272.8 |
| Chemicals and chemical products | 20 | 110.4 | 110.1 | 121.1 | 119.2 | 135.9 | 144.8 | 141.6 | 144.2 | 172.1 | 175.5 | 181.0 | 188.4 | 190.1 | 185.6 | 198.6 | 200.8 | 210.3 | 208.6 | 199.5 |
| Pharmaceuticals | 21 | 97.4 | 100.6 | 105.7 | 103.8 | 117.9 | 123.1 | 124.1 | 143.8 | 131.2 | 130.5 | 124.0 | 133.1 | 140.0 | 147.6 | 158.4 | 162.1 | 165.5 | 182.4 | 195.1 |
| Computer, electronic, and optical products | 26 | 174.1 | 194.7 | 202.8 | 212.5 | 225.6 | 230.1 | 234.1 | 225.5 | 242.1 | 239.8 | 243.4 | 246.8 | 253.4 | 269.5 | 270.2 | 282.0 | 307.0 | 310.1 | 319.6 |
| Electrical equipment | 27 | 43.7 | 45.5 | 42.1 | 43.2 | 51.4 | 50.3 | 55.5 | 50.6 | 50.8 | 48.3 | 52.2 | 58.1 | 54.4 | 63.7 | 58.5 | 60.8 | 65.1 | 65.0 | 63.6 |
| Machinery and equipment nec | 28 | 99.3 | 98.0 | 105.0 | 115.2 | 122.7 | 130.3 | 132.9 | 119.2 | 127.8 | 145.3 | 152.6 | 157.9 | 161.0 | 152.5 | 143.8 | 153.4 | 161.4 | 167.0 | 156.9 |
| Motor vehicles, trailers, and semi-trailers | 29 | 126.7 | 134.3 | 130.4 | 127.5 | 125.9 | 116.4 | 83.6 | 44.2 | 83.4 | 98.0 | 108.7 | 115.4 | 124.6 | 137.6 | 146.2 | 149.1 | 148.2 | 149.4 | 145.9 |
| Air and spacecraft and related machinery | 303 | 57.7 | 56.7 | 58.9 | 71.2 | 77.2 | 92.4 | 90.5 | 95.4 | 99.5 | 103.6 | 102.8 | 107.8 | 114.9 | 124.4 | 121.6 | 129.2 | 134.9 | 142.3 | 108.1 |
| Railroad, military vehicles, and transport nec | 302, 304, and 309 | 7.9 | 8.3 | 8.9 | 10.0 | 10.5 | 12.6 | 14.7 | 12.4 | 12.0 | 13.3 | 13.2 | 14.3 | 13.7 | 13.4 | 14.3 | 11.9 | 11.7 | 11.3 | 11.6 |
| Medical and dental instruments | 325 | 34.9 | 36.2 | 37.6 | 39.5 | 42.7 | 44.7 | 48.1 | 56.1 | 57.0 | 53.5 | 55.7 | 54.8 | 54.9 | 55.0 | 58.8 | 61.6 | 64.3 | 65.7 | 72.4 |
| Services | | 300.3 | 312.1 | 340.3 | 360.6 | 384.8 | 405.5 | 451.1 | 465.2 | 508.3 | 562.4 | 589.1 | 632.6 | 675.3 | 734.2 | 789.8 | 847.1 | 940.9 | 1,034.5 | 1,114.2 |
| IT and other information services | 62 - 63 | 171.4 | 178.9 | 197.1 | 206.8 | 230.9 | 232.3 | 264.2 | 275.1 | 304.0 | 339.6 | 358.1 | 386.9 | 415.5 | 454.7 | 500.1 | 535.3 | 596.5 | 655.8 | 684.9 |
| Software publishing | 582 | 57.5 | 61.9 | 70.7 | 79.2 | 79.0 | 98.8 | 103.3 | 105.0 | 115.2 | 128.0 | 135.4 | 147.9 | 156.6 | 164.1 | 176.2 | 195.1 | 215.9 | 239.3 | 273.0 |
| Scientific research and development | 72 | 71.5 | 71.3 | 72.5 | 74.6 | 75.0 | 74.4 | 83.5 | 85.0 | 89.2 | 94.7 | 95.6 | 97.8 | 103.1 | 115.4 | 113.5 | 116.7 | 128.6 | 139.3 | 156.3 |
| Industry share of total KTI value added | | | | | | | | | | | | | | | | | | | | |
| All KTI industries | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Manufacturing | | 71.5 | 71.5 | 70.5 | 70.0 | 70.3 | 70.0 | 67.2 | 65.7 | 65.7 | 64.2 | 63.7 | 63.0 | 62.1 | 61.0 | 59.7 | 58.8 | 57.4 | 55.7 | 53.3 |
| Chemicals and chemical products | 20 | 10.5 | 10.0 | 10.5 | 9.9 | 10.5 | 10.7 | 10.3 | 10.6 | 11.6 | 11.2 | 11.2 | 11.0 | 10.7 | 9.9 | 10.1 | 9.8 | 9.5 | 8.9 | 8.4 |
| Pharmaceuticals | 21 | 9.3 | 9.2 | 9.2 | 8.6 | 9.1 | 9.1 | 9.0 | 10.6 | 8.8 | 8.3 | 7.6 | 7.8 | 7.9 | 7.8 | 8.1 | 7.9 | 7.5 | 7.8 | 8.2 |
| Computer, electronic, and optical products | 26 | 16.5 | 17.8 | 17.6 | 17.7 | 17.4 | 17.0 | 17.0 | 16.6 | 16.3 | 15.3 | 15.0 | 14.4 | 14.2 | 14.3 | 13.8 | 13.7 | 13.9 | 13.3 | 13.4 |
| Electrical equipment | 27 | 4.2 | 4.2 | 3.6 | 3.6 | 4.0 | 3.7 | 4.0 | 3.7 | 3.4 | 3.1 | 3.2 | 3.4 | 3.1 | 3.4 | 3.0 | 3.0 | 2.9 | 2.8 | 2.7 |
| Machinery and equipment nec | 28 | 9.4 | 8.9 | 9.1 | 9.6 | 9.5 | 9.7 | 9.7 | 8.8 | 8.6 | 9.3 | 9.4 | 9.2 | 9.0 | 8.1 | 7.3 | 7.5 | 7.3 | 7.1 | 6.6 |

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U.S. KTI industry value added: 2002–20

(Billions of dollars and percent share)

| Industry | ISIC, Rev.4, industry code | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Motor vehicles, trailers, and semi-trailers | 29 | 12.0 | 12.2 | 11.3 | 10.6 | 9.7 | 8.6 | 6.1 | 3.3 | 5.6 | 6.2 | 6.7 | 6.8 | 7.0 | 7.3 | 7.5 | 7.2 | 6.7 | 6.4 | 6.1 |
| Air and spacecraft and related machinery | 303 | 5.5 | 5.2 | 5.1 | 5.9 | 6.0 | 6.8 | 6.6 | 7.0 | 6.7 | 6.6 | 6.3 | 6.3 | 6.4 | 6.6 | 6.2 | 6.3 | 6.1 | 6.1 | 4.5 |
| Railroad, military vehicles, and transport nec | 302, 304, and 309 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 1.1 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.6 | 0.5 | 0.5 | 0.5 |
| Medical and dental instruments | 325 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.5 | 4.1 | 3.8 | 3.4 | 3.4 | 3.2 | 3.1 | 2.9 | 3.0 | 3.0 | 2.9 | 2.8 | 3.0 |
| Services | | 28.5 | 28.5 | 29.5 | 30.0 | 29.7 | 30.0 | 32.8 | 34.3 | 34.3 | 35.8 | 36.3 | 37.0 | 37.9 | 39.0 | 40.3 | 41.2 | 42.6 | 44.3 | 46.7 |
| IT and other information services | 62 - 63 | 16.3 | 16.3 | 17.1 | 17.2 | 17.8 | 17.2 | 19.2 | 20.3 | 20.5 | 21.6 | 22.1 | 22.6 | 23.3 | 24.1 | 25.5 | 26.0 | 27.0 | 28.1 | 28.7 |
| Software publishing | 582 | 5.5 | 5.6 | 6.1 | 6.6 | 6.1 | 7.3 | 7.5 | 7.7 | 7.8 | 8.2 | 8.3 | 8.7 | 8.8 | 8.7 | 9.0 | 9.5 | 9.8 | 10.2 | 11.4 |
| Scientific research and development | 72 | 6.8 | 6.5 | 6.3 | 6.2 | 5.8 | 5.5 | 6.1 | 6.3 | 6.0 | 6.0 | 5.9 | 5.7 | 5.8 | 6.1 | 5.8 | 5.7 | 5.8 | 6.0 | 6.5 |

ISIC, Rev.4 = International Standard Industry Classification, Revision 4; IT = information technology; KTI = knowledge and technology intensive; nec = not elsewhere classified.

Note(s):

Value added is a net measure of output; it is the difference between the value of goods and services produced by an industry (gross output) and the total cost of intermediate inputs that were used in production including energy, materials, and services purchased from other businesses. *Industry value added* is a measure of an industry's contribution to overall gross domestic product. KTI industries include high R&D intensive and medium-high R&D intensive industries based on a classification by the Organisation for Economic Co-operation and Development. The data have been crosswalked to the ISIC, Rev.4, classification. See the Technical Appendix for the crosswalking method.

Source(s):

U.S. Bureau of Economic Analysis, Value Added by Industry, accessed 5 October 2021.

Science and Engineering Indicators