

Table KTI-2

## Global KTI industries, by value added and share of global GDP: 2018–22

(Billions of dollars, percent change, share of global GDP)

Industry	ISIC, Rev.4, industry code	Billions of dollars					Percent change				Share of global GDP				
		2018	2019	2020	2021	2022	2019	2020	2021	2022	2018	2019	2020	2021	2022
GDP		86,219	87,466	85,221	96,764	100,396	1.4	-2.6	13.5	3.8	100.0	100.0	100.0	100.0	100.0
All manufacturing		13,926	13,809	13,457	15,882	17,039	-0.8	-2.5	18.0	7.3	16.2	15.8	15.8	16.4	17.0
Total private services		37,954	38,725	37,791	42,485	44,298	2.0	-2.4	12.4	4.3	44.0	44.3	44.3	43.9	44.1
All KTI industries		9,085	9,094	9,055	10,487	11,079	0.1	-0.4	15.8	5.6	10.5	10.4	10.6	10.8	11.0
KTI manufacturing		6,498	6,389	6,311	7,346	7,821	-1.7	-1.2	16.4	6.5	7.5	7.3	7.4	7.6	7.8
Chemicals and chemical products	20	1,072	1,040	1,018	1,173	1,406	-3.0	-2.2	15.2	19.9	1.2	1.2	1.2	1.2	1.4
Pharmaceuticals, medicinal chemical, and botanical products	21	663	683	736	868	874	2.9	7.8	17.9	0.7	0.8	0.8	0.9	0.9	0.9
Weapons and ammunition	252	39	40	41	47	54	3.9	1.8	14.2	15.1	*	*	*	*	0.1
Computer, electronic, and optical products	26	1,285	1,250	1,281	1,478	1,539	-2.8	2.6	15.4	4.1	1.5	1.4	1.5	1.5	1.5
Electrical equipment	27	661	658	669	794	837	-0.5	1.6	18.6	5.5	0.8	0.8	0.8	0.8	0.8
Machinery and equipment nec	28	1,169	1,145	1,145	1,355	1,427	-2.1	0.0	18.3	5.3	1.4	1.3	1.3	1.4	1.4
Motor vehicles, trailers, and semi-trailers	29	1,074	1,029	922	1,071	1,074	-4.2	-10.4	16.2	0.3	1.2	1.2	1.1	1.1	1.1
Air and spacecraft and related machinery	303	247	257	226	246	277	3.7	-12.0	9.1	12.3	0.3	0.3	0.3	0.3	0.3
Railroad, military vehicles, and transport equipment nec	30X	112	114	103	124	137	1.9	-9.5	20.6	10.4	0.1	0.1	0.1	0.1	0.1
Medical and dental instruments and supplies	325	175	173	170	190	196	-0.7	-2.1	11.7	3.4	0.2	0.2	0.2	0.2	0.2
KTI services		2,588	2,705	2,744	3,141	3,258	4.5	1.5	14.4	3.7	3.0	3.1	3.2	3.2	3.2
Software publishing	582	301	333	382	443	463	10.8	14.6	16.0	4.5	0.3	0.4	0.4	0.5	0.5
IT and other information services	62–63	1,569	1,632	1,654	1,884	1,971	4.0	1.3	13.9	4.6	1.8	1.9	1.9	1.9	2.0
Scientific R&D services	72	718	740	708	814	824	3.0	-4.2	14.9	1.3	0.8	0.8	0.8	0.8	0.8

\* = amount &lt; 0.05.

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). 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. Total private services corresponds to main services in ISIC, Rev.4.

**Source(s):**

Value added data are from S&P Global IHS Markit, Comparative Industry Service special tabulations, October 2023; GDP data are from International Monetary Fund World Economic Outlook, accessed November 2023 (available at <https://www.imf.org/en/Publications/WEO/weo-database/2023/October>), and Bureau of Economic Analysis, Industry Economic Accounts, accessed November 2023 (available at <https://www.bea.gov/itable/national-gdp-and-personal-income>).

Science and Engineering Indicators