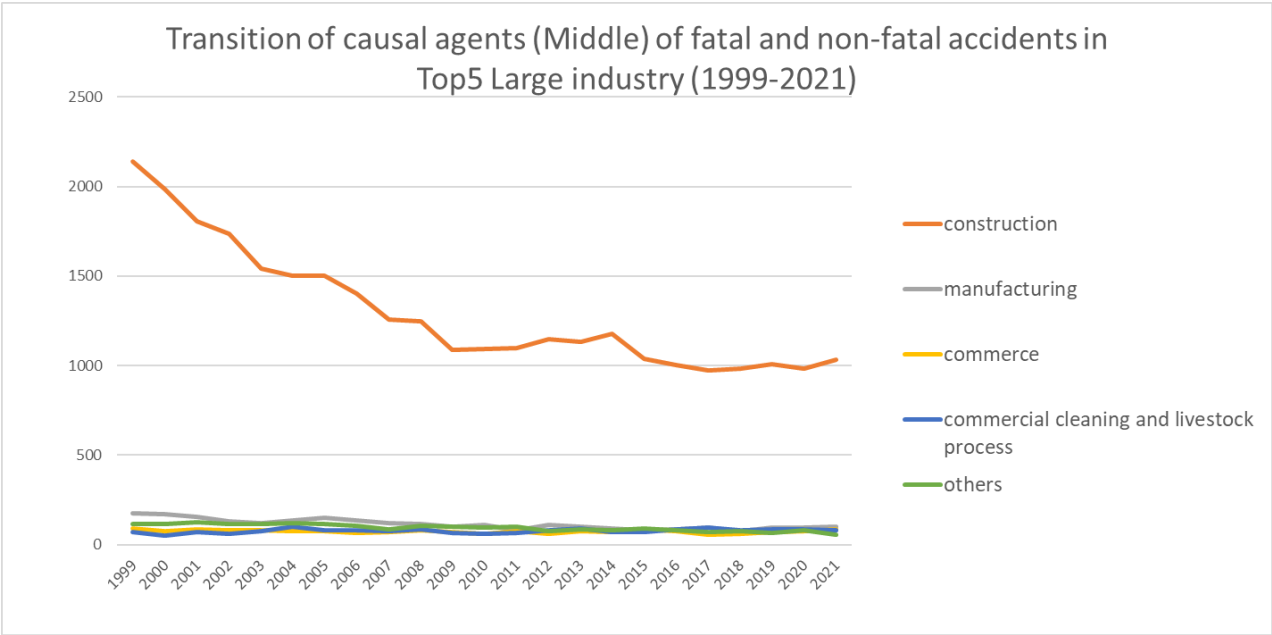
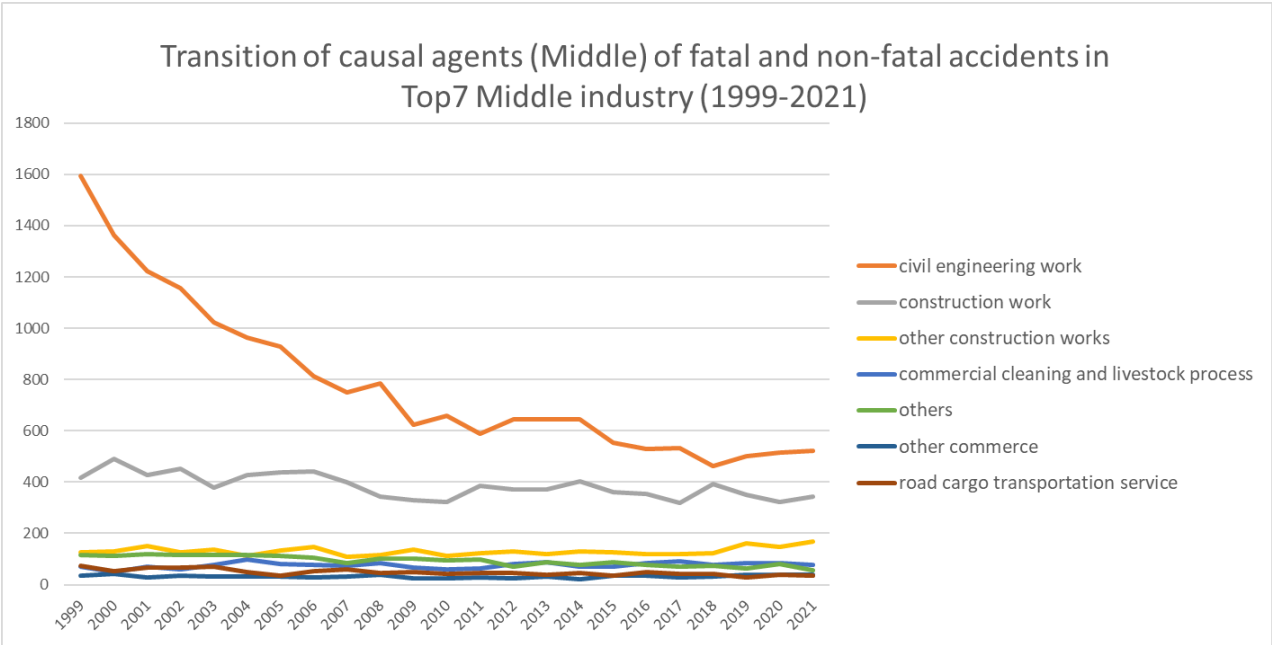


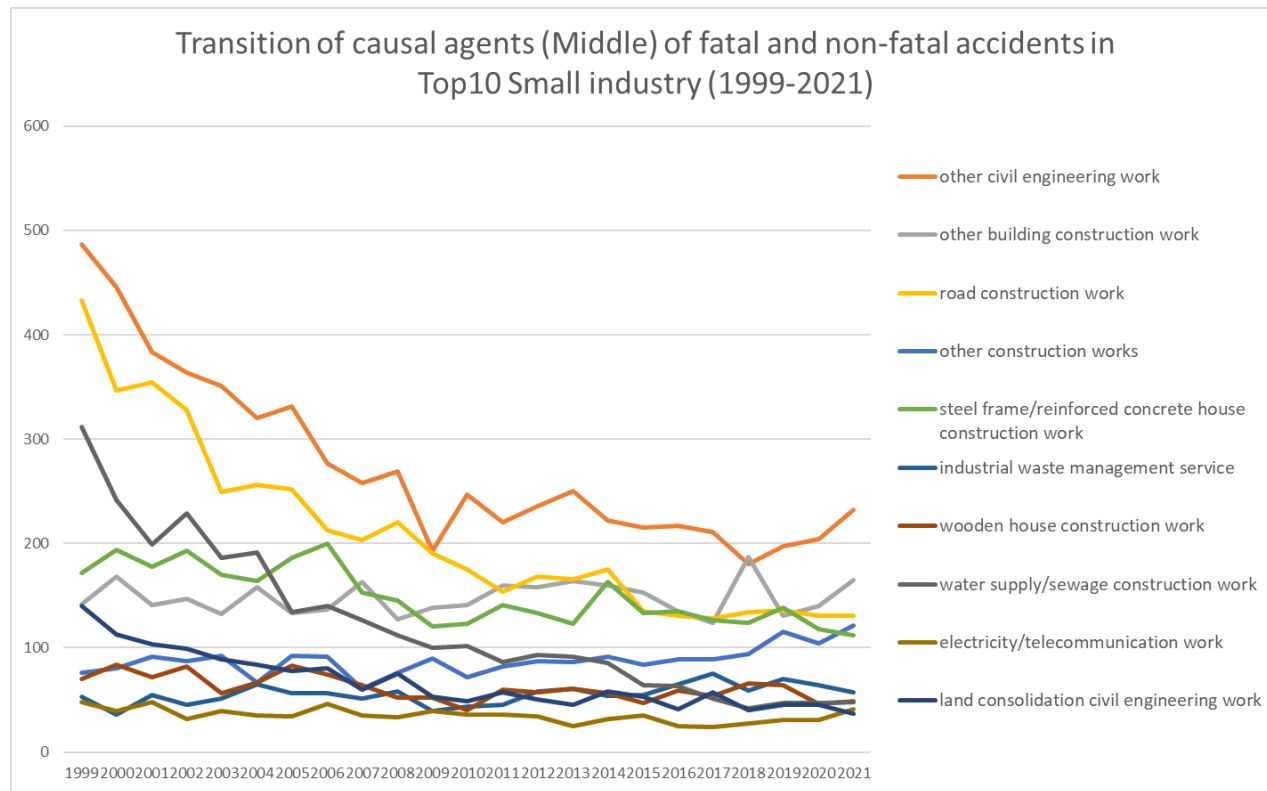
Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 14 construction machine (1999-2021)



Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 14 construction machine in Large industry (1999-2021)



Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 14 construction machine in Middle Industry (1999-2021)



Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 14 construction machine in Small Industry (1999-2021)

Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 14 construction machine in Large industry (1999-2021)

code	Large industry	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Large industry
03	construction	2,139	1,984	1,804	1,734	1,540	1,499	1,503	1,400	1,257	1,245	1,089	1,092	1,098	1,148	1,133	1,176	1,040	1,003	973	981	1,010	984	1,035	29,867	construction
01	manufacturing	173	170	154	128	118	134	152	133	120	115	102	112	81	110	99	91	80	86	96	77	94	94	99	2,618	manufacturing
08	commerce	92	75	83	79	79	74	74	65	70	81	69	60	73	58	74	70	85	76	57	62	72	73	83	1,684	commerce
15	commercial cleaning and livestock process	70	50	72	59	76	100	81	79	73	85	66	61	63	82	89	71	71	83	93	79	86	83	79	1,751	commercial cleaning and livestock process
17	others	116	113	123	116	115	118	114	105	86	103	102	95	100	74	87	78	89	79	70	74	64	81	55	2,157	others
06	agriculture	50	27	39	47	39	47	45	42	41	41	44	39	49	58	51	40	41	42	30	35	42	30	47	966	agriculture
04	transportation service	76	58	69	67	74	53	42	59	65	46	53	43	49	48	44	48	39	53	45	47	32	41	38	1,189	transportation service

02	mining	69	48	80	35	42	36	56	36	35	24	30	33	22	24	32	27	23	18	25	29	22	28	29	803	mining
05	cargo handling service	7	8	10	10	11	13	8	10	6	13	4	8	9	9	7	5	6	8	14	7	5	7	16	201	cargo handling service
07	livestock/fishery	17	7	10	9	8	18	11	13	6	7	9	13	16	17	10	13	13	9	14	16	16	15	15	282	livestock/fishery
14	hotel/restaurant/amusement service	16	22	27	21	13	23	24	15	23	19	23	14	19	15	24	15	14	20	6	12	13	15	12	405	hotel/restaurant/amusement service
12	education/research service	2	1	1	2	2	4	5	1	3	2	3	1		2	5	2	4	2		3	1		3	49	education/research service
13	health and hygiene service		2	5	2		1	2	11	2				8	2	3	3		2	1	4	3	2	1	54	health and hygiene service
11	telecommunication service	1	1	2	1	2	2	1	1		3			3	1	1	2			1			1	1	24	telecommunication service
16	public office	1	2				4	1			1								1	1		1	1		13	public office
09	financial business/advertisement		1			1			1			1	1		1	1	1					1	2		11	financial business/advertisement
10	movie/play service				1			1		1									1						4	movie/play service
	total	2,829	2,569	2,479	2,311	2,120	2,126	2,120	1,971	1,788	1,785	1,595	1,572	1,590	1,649	1,660	1,642	1,505	1,483	1,426	1,426	1,462	1,457	1,513	42,078	total

Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 14 construction machine in Middle industry (1999-2021)

code	Middle industry	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Middle industry
0301	civil engineering work	1,595	1,363	1,224	1,155	1,024	962	930	812	749	786	622	660	590	646	644	643	554	530	532	464	501	515	522	18,023	civil engineering work
0302	construction work	416	492	429	452	379	426	438	441	400	342	329	321	384	372	370	404	360	354	320	394	349	323	345	8,840	construction work
0303	other construction works	128	129	151	127	137	111	135	147	108	117	138	111	124	130	119	129	126	119	121	123	160	146	168	3,004	other construction works
1501	commercial cleaning and livestock process	70	50	72	59	76	100	81	79	73	85	66	61	63	82	89	71	71	83	93	79	86	83	79	1,751	commercial cleaning and livestock process
1702	others	115	113	120	115	115	117	114	105	86	102	102	94	99	71	87	77	89	78	69	74	63	81	55	2,141	others
0804	other commerce	37	42	28	34	32	32	31	29	31	38	24	23	27	25	32	22	37	37	27	33	38	38	38	735	other commerce
0403	road cargo transportation service	73	53	68	66	72	50	36	54	59	45	49	43	46	45	39	45	36	49	42	44	29	39	34	1,116	road cargo transportation service
0802	retail	36	24	39	33	30	23	28	25	27	24	30	22	26	23	24	35	31	27	22	17	19	22	34	621	retail
0117	other manufacturing	58	61	40	46	32	46	51	42	29	36	29	23	24	25	29	30	33	33	32	24	23	30	29	805	other manufacturing

1401	hotel	3	1		2	4	3	2	2	2	3	2	2	3	2	4	2	2	2	1	2	1	5	1	51	hotel
0101	food products	1	2	2	4		2	4	2	3	3	4	2	3		2			1	3	1	4	1	1	45	food products
0203	other mining	4	2	3	1	2	3	6	1	3		1	2			3			2	2	1	1		1	38	other mining
1101	telecommunication service	1	1	2	1	2	2	1	1		3			3	1	1	2			1			1	1	24	telecommunication service
1302	social welfare facility		1	1	1			1		1				4	1	2	3		2		3	1	2	1	24	social welfare facility
0702	fishery		1		1		1	1				1	1	1					2	1			2	1	13	fishery
0402	road passenger transport service	2	1	1	1	1	1	3		1	1	1			2	1	1	1	3	1		1			23	road passenger transport service
0114	electrical equipment products		1	1				1	1		2	4	1		1	1	1			2	3		1		20	electrical equipment products
1301	medical treatment service			3					11					2	1					1	1				19	medical treatment service
0106	pulp/paper processing products	2	1	2			1	1	1	1		1	3		2		1						2		18	pulp/paper processing products
1701	dispatch service	1		3	1		1				1		1	1	3		1		1	1		1			16	dispatch service
0404	other transportation service							1	2	3		1			1	2	1	1			1	1			14	other transportation service
1601	public office	1	2				4	1			1								1	1		1	1		13	public office
1303	other health and hygiene service		1	1	1		1	1		1				2		1						2			11	other health and hygiene service
0902	advertisement and mediator		1			1			1			1	1		1	1	1						2		10	advertisement and mediator
1402	restaurant	1		2								2	1			1		1				1			9	restaurant
0102	textile products	1						1							1					1	1				5	textile products
0201	coal mining	3				1				1															5	coal mining
0105	furniture						1	1					1										1		4	furniture
1001	movie/play service				1			1		1									1						4	movie/play service
0107	printing/bookbinding													1							1				2	printing/bookbinding

040301	general truck transportation service	62	45	56	52	57	42	29	45	49	31	41	39	41	38	34	42	33	42	36	35	24	33	28	934	general truck transportation service
060101	agriculture	6	6	11	16	3	14	13	8	16	10	13	14	10	26	16	14	23	18	19	18	20	19	27	340	agriculture
080209	other retails	24	13	17	16	18	10	11	16	13	10	17	14	16	16	10	24	23	15	13	11	9	13	24	353	other retails
170209	others	41	24	36	29	44	36	35	28	23	28	27	25	23	19	30	22	30	28	18	35	23	33	19	656	others
030203	building facility construction work	32	46	38	30	21	37	36	30	20	18	19	17	23	24	22	25	27	25	16	17	16	19	19	577	building facility construction work
020201	quarrying	42	28	48	22	23	16	31	23	21	17	21	20	9	17	19	16	16	8	17	14	13	17	18	476	quarrying
010901	cement products	22	40	26	14	14	19	28	25	15	16	12	23	13	21	20	13	12	12	15	9	16	11	15	411	cement products
011702	machine repair	29	36	23	20	17	20	22	14	11	14	18	9	10	12	10	16	15	18	14	11	13	13	14	379	machine repair
070101	livestock	17	6	10	8	8	17	10	13	6	7	8	12	15	17	10	13	13	7	13	16	16	13	14	269	livestock
060201	lumbering	37	14	22	19	25	26	23	23	14	20	22	16	26	22	26	16	7	12	8	12	10	9	13	422	lumbering
150103	other waste disposal service	6	6	8	6	16	16	11	10	11	12	13	15	9	13	17	9	6	9	7	13	9	8	13	243	other waste disposal service
030105	bridge construction work	28	25	13	20	29	11	13	16	14	21	16	7	9	16	12	15	15	9	17	10	7	10	11	344	bridge construction work
080109	other wholesale	16	9	12	11	16	17	14	10	11	19	15	15	19	9	18	12	17	12	8	12	15	13	10	310	other wholesale
030102	tunnel construction work	32	44	35	19	29	21	18	17	14	18	13	10	14	10	12	11	12	19	13	15	10	17	9	412	tunnel construction work
140301	golf course	9	11	18	15	6	17	21	12	18	11	16	10	12	12	13	12	9	14	2	7	10	6	9	270	golf course
010909	other sand and stone products	24	13	14	10	17	5	13	13	14	8	10	7	10	15	8	7	3	7	5	6	3	5	9	226	other sand and stone products
011209	other metal products	11	13	14	17	10	10	17	9	12	11	6	10	4	7	9	9	5	5	15	6	6	10	9	225	other metal products
030108	sand collapse prevention civil engineering work	48	31	36	20	25	19	21	18	18	21	5	13	13	13	17	17	15	10	6	10	15	13	8	412	sand collapse prevention civil engineering work
011701	auto mobile servicing	20	15	11	17	9	14	20	21	14	9	9	10	9	7	9	6	8	8	13	9	8	13	8	267	auto mobile servicing
080204	fuel retail	11	6	17	13	10	10	11	6	12	11	8	7	7	6	8	9	5	10	8	6	9	9	8	207	fuel retail
030104	railway construction work	11	6	13	7	3	5	6	8	4	5		6	3	6	4	4	6	3	10	3	5	7	8	133	railway construction work
050202	port cargo handling service	1	1	6	5	3	8	2	5	3	5	2	5	1	2	4	4	3	5	3	4	2	5	8	87	port cargo handling service
020202	gravel digging	13	12	22	10	13	15	16	9	7	4	6	8	11	6	8	9	5	5	6	12	7	9	7	220	gravel digging
060209	other forestry	7	7	6	12	11	7	9	11	11	11	9	9	13	10	9	10	11	12	3	5	12	2	7	204	other forestry
	port/seaside construction																									port/seaside construction

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080401	warehousing						2									1		1				1		2	7	warehousing
140101	hotel	3	1		2	4	3	2	2	2	3	2	2	3	2	4	2	2	2	1	2	1	5	1	51	hotel
011509	other transport equipment products	5	5	4	3	1	4	3	4	3	2	5	1	1		2			1		1	1	3	1	50	other transport equipment products
011001	steel/iron/rolling products	1	1		3	3	3	4	1	1	4	5	3	1	4	1	1	2	1	2		1	2	1	45	steel/iron/rolling products
020309	other mining	3	2	3		2	2	5	1	3		1	2			2			2	2	1	1		1	33	other mining
120109	other education/research service	2		1	1	1	2	3	1	2	1	2	1		1	5	2	2	2		1	1		1	32	other education/research service
110101	telecommunication service	1	1	2	1	2	2	1	1		3			3	1	1	2			1			1	1	24	telecommunication service
130201	social welfare facility		1	1	1			1		1				4	1	2	3		2		3	1	2	1	24	social welfare facility
011601	electric utility service	2		1			1	3	1	1	1	1		1	3			3		2		1	1	1	23	electric utility service
010109	other foods		1	1	1			2	1	2	1	1	1	2					1	3	1	1		1	20	other foods
010809	chemical fertilizer products	2		2	2	2						2	1	1			2					1		1	16	chemical fertilizer products
011109	other nonferrous metal products	2		1		1				1					1			2	1		1		2	1	13	other nonferrous metal products
070201	fishery		1					1				1	1	1					2				2	1	10	fishery
040303	cargo/ light automobile transportation service	1		1		1	1		1	2								1						1	9	cargo/ light automobile transportation service
050209	other harbor transportation service							1							1	1		1		1		1		1	7	other harbor transportation service
010903	pottery products	1			1		1												1					1	5	pottery products
011603	city water service			1						1	1				1									1	5	city water service
010402	plywood	1					1							1										1	4	plywood
011102	nonferrous metals casting products		1																			1		1	3	nonferrous metals casting products
080102	furniture/fittings wholesale			1					1															1	3	furniture/fittings wholesale
030101	hydroelectric plant construction work	8	5	6	3	6	3	4	2		3	4	4	2	2	1	5	1	4	2	1	2	1		69	hydroelectric plant construction work
011502	auto mobile products	1		1		3	3	2	2		2	3	2	1		1	1	1	1		4	1			29	auto mobile products

010899	other chemical products	2	1	1	1	1	1	3	2	1	2	2		2	2		1	1		2		1			26	other chemical products
011101	nonferrous metals/rolling products		1	2		1	2	1		1		2	2	2	1	2	1		1	1		2			22	nonferrous metals/rolling products
080202	auto mobile retail		1	1				2	1	1	1	2		1		5	2	2	2	1					22	auto mobile retail
140302	park and amusement park		2	3	1						3	2		1		2	1		3	3					21	park and amusement park
030103	subway construction work	1	2	2		2	1	2		1		1	2				1		1	1			2		19	subway construction work
130101	hospital			3					11					1	1					1					17	hospital
170101	dispatch service	1		3	1		1				1		1	1	3		1		1	1		1			16	dispatch service
080101	all kinds of wholesale	3		3	1	1	2	1		1				1	1		1								15	all kinds of wholesale
010101	meat/dairy products	1	1		2		1		1		1	3	1								2	1			14	meat/dairy products
040409	other transportation service							1	2	3		1			1	2	1	1			1	1			14	other transportation service
040202	bus service	1	1	1	1			1				1			2	1	1	1	2						13	bus service
160101	public office	1	2				4	1			1								1	1		1	1		13	public office
010801	non organic or organic chemical products	1	2	1		1	1				1	1	1				1					2			12	non organic or organic chemical products
010601	pulp/paper	1					1			1		1	3		1		1						2		11	pulp/paper
011409	other electrical equipment			1					1		1	3			1	1	1				1				10	other electrical equipment
090209	other advertisement and mediator		1			1			1			1	1		1	1	1						2		10	other advertisement and mediator
140201	general restaurant	1		2								2	1			1		1				1			9	general restaurant
130309	other health and hygiene service			1	1			1		1				1		1						2			8	other health and hygiene service
010805	plastics products			1		1	1				1				1				1			1			7	plastics products
040201	taxi service	1				1	1	1			1								1	1					7	taxi service
011002	casting products			2	1				3																6	casting products
011305	other precision machine products						1			1			1		1	1						1			6	other precision machine products
080203	furniture/fittings retail			1	1			1			1	1										1			6	furniture/fittings retail
010103	agricultural food products				1			2			1											1			5	agricultural food products

011203	metal press products				1								1	1			1	1			5	metal press products
040103	airline service				1	1	1	1	1												5	airline service
010105	alcoholic drinks			1		1			1				1								4	alcoholic drinks
010209	other textile products	1					1						1					1			4	other textile products
010609	other pulp/paper processing products		1	1			1	1													4	other pulp/paper processing products
010806	rubber products			1					1					2							4	rubber products
010902	glass products	1		1				1				1									4	glass products
011403	electronics equipment and telecommunications apparatus						1										1	2			4	electronics equipment and telecommunications apparatus
020301	metal mining	1			1		1	1													4	metal mining
080205	newspaper retail				1		2					1									4	newspaper retail
100109	other movie/play service				1		1		1								1				4	other movie/play service
170202	information processing service	1			1							1						1			4	information processing service
010602	paper processing products	1		1									1								3	paper processing products
011401	heavy electrical equipment		1								1		1								3	heavy electrical equipment
011402	electrical appliance										1						1			1	3	electrical appliance
020101	general coal mining	2			1																3	general coal mining
040102	water transportation service													1	1					1	3	water transportation service
040209	other passenger transport service						1		1										1		3	other passenger transport service
070209	other fishery				1		1										1				3	other fishery
130301	bathhouse		1				1						1								3	bathhouse
010104	bread/cake products													2							2	bread/cake products
010501	wood furniture					1														1	2	wood furniture
010802	chemical fiber											1					1				2	chemical fiber

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Data source : <https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm> (MHLW, Japan)

https://www.jisha.or.jp/english/statistics/202212_03.html