

DATA

Data 1 Transitions in nominal domestic production value by industry in Japan

(Unit: billion yen)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Commerce	95,066	94,495	94,484	94,401	98,147	104,080	100,830	97,088	98,423	87,497	89,265	94,238	94,890	93,093	93,583	96,107	95,559	94,227	95,349	93,989	90,117
Real estate	68,103	68,783	69,132	69,654	68,976	68,470	70,167	71,642	73,071	73,984	72,798	72,178	73,900	77,585	78,908	80,719	80,635	80,636	80,235	80,510	80,226
Medical care/welfare	44,522	46,886	47,107	49,865	50,026	51,138	51,489	52,406	53,409	55,576	57,828	59,268	63,071	64,746	64,948	67,587	69,217	69,348	70,114	70,931	69,034
Construction	76,490	73,501	69,459	66,962	63,053	62,863	60,634	58,388	56,798	55,698	52,819	52,290	53,781	60,259	60,512	60,664	61,755	64,393	63,006	64,657	62,285
Business-oriented services	46,855	47,406	44,087	46,114	45,011	49,904	54,539	57,791	58,527	55,979	54,744	58,274	57,596	60,288	62,520	64,738	67,639	69,027	73,149	74,340	71,865
Transportation Machinery	41,787	42,566	44,838	46,983	47,983	51,152	56,013	59,497	59,250	41,051	50,886	45,572	49,914	51,231	53,267	55,378	54,610	57,703	58,868	57,776	49,737
Personal services	60,080	57,463	57,232	55,701	55,867	56,098	56,873	56,517	55,512	53,957	53,055	52,039	52,569	52,807	53,330	54,301	54,089	54,129	53,847	56,320	41,913
Information and telecommunications industry	120,381	116,700	112,435	113,047	113,717	112,575	115,128	117,322	113,878	101,052	101,590	96,230	92,835	94,929	100,574	104,765	104,332	106,835	109,287	109,283	104,776
All industries	955,537	941,882	923,480	930,132	944,838	972,377	992,868	1,009,993	1,018,298	911,679	931,850	931,711	942,503	966,186	995,021	1,007,888	1,001,406	1,026,510	1,045,999	1,048,675	981,095

Data 2 Transitions in real domestic production value by industry in Japan

(Unit: billion yen at 2015 prices)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Commerce	94,169	94,108	96,260	97,767	101,479	106,054	101,870	97,667	96,338	89,909	92,708	97,397	98,412	97,129	95,618	96,107	95,659	94,457	94,142	92,488	89,186
Real estate	65,834	66,396	66,881	67,527	67,246	66,908	68,546	69,933	71,090	72,089	71,376	71,255	73,372	77,476	78,773	80,719	80,809	80,947	80,633	80,822	80,475
Medical care/welfare	44,020	46,379	47,858	49,182	50,214	51,731	52,042	52,929	54,107	55,918	58,260	60,114	64,017	65,754	65,955	67,587	68,308	67,490	66,642	66,803	64,926
Construction	85,887	83,541	79,871	76,787	71,537	70,395	66,238	61,891	57,951	57,318	54,321	55,188	57,201	62,774	60,878	60,664	61,015	62,819	60,060	60,320	57,736
Business-oriented services	44,277	45,786	43,484	46,384	45,915	51,266	56,149	59,881	60,745	58,088	57,677	61,503	60,626	63,024	63,635	64,738	66,989	67,767	71,316	71,691	68,056
Transportation Machinery	41,356	43,108	46,169	49,055	50,553	54,496	59,502	62,918	61,516	41,306	51,836	46,246	51,286	53,101	53,922	55,378	54,864	58,424	59,776	58,679	49,943
Personal services	65,177	62,552	62,239	60,378	60,140	60,204	60,623	59,740	57,941	56,175	55,217	54,130	54,603	54,565	54,825	54,301	53,592	53,293	52,453	54,257	40,212
Information and telecommunications industry	90,611	92,071	92,451	95,043	96,931	97,866	101,867	105,300	104,457	95,684	98,304	95,244	93,485	96,296	100,645	104,765	104,893	106,964	109,021	109,639	104,798
All industries	972,518	967,171	961,599	970,384	981,462	1,033,039	1,013,854	1,023,402	1,007,550	927,205	956,943	954,051	974,792	992,744	1,000,923	1,007,888	1,008,760	1,019,888	1,023,202	1,020,480	961,676

Data 3 Transitions in nominal GDP by industry of Japan

(Unit: billion yen)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Commerce	68,113	67,535	67,358	67,131	69,620	73,642	70,812	67,673	68,085	60,066	60,810	63,702	64,092	62,828	63,109	64,760	64,203	63,123	63,688	62,307	61,005
Real estate	58,225	58,663	58,818	59,118	58,399	57,829	59,092	60,160	61,182	61,766	60,599	59,907	61,468	64,670	65,913	67,570	67,299	67,099	66,565	66,530	66,871
Medical care/welfare	26,323	27,706	27,821	29,433	29,512	30,151	30,399	30,982	31,617	32,944	34,324	35,226	37,721	38,964	39,327	41,176	42,511	42,933	43,752	43,471	41,755
Construction	34,482	33,007	31,072	29,840	27,989	27,796	26,826	25,847	25,157	24,684	23,422	23,200	23,916	26,858	27,033	27,162	27,643	28,816	28,188	29,108	28,668
Business-oriented services	29,861	30,265	28,195	29,542	28,885	32,080	34,946	36,910	37,258	35,519	34,622	36,734	36,536	38,485	40,160	41,844	43,371	43,906	46,152	48,080	47,239
Transportation Machinery	10,994	10,980	11,336	11,636	11,637	12,143	13,216	13,952	13,809	9,508	11,712	10,423	11,485	11,858	12,402	12,969	12,677	13,276	13,423	13,243	11,793
Personal services	32,982	31,546	31,421	30,582	30,675	30,803	31,081	30,740	30,049	29,067	28,443	27,764	27,760	27,598	27,580	27,786	27,917	28,178	28,270	28,249	21,997
Information and telecommunications industry	62,058	59,872	57,582	56,902	56,324	55,210	56,219	57,164	55,545	50,038	49,426	47,161	45,683	46,393	48,539	49,896	49,605	50,602	51,710	52,261	50,957
All industries	533,395	524,272	511,924	510,994	512,953	521,958	526,338	529,176	528,710	486,522	486,732	486,119	493,062	507,190	522,726	533,183	532,150	539,911	547,645	552,447	533,333

Data 4 Transitions in real GDP by industry of Japan

(Unit: billion yen at 2015 prices)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Commerce	68,020	67,708	68,982	69,783	72,142	75,092	71,542	68,028	66,545	61,585	62,967	65,591	66,284	65,429	64,421	64,760	64,326	63,388	63,047	61,647	60,606
Real estate	58,406	58,658	58,838	59,157	58,661	58,118	59,209	60,069	60,718	61,223	60,273	59,826	61,558	64,952	65,990	67,570	67,531	67,531	67,155	67,167	67,472
Medical care/welfare	26,234	27,635	28,510	29,294	29,903	30,801	30,948	31,438	32,098	33,132	34,478	35,532	38,129	39,463	39,882	41,176	41,227	40,350	39,644	38,525	35,799
Construction	38,570	37,427	35,698	34,238	31,821	31,238	29,272	27,237	25,397	25,014	23,607	23,882	24,968	27,636	27,030	27,162	27,240	27,963	26,657	26,655	26,046
Business-oriented services	27,751	28,837	27,544	29,535	29,390	32,986	36,061	38,387	38,870	37,102	36,771	39,137	38,731	40,421	40,972	41,844	42,866	42,926	44,714	46,000	44,025
Transportation Machinery	9,269	9,706	10,442	11,144	11,536	12,491	13,705	14,561	14,305	9,651	12,169	10,908	12,075	12,480	12,651	12,969	12,874	13,737	14,083	14,087	12,278
Personal services	36,084	34,535	34,268	33,151	32,928	32,871	32,815	32,055	30,817	29,613	28,848	28,025	28,187	28,086	28,137	27,786	27,547	27,517	27,205	26,646	20,415
Information and telecommunications industry	33,878	35,295	36,585	37,162	38,530	40,227	42,008	44,208	45,206	43,315	44,526	45,040	44,836	46,226	48,087	49,896	50,042	50,986	52,005	53,385	51,656
All industries	505,301	503,604	501,795	504,432	509,256	520,561	522,593	524,943	518,941	490,380	498,627	501,720	513,613	524,541	529,697	533,183	533,024	535,800	536,135	535,755	514,961

Data 5 Transitions in the number of employees by industry of Japan

(Unit: 10,000 employees)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Commerce	1,371	1,336	1,248	1,199	1,189	1,174	1,166	1,169	1,152	1,141	1,149	1,150	1,124	1,148	1,114	1,100	1,190	1,198	1,210	1,205	1,191
Real estate	70	63	62	61	59	59	62	86	83	81	82	86	86	88	90	96	97	97	101	100	107
Medical care/welfare	452	471	495	509	551	582	585	588	595	603	617	628	669	717	734	769	761	764	783	797	809
Construction	646	619	603	589	574	560	573	590	593	594	591	613	590	566	530	498	607	610	617	618	603
Business-oriented services	487	500	515	554	572	587	575	567	572	568	587	616	624	656	681	711	663	678	717	722	729
Transportation Machinery	98	96	97	97	99	100	104	110	108	99	99	99	99	103	102	108	111	113	115	112	110
Personal services	861	863	871	874	886	881	916	906	912	876	857	849	886	800	812	861	769	789	815	838	830
Information and telecommunications industry	486	462	431	426	429	428	432	431	431	424	415	410	407	420	415	415	418	418	421	425	424
All industries	7,119	7,062	6,937	6,867	6,819	6,795	6,855	6,881	6,843	6,724	6,691	6,659	6,695	6,774	6,746	6,857	6,962	7,045			

Data 6 Transitions in nominal domestic production value by sector of the information and communication industry of Japan

(Unit: billion yen)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1. Telecommunications sector	16,700	16,878	16,906	17,172	16,309	14,685	15,430	16,169	15,990	16,063	15,696	15,722	15,036	15,295	15,505	16,354	17,480	17,844	18,082	18,028	17,731
Fixed-line communications	10,659	10,689	10,735	10,635	9,306	7,038	7,241	7,765	7,740	7,853	7,423	7,014	6,320	6,424	6,707	7,312	8,209	8,338	8,161	7,942	7,881
Mobile communications	5,788	5,940	5,884	6,256	6,716	7,350	7,868	8,062	7,892	7,837	7,876	8,301	8,288	8,415	8,328	8,544	8,762	8,999	9,393	9,262	9,039
Services associated with telecommunications	253	249	287	281	288	297	321	341	357	373	388	407	428	456	471	497	508	508	527	824	811
2. Broadcasting sector	3,306	3,392	3,419	3,495	3,614	3,678	3,788	3,937	3,877	3,877	3,799	3,561	3,664	4,320	4,618	4,724	4,790	4,763	4,847	4,741	4,493
Public broadcasting	699	703	705	706	700	669	667	674	659	657	666	682	677	683	712	743	759	775	796	801	783
Private broadcasting	2,269	2,336	2,329	2,373	2,478	2,544	2,616	2,682	2,607	2,527	2,432	2,178	2,125	2,584	2,665	2,544	2,632	2,613	2,607	2,498	2,270
Cable broadcasting	338	353	385	416	437	466	506	581	611	653	701	701	861	1,052	1,241	1,437	1,400	1,375	1,444	1,442	1,440
3. Information services sector	13,606	15,319	16,012	16,269	16,921	17,403	18,066	18,467	18,907	18,061	17,415	16,845	17,003	17,498	18,084	18,500	18,802	19,444	19,811	20,572	20,797
Software	8,954	10,053	10,150	9,956	10,012	10,028	10,696	10,916	11,174	10,444	9,940	9,640	9,875	10,259	10,691	11,130	11,281	11,856	12,134	12,679	13,092
Information processing/provision service	4,653	5,266	5,862	6,313	6,909	7,375	7,370	7,550	7,733	7,617	7,475	7,205	7,129	7,239	7,394	7,370	7,521	7,588	7,677	7,892	7,705
4. Internet-related Services sector	0	0	0	0	0	1,216	1,229	1,348	1,472	1,452	1,633	1,904	2,015	2,421	2,847	3,551	3,834	3,953	4,078	4,164	4,451
Internet-related Services	0	0	0	0	0	1,216	1,229	1,348	1,472	1,452	1,633	1,904	2,015	2,421	2,847	3,551	3,834	3,953	4,078	4,164	4,451
5. Video picture, sound information, character information production sector	7,699	7,669	7,563	7,524	7,677	7,752	7,566	7,396	7,152	6,837	6,540	6,182	6,549	6,650	6,901	6,845	6,924	6,906	6,756	6,306	5,845
Video picture, sound information, character information production (excluding news providers)	1,988	2,029	1,980	2,044	2,158	2,181	2,207	2,228	2,234	2,244	2,279	2,251	2,617	2,712	2,923	3,009	3,191	3,367	3,386	3,012	2,694
Newspapers	2,555	2,527	2,432	2,397	2,391	2,386	2,251	2,117	1,979	1,810	1,657	1,494	1,597	1,703	1,780	1,867	1,840	1,791	1,738	1,717	1,583
Publishers	2,336	2,336	2,429	2,434	2,565	2,604	2,518	2,450	2,325	2,149	1,971	1,797	1,763	1,778	1,830	1,864	1,778	1,618	1,491	1,413	1,423
News providers	820	775	723	649	563	580	590	601	615	633	633	640	572	459	369	104	115	130	141	163	146
6. ICT-related manufacturing sector	40,154	34,392	30,951	32,098	32,182	30,564	31,853	32,185	30,572	23,017	25,900	22,230	18,226	17,661	19,176	20,430	19,019	20,458	21,268	20,476	18,512
Communication cable manufacturing	365	452	389	372	259	237	299	296	293	263	309	259	256	247	242	241	216	220	250	244	302
Cable communication equipment and appliance manufacturing	2,616	1,786	1,367	1,149	1,083	968	941	889	928	684	607	651	633	550	549	495	490	567	565	427	427
Wireless communication equipment and appliance manufacturing	3,214	2,906	2,529	3,098	2,901	2,786	2,909	3,028	2,716	2,016	2,104	1,939	1,768	1,634	1,601	1,649	1,551	1,533	1,571	1,612	1,380
Other telecommunication equipment and appliance manufacturing	426	439	339	379	432	393	430	496	539	530	533	469	483	460	477	408	441	443	446	475	368
Radio and television receiver / video equipment manufacturing	2,835	2,632	2,785	3,031	3,009	2,644	2,779	2,850	2,718	2,403	2,817	1,725	874	650	607	596	469	455	399	363	206
Electrical audio equipment and appliance manufacturing	1,901	1,644	1,602	1,636	1,435	1,186	1,225	961	736	545	522	417	206	218	282	337	264	238	227	208	230
Computer and peripheral device manufacturing	7,453	6,734	5,206	4,560	4,250	3,681	3,535	3,775	3,327	2,462	2,428	2,183	1,857	1,733	1,849	1,919	1,694	1,802	1,960	2,055	1,671
Semiconductor element manufacturing	1,211	1,000	957	1,100	1,124	1,065	1,064	1,144	1,402	1,119	1,229	1,091	906	921	990	826	751	770	771	742	750
Integrated circuit manufacturing	5,045	4,012	3,576	3,982	4,184	4,177	4,381	4,447	3,820	3,006	3,531	3,232	2,701	2,780	3,139	3,584	3,482	3,686	4,010	4,183	3,801
Liquid crystal panel manufacturing	1,487	1,299	1,423	1,600	1,583	1,673	1,724	1,856	1,280	1,591	1,506	1,115	1,045	1,196	2,190	1,599	1,720	1,559	1,700	1,349	1,231
Flat panel/electron tube manufacturing	504	435	435	441	389	307	403	395	382	331	275	224	117	103	69	73	73	81	102	100	90
Other electronic component manufacturing	10,416	8,756	8,684	9,098	9,565	9,569	10,582	10,487	9,992	6,963	8,417	7,271	6,068	6,029	6,387	6,863	6,762	7,834	8,360	7,497	7,042
Office and business equipment manufacturing	2,425	2,093	1,889	1,643	1,764	1,777	1,447	1,516	1,706	1,280	1,281	1,193	1,098	1,075	1,045	1,045	1,059	996	1,011	953	1,041
Information recording media manufacturing	255	203	174	187	188	192	184	176	158	134	123	113	126	133	141	152	163	205	246	257	163
7. ICT-related service sector	21,797	21,700	20,704	20,056	20,295	20,393	19,857	19,637	17,982	15,425	15,036	14,143	14,513	14,541	15,199	15,527	15,492	15,176	15,182	15,596	13,745
ICT equipment leasing businesses	4,863	4,840	4,799	4,250	4,365	4,263	3,994	3,849	3,153	2,505	2,354	2,279	2,450	2,579	2,749	2,837	2,737	2,562	2,829	3,218	3,071
Advertising	9,133	9,101	8,471	8,526	8,782	9,083	8,869	8,768	8,005	6,444	6,262	6,078	6,474	6,405	6,978	7,213	7,440	7,459	7,436	7,386	6,406
Printing, publishing, binding businesses	7,134	7,017	6,728	6,541	6,384	6,296	6,277	6,087	5,715	5,642	5,113	4,930	4,925	4,898	4,972	4,794	4,444	4,402	4,409	4,503	4,053
Film and theatre businesses	666	742	706	738	765	752	757	744	738	762	777	673	659	633	574	505	521	517	516	582	215
8. ICT-related construction sector	1,445	1,412	913	574	443	312	246	402	377	287	250	224	234	264	211	172	194	179	179	168	167
Telecom facilities construction businesses	1,445	1,412	913	574	443	312	246	402	377	287	250	224	234	264	211	172	194	179	179	168	167
9. Research	15,673	15,938	15,965	15,858	16,274	16,572	17,092	17,783	17,551	16,074	15,331	15,419	15,595	16,277	18,033	18,660	17,797	18,112	19,083	19,233	19,035
Research	15,673	15,938	15,965	15,858	16,274	16,572	17,092	17,783	17,551	16,074	15,331	15,419	15,595	16,277	18,033	18,660	17,797	18,112	19,083	19,233	19,035
ICT industry total	120,381	116,700	112,435	113,047	113,717	112,575	115,128	117,322	113,878	101,052	101,590	96,230	92,835	94,929	100,574	104,765	104,332	106,835	109,287	109,283	104,776

Data 7 Transitions in real domestic production value by sector of the information and communication industry of Japan

(Unit: billion yen at 2015 prices)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1. Telecommunications sector	11,960	12,965	13,690	14,124	13,358	11,642	12,674	13,682	13,863	14,344	14,689	14,972	14,217	14,381	14,108	16,354	17,873	18,404	18,519	19,004	18,683
Fixed-line communications	8,701	9,485	10,102	10,245	9,160	7,045	7,270	7,813	7,821												

Data 8 Transitions in nominal GDP by sector of the information and communication industry of Japan

(Unit: billion yen)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1. Telecommunications sector	9,485	9,502	9,454	9,560	8,942	8,204	8,548	8,893	8,726	8,696	8,421	8,374	8,000	8,128	8,231	8,675	9,263	9,439	9,541	9,558	9,287
Fixed-line communications	6,014	5,990	5,992	5,941	5,115	4,080	4,138	4,373	4,294	4,291	3,995	3,716	3,361	3,429	3,592	3,931	4,430	4,516	4,438	4,257	4,191
Mobile communications	3,300	3,346	3,274	3,438	3,644	3,938	4,216	4,320	4,228	4,199	4,220	4,448	4,417	4,460	4,391	4,480	4,565	4,657	4,830	4,878	4,678
Services associated with telecommunications	171	166	188	181	183	185	194	201	204	206	207	210	222	239	248	264	268	266	273	422	418
2. Broadcasting sector	1,428	1,486	1,523	1,580	1,654	1,703	1,719	1,758	1,701	1,660	1,623	1,508	1,776	1,877	1,908	1,919	1,903	1,940	1,947	1,828	
Public broadcasting	351	358	363	368	369	357	356	360	352	351	356	365	351	342	345	347	357	367	380	363	376
Private broadcasting	868	907	918	950	1,009	1,052	1,047	1,040	976	915	850	732	710	856	876	829	856	849	846	789	713
Cable broadcasting	209	221	242	262	276	294	315	358	372	393	417	412	489	577	657	732	706	687	714	725	740
3. Information services sector	8,416	9,439	9,847	9,989	10,374	10,654	11,075	11,342	11,634	11,127	10,470	10,405	10,313	10,420	10,571	10,630	10,764	11,120	11,300	11,795	11,983
Software	5,479	6,134	6,175	6,039	6,056	6,047	6,521	6,727	6,958	6,572	6,321	6,193	6,309	6,519	6,755	6,994	7,055	7,379	7,516	7,964	8,257
Information processing/provision service	2,938	3,305	3,672	3,950	4,318	4,607	4,554	4,615	4,675	4,554	4,412	4,212	4,005	3,901	3,816	3,636	3,709	3,741	3,784	3,831	3,726
4. Internet-related Services sector	0	0	0	0	0	560	535	552	566	521	545	588	592	676	752	886	962	998	1,036	1,078	1,165
Internet-related Services	0	0	0	0	0	560	535	552	566	521	545	588	592	676	752	886	962	998	1,036	1,078	1,165
5. Video picture, sound information, character information production sector	3,411	3,404	3,352	3,339	3,403	3,445	3,291	3,145	2,974	2,781	2,597	2,393	2,569	2,641	2,776	2,774	2,822	2,928	2,780	2,551	2,477
Video picture, sound information, character information production (excluding news providers)	935	968	957	1,001	1,071	1,097	1,065	1,031	988	948	916	860	1,004	1,045	1,130	1,169	1,238	1,305	1,311	1,126	1,097
Newspapers	1,187	1,169	1,121	1,100	1,093	1,086	993	904	817	722	637	554	617	684	743	809	804	788	771	767	708
Publishers	867	864	894	893	937	948	916	891	845	781	716	652	655	677	713	743	722	669	628	576	597
News providers	422	403	380	345	302	315	317	319	324	330	327	328	293	235	189	54	58	65	71	82	75
6. ICT-related manufacturing sector	16,500	13,448	11,790	11,840	11,382	10,309	10,776	10,873	10,372	7,804	8,786	7,593	6,350	6,185	6,740	7,226	6,703	7,163	7,406	7,172	6,760
Communication cable manufacturing	154	175	137	118	73	59	82	88	95	92	115	103	99	92	86	83	72	71	78	77	96
Cable communication equipment and appliance manufacturing	913	637	498	427	410	374	361	337	349	255	248	222	233	220	187	181	162	160	184	192	144
Wireless communication equipment and appliance manufacturing	1,039	922	802	970	895	859	904	937	869	653	696	652	613	574	569	581	542	531	538	564	497
Other telecommunication equipment and appliance manufacturing	189	196	152	170	195	178	191	217	232	224	221	191	200	193	204	177	191	192	193	199	156
Radio and television receiver / video equipment manufacturing	971	879	899	948	900	760	810	847	825	729	855	557	313	235	223	175	172	152	141	71	79
Electrical audio equipment and appliance manufacturing	556	478	463	470	409	336	357	288	226	172	169	139	67	71	90	106	83	75	71	61	74
Computer and peripheral device manufacturing	1,736	1,610	1,282	1,147	1,084	950	905	969	969	647	652	574	515	479	522	556	492	525	574	619	494
Semiconductor element manufacturing	609	501	478	547	557	525	488	485	547	398	395	313	273	290	325	282	253	256	252	264	264
Integrated circuit manufacturing	3,225	2,377	1,951	1,987	1,892	1,694	1,793	1,837	1,592	1,264	1,398	1,383	1,139	1,154	1,283	1,442	1,411	1,503	1,647	1,726	1,611
Liquid crystal panel manufacturing	609	509	382	508	544	510	528	533	561	379	460	425	334	330	598	767	557	591	465	420	358
Flat panel/electron tube manufacturing	198	162	152	145	119	87	114	112	108	93	77	63	37	36	27	31	31	34	43	43	39
Other electronic component manufacturing	5,494	4,322	3,992	3,871	3,744	3,417	3,753	3,694	3,496	2,419	2,904	2,491	2,083	2,073	2,200	2,368	2,297	2,619	2,750	2,437	2,489
Office and business equipment manufacturing	699	595	530	455	482	479	411	453	536	421	440	428	388	375	360	355	359	337	341	313	377
Information recording media manufacturing	106	85	73	78	79	80	78	75	68	59	54	50	57	62	67	74	79	98	117	122	81
7. ICT-related service sector	10,795	10,680	10,205	9,688	9,723	9,634	9,188	8,908	7,954	6,756	6,451	5,917	6,066	6,143	6,394	6,554	6,474	6,317	6,343	6,694	6,028
ICT equipment leasing businesses	3,610	3,540	3,457	3,015	3,050	2,931	2,729	2,613	2,126	1,678	1,567	1,507	1,614	1,692	1,797	1,847	1,780	1,790	1,835	2,080	2,048
Advertising	3,139	3,083	2,827	2,803	2,843	2,896	2,747	2,635	2,333	1,820	1,711	1,606	1,716	1,704	1,864	1,934	1,992	1,993	1,984	2,050	1,784
Printing, publishing, binding businesses	3,713	3,685	3,566	3,498	3,444	3,427	3,321	3,268	3,096	2,839	2,737	2,419	2,385	2,436	2,475	2,567	2,490	2,323	2,316	2,331	2,116
Film and theatre businesses	333	372	355	372	386	380	391	393	398	419	436	385	350	311	258	206	212	210	208	234	80
8. ICT-related construction sector	727	694	438	268	202	138	113	190	184	144	129	119	126	145	118	98	110	101	101	95	94
Telecom facilities construction businesses	727	694	438	268	202	138	113	190	184	144	129	119	126	145	118	98	110	101	101	95	94
9. Research	11,295	11,221	10,974	10,636	10,644	10,563	10,975	11,502	11,435	10,549	10,134	10,264	10,115	10,279	11,079	11,146	10,588	10,733	11,263	11,440	11,335
Research	11,295	11,221	10,974	10,636	10,644	10,563	10,975	11,502	11,435	10,549	10,134	10,264	10,115	10,279	11,079	11,146	10,588	10,733	11,263	11,440	11,335
ICT industry total	62,058	59,872	57,582	56,902	56,324	55,210	56,219	57,164	55,545	50,038	49,426	47,161	45,683	46,393	48,539	49,896	49,605	50,602	51,710	52,261	50,957

Data 9 Transitions in real GDP by sector of the information and communication industry of Japan

(Unit: billion yen at 2015 prices)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1. Telecommunications sector	5,267	5,790	6,190	6,405	5,913	5,150	5,617	6,218	6,454	6,838	7,140	7,486	7,208	7,404	7,377	8,675	9,556	9,912	10,083	10,548	10,279
Fixed-line communications	4,423	4,904	5,274	5,432	4,875	4,030	4,092	4,326	4,259	4,260	3,964	3,688	3,333	3,397	3,456	3,931	4,515	4,685	4,659	4,591	4,460
Mobile communications	705	748	755	811	870	944	1,340	1,701	1,999	2,381	2,975	3,592	3,633	3,767	3,673	4,480	4,768	4,952	5,140	5,054	5,368
Services associated with telecommunications	138	138	162	161	168	175	185	191	196	197	201	207	222	241	248	264	273	274	284	454	450
2. Broadcasting sector	1,131	1,19																			

Data 10 Transitions in the number of employees by sector of the information and communication industry of Japan

(Unit: 1,000 employees)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1. Telecommunications sector	421	375	338	313	285	255	269	268	287	271	265	249	220	209	194	151	148	150	149	170	180
Fixed-line communications	235	213	185	179	168	156	161	153	157	135	122	101	92	99	91	66	59	56	52	68	65
Mobile communications	143	128	117	105	91	76	83	89	101	107	112	116	95	74	65	45	55	59	63	67	80
Services associated with telecommunications	43	34	36	29	26	24	25	27	28	29	31	32	34	36	38	39	34	34	35	35	35
2. Broadcasting sector	66	67	72	70	70	73	73	72	70	69	67	66	68	73	72	69	69	67	66	71	70
Public broadcasting	14	14	14	14	14	15	14	14	14	14	14	14	14	14	13	13	13	13	13	14	13
Private broadcasting	32	33	37	37	38	37	37	36	34	33	32	32	34	35	34	33	33	32	32	32	32
Cable broadcasting	19	20	22	19	18	21	22	22	22	22	21	19	21	24	24	23	23	22	20	25	25
3. Information services sector	977	981	981	969	1,029	1,011	1,050	1,001	1,072	1,135	1,081	1,080	1,076	1,146	1,131	1,120	1,142	1,130	1,129	1,150	1,142
Software	644	667	652	637	668	646	668	646	718	780	741	740	744	815	806	799	820	804	800	821	814
Information processing/provision service	333	314	329	332	361	365	381	355	354	356	341	340	333	330	325	321	322	325	328	329	328
4. Internet-related Services sector	0	0	0	0	0	62	61	61	64	66	68	72	83	103	108	118	124	129	138	151	157
Internet-related Services	0	0	0	0	0	62	61	61	64	66	68	72	83	103	108	118	124	129	138	151	157
5. Video picture, sound information, character information production sector	322	327	336	342	364	367	351	339	319	293	278	260	277	287	290	287	295	293	287	258	236
Video picture, sound information, character information production (excluding news providers)	139	140	143	145	161	163	156	149	140	127	126	120	135	141	145	140	154	160	160	139	122
Newspapers	75	77	78	77	78	77	75	71	67	63	57	53	53	53	52	53	53	52	52	48	46
Publishers	80	87	94	101	108	110	108	106	100	91	82	74	77	80	81	82	77	70	64	60	58
News providers	28	23	22	19	17	16	13	13	13	13	13	13	12	12	12	12	12	12	11	11	10
6. ICT-related manufacturing sector	1,156	988	920	914	875	820	851	886	845	786	797	793	730	722	693	682	692	701	713	710	700
Communication cable manufacturing	7	6	6	5	4	4	4	4	5	5	5	4	5	5	4	4	5	5	4	4	4
Cable communication equipment and appliance manufacturing	47	36	26	22	18	18	18	21	20	21	21	21	21	19	18	16	16	15	15	15	14
Wireless communication equipment and appliance manufacturing	65	66	64	62	57	50	58	64	56	52	58	56	51	47	50	42	41	42	44	41	38
Other telecommunication equipment and appliance manufacturing	14	21	13	13	13	13	14	17	17	20	22	22	22	21	20	18	19	20	17	19	19
Radio and television receiver / video equipment manufacturing	74	51	67	78	66	51	54	51	47	44	45	45	38	31	26	23	20	22	22	22	21
Electrical audio equipment and appliance manufacturing	61	45	42	37	36	32	31	32	26	24	23	22	15	14	14	13	11	10	10	9	9
Computer and peripheral device manufacturing	133	113	83	76	72	61	66	78	76	74	74	74	64	62	53	48	45	44	42	41	34
Semiconductor element manufacturing	89	58	57	50	46	44	48	53	37	36	37	39	34	35	22	28	24	24	23	24	23
Integrated circuit manufacturing	125	108	114	125	120	112	108	104	104	98	100	96	90	89	79	69	70	69	79	86	79
Liquid crystal panel manufacturing	41	37	30	27	26	26	27	30	30	29	30	29	25	26	24	22	22	23	23	23	21
Flat panel/electron tube manufacturing	12	10	9	9	8	8	7	7	9	7	5	5	3	3	2	2	2	2	2	2	2
Other electronic component manufacturing	414	372	352	360	369	365	374	374	359	322	318	322	303	318	330	356	375	386	393	388	399
Office and business equipment manufacturing	66	57	50	42	34	29	35	47	56	51	55	56	53	51	47	38	38	36	35	34	34
Information recording media manufacturing	8	8	7	7	7	7	6	5	4	4	3	2	3	3	4	4	4	4	3	3	3
7. ICT-related service sector	855	895	760	767	784	822	800	804	784	740	711	698	695	701	684	681	687	678	677	683	692
ICT equipment leasing businesses	74	75	81	88	94	102	104	111	102	96	101	110	109	109	109	111	115	110	112	112	112
Advertising	246	249	246	225	217	224	213	207	204	180	153	138	151	164	175	188	191	191	193	198	199
Printing, publishing, binding businesses	513	546	409	430	448	472	460	462	455	442	436	429	413	403	375	359	357	352	347	346	372
Film and theatre businesses	22	25	24	24	24	24	24	23	22	22	21	21	23	25	24	24	25	24	24	27	10
8. ICT-related construction sector	123	98	74	59	45	29	22	33	30	34	30	27	26	25	24	22	27	27	28	28	27
Telecom facilities construction businesses	123	98	74	59	45	29	22	33	30	34	30	27	26	25	24	22	27	27	28	28	27
9. Research	943	895	829	829	838	840	847	847	844	848	848	850	890	929	954	1,016	1,000	1,002	1,023	1,035	1,035
Research	943	895	829	829	838	840	847	847	844	848	848	850	890	929	954	1,016	1,000	1,002	1,023	1,035	1,035
ICT industry total	4,862	4,625	4,311	4,263	4,289	4,278	4,325	4,311	4,315	4,243	4,145	4,095	4,067	4,196	4,150	4,146	4,184	4,176	4,210	4,254	4,240

ADDITIONAL NOTES

Annotation 1 Survey on Trends of Use of Digital Technologies in Japan and Abroad

(1) Summary of questionnaire survey

i Daily life of people

Situation of digital technology usage in workstyle, information collection and public services was surveyed targeting general citizens of Japan, the United States, Germany and China.

Item	Description						
Extracting method	Online questionnaire survey						
Survey period	Feb to Mar 2022						
Targets	Extracted from the monitors held by the questionnaire survey company with consideration to age-group balance						
Main survey Number of valid responses		20s	30s	40s	50s	60s	Total
	Japan	265	260	265	155	115	1,060
	US	157	177	171	52	87	644
	Germany	142	173	146	100	39	600
	China	132	144	144	93	36	549
	Total	696	754	726	400	277	2,853
	*People under 20 and over 70 are not included in the scope of this survey.						
Major survey items	-Basic attribute (age) -Telework use situation -Use situation of social networking service (SNS) -Use situation of electronic administrative services						

ii Corporate activities

Situation of digital technology usage in terms of technology/data, organization and human resources was surveyed targeting enterprises of Japan, the United States, Germany and China.

Item	Description			
Extracting method	Online questionnaire survey			
Survey period	Feb to Mar 2022			
Targets	Extracted from the monitors (with citizenship of the respective country and working for a company with more than 10 employees) held by the questionnaire survey company			
Main survey Number of valid responses		Big company	SME	Total
	Japan	798	498	1,296
	US	311	288	599
	Germany	326	261	587
	China	398	147	545
	Total	1,833	1,194	3,027
	*Based on the "definition of SME" of the Small and Medium Enterprise Agency ¹ and the result of a commissioned survey of the last year ² , Enterprises with 300 or more employees are classified as "large enterprise" while enterprises with less than 300 employees are classified as "SME" in "manufacturing," "construction," "electricity, gas, heat supply and water," "finance and insurance," "real estate, goods rental and leasing," "transportation and postal services" and "information and telecommunications"; Enterprises with 100 or more employees are classified as "large enterprise" while enterprises with less than 100 employees are classified as "SME" in "wholesale/retail" and "services and other,"			
Major survey items	-Basic attributes (business type, number of employees) -Data/technologies used for digitalization -Effects of digitalization -Shortage status of digital human resources and efforts to secure them -Challenges of digitalization			

(2) Analysis of digital usage trend in Japan and abroad

i Daily life of people

Situation of digital technology usage in workstyle, information collection and public services was assessed based on the questionnaire result of (1) (i) above, and characteristics and challenges of digital usage in Japan were identified through comparison of the countries.

ii Corporate activities

Efforts for digitalization in terms of technology/data, organization and human resources was assessed based on the questionnaire result of (1) (ii) above, and characteristics and challenges of digital usage in Japanese enterprises were identified through comparison of the countries.

¹ "Definition of small and medium enterprises" (Small and Medium Enterprise Agency) <https://www.chusho.meti.go.jp/soshiki/teigi.html>

² "Survey study on the economic impact of digital transformation" MIC, 2021
https://www.soumu.go.jp/johotsusintokei/linkdata/r03_02_houkoku.pdf

Annotation 2 Survey on Economic Analysis of ICT (Scope of the information and communications industry of Japan)

Scope of the information and communications industry of Japan

Scope of the information and communications industry	Sectors of the Input-Output Table of the Information Communications Industry
1. Telecommunications	
Fixed-line telecommunications	Fixed-line telecommunications
Mobile telecommunications	Mobile telecommunications
Services associated with telecommunications	Services associated with telecommunications
2. Broadcasting	
Public broadcasting	Public broadcasting
Private broadcasting	Private television/multiplex broadcasting
	Private radio broadcasting
	Private satellite broadcasting
Cable broadcasting	Cable television broadcasting
	Cable radio broadcasting
3. Information services	
Software	Software
Information processing/provision services	Information processing service
	Information provision service
4. Internet-related Services	
Internet-related Services	Internet-related Services
5. Video picture, sound information, character information production	
Video picture, sound information, character information production	Video picture, sound information, character information production (excluding news providers)
Newspapers	Newspapers
Publishers	Publishers
News providers	News providers
6. ICT-related manufacturing	
Computer and peripheral device manufacturing	Personal computer
	Computers (excluding personal computers)
	Peripheral devices of computer
Cable communication equipment and appliance manufacturing	Cable communication equipment
Wireless communication equipment and appliance manufacturing	Mobile phones
	Wireless communication equipment (excluding mobile phones)
Other telecommunication equipment and appliance manufacturing	Other telecommunication equipment
Flat panel/electron tube manufacturing	Flat panels/electron tubes
Semiconductor element manufacturing	Semiconductor elements
Integrated circuit manufacturing	Integrated circuits
Liquid crystal panel manufacturing	Liquid crystal panels
Other electronic component manufacturing	Other electronic components
Radio and television receiver / video equipment manufacturing	Radio and television receivers
	Video equipment and digital cameras
Communication cable manufacturing	Communication cables and optical fiber cables
Office and business equipment manufacturing	Office and business equipment
Electrical audio equipment and appliance manufacturing	Electrical audio equipment and appliances
Information recording media manufacturing	Information recording media
7. ICT-related services	
ICT equipment leasing business	Computer and related equipment leasing
	Office and business equipment leasing (excluding computers)
	Communication equipment and appliance leasing
Advertising business	Advertising
Printing, publishing, binding business	Printing, publishing, binding
Film and theatre business	Film, theatre and entertainment places
8. IT-related construction	
Telecom facilities construction	Telecom facilities construction
9. Research	
Research	Research

Annotation 3 Survey on economic analysis of ICT (comparison of nominal and real domestic production values (2019-2020))

The table below compares the nominal and real domestic production values. In the right columns, the “●” symbol signifies that the real value is larger than the nominal value, and the “○” symbol signifies that the nominal value is larger than the real value.

Information Communication of IO77 sector		Nominal values (million yen)		Real values (million yen)		Comparison	
		2019	2020	2019	2020	2019	2020
1	Fixed-line telecommunications	7,942,323	7,880,709	8,227,434	8,088,358	●	●
2	Mobile telecommunications	9,261,603	9,039,258	9,921,823	9,754,105	●	●
3	Services associated with telecommunications	823,607	811,297	854,964	840,512	●	●
4	Public broadcasting	801,450	782,737	801,450	788,255	○	●
5	Private television/multiplex broadcasting	2,070,342	1,876,602	2,086,337	2,141,018	●	●
6	Private radio broadcasting	116,354	101,181	115,948	99,490	○	○
7	Private satellite broadcasting	310,941	291,852	293,895	272,250	○	○
8	Cable television broadcasting	541,443	540,726	531,869	518,433	○	○
9	Cable radio broadcasting	900,708	899,515	893,117	875,015	○	○
10	Software	12,679,392	13,091,893	12,069,864	12,195,522	○	○
11	Information processing service	6,738,527	6,597,812	6,724,268	6,458,433	○	○
12	Information provision service	1,153,808	1,107,482	1,123,963	1,060,988	○	○
13	Internet-related Services	4,164,134	4,450,950	4,069,186	4,439,112	○	○
14	Newspapers	1,717,334	1,582,639	1,648,113	1,501,555	○	○
15	Publishers	1,412,902	1,422,582	1,344,833	1,316,455	○	○
16	News providers	163,270	145,996	160,199	140,990	○	○
17	Video picture, sound information, character information production (excluding news providers)	3,012,404	2,693,680	2,955,747	2,601,325	○	○
18	Personal computer	904,757	699,293	901,077	725,224	○	●
19	Computers (excluding personal computers)	79,477	66,252	81,696	68,489	●	●
20	Peripheral devices of computer	1,070,634	905,667	1,202,397	1,009,944	●	●
21	Cable communication equipment	565,476	426,993	548,299	408,706	○	○
22	Mobile phones	109,137	101,193	127,387	119,604	●	●
23	Wireless communication equipment (excluding mobile phones)	1,502,428	1,278,917	1,608,452	1,361,878	●	●
24	Other telecommunication equipment	474,573	368,175	478,160	366,191	●	○
25	Semiconductor elements	742,097	749,575	741,726	737,710	○	○
26	Integrated circuits	4,182,839	3,801,206	4,684,467	4,306,096	●	●
27	Liquid crystal panels	1,222,719	1,040,657	1,299,369	1,106,874	●	●
28	Flat panels/electron tubes	100,205	89,685	99,156	87,377	○	○
29	Other electronic components	7,497,123	7,042,281	7,418,609	6,861,035	○	○
30	Radio and television receivers	57,347	21,844	64,637	25,845	●	●
31	Video equipment and digital cameras	305,637	183,826	312,327	188,750	●	●
32	Communication cables and optical fiber cables	244,122	301,959	239,011	290,103	○	○
33	Office and business equipment	952,581	1,041,176	1,279,240	1,137,140	●	●
34	Electrical audio equipment and appliances	207,664	229,834	210,116	230,064	●	●
35	Information recording media	256,797	163,460	255,476	160,345	○	○
36	Computer and related equipment leasing	2,122,269	2,031,065	2,200,632	2,118,177	●	●
37	Office and business equipment leasing (excluding computers)	539,556	506,934	550,426	518,823	●	●
38	Communication equipment and appliance leasing	556,673	532,750	549,664	518,154	○	○
39	Advertising	7,386,286	6,405,589	7,074,241	6,482,316	○	●
40	Printing, publishing, binding	4,409,255	4,052,846	4,265,313	3,813,864	○	○
41	Film, theatre and entertainment places	582,029	215,424	573,073	209,376	○	○
42	Telecom facilities construction	168,275	167,325	157,960	155,804	○	○
43	Research	19,232,954	19,034,700	18,892,881	18,698,133	○	○

Annotation 4 List of domestic production of 77 sector

ICT goods/services	General goods/services
1 Fixed-line telecommunications	44 Agriculture, forestry and fisheries
2 Mobile telecommunications	45 Mining
3 Services associated with telecommunications	46 Food and beverage
4 Public broadcasting	47 Textile products
5 Private television/multiplex broadcasting	48 Pulp, paper and wood products
6 Private radio broadcasting	49 Chemicals
7 Private satellite broadcasting	50 Petroleum and coal products
8 Cable television broadcasting	51 Plastic and rubber products
9 Cable radio broadcasting	52 Ceramics, stone and clay products
10 Software	53 Steel
11 Information processing service	54 Non-ferrous metals
12 Information provision service	55 Metal products
13 Internet-related Services	56 General-purpose machinery
14 Newspapers	57 Miscellaneous manufacturing products
15 Publishers	58 Production machinery
16 News providers	59 Business-oriented machinery
17 Video picture, sound information, character information production (excluding news providers)	60 Electric machine
18 Personal computer	61 Transportation machine
19 Computers (excluding personal computers)	62 Construction
20 Peripheral devices of computer	63 Electric power, gas and heat supply
21 Cable communication equipment	64 Water
22 Mobile phones	65 Waste treatment
23 Wireless communication equipment (excluding mobile phones)	66 Commerce
24 Other telecommunication equipment	67 Finance and insurance
25 Semiconductor elements	68 Real estate
26 Integrated circuits	69 Transportation and postal services
27 Liquid crystal panels	70 Public administration
28 Flat panels/electron tubes	71 Education
29 Other electronic components	72 Medical care and welfare
30 Radio and television receivers	73 Membership-based associations, n.e.c.
31 Video equipment and digital cameras	74 Business service
32 Communication cables and optical fiber cables	75 Personal service
33 Office and business equipment	76 Office supplies
34 Electrical audio equipment and appliances	77 Not elsewhere classified
35 Information recording media	
36 Computer and related equipment leasing	
37 Office and business equipment leasing (excluding computers)	
38 Communication equipment and appliance leasing	
39 Advertising	
40 Printing, publishing, binding	
41 Film, theatre and entertainment places	
42 Telecom facilities construction	
43 Research	

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