

Table KTI-1

U.S. KTI industries, by value added and share of GDP: 2018–22

(Billions of dollars and percent)

Industry	ISIC, Rev.4, industry code	2018	2019	2020	2021	2022
Billions of dollars						
GDP		20,656.5	21,521.4	21,323.0	23,594.0	25,744.1
All manufacturing		2,373.3	2,408.5	2,279.3	2,541.1	2,894.3
Total private services		11,483.5	12,074.5	11,997.7	13,357.1	14,320.2
All KTI industries		2,181.4	2,287.0	2,337.6	2,583.9	2,886.5
KTI manufacturing		1,295.2	1,335.0	1,299.7	1,401.5	1,594.5
Chemicals and chemical products	20	211.1	213.1	201.6	221.9	258.4
Pharmaceuticals, medicinal chemical, and botanical products	21	165.6	184.0	198.9	217.7	233.7
Weapons and ammunition	252	5.9	6.7	8.1	8.2	8.8
Computer, electronic, and optical products	26	308.0	312.7	320.3	338.2	380.0
Electrical equipment	27	65.1	64.6	61.4	67.7	73.6
Machinery and equipment nec	28	174.0	180.5	171.7	186.4	225.8
Motor vehicles, trailers, and semi-trailers	29	157.8	158.2	143.9	158.7	171.6
Air and spacecraft and related machinery	303	134.9	140.9	124.2	129.3	156.7
Railroad, military vehicles, and transport equipment nec	30X	11.9	12.5	10.7	11.6	13.4
Medical and dental instruments and supplies	325	60.9	61.7	58.9	61.8	72.5
KTI services		886.2	952.0	1,038.0	1,182.4	1,292.0
Software publishing	582	201.6	225.5	267.9	314.3	339.3
IT and other information services	62–63	556.3	587.3	613.6	695.1	772.8
Scientific R&D services	72	128.4	139.2	156.4	172.9	179.9
Analytical ratios (%)						
All KTI/GDP		10.6	10.6	11.0	11.0	11.2
KTI manufacturing/GDP		6.3	6.2	6.1	5.9	6.2
KTI services/GDP		4.3	4.4	4.9	5.0	5.0
GDP structure (selected sectors) (%)						
Manufacturing/GDP		11.5	11.2	10.7	10.8	11.2
Total private services/GDP		55.6	56.1	56.3	56.6	55.6
KTI structure						
KTI manufacturing/all KTI		59.4	58.4	55.6	54.2	55.2
KTI services/all KTI		40.6	41.6	44.4	45.8	44.8
Intrasector shares						
KTI manufacturing/manufacturing		54.6	55.4	57.0	55.2	55.1
KTI services/total private services		7.7	7.9	8.7	8.9	9.0

GDP = gross domestic product; ISIC, Rev.4 = International Standard Industrial Classification, Revision 4; IT = information technology; KTI = knowledge and technology intensive; nec = not elsewhere classified.

Note(s):

Value added is the value of goods and services (gross output) minus the cost of intermediate inputs (energy, materials, and purchased services). Value added is a measure of an industry's contribution to overall GDP. 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 and Table SAKTI-1. Total private services corresponds to main services in ISIC, Rev.4.

Source(s):

GDP data are from the Bureau of Economic Analysis, Industry Economic Accounts, accessed November 2023 (available at <https://www.bea.gov/itable/national-gdp-and-personal-income>); value-added data are from S&P Global IHS Markit, Comparative Industry Service special tabulations, October 2023.

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