

Appendix table 6-4

**Value added of commercial KI services, by region/country/economy: 1997–2012**

(Millions of current dollars)

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
World	4,624,927	4,776,527	5,082,325	5,314,467	5,454,920	5,738,580	6,398,932	7,075,828	7,668,451	8,282,324	9,291,216	9,931,452	9,820,891	10,454,133	11,259,656	11,540,869
North America																
Canada	91,074	91,391	96,943	107,909	110,073	113,864	135,228	156,759	178,690	207,238	230,436	238,887	233,859	280,274	313,383	322,593
Mexico	38,192	42,826	51,827	61,148	68,297	81,252	80,492	87,153	104,418	115,183	129,398	136,492	115,587	131,067	146,080	151,738
United States	1,699,485	1,882,788	2,035,562	2,233,195	2,384,094	2,472,242	2,575,712	2,721,246	2,956,962	3,153,332	3,299,492	3,354,127	3,289,335	3,429,935	3,572,143	3,739,939
Central and South America																
Argentina	40,642	42,981	42,960	42,845	43,898	14,528	15,373	18,039	22,061	27,060	33,524	42,546	43,096	50,425	58,030	62,507
Bolivia	835	968	1,076	1,008	932	843	779	775	811	892	1,007	1,237	1,373	1,541	1,721	1,918
Brazil	108,915	108,088	70,370	74,870	71,395	68,520	73,762	81,823	118,858	147,990	191,659	216,893	223,036	283,693	276,753	260,760
Chile	11,949	11,831	10,754	10,593	9,685	9,472	11,449	14,202	17,348	20,071	23,715	28,060	28,428	34,686	39,614	42,736
Colombia	20,542	18,488	13,766	13,068	12,941	14,613	13,780	16,753	20,818	22,739	29,436	34,722	35,343	42,636	47,451	52,381
Costa Rica	1,566	1,626	1,746	1,954	2,109	2,289	2,449	2,586	2,823	3,255	3,863	4,538	4,731	5,902	6,728	7,390
Ecuador	2,672	2,543	1,381	1,139	1,868	2,519	3,118	3,698	4,447	4,993	5,309	3,254	3,554	4,028	4,608	5,075
Honduras	662	792	850	963	1,039	1,076	1,158	1,258	1,333	1,517	1,758	2,034	2,195	2,362	2,547	2,705
Jamaica	1,275	1,304	1,425	1,473	1,559	1,762	1,798	1,855	2,048	2,152	2,367	2,595	2,348	2,472	2,627	2,685
Panama	1,981	2,210	2,370	2,519	2,635	2,739	2,761	2,884	3,172	3,459	3,976	4,555	4,977	5,467	6,218	7,216
Peru	6,287	6,152	5,533	5,751	5,756	6,178	6,617	7,185	8,081	9,170	10,957	13,296	14,675	17,192	19,794	22,698
Uruguay	4,044	4,334	4,252	4,186	4,015	2,653	2,052	2,073	2,651	2,947	3,423	4,294	4,537	5,920	7,069	7,645
Venezuela	7,261	9,884	10,280	10,743	11,791	9,140	7,630	8,276	9,386	13,126	18,631	23,512	28,594	17,795	24,460	30,197
Europe																
EU	1,264,030	1,322,469	1,371,621	1,281,583	1,314,579	1,472,836	1,818,380	2,107,548	2,200,538	2,355,501	2,742,537	2,939,322	2,796,192	2,700,980	2,818,502	2,700,927
Austria	25,186	25,956	26,072	24,145	24,972	28,144	33,782	38,263	41,151	44,524	51,726	56,509	50,179	50,129	54,279	51,041
Belgium	40,720	43,249	43,893	41,063	41,756	45,842	56,532	66,788	69,839	74,595	86,182	95,481	93,549	94,173	101,224	94,986
Bulgaria	710	940	984	1,025	1,203	1,441	1,944	2,387	2,823	2,982	4,358	4,925	4,945	4,960	5,460	5,085
Czech Republic	5,969	7,216	6,797	6,314	7,338	9,763	11,966	13,796	15,513	17,572	22,777	29,429	26,535	26,545	29,535	27,224
Denmark	20,558	20,993	20,911	19,678	20,530	22,286	28,156	32,842	34,911	37,340	43,375	48,826	48,173	46,564	51,239	49,383
Finland	11,937	13,175	13,603	13,955	14,391	15,733	17,497	20,952	20,882	23,123	28,856	31,993	29,770	29,493	32,193	31,404
France	225,428	235,307	242,333	228,555	228,651	255,459	317,404	364,341	379,034	408,492	466,586	512,087	516,787	482,600	484,515	460,458
Germany	324,134	325,163	334,376	281,234	283,758	311,193	387,224	443,298	442,882	461,377	513,522	551,377	539,175	530,963	545,124	525,638
Greece	12,603	13,535	14,819	13,406	13,161	15,776	18,986	23,517	23,592	25,463	30,507	33,783	33,373	31,287	29,652	26,016
Hungary	5,874	6,165	6,215	6,206	7,139	9,375	11,667	14,304	15,993	16,948	19,807	22,458	18,558	17,948	19,967	18,452
Ireland	10,833	12,263	13,138	15,408	17,208	19,803	28,548	33,142	40,328	45,358	52,788	55,233	45,255	42,045	43,979	41,473
Italy	145,909	149,977	156,658	148,299	154,354	170,634	217,567	245,134	254,252	259,408	303,148	332,345	313,573	303,987	307,580	285,697
Netherlands	65,993	70,147	73,682	69,072	73,089	80,414	101,902	115,798	124,044	128,640	146,316	162,152	160,878	157,405	164,188	152,727
Poland	16,150	18,535	18,638	20,776	23,318	24,549	26,107	30,855	37,296	41,490	53,117	66,274	52,613	57,554	59,520	57,927
Portugal	14,662	15,348	16,070	15,016	15,841	17,257	21,477	24,790	25,855	28,236	32,889	36,433	36,247	35,061	36,053	32,591
Romania	2,541	3,151	2,832	3,182	3,064	2,832	3,204	4,560	6,025	8,018	12,763	16,647	12,808	12,703	14,064	15,266
Slovakia	2,282	2,311	1,944	2,059	2,067	2,888	3,744	4,868	5,802	6,683	9,060	11,500	11,609	10,347	10,901	10,671
Spain	66,129	70,608	71,554	68,849	75,722	86,509	110,486	128,995	139,404	155,041	192,801	219,296	223,060	211,118	228,999	209,155
Sweden	34,355	34,474	37,318	36,225	34,192	36,124	44,869	54,038	56,309	60,036	70,257	74,533	63,427	70,367	82,707	81,506
United Kingdom	232,057	253,956	269,784	267,117	272,826	316,814	375,319	444,881	464,604	510,175	601,700	578,042	515,678	485,731	517,324	524,227
Other Europe																
Norway	15,683	16,195	16,718	16,139	16,976	20,019	25,216	29,795	33,878	35,602	45,021	49,141	46,920	47,970	53,469	55,582

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**Value added of commercial KI services, by region/country/economy: 1997–2012**

(Millions of current dollars)

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Russia	30,179	19,969	15,113	20,846	29,287	32,638	42,553	55,654	74,665	98,673	144,317	181,435	148,432	167,218	188,897	203,272
Switzerland	54,374	57,215	56,324	54,382	52,274	58,436	70,224	77,901	80,148	86,430	98,878	111,488	109,442	113,419	136,680	134,371
Ukraine	3,375	2,859	2,065	2,091	3,236	3,788	4,881	8,586	9,794	12,215	18,765	25,880	18,410	18,919	20,012	19,901
<b>Middle East</b>																
Bahrain	1,941	2,062	2,090	2,390	2,198	2,267	2,870	3,621	4,229	4,794	5,504	5,912	5,804	6,262	6,596	6,990
Iran	5,124	5,370	4,802	6,423	8,272	10,989	14,333	17,381	19,856	24,948	33,336	38,825	41,015	47,326	56,519	45,595
Israel	20,713	22,827	23,284	27,941	27,914	26,641	26,733	29,465	33,035	35,480	41,485	51,223	51,760	58,396	64,204	64,549
Jordan	1,068	1,179	1,208	1,338	1,507	1,638	1,734	1,971	2,323	2,612	2,934	3,722	3,938	4,393	4,751	5,187
Kuwait	2,192	2,552	2,866	3,194	3,527	4,185	5,871	7,418	11,278	14,814	20,866	21,337	16,833	18,230	18,170	19,440
Qatar	968	1,111	1,156	1,210	1,395	1,602	1,758	2,510	3,901	7,152	10,044	12,999	14,796	15,975	19,441	21,665
Saudi Arabia	17,282	17,317	18,258	18,956	19,760	20,671	21,732	23,257	25,133	27,134	29,219	31,789	34,594	36,472	39,519	42,599
Turkey	32,336	46,613	53,233	51,437	42,293	41,070	50,294	64,635	78,940	90,995	117,135	134,835	122,805	137,786	139,633	141,105
United Arab Emirates	7,171	7,984	8,532	9,241	15,288	17,419	19,691	23,732	29,145	34,444	45,288	50,550	49,846	51,320	53,918	56,989
<b>Africa</b>																
Cameroon	766	802	777	681	736	782	989	922	974	978	1,091	1,271	1,289	1,330	1,421	1,404
Egypt	13,069	14,573	16,175	16,801	16,522	13,950	11,801	13,746	14,980	16,124	18,451	22,481	25,038	27,808	29,627	31,274
Kenya	967	983	819	984	1,205	1,246	1,489	1,433	1,685	2,141	2,796	3,028	3,298	3,506	3,854	4,565
Morocco	2,295	5,002	5,121	4,998	5,052	5,513	6,485	7,556	8,472	9,483	12,062	13,513	13,912	13,742	15,097	15,241
Nigeria	3,270	4,224	1,248	1,358	1,503	1,776	2,000	2,837	4,231	7,014	7,813	9,387	9,185	12,276	14,341	18,196
Senegal	379	390	434	418	471	535	722	918	1,034	1,201	1,467	1,766	1,647	1,618	1,850	1,906
South Africa	19,334	18,200	19,383	19,285	17,868	16,806	26,554	34,941	39,663	42,293	47,983	44,046	44,316	56,985	63,821	61,793
Tunisia	3,118	3,218	3,463	3,202	3,392	3,684	4,399	4,999	5,260	5,749	6,512	7,423	7,532	7,696	8,104	8,161
Zimbabwe	1,351	1,209	803	784	1,120	935	1,363	715	292	117	254	400	574	542	787	748
<b>Asia</b>																
Bangladesh	2,903	2,938	3,109	3,158	3,193	3,354	3,621	3,860	4,032	4,228	4,806	5,447	6,289	7,041	7,425	7,478
China	123,774	123,274	127,591	136,587	145,048	153,865	165,221	188,283	218,751	278,695	389,355	489,283	563,064	666,433	818,253	950,962
India	41,794	42,960	48,699	50,140	55,514	60,146	70,977	79,661	91,031	103,982	133,001	152,638	159,590	204,165	236,443	234,491
Indonesia	18,924	7,139	9,358	13,206	12,581	16,377	20,228	22,565	25,082	31,557	37,369	42,943	46,062	61,683	73,557	76,312
Japan	628,793	573,819	660,665	728,208	663,355	651,907	708,344	753,456	765,039	740,221	734,745	798,894	837,912	907,009	977,916	989,659
Malaysia	18,147	13,159	13,945	13,450	14,065	15,519	16,255	17,016	18,269	21,179	24,759	28,126	28,867	34,123	37,967	40,876
Pakistan	4,461	4,415	4,508	4,746	4,380	4,983	5,491	6,046	7,334	9,556	11,104	11,491	11,940	12,236	13,839	14,955
Philippines	8,220	8,229	10,499	10,094	9,853	10,797	11,606	12,901	15,220	18,629	23,168	27,060	27,811	32,643	37,319	41,359
Singapore	22,325	18,993	18,157	18,782	18,152	18,346	20,236	23,053	21,702	25,614	32,744	36,987	36,704	43,982	51,949	55,200
South Korea	65,598	45,314	60,247	65,634	66,753	82,674	92,327	98,837	118,416	133,692	148,693	133,470	115,211	141,673	154,056	159,960
Sri Lanka	1,629	2,072	2,100	2,180	2,167	2,715	2,994	3,318	3,904	4,750	5,585	7,130	7,863	9,414	10,936	10,794
Taiwan	39,537	36,728	41,471	45,202	41,566	41,369	41,490	44,888	48,385	48,604	50,674	52,969	47,385	53,153	58,887	59,851
Thailand	16,581	10,776	11,602	12,209	12,124	14,316	16,425	19,088	21,076	24,340	28,808	31,568	30,961	35,681	40,208	43,716
Vietnam	1,715	1,731	1,811	1,929	2,058	2,205	2,461	2,867	3,276	3,747	4,372	5,544	6,093	6,569	7,300	8,195

Appendix table 6-4

**Value added of commercial KI services, by region/country/economy: 1997–2012**

(Millions of current dollars)

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Australia/Oceania																
Australia	81,062	73,096	82,218	81,333	76,893	86,333	110,837	134,644	149,629	163,022	196,414	212,299	270,378	345,637	411,559	430,281
New Zealand	11,100	9,356	9,756	8,564	8,757	10,558	14,185	17,236	19,944	19,487	22,911	22,790	21,516	27,124	33,603	35,141

EU = European Union; KI = knowledge intensive.

NOTES: Value added is the amount contributed by country, firm, or other entity to the value of a good or service and excludes purchases of domestic and imported materials and inputs. KI services include education, health, and business, financial, and communications services and are classified by Organisation for Economic Co-operation and Development. 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/economies in each region.

SOURCE: IHS Global Insight, special tabulations (2013) of the World Industry Service database.

*Science and Engineering Indicators 2014*