

APPENDIX TABLE 6-2

Value added of KTI industries, by region, country, or economy: 2001–16

(Millions of current dollars)

Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
World	10,471,598	10,967,075	12,282,767	13,619,901	14,576,052	15,693,496	17,559,135	18,881,112	18,354,076	19,790,306	21,467,731	22,207,724	22,819,057	23,635,692	22,976,292	23,583,274
North America																
Canada	231,704	238,200	277,279	313,754	350,829	397,739	438,623	454,557	423,139	491,510	541,188	551,595	552,470	539,922	484,375	485,276
Mexico	135,041	146,194	143,068	151,978	174,400	195,317	214,277	225,615	186,820	218,888	236,117	243,754	266,306	268,945	248,150	232,613
United States	3,953,352	4,130,076	4,308,094	4,526,178	4,814,632	5,111,909	5,327,687	5,401,433	5,411,631	5,599,561	5,788,823	6,083,829	6,238,223	6,544,914	6,887,573	7,111,451
Central and South America																
Argentina	86,535	28,755	31,812	35,903	44,926	55,664	71,038	92,743	93,859	110,878	136,429	153,460	158,375	134,725	146,350	130,034
Bolivia	1,286	1,197	1,141	1,152	1,204	1,320	1,478	1,833	2,053	2,258	2,456	2,901	3,276	3,620	4,066	4,971
Brazil	164,184	152,688	160,858	189,243	248,166	312,660	399,992	477,621	467,744	604,651	710,288	666,822	674,600	682,588	505,741	509,499
Chile	22,891	20,068	18,712	23,204	27,938	32,231	37,910	42,463	43,224	52,723	62,285	68,202	73,737	68,794	66,328	69,256
Colombia	21,177	21,282	20,375	25,000	31,213	34,289	44,070	52,056	50,813	61,919	68,611	76,639	79,476	79,963	65,313	63,513
Costa Rica	3,737	3,990	4,230	4,519	4,954	5,666	6,701	7,968	8,707	10,921	12,671	14,394	15,847	15,677	17,098	18,211
Ecuador	5,314	6,052	7,119	8,039	9,109	10,134	11,157	13,124	14,513	15,982	17,486	19,875	21,146	23,324	23,542	22,696
Honduras	1,756	1,843	1,957	2,084	2,340	2,622	3,038	3,524	3,914	4,128	4,355	4,635	4,782	5,009	5,104	5,238
Panama	3,501	3,673	3,759	3,857	4,241	4,546	5,183	5,769	6,583	7,048	7,706	8,580	9,610	10,728	11,429	12,610
Peru	11,931	12,729	13,901	15,232	16,948	19,269	21,805	25,447	25,812	30,648	34,523	40,212	42,401	43,959	42,054	43,329



Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Uruguay	6,253	4,037	3,176	3,308	4,216	4,748	5,536	7,328	7,910	10,247	12,250	13,484	15,238	15,394	14,512	14,330
Venezuela	29,053	21,192	18,171	20,452	23,788	31,105	42,644	55,630	69,056	42,082	55,984	72,277	69,948	54,679	89,485	16,948
Europe																
EU	2,732,162	3,012,884	3,688,951	4,268,442	4,456,285	4,738,035	5,474,827	5,833,684	5,323,383	5,319,806	5,695,235	5,400,690	5,626,960	5,837,474	5,174,521	5,200,041
Austria	56,227	61,892	75,901	85,796	91,310	98,768	114,585	127,640	116,272	116,556	127,990	121,593	128,130	131,682	115,543	118,851
Belgium	82,278	90,028	109,695	126,034	131,885	139,066	158,029	175,813	168,956	170,472	184,916	176,389	186,974	193,262	168,176	171,165
Bulgaria	2,515	3,130	3,892	4,869	5,873	6,203	8,890	10,919	10,596	11,564	13,250	12,258	12,670	13,451	11,547	11,734
Czech Republic	16,713	20,830	25,854	30,964	36,277	41,813	52,241	65,903	58,083	60,784	67,929	62,017	62,638	63,928	57,274	58,397
Denmark	49,890	54,436	67,690	77,419	80,253	85,320	97,290	111,486	108,518	108,859	115,234	110,485	117,373	121,240	107,588	109,382
Finland	37,701	41,281	48,756	56,705	58,384	62,811	76,064	83,366	73,228	72,317	79,044	73,885	77,415	79,737	69,189	69,885
France	413,688	456,308	564,994	643,762	667,122	704,363	803,823	874,027	835,384	824,222	878,606	837,376	862,748	871,315	755,723	770,161
Germany	674,669	732,738	889,676	1,010,505	1,016,107	1,066,131	1,209,815	1,294,471	1,161,269	1,192,633	1,296,044	1,232,184	1,314,240	1,369,593	1,184,468	1,218,021
Greece	28,015	33,039	42,301	53,287	55,725	62,191	72,226	79,899	76,969	67,926	64,634	52,636	50,726	48,684	41,512	41,901
Hungary	14,081	18,346	24,812	30,138	33,856	35,036	40,535	45,260	38,026	39,598	41,798	37,648	40,282	41,974	37,838	37,932
Ireland	42,596	49,752	65,977	76,922	83,623	90,906	109,295	120,383	114,162	111,501	120,094	113,347	117,520	128,457	127,973	135,444
Italy	324,680	353,277	439,987	497,337	515,001	533,498	610,022	663,792	610,900	594,196	626,082	572,598	590,198	598,985	515,780	519,635
Netherlands	125,770	141,419	180,113	205,354	214,946	221,900	251,610	278,546	271,035	273,773	291,656	272,208	280,872	286,409	249,500	252,889
Poland	47,904	49,840	55,798	65,762	78,506	83,938	106,599	133,009	108,380	116,684	128,308	118,199	128,209	135,172	114,997	115,507
Portugal	32,396	35,703	44,220	51,278	53,273	56,539	65,386	73,163	66,956	63,768	65,097	56,071	56,996	56,443	48,698	49,558

Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Romania	7,596	8,482	10,494	13,621	17,464	21,893	31,991	40,626	32,213	34,522	39,805	37,169	47,187	49,763	44,136	46,884
Slovakia	4,653	5,908	7,773	9,204	10,118	11,723	16,445	20,073	20,212	21,490	23,507	22,848	24,345	24,599	20,886	21,436
Spain	164,020	184,098	234,983	275,061	294,482	322,736	386,892	439,584	418,871	382,116	393,000	354,629	355,415	360,049	307,502	319,879
Sweden	81,104	89,552	113,323	132,778	136,209	144,838	165,890	171,881	145,174	167,076	196,079	189,456	202,537	201,003	176,572	181,558
United Kingdom	525,667	582,826	682,713	821,644	875,871	948,360	1,097,198	1,023,844	888,178	889,749	942,161	947,694	970,488	1,061,728	1,019,618	949,823
Other Europe																
Norway	38,951	46,420	57,294	65,003	72,760	77,809	95,682	108,561	102,688	111,792	127,788	132,752	136,942	132,685	111,435	109,248
Russia	57,609	66,148	80,972	113,577	148,433	195,027	267,561	342,530	268,047	306,215	361,485	388,010	427,207	398,503	272,011	269,543
Switzerland	108,597	118,036	139,870	157,044	164,175	175,156	198,266	223,663	218,781	231,858	279,093	270,108	281,988	285,965	272,892	270,749
Turkey	41,102	39,912	49,573	62,515	76,730	85,160	109,855	127,453	115,420	129,224	130,820	136,370	143,024	139,064	132,971	136,052
Ukraine	6,900	8,244	10,565	14,970	18,112	22,936	32,238	42,734	29,050	33,047	36,629	41,865	45,094	30,672	16,616	16,630
Middle East																
Bahrain	2,902	3,031	3,671	4,485	5,312	5,946	7,118	7,778	7,870	8,477	8,771	9,524	10,070	10,646	10,343	10,935
Iran	15,992	20,574	25,568	31,152	35,972	45,352	57,010	67,883	75,440	85,220	112,079	83,564	62,237	71,116	67,543	73,412
Israel	52,569	48,351	49,827	53,673	57,481	61,427	71,098	87,070	86,454	94,748	105,232	106,296	117,899	122,943	118,795	125,305
Jordan	2,175	2,466	2,551	2,913	3,436	3,991	4,625	5,824	6,059	6,593	6,996	7,676	8,440	8,675	8,938	9,237
Kuwait	6,761	7,915	9,880	11,926	16,261	19,916	27,029	29,168	24,838	27,855	26,669	28,838	29,386	31,114	22,191	22,045
Oman	3,221	3,729	4,078	4,693	5,182	5,917	7,010	8,312	9,698	10,490	13,151	16,069	17,301	18,800	18,848	17,764
Qatar	1,584	1,847	2,186	3,954	5,884	8,512	11,826	14,905	19,142	18,721	23,080	26,362	28,412	31,321	33,794	34,883



Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Saudi Arabia	28,821	30,177	32,756	36,906	41,868	47,394	57,533	63,989	71,198	80,014	87,118	97,372	104,993	114,164	100,375	92,456
United Arab Emirates	15,954	18,079	20,374	24,326	29,726	34,907	45,492	51,478	50,137	51,136	56,089	61,200	67,490	69,693	66,179	68,158
Africa																
Cameroon	958	1,124	1,269	1,495	1,616	1,681	1,991	2,297	2,382	2,530	2,848	2,798	3,115	3,447	3,055	3,347
Egypt	25,351	22,339	18,738	20,467	23,325	25,648	25,154	30,253	33,929	38,071	42,622	46,538	45,001	50,254	54,426	48,309
Ghana	1,286	1,496	1,846	2,130	2,579	3,074	3,722	4,203	3,966	5,167	5,895	6,588	7,454	6,979	7,503	8,469
Kenya	2,782	2,954	3,608	3,616	4,062	4,912	6,028	6,969	7,020	7,182	7,138	8,518	9,472	10,484	10,522	11,712
Morocco	9,113	9,814	11,706	13,291	15,082	16,263	19,749	21,841	22,150	22,929	25,547	25,209	27,302	28,558	25,586	25,381
Nigeria	13,733	15,834	17,762	23,643	30,595	42,534	51,960	66,459	68,341	79,401	86,013	99,973	117,645	135,627	124,413	103,463
Senegal	729	823	1,058	1,283	1,414	1,578	1,915	2,277	2,167	2,195	2,478	2,415	2,546	2,658	2,393	2,813
South Africa	26,289	24,979	38,917	50,751	57,163	58,540	65,082	60,004	59,758	74,867	82,107	85,058	77,529	75,291	67,782	63,956
Tunisia	3,658	3,843	4,601	5,242	5,590	6,214	7,323	8,616	8,319	9,082	9,326	9,141	9,222	9,586	8,429	8,200
Asia																
Bangladesh	6,447	6,753	7,277	7,758	8,080	10,233	11,590	13,306	15,224	17,081	18,194	19,491	23,474	27,403	32,145	36,840
China	406,983	449,991	522,588	589,472	685,285	838,768	1,106,436	1,406,106	1,567,581	1,885,590	2,321,508	2,670,926	3,102,519	3,473,913	3,838,023	4,048,955
India	93,351	100,771	119,467	143,384	166,630	187,297	235,205	258,321	267,706	326,613	376,266	370,715	392,620	424,271	436,092	478,936
Indonesia	29,466	36,976	46,189	51,231	54,772	65,604	79,324	93,399	97,754	128,335	149,763	158,674	165,178	162,377	160,402	176,173
Japan	1,551,268	1,497,397	1,635,628	1,762,280	1,757,709	1,717,416	1,738,756	1,912,565	1,916,850	2,115,737	2,100,546	2,326,197	1,891,833	1,765,036	1,598,669	1,780,742
Malaysia	26,893	29,108	32,042	35,822	36,574	42,263	47,360	51,643	47,404	59,460	66,961	73,384	77,138	79,830	71,168	71,615



Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Pakistan	8,113	9,490	11,085	13,430	16,629	21,227	23,955	25,014	24,802	26,822	32,006	33,573	33,039	38,623	41,216	44,676
Philippines	15,523	16,870	17,273	19,012	21,410	25,330	31,659	34,366	37,046	42,524	47,578	53,422	59,696	62,795	66,613	69,021
Singapore	32,450	34,654	36,780	43,328	47,293	55,559	64,775	64,208	65,535	81,407	94,075	99,563	104,059	108,150	98,719	99,609
South Korea	159,767	188,641	212,926	242,277	287,682	328,527	366,779	329,064	297,313	369,052	413,390	426,400	461,405	498,150	491,964	488,448
Sri Lanka	2,110	2,803	2,638	2,664	3,167	6,384	5,018	4,933	6,343	7,853	8,308	8,654	9,382	10,300	10,997	11,254
Taiwan	103,321	110,460	118,710	131,091	141,661	147,212	154,373	157,582	144,989	170,513	185,612	188,552	196,008	210,291	207,329	203,580
Thailand	26,778	31,499	36,507	42,108	47,091	55,238	65,812	72,975	69,872	80,645	86,127	91,531	98,499	95,962	93,120	96,143
Vietnam	4,373	4,866	5,474	6,436	7,559	9,156	10,941	13,770	14,386	20,534	23,958	28,943	33,900	37,062	39,514	42,625
Australia and Oceania																
Australia	113,290	126,585	163,585	199,632	224,251	244,846	297,726	320,641	313,653	396,180	471,463	494,732	475,243	456,141	387,945	399,810
New Zealand	14,551	17,212	23,325	28,576	32,317	31,286	38,192	38,160	35,598	41,894	46,598	49,373	62,897	67,425	59,695	62,768

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

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. KTI industries include knowledge-intensive (KI) services, high-technology (HT) manufacturing, and medium-high-technology (MHT) industries formerly classified by the Organisation for Economic Co-operation and Development. KI services include business, financial, communications, education, and health. HT manufacturing industries include aerospace, communications and semiconductors, computers and office machinery, pharmaceuticals, and scientific instruments and measuring equipment. MHT manufacturing industries include motor vehicles; electrical machinery and apparatus; chemicals excluding pharmaceuticals; railroad and other transportation equipment; and machinery and equipment. Data are not available for EU members Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. China includes Hong Kong. Detail may not add to total because of rounding or minor discrepancies. See Appendix Table 6-1 for a full list of countries and economies in each region.

Source(s)



IHS Global Insight, World Industry Service database, accessed 17 July 2017.

Science and Engineering Indicators 2018