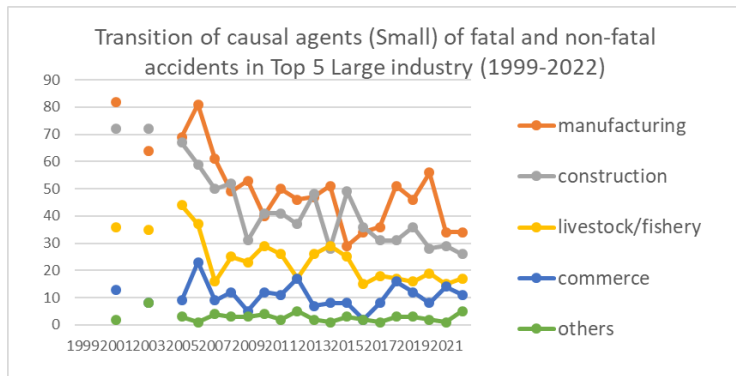
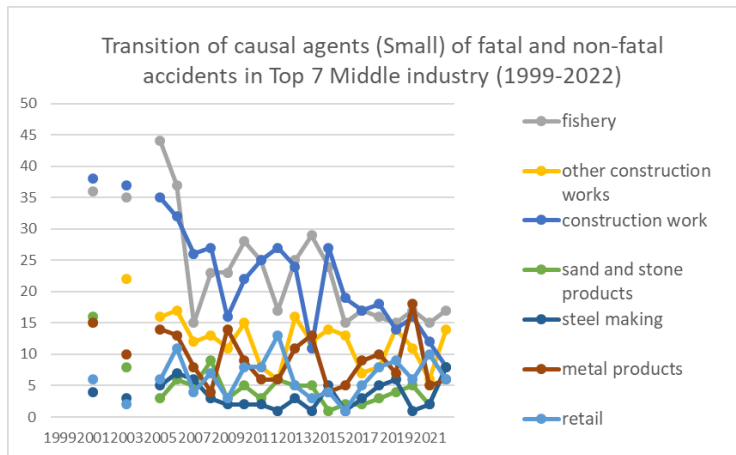


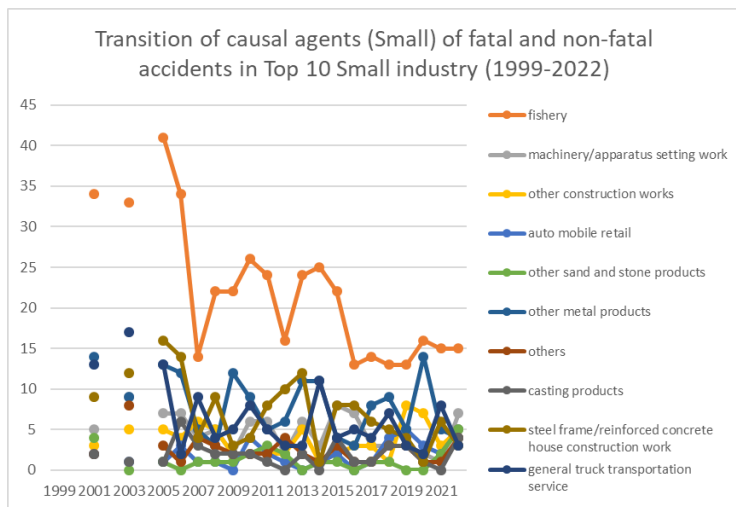
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane in Small Industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane in Large industry (1999-2022)

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	2022	total	Large industry
01	manufacturing			82		64		69	81	61	49	53	40	50	46	47	51	29	34	36	51	46	56	34	34	1,013	manufacturing
03	construction			72		72		67	59	50	52	31	41	41	37	48	28	49	36	31	31	36	28	29	26	864	construction
07	livestock/fishery			36		35		44	37	16	25	23	29	26	17	26	29	25	15	18	17	16	19	15	17	485	livestock/fishery
08	commerce			13		8		9	23	9	12	5	12	11	17	7	8	8	2	8	16	12	8	14	11	213	commerce
17	others			2		8		3	1	4	3	3	4	2	5	2	1	3	2	1	3	3	2	1	5	58	others
04	transportation service			15		20		17	7	9	5	8	11	7	5	7	15	8	7	6	9	5	8	9	3	181	transportation service
15	commercial cleaning and livestock process			4		1		6	3	4	1	8	2	2	3	2	2	6	8		8	5		3	3	71	commercial cleaning and livestock process
14	hotel/restaurant/amusement service			2		9		2	3	5	1	1	1	3	4	3	1	3	3	2	2	1	5	1	3	55	hotel/restaurant/amusement service
02	mining			8				1		1	1	1	2			1			1	2			2	2	2	24	mining
13	health and hygiene service					4		1	2	1	2	1		3	2		1	1	2	1	1	2	1	1	1	27	health and hygiene service
06	agriculture			6		7		12	7	4	14	8	11	8	8	8	5	3	3	1	4	3	1	1		114	agriculture
05	cargo handling service			4		1		3	2	2	1	1	3	1	1	2	3	1	3	1	1	2		4		36	cargo handling service
10	movie/play service			1					1		2			1					1	1		1				8	movie/play service
12	education/research service											1		1	1		1							1		5	education/research service
09	financial business/advertisement			1									1			2										4	financial business/advertisement
11	telecommunication service										1		1						1					1		4	telecommunication service
16	public office											1														1	public office
	total			246		229		234	226	166	169	145	158	156	146	155	145	136	118	108	143	132	130	116	105	3,163	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane in Middle industry (1999-2022)

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	2022	total	Middle industry
0702	fishery			36		35		44	37	15	23	23	28	25	17	25	29	24	15	17	16	15	17	15	17	473	fishery

0303	other construction works			15		22		16	17	12	13	11	15	8	6	16	12	14	13	7	8	14	11	6	14	250	other construction works	
0302	construction work			38		37		35	32	26	27	16	22	25	27	24	11	27	19	17	18	14	16	12	8	451	construction work	
0109	sand and stone products			16		8		3	6	5	9	3	5	3	6	5	5	1	2	2	3	4	5	2	8	101	sand and stone products	
0110	steel making			4		3		5	7	6	3	2	2	2	1	3	1	5	1	3	5	6	1	2	8	70	steel making	
0112	metal products			15		10		14	13	8	4	14	9	6	6	11	13	4	5	9	10	7	18	5	6	187	metal products	
0802	retail			6		2		6	11	4	7	3	8	8	13	5	3	4	1	5	8	9	6	10	6	125	retail	
0301	civil engineering work			19		13		16	10	12	12	4	4	8	4	8	5	8	4	7	5	8	1	11	4	163	civil engineering work	
0101	food products			8		11		8	8	4	4	5	2	5	6	2	11	3	2	1	4	4	5	2	4	99	food products	
1702	others			2		8		3	1	4	3	3	4	2	5	2	1	3	2	1	3	3	1	1	4	56	others	
0403	road cargo transportation service			15		19		15	5	9	4	5	10	5	3	5	14	5	6	4	7	3	4	9	3	150	road cargo transportation service	
0113	machine products			6		2		10	10	4	6	5	6	4	5	6	5	1	7	2	8	3	2	2	3	97	machine products	
1501	commercial cleaning and livestock process			4		1		6	3	4	1	8	2	2	3	2	2	6	8		8	5		3	3	71	commercial cleaning and livestock process	
0801	wholesale			5		3		2	7	3	4	2	2	1	2	1	3	3	1		4	3	1	3	3	53	wholesale	
0108	chemical products			1				2	4	1	5	3	4	2	2	2	1		2	2	4	1	3	1	3	43	chemical products	
0115	transport equipment products			8		11		6	10	10	7	7	3	14	7	5	5	7	6	9	7	11	9	10	2	154	transport equipment products	
1403	other amusement service			2		7		2	2	4	1	1	1	3	2	2	1	3	3	2	2		4		2	44	other amusement service	
0804	other commerce			2		3		1	5	2	1		2	2	2	1	2	1		3	4		1	1	2	35	other commerce	
1302	social welfare facility					4		1	2		1			3	2		1	1	1	1	1	2		1	1	22	social welfare facility	
0202	quarrying			6				1		1	1	1	1			1				1	2			2	2	1	20	quarrying
1401	hotel					1			1						1	1								1	1	1	7	hotel
0203	other mining												1													1	2	other mining
1701	dispatch service																						1		1	2	dispatch service	
0117	other manufacturing			14		6		10	11	15	4	6	4	8	5	5	6	4	3	3	7	5	8	7		131	other manufacturing	
0602	forestry			5		6		11	7	3	12	7	11	8	8	6	5	3	3		4	2		1		102	forestry	
0104	wood products			2		1		2	4	1	2	1	1	1	3	1				3		2				24	wood products	
0106	pulp/paper processing products			3		3		1	1		1	2	1		1	3	1		3				2			22	pulp/paper processing products	
0114	electrical equipment products			3		1		3	1	2	2	1			3	1	1	1	1		1	1				22	electrical equipment products	
0111	nonferrous metal making					2		3	2	1		2	1	1	1	2	1	2	1			1		1		21	nonferrous metal making	
0401	railroad/water transportation/airline service					1		1	1			2	1	2	2	2	1		1	2	1	2	2			21	railroad/water transportation/airline service	
0502	harbor transportation service			2		1		2	1		1	1	1	1		2	3		1	1	1			2		20	harbor transportation service	
0501	land cargo handling service			2				1	1	2			2		1			1	2			2		2		16	land cargo handling service	

0102	textile products			1		1		1		2	2			1				1	1	2		1			13	textile products	
0107	printing/bookbinding					1				1		1	2	1		1	1	1				2	1		12	printing/bookbinding	
0601	agriculture			1		1		1		1	2	1			2				1		1	1			12	agriculture	
0701	livestock									1	2		1	1		1		1	1	1	2				12	livestock	
0105	furniture			1		3		1		1		1	2						1		1				11	furniture	
0402	road passenger transport service							1		1	1					3			1		1				8	road passenger transport service	
1001	movie/play service			1				1		2			1					1	1		1				8	movie/play service	
1201	education/research service										1		1	1		1							1		5	education/research service	
1301	medical treatment service									1	1	1						1				1			5	medical treatment service	
0116	electric/gas/water service							3															1		4	electric/gas/water service	
1101	telecommunication service									1		1						1					1		4	telecommunication service	
1402	restaurant					1				1												1			4	restaurant	
0901	financial business			1									1			1									3	financial business	
0103	fiber products					1				1															2	fiber products	
0201	coal mining			2																					2	coal mining	
0404	other transportation service							1															1		2	other transportation service	
0902	advertisement and mediator																								1	advertisement and mediator	
1601	public office																								1	public office	
0803	haircut/beauty salon																										haircut/beauty salon
1303	other health and hygiene service																										other health and hygiene service
	total			246		229		234	226	166	169	145	158	156	146	155	145	136	118	108	143	132	130	116	105	3,163	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane in Small industry (1999-2022)

code	Small industry	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Small industry
070201	fishery			34		33		41	34	14	22	22	26	24	16	24	25	22	13	14	13	13	16	15	15	436	fishery
030302	machinery/apparatus setting work			5		9		7	7	4	5	2	6	6	2	6	3	8	7	3	3	3	2	1	7	96	machinery/apparatus setting work
030309	other construction works			3		5		5	4	6	5	2	2	2	2	5	1	2	3	3	1	8	7	3	5	74	other construction works
080202	auto mobile retail			2		1		1	3	1	1		4	2	1		1	2		1	4	5	3	2	5	39	auto mobile retail
010909	other sand and stone products			4				1		1	1	1	2	3	2		1	1			1			2	5	26	other sand and stone products
011209	other metal products			14		9		13	12	5	3	12	9	5	6	11	11	4	3	8	9	5	14	5	4	162	other metal products
170209	others			2		8		3	1	4	3	2	2	2	4	2	1	3	1	1	3	3	1	1	4	51	others
011002	casting products			2		1		1	6	3	2	2	2	1		2		4	1	1	3	3	1		4	39	casting products
030201	steel frame/reinforced concrete house construction work			9		12		16	14	4	9	3	4	8	10	12	1	8	8	6	5	4	1	6	3	143	steel frame/reinforced concrete house construction work

040301	general truck transportation service			13		17		13	2	9	4	5	8	5	3	3	11	4	5	4	7	3	2	8	3	129	general truck transportation service	
011001	steel/iron/rolling products			2		2		3		1	1			1				1			1	1		2	3	18	steel/iron/rolling products	
030209	other building construction work			14		11		8	11	8	9	8	12	8	10	7	3	8	4	4	6	8	6	5	2	152	other building construction work	
030301	electricity/telecommunication work			7		8		4	6	2	3	7	7		2	5	8	4	3	1	4	3	2	2	2	80	electricity/telecommunication work	
010901	cement products			11		4		2	6	3	7	2	3		4	3	4		2		1	3	5		2	62	cement products	
030199	other civil engineering work			4		5		9	2	7	3	2		3		3	1		1	2	4	3	1	2	2	54	other civil engineering work	
080109	other wholesale			3		3		2	7	3	4	2	2	1	2	1	3	3	1		4	3	1	2	2	49	other wholesale	
030203	building facility construction work			3		4		4	1	2	4	2	3	2	2	2		3	2	2	4		2	1	2	45	building facility construction work	
070209	other fishery			2		2		3	3	1	1	1	1	2	1	1	1	4	2	2	3	3	2	1		2	37	other fishery
140309	other amusement service			2		7		1	2	2	1	1	1	1	2	1	1	1	3	2	2	1		4		2	36	other amusement service
150102	industrial waste management service			1				3		3		1	1			1	1	2	4		2			2	2	23	industrial waste management service	
010102	fishery products					3		2	1	1	1	1		1	2		2				1	2	1	2	2	22	fishery products	
011305	other precision machine products							2	1		1		1	1	1	2	1								2	12	other precision machine products	
030202	wooden house construction work			12		10		7	6	12	5	3	3	7	5	3	7	8	5	5	3	2	7		1	111	wooden house construction work	
011301	machine products			6		2		8	9	4	5	5	5	3	4	4	4	1	7	2	8	3	2	2	1	85	machine products	
011501	ship building			6		5		1	4	6	4	4	4	1	5	4	4	5	2	4	7	3	6	6	3	1	81	ship building
011502	auto mobile products			2		3		5	5	4	2	2	2	5	1	1		5		1	4	3	3	5	1	54	auto mobile products	
080209	other retails					1		2	3	1	5		3	4	9	5	2	1		3	4	3	1	5	1	53	other retails	
150101	building maintenance service							2	2	1	1	6		2	2	1	1	3	1		2	4		1	1	30	building maintenance service	
080409	other commerce			2		2		1	3	2	1		2	2	2		1	1		3	3		1		1	27	other commerce	
130201	social welfare facility					4		1	2		1			3	2		1	1	1	1	1	2		1	1	22	social welfare facility	
011204	metal plating products			1		1		1	1	2	1						1		2	1	1	2	4		1	19	metal plating products	
010805	plastics products			1				1	1		1		2	2		2			2		3		1		1	17	plastics products	
010101	meat/dairy products			2		3		1	2			1	1	2	1	1					1				1	16	meat/dairy products	
030106	road construction work			2		2		2	2		1	2						1			1			1	1	15	road construction work	
030110	water supply/sewage construction work			2		1		1		2	1				2	1	1		1		1				1	14	water supply/sewage construction work	
011009	other steel products							1	1	2					1	1	1			2	1	2			1	13	other steel products	
010104	bread/cake products			2		1			1		1		1					1	1		1	1	1		1	12	bread/cake products	
020201	quarrying			3				1			1		1							2				1	1	11	quarrying	
080401	warehousing					1			2							1	1				1			1	1	8	warehousing	
010806	rubber products										2	1	1							1			1		1	7	rubber products	
140101	hotel					1			1						1	1								1	1	1	7	hotel
010801	non organic or organic chemical products							1				1	1							1				1	1	6	non organic or organic chemical products	
010903	pottery products									1										1						1	3	pottery products
011203	metal press products											1					1								1	3	metal press products	



011109	products						2	1			1	1		1									6	products	
011703	cleaning			1					1				1							1		2		6	cleaning
030102	tunnel construction work			1		1			1				1							1				6	tunnel construction work
030107	river civil engineering work								1		1					1		2				1		6	river civil engineering work
030109	land consolidation civil engineering work						1		1						1		1					2		6	land consolidation civil engineering work
040201	taxi service						1		1	1						1			1		1			6	taxi service
150103	other waste disposal service				1		1	1			1					1	1							6	other waste disposal service
010902	glass products								1						2					1	1			5	glass products
011403	electronics equipment and telecommunications apparatus			1		1			1						1					1				5	electronics equipment and telecommunications apparatus
030108	sand collapse prevention civil engineering work							1	1				1				1	1						5	sand collapse prevention civil engineering work
120109	other education/research service									1		1	1		1							1		5	other education/research service
140301	golf course					1		1				1	1							1				5	golf course
150109	other cleaning and livestock process service			2									1							2				5	other cleaning and livestock process service
170201	security service									1	2		1					1						5	security service
010204	dyeing			1								1							1	1				4	dyeing
010905	other ceramic products					4																		4	other ceramic products
011101	nonferrous metals/rolling products				1							1		1		1								4	nonferrous metals/rolling products
011603	city water service							3														1		4	city water service
030101	hydroelectric plant construction work											1										3		4	hydroelectric plant construction work
050209	other harbor transportation service																1	1	1				1	4	other harbor transportation service
110101	telecommunication service								1		1						1					1		4	telecommunication service
140201	general restaurant				1			1					1							1				4	general restaurant
010103	agricultural food products				1		1								1									3	agricultural food products
010402	plywood			1										2										3	plywood
011201	western tableware/cutting tool products								1		1		1											3	western tableware/cutting tool products
011402	electrical appliance			1									1				1							3	electrical appliance
011503	railway vehicle products							1						1								1		3	railway vehicle products
130101	hospital									1	1											1		3	hospital
140302	park and amusement park								1					1										3	park and amusement park
010203	weaving								1	1														2	weaving
010309	other fiber products				1			1																2	other fiber products
010503	fittings								1		1													2	fittings
010509	other furniture				1							1												2	other furniture
010609	other pulp/paper processing				1		1																	2	other pulp/paper processing





