

Table SKTI-7

## Value added of KTI services industries, by region, country, or economy: 2002–19

(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	2019
World	829,842	924,719	1,041,002	1,120,448	1,211,543	1,380,775	1,538,839	1,526,345	1,657,852	1,873,441	1,932,867	2,043,345	2,171,477	2,126,937	2,233,041	2,425,569	2,662,725	2,812,576
North America	315,386	329,928	360,516	383,586	411,372	435,736	483,018	496,303	543,720	602,425	630,304	674,930	718,221	773,040	829,378	890,557	987,383	1,083,512
Canada	12,652	15,365	17,640	20,043	23,539	26,912	28,421	28,031	31,824	36,319	37,547	38,945	39,285	35,441	36,365	39,966	42,969	45,369
Mexico	2,401	2,451	2,558	2,923	2,987	3,278	3,499	3,062	3,548	3,721	3,698	3,415	3,685	3,396	3,218	3,475	3,507	3,687
United States	300,333	312,111	340,318	360,619	384,845	405,546	451,098	465,210	508,349	562,385	589,059	632,570	675,251	734,204	789,795	847,116	940,907	1,034,456
Central and South America	14,593	15,010	18,661	23,793	28,292	36,188	44,116	46,371	55,292	66,394	67,793	71,099	69,933	65,201	58,668	67,299	64,777	61,447
Argentina	2,779	3,125	3,918	4,702	5,510	6,976	8,693	8,677	10,270	12,336	13,405	14,290	12,897	15,159	13,344	15,972	12,813	10,765
Brazil	4,745	5,238	7,125	9,919	12,279	16,500	19,964	21,313	26,784	32,509	29,735	30,653	30,959	23,823	23,962	26,918	25,350	25,712
Chile	750	716	924	1,131	1,374	1,613	2,070	1,951	2,460	3,154	3,410	3,596	3,296	3,213	3,539	3,959	3,770	3,538
Colombia	1,831	1,740	2,146	3,008	3,401	4,427	5,249	5,137	6,491	7,444	8,447	8,781	9,134	6,838	6,408	7,042	7,528	7,230
Peru	985	1,011	1,102	1,204	1,370	1,538	1,857	1,873	2,216	2,515	2,832	3,044	3,014	2,828	2,829	3,151	3,316	3,504
Other Central and South America	3,503	3,180	3,447	3,828	4,357	5,134	6,282	7,421	7,071	8,435	9,963	10,736	10,633	13,339	8,586	10,257	12,001	10,699
Europe	276,775	333,803	388,693	413,228	445,087	536,137	588,106	539,159	554,232	619,302	609,344	657,462	687,097	610,762	630,006	691,877	770,201	810,122
EU	200,975	242,839	279,526	293,445	315,764	376,753	423,788	398,780	396,738	442,072	424,887	465,554	487,877	435,938	461,665	511,670	573,802	598,554
France	56,765	68,060	77,334	78,885	85,214	98,207	109,234	102,942	101,686	110,425	105,390	111,919	117,220	101,062	106,103	116,185	128,694	131,487
Germany	50,445	59,479	68,118	71,575	75,540	92,306	102,228	95,967	94,175	112,193	110,286	124,405	131,242	113,688	118,334	128,058	140,520	145,206
Italy	33,066	40,211	44,437	45,911	48,350	55,535	60,984	58,795	57,301	60,468	55,354	57,863	58,832	50,733	52,970	56,813	59,600	60,483
Spain	12,044	15,305	17,452	18,704	20,230	23,522	27,018	26,388	24,424	26,578	24,778	26,380	27,129	23,372	23,948	26,441	29,490	30,112
Other EU	48,655	59,783	72,185	78,369	86,430	107,183	124,324	114,688	119,152	132,407	129,080	144,987	153,453	147,082	160,310	184,174	215,498	231,266
Non-EU	75,800	90,964	109,167	119,784	129,322	159,384	164,319	140,379	157,493	177,231	184,457	191,908	199,221	174,825	168,341	180,207	196,399	211,568
United Kingdom	53,992	65,755	78,457	84,789	88,817	109,231	102,247	83,240	89,550	95,206	95,960	93,625	106,328	102,533	98,655	103,415	117,065	127,777
Russia	5,475	6,895	8,978	10,938	14,662	18,924	25,576	21,233	28,360	37,365	41,991	48,530	44,012	27,083	24,617	29,621	30,774	32,672
Switzerland	9,860	10,677	12,121	12,506	12,802	13,627	15,646	16,600	17,904	21,126	21,037	22,089	22,988	22,531	22,380	22,807	23,687	23,961
Other non-EU	6,472	7,638	9,611	11,550	13,042	17,603	20,849	19,306	21,680	23,534	25,469	27,664	25,892	22,678	22,689	24,364	24,873	27,158
Middle East	14,232	15,254	17,264	19,469	22,931	28,955	34,469	35,863	38,515	43,278	39,436	43,741	51,229	52,837	57,084	60,975	59,426	61,478
Iran	3,307	3,968	4,789	5,719	7,272	9,984	12,043	13,127	14,744	16,288	8,870	8,292	10,659	11,239	12,226	12,941	7,989	6,264
Israel	6,167	6,101	6,404	6,985	7,648	8,779	10,606	10,994	11,294	13,253	14,709	17,488	20,779	20,783	23,412	25,845	28,445	31,082
Saudi Arabia	1,736	1,794	1,982	2,139	2,336	2,591	3,008	3,560	4,003	4,402	5,550	6,586	7,207	7,482	7,650	7,978	8,443	9,173
United Arab Emirates	2,260	2,592	3,152	3,603	4,240	5,748	6,657	5,939	6,139	6,512	7,165	7,848	8,694	9,237	9,583	10,126	10,329	10,679
Other Middle East	762	800	937	1,022	1,435	1,853	2,156	2,242	2,335	2,822	3,143	3,527	3,889	4,097	4,212	4,085	4,220	4,279
Africa	5,114	6,524	8,796	11,565	13,289	15,818	20,696	20,877	23,669	26,003	28,044	29,442	30,737	28,479	25,638	23,994	26,377	28,935
Egypt	473	382	366	510	627	753	898	1,071	1,219	3,023	4,005	3,995	4,323	4,530	4,011	2,867	3,545	4,424
Nigeria	1,221	1,387	2,690	4,630	5,683	7,140	11,701	10,823	11,952	11,401	13,177	14,842	15,735	14,370	12,017	10,321	11,177	12,691
South Africa	1,477	2,359	3,023	3,450	3,639	3,981	3,721	4,408	5,830	6,442	5,699	5,223	5,142	4,613	4,277	5,125	5,500	5,366
Other Africa	1,943	2,396	2,717	2,975	3,341	3,943	4,375	4,576	4,667	5,136	5,163	5,382	5,537	4,966	5,333	5,681	6,155	6,455
Asia	187,955	203,851	222,858	241,928	260,259	289,660	327,611	346,608	390,400	453,183	491,179	503,751	553,008	544,434	576,797	628,316	693,412	707,341

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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	2019
China	19,857	20,286	23,378	29,921	37,831	50,613	66,448	79,820	94,812	122,088	150,561	174,833	205,027	215,576	215,915	243,712	288,090	285,503
India	10,236	12,106	14,940	18,134	21,094	27,623	32,281	35,900	45,777	53,451	54,513	63,045	71,641	78,879	88,036	101,430	104,986	110,842
Indonesia	1,618	2,032	2,309	2,599	3,295	3,666	4,215	4,763	6,472	7,566	7,730	7,701	7,391	7,259	8,105	9,291	9,756	11,241
Japan	119,474	128,428	135,539	134,942	129,916	130,184	148,813	154,447	158,794	174,031	177,036	148,465	141,116	126,891	142,497	138,838	143,465	147,906
Malaysia	997	1,086	1,175	1,513	1,754	2,022	2,334	2,441	3,232	3,730	3,987	4,249	4,509	4,209	4,328	4,643	5,490	5,472
Philippines	1,241	1,263	1,375	1,572	1,909	2,371	2,821	2,916	3,414	3,917	4,564	4,294	4,374	4,584	5,550	5,759	6,216	6,982
Singapore	1,206	1,254	1,308	1,810	2,161	2,607	3,251	3,451	4,280	5,593	6,200	6,813	7,144	6,597	6,989	7,491	8,173	8,464
South Korea	24,816	28,046	32,284	39,650	47,842	54,308	49,681	45,529	53,933	60,707	62,670	68,587	84,084	71,574	74,743	82,987	91,541	93,077
Taiwan	4,927	5,293	5,837	6,509	7,278	8,070	8,767	8,527	9,457	10,371	10,778	11,574	12,518	12,891	13,653	15,214	16,235	16,922
Thailand	1,576	1,857	2,298	2,501	2,889	3,433	3,786	3,339	4,078	4,738	5,451	5,803	5,574	5,460	5,333	5,965	6,122	7,487
Vietnam	276	302	339	365	405	473	592	649	746	810	906	1,031	1,104	1,128	1,200	1,273	1,375	1,462
Other Asia	1,731	1,899	2,076	2,412	3,885	4,291	4,623	4,825	5,404	6,180	6,783	7,357	8,527	9,387	10,447	11,712	11,963	11,984
Oceania	15,787	20,348	24,214	26,879	30,314	38,282	40,823	41,165	52,025	62,856	66,767	62,920	61,252	52,183	55,471	62,552	61,149	59,741
Australia	14,798	19,058	22,695	25,199	28,715	36,103	38,786	39,237	49,862	60,238	64,064	60,067	58,300	49,683	52,864	59,684	58,400	56,853
New Zealand	990	1,291	1,519	1,679	1,600	2,179	2,036	1,928	2,162	2,618	2,704	2,853	2,952	2,501	2,607	2,868	2,749	2,888

EU = European Union; KTI = knowledge and technology intensive.

**Note(s):**

*Value added* is the amount contributed by a country, an industry, or other entity to the value of a good or service and excludes purchases of domestic and imported materials and inputs. 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. KTI services industries include information technology and other information services, software publishing, and scientific research and development. Detail may not add to total because of rounding. The world total and regional totals do not include all countries and economies due to limitations in data availability. See Table SKTI-4 for a full list of countries and economies in each region for which data are available. China includes Hong Kong. The EU total excludes the United Kingdom (UK) to reflect the new EU country composition following the UK's withdrawal on 1 February 2020. In order to maintain consistency over time, the EU aggregate excludes the UK for the entire time series.

**Source(s):**

U.S. Bureau of Economic Analysis, Value Added by Industry, accessed 5 October 2021; IHS Markit, special tabulations (2021) of the Comparative Industry Service.

*Science and Engineering Indicators*