

TABLE 39

**Companies with new or improved business processes: Information and communication systems, by industry: 2016–18**

(Number and percent)

Industry	NAICS code	Companies (number)	Innovating information and communication systems			
			Number		Percent	
			Yes	No	Yes	No
All industries	11, 21–23, 31–33, 42–81	4,805,151	453,798	4,351,353	9.4	90.6
Manufacturing industries	31–33	217,565	24,572	192,993	11.3	88.7
Food	311	18,250	1,872	16,378	10.3	89.7
Beverage and tobacco products	312	7,723	900	6,823	11.7	88.3
Textile, apparel, and leather products	313–16	10,554	1,045	9,509	9.9	90.1
Wood products	321	11,012	863	10,149	7.8	92.2
Paper	322	2,117	207	1,910	9.8	90.2
Printing and related support activities	323	20,851	2,427	18,424	11.6	88.4
Petroleum and coal products	324	583	35	548	6.0	94.0
Chemicals	325	7,522	1,003	6,519	13.3	86.7
Pesticide, fertilizer, and other agricultural chemical manufacturing	3253	593	75	518	12.6	87.4
Pharmaceuticals and medicines	3254	1,365	197	1,168	14.4	85.6
Soap, cleaning compound, and toilet preparation manufacturing	3256	1,636	250	1,386	15.3	84.7
Other chemicals	other 325	3,927	479	3,448	12.2	87.8
Plastics and rubber products	326	8,087	923	7,164	11.4	88.6
Nonmetallic mineral products	327	7,749	615	7,134	7.9	92.1
Primary metals	331	2,537	293	2,244	11.5	88.5
Fabricated metal products	332	48,472	5,455	43,017	11.3	88.7
Machinery	333	18,558	2,347	16,211	12.6	87.4
Computer and electronic products	334	9,036	1,460	7,576	16.2	83.8
Communications equipment	3342	974	260	714	26.7	73.3
Semiconductor and other electronic components	3344	2,796	402	2,394	14.4	85.6
Navigational, measuring, electromedical, and control instruments	3345	3,909	597	3,312	15.3	84.7
Other computer and electronic products	other 334	1,359	200	1,159	14.7	85.3
Electrical equipment, appliances, and components	335	4,000	672	3,328	16.8	83.2
Transportation equipment	336	7,175	813	6,362	11.3	88.7
Automobiles, bodies, trailers, and parts	3361–63	4,565	476	4,089	10.4	89.6
Aerospace products and parts	3364	985	117	868	11.9	88.1
Other transportation	other 336	1,625	222	1,403	13.7	86.3
Furniture and related products	337	12,647	1,041	11,606	8.2	91.8
Miscellaneous	339	20,669	2,608	18,061	12.6	87.4
Medical equipment and supplies	3391	8,060	1,274	6,786	15.8	84.2
Other miscellaneous manufacturing	3399	12,608	1,335	11,273	10.6	89.4
Nonmanufacturing industries	11, 21–23, 42–81	4,587,586	429,228	4,158,358	9.4	90.6
Agriculture, forestry, fishing, and hunting	11	21,606	776	20,830	3.6	96.4
Mining, extraction, and support activities	21	14,969	491	14,478	3.3	96.7
Utilities	22	2,684	243	2,441	9.1	90.9
Construction	23	613,110	36,780	576,330	6.0	94.0
Wholesale trade	42	257,153	27,702	229,451	10.8	89.2
Retail trade	44–45	560,952	52,823	508,129	9.4	90.6
Transportation and warehousing	48–49	152,463	14,562	137,901	9.6	90.4
Information	51	61,638	10,594	51,044	17.2	82.8
Publishing	511	17,590	3,413	14,177	19.4	80.6
Newspaper, periodical, book, and directory publishers	5111	9,761	948	8,813	9.7	90.3

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			Yes	No	Yes	No
Software publishers	5112	7,828	2,466	5,362	31.5	68.5
Telecommunications	517	7,164	1,384	5,780	19.3	80.7
Data processing, hosting, and related services	518	8,918	2,282	6,636	25.6	74.4
Other information	other 51	27,965	3,516	24,449	12.6	87.4
Finance and insurance	52	200,857	24,950	175,907	12.4	87.6
Real estate and rental and leasing	53	255,783	18,494	237,289	7.2	92.8
Lessors of nonfinancial intangible assets (except copyrighted works)	533	1,812	157 r	1,655	8.7 r	91.3
Other real estate and rental and leasing	other 53	253,970	18,338	235,632	7.2	92.8
Professional, scientific, and technical services	54	695,672	81,489	614,183	11.7	88.3
Legal services	5411	152,243	11,135	141,108	7.3	92.7
Accounting, tax preparation, bookkeeping, and payroll services	5412	106,634	10,773	95,861	10.1	89.9
Architectural, engineering, and related services	5413	88,491	9,064	79,427	10.2	89.8
Specialized design services	5414	26,282	2,365	23,917	9.0	91.0
Computer systems design and related services	5415	95,950	24,336	71,614	25.4	74.6
Management, scientific, and technical consulting services	5416	132,989	13,491	119,498	10.1	89.9
Scientific research and development services	5417	9,798	1,186	8,612	12.1	87.9
Advertising, public relations, and related services	5418	27,677	2,548	25,129	9.2	90.8
Other professional, scientific, and technical services	5419	55,569	6,592	48,977	11.9	88.1
Management of companies and enterprises	55	2,409	233	2,176	9.7	90.3
Administrative and support and waste management and remediation services	56	287,807	25,426	262,381	8.8	91.2
Educational services	61	53,912	6,198	47,714	11.5	88.5
Health care and social assistance	62	519,556	54,561	464,995	10.5	89.5
Health care services	621–23	459,855	48,112	411,743	10.5	89.5
Social assistance	624	59,700	6,449	53,251	10.8	89.2
Arts, entertainment, and recreation	71	88,831	5,725	83,106	6.4	93.6
Accommodation and food services	72	453,059	39,889	413,170	8.8	91.2
Other services	81	345,125	28,284	316,841	8.2	91.8

r = relative standard error &gt; 50%.

NAICS = 2017 North American Industry Classification System.

**Note(s):**

Detail may not add to total because of rounding. Statistics are representative of companies located in the United States.

**Source(s):**

National Center for Science and Engineering Statistics and Census Bureau, 2019 Annual Business Survey: Data Year 2018.