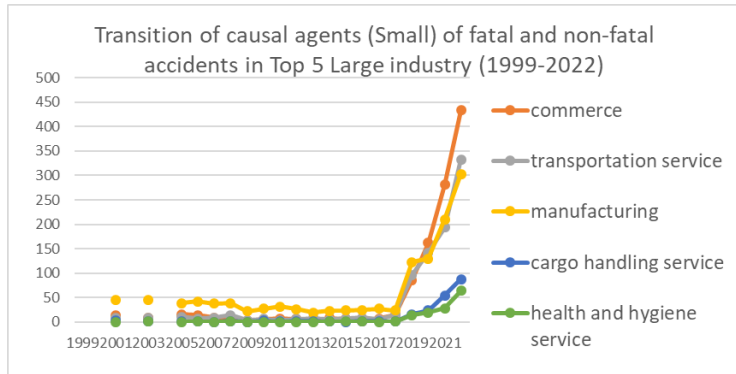
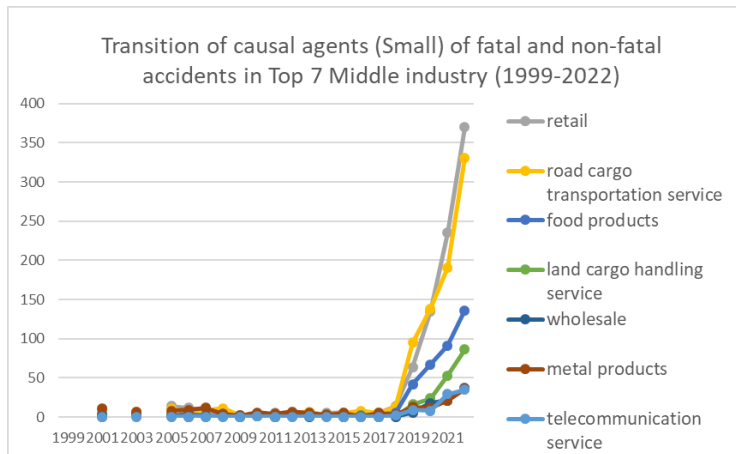


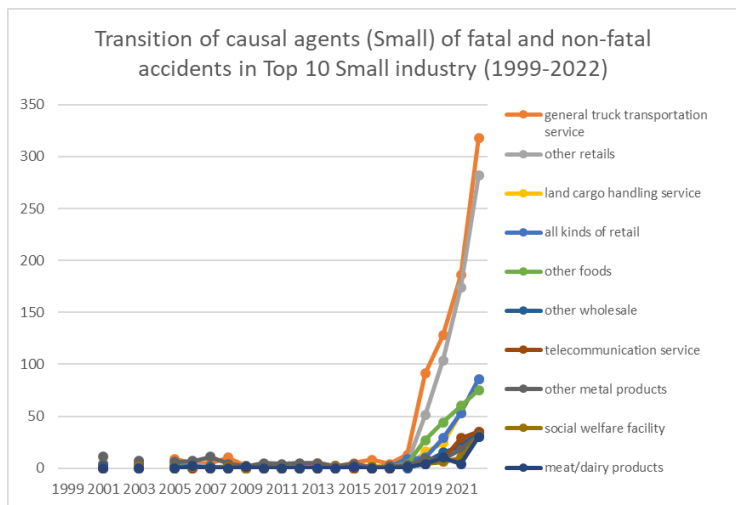
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 361 human power cranes (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 361 human power cranes in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 361 human power cranes in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 361 human power cranes in Small Industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 361 human power cranes 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
08	commerce			13		8		16	14	9	6	3	5	7	6	2	8	6	2	7	15	86	162	281	433	1,089	commerce
04	transportation service			8		8		11	7	9	14	4	6	4	6	8	5	7	9	5	14	96	142	194	333	890	transportation service
01	manufacturing			46		45		39	42	38	39	22	27	32	26	19	23	24	25	27	24	123	130	210	303	1,264	manufacturing
05	cargo handling service			3		1		1	1		2		3	1	2	2	1		2	2	1	16	24	54	88	204	cargo handling service
13	health and hygiene service					2			1		1						1	1	1		1	14	19	28	64	133	health and hygiene service
17	others			5		4		2	2	3		1	4	1	1	3		3			4	10	19	29	35	126	others
11	telecommunication service												1			1					2	9	8	29	35	85	telecommunication service
14	hotel/restaurant/amusement service			3		2		2	1	2	1	2	2	1	1	1	1	1			2	13	12	15	32	95	hotel/restaurant/amusement service
03	construction			27		35		23	22	28	27	17	14	33	15	22	26	12	15	18	13	20	30	30	28	455	construction
15	commercial cleaning and livestock process			2		1		2	2	2	4	5	1	1	1	1	2	1	1	1	2	9	17	14	21	90	commercial cleaning and livestock process
07	livestock/fishery			4		3		1		2		1	2		1	1	2		1	3	2	6	7	8	4	48	livestock/fishery
10	movie/play service			1																				1	3	5	movie/play service
06	agriculture					1		1	1	2		2		2	1	1	1	1	1	1	3	2	3	8	2	33	agriculture
12	education/research service					1		2					1						1				4	2	12	12	education/research service
09	financial business/advertisement					1					1					1						1		2	1	7	financial business/advertisement
02	mining			1		3			1	2						3	2		3		1					16	mining
16	public office																										public office
	total			113		115		100	94	97	95	57	66	82	60	65	72	56	62	64	84	406	573	907	1,384	4,552	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 361 human power cranes 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
0802	retail			10		4		14	12	8	4	1	2	5	4	2	5	6	2	5	14	64	135	235	370	902	retail

0403	road cargo transportation service			6		7		11	5	8	11	2	4	2	5	7	2	5	8	5	13	95	138	191	331	856	road cargo transportation service
0101	food products					5		2	4	2	1	2	1	2	1	1	2	1	2	4	5	42	67	91	136	371	food products
0501	land cargo handling service			2		1		1	1		1		1		1	1	1		2	2	1	16	24	53	86	194	land cargo handling service
0801	wholesale			3		4		2		1	1		2		1		1				6	18	21	37	97	wholesale	
0112	metal products			11		7		8	9	12	4	2	6	4	7	5	3	5	1	5	3	13	12	21	36	174	metal products
1101	telecommunication service											1			1						2	9	8	29	35	85	telecommunication service
1702	others			5		4		2	2	3		1	4	1	1	3		2			4	9	18	28	34	121	others
1302	social welfare facility					1		1		1						1	1	1		1	4	6	10	31	58	social welfare facility	
1301	medical treatment service																				10	13	18	30	71	medical treatment service	
0115	transport equipment products			12		10		9	4	1	6	2	3	5	4	3	4	3	5	4	5	17	16	24	29	166	transport equipment products
0117	other manufacturing			11		8		6	11	5	10	5	6	8	7		5	4	10	6	4	21	13	18	28	186	other manufacturing
0804	other commerce							1		1	2	1	2	1		2			2	1	16	9	24	25	87	other commerce	
1501	commercial cleaning and livestock process			2		1		2	2	2	4	5	1	1	1	1	2	1	1	1	2	9	17	14	21	90	commercial cleaning and livestock process
0108	chemical products			3		2		1	4	6	3	2	3	2		1	1	3	2	3	2	9	6	17	20	90	chemical products
1402	restaurant					1						1						1			2	6	6	6	20	43	restaurant
0113	machine products			4		5		3	5	5	3	7	2	5	4	6	4		1	2	1	4	3	11	17	92	machine products
0114	electrical equipment products							1	1		4		1		1			2				6	5	9	15	45	electrical equipment products
0302	construction work			13		15		9	6	8	8	4	4	12	5	7	5	5	4	6	5	8	15	11	13	163	construction work
0303	other construction works			11		10		14	8	17	11	6	8	9	6	9	15	5	8	4	8	9	11	9	9	187	other construction works
1401	hotel			1				1	1													3	3	7	8	24	hotel
0301	civil engineering work			3		10		8	3	8	7	2	12	4	6	6	2	3	8		3	4	10	6	105	civil engineering work	
0107	printing/bookbinding							1									1			1	2		4	5	14	printing/bookbinding	
0109	sand and stone products			1		4		2	1	3	4		2	1		2	1	2	1			3	2	4	4	37	sand and stone products
0701	livestock			3		1		1		1		1	1		1	1	1		1	1	6	7	6	4	36	livestock	
1403	other amusement service			2		1		1		2	1	1	2	1	1	1	1		1			4	3	2	4	28	other amusement service
0104	wood products					1		1	1	1	1				1		1				1	1	1	2	4	16	wood products
0103	fiber products										1	1								1		1		1	3	8	fiber products
1001	movie/play service			1																				1	3	5	movie/play service
1303	other health and hygiene service					1																			3	4	other health and hygiene service
0106	pulp/paper processing products							1			1	1	1	1			1			1	1	2		5	2	17	pulp/paper processing products
0601	agriculture									1					1	1						2	2	5	2	14	agriculture
1201	education/research service					1		2					1						1			1		4	2	12	education/research service

0502	harbor transportation service			1						1		2	1	1	1							1	2	10	harbor transportation service		
0102	textile products			1				1				1					1				1		2	7	textile products		
0111	nonferrous metal making				1		1	1	1			1			1			1	1		2	2	1	13	nonferrous metal making		
0401	railroad/water transportation/airline service							1		3		2							1		1		1	9	railroad/water transportation/airline service		
0404	other transportation service																		1	2	2	1	6	other transportation service			
1701	dispatch service														1				1	1	1	1	5	dispatch service			
0901	financial business								1				1								1	1	4	financial business			
0105	furniture								1											1		1	3	furniture			
0803	haircut/beauty salon							1													1	1	3	haircut/beauty salon			
0110	steel making			3		2		2	1		1		1	3	1	1		3	1		2	1	1	23	steel making		
0402	road passenger transport service			2		1			1	1		2	2		1	1	3	2	1			1	1	19	road passenger transport service		
0602	forestry					1		1	1	1		2		2			1	1	1	1	3		1	3	19	forestry	
0202	quarrying					3			1	2					3	2		3		1				15	quarrying		
0702	fishery			1		2				1				1			1		2	1			2	12	fishery		
0902	advertisement and mediator					1															1		1	3	advertisement and mediator		
0116	electric/gas/water service							1											1					2	electric/gas/water service		
0201	coal mining			1																				1	coal mining		
0203	other mining																								other mining		
1601	public office																								public office		
	total			113		115		100	94	97	95	57	66	82	60	65	72	56	62	64	84	406	573	907	1,384	4,552	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 361 human power cranes 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
040301	general truck transportation service			5		6		9	4	5	10	2	3	1	2	5	2	5	8	4	13	91	128	186	318	807	general truck transportation service
080209	other retails			1		1		4	4	1	2			2	1		2	2		2	5	51	104	174	282	638	other retails
050101	land cargo handling service			2		1		1	1		1		1		1	1			2	2	1	16	24	53	86	194	land cargo handling service
080201	all kinds of retail							2	2	1		1								1	9	10	29	53	86	194	all kinds of retail
010109	other foods					3		2	1	1				1		1	1			2	4	27	44	60	75	222	other foods
080109	other wholesale			3		3		1		1	1		2		1		1					6	15	21	35	90	other wholesale
110101	telecommunication service											1			1						2	9	8	29	35	85	telecommunication service
011209	other metal products			11		7		6	7	11	4	2	5	4	5	5	2	4	1	2	3	9	8	18	32	146	other metal products
130201	social welfare facility					1			1		1						1	1	1		1	4	6	10	31	58	social welfare facility
010101	meat/dairy products								2			1						1			1	4	10	4	30	53	meat/dairy products
130101	hospital																					8	12	17	29	66	hospital
170209	others			5		4		2	2	3		1	3	1	1	3		1			4	8	13	24	26	101	others

011502	auto mobile products			2				1	2	1				2		1	2		2	1	3	7	9	17	23	73	auto mobile products	
010104	bread/cake products				2			1	1	1	1		1	1		1			7	6	16	21	60			60	bread/cake products	
080401	warehousing							1			1		2	1		1			1	16	6	17	20	66		66	warehousing	
150101	building maintenance service							1		1	2	1			1	1		1	1	1	6	14	11	15	56		56	building maintenance service
011703	cleaning																		2	8	5	10	15	40		40	cleaning	
140201	general restaurant				1						1					1			1	4	6	6	14	34		34	general restaurant	
011301	machine products			4	3		3	3	5	3	6	1	5	3	6	4		1	2	1	3	3	8	13	77		77	machine products
010805	plastics products			1	2		1	2	1	2	1	1		1	1	1	2	1		6	1	7	11	42		42	plastics products	
011709	other manufacturing			3	1		1		1	1	1	4	1			2				3	6	3	8	35		35	other manufacturing	
140101	hotel			1			1	1												3	3	7	8	24		24	hotel	
011409	other electrical equipment						1	1		3						1				4	3	3	7	23		23	other electrical equipment	
040309	other land cargo transportation service			1			1	1	2			1	1	2	1					2	2		7	21		21	other land cargo transportation service	
170201	security service										1					1				1	4	4	7	18		18	security service	
030302	machinery/apparatus setting work			9	8		9	4	9	9	3	3	5	3	3	6	4	5	2	6	5	3	5	6	107		107	machinery/apparatus setting work
011403	electronics equipment and telecommunications apparatus									1		1		1						1	2	3	6	15		15	electronics equipment and telecommunications apparatus	
010103	agricultural food products															1					3	3	6	13		13	agricultural food products	
140209	other restaurants																	1	2				6	9		9	other restaurants	
030209	other building construction work			4	5		4	1	3	3		3	1	1	3	2	2		2	2	2	4	9	5	56		56	other building construction work
080409	other commerce									1	1	1				1			2			3	7	5	21		21	other commerce
010806	rubber products						1	1	2			1									1		5	11		11	rubber products	
010701	printing service								1										1	1		2	5	10		10	printing service	
011701	auto mobile servicing			7	6		4	7	4	9	3	1	6	5		4	2	7	5	2	7	2	5	4	90		90	auto mobile servicing
011501	ship building			9	10		8	2		6	2	2	1	4	2	2	2	2	3	2	9	4	1	4	75		75	ship building
070101	livestock			3	1		1		1		1	1		1	1	1			1	1	6	7	6	4	36		36	livestock
040302	specific truck transportation service				1		1		1	1					1						2	4	4	4	19		19	specific truck transportation service
150109	other cleaning and livestock process service									1													1	4	6		6	other cleaning and livestock process service
030201	steel frame/reinforced concrete house construction work			8	5		4	3	3	3	2	1	7	3	1	1	2	1	2	2	3	4		3	58		58	steel frame/reinforced concrete house construction work
030199	other civil engineering work				3			1	2	2	2		3	2	1	3	1		1			1	3	3	28		28	other civil engineering work
030202	wooden house construction work			1	3			2	1	1			1		2		1	2			3		1	3	21		21	wooden house construction work
010102	fishery products																	1		4	4	7	3	19		19	fishery products	
010409	other lumber and wood products												1		1				1	1		2	3	9		9	other lumber and wood products	
010899	other chemical products																	1			2	3	3	9		9	other chemical products	
010309	other fiber products								1	1								1			1		1	3	8		8	other fiber products
140309	other amusement service								1							1					1	2		3	8		8	other amusement service

100109	other movie/play service																						1	3	4	other movie/play service	
030104	railway construction work			1		3				1		1	7	1	3	2		2	4		1		1	2	29	railway construction work	
030203	building facility construction work					2		1		1	1	2		3	1	1	2		1	2	1		7	1	2	28	building facility construction work
011203	metal press products							1	2	1			1		1	1		2		4	4	1	2	21	metal press products		
030301	electricity/telecommunication work							3		2		1	2		1	2	1		1		1		1	2	17	electricity/telecommunication work	
060101	agriculture									1					1	1						2	2	5	2	14	agriculture
120109	other education/research service					1		2				1						1			1		4	2	12	other education/research service	
011305	other precision machine products					2			2			1	1								1		2	2	11	other precision machine products	
150103	other waste disposal service					1				2	1					1	1			1		2		2	11	other waste disposal service	
040303	cargo/ light automobile transportation service													1					1			4	1	2	9	cargo/ light automobile transportation service	
010602	paper processing products														1				1		1		3	2	8	paper processing products	
011204	metal plating products							1						1					1				2	2	7	metal plating products	
080101	all kinds of wholesale					1		1														3		2	7	all kinds of wholesale	
010902	glass products					2															1			2	5	glass products	
011503	railway vehicle products																1					1	1	2	5	railway vehicle products	
080203	furniture/fittings retail																					1	2	2	5	furniture/fittings retail	
011302	measuring instruments																						1	2	3	measuring instruments	
130309	other health and hygiene service					1																		2	3	other health and hygiene service	
030309	other construction works			2		2		2	4	6	2	2	3	4	2	4	8	1	2	2	1	4	7	4	1	63	other construction works
011702	machine repair			1		1		1	4			1	1	1	2		1		3	1		3			1	21	machine repair
010909	other sand and stone products									1	3		1				1	2	1			1	1	1	1	13	other sand and stone products
030110	water supply/sewage construction work			1					2		2		1										1	1	8	water supply/sewage construction work	
040101	railroad service							1		3			1									1		1	7	railroad service	
040409	other transportation service																				1	2	2	1	6	other transportation service	
011402	electrical appliance																				1		3	1	5	electrical appliance	
170101	dispatch service															1					1	1	1	1	5	dispatch service	
010402	plywood							1		1												1		1	4	plywood	
011101	nonferrous metals/rolling products					1				1												1		1	4	nonferrous metals/rolling products	
050209	other harbor transportation service									1		1	1											1	4	other harbor transportation service	
010203	weaving			1				1																1	3	weaving	
050201	general harbor transportation service														1								1	1	3	general harbor transportation service	
080302	beauty salon							1															1	1	3	beauty salon	
010106	soft drinks																						1	1	2	soft drinks	
010509	other furniture									1														1	2	other furniture	

010809	chemical fertilizer products																			1			1	2	chemical fertilizer products		
011401	heavy electrical equipment													1									1	2	heavy electrical equipment		
090101	banking/trust business																						1	1	2	banking/trust business	
130102	general clinic																					1		1	2	general clinic	
140302	park and amusement park																							1	1	2	park and amusement park
170202	information processing service																						1		1	2	information processing service
010201	silk-reeling																								1	1	silk-reeling
010903	pottery products																								1	1	pottery products
130301	bathroom																							1	1	bathroom	
080202	auto mobile retail			5		1		4	2	4	2		2	2	1	1	2	3	1			1		4		35	auto mobile retail
080204	fuel retail			4		2		4	4	2				1	2	1	1		1	1		1	1	1		26	fuel retail
140301	golf course			2		1		1		1	1	1	2	1	1	1			1			3	1	1		18	golf course
011002	casting products			2		2		1	1		1		1	2				3				2				15	casting products
030105	bridge construction work			1		1			2	1		2								1		1	3	2		14	bridge construction work
010801	non organic or organic chemical products			1					1	2		1					1		1	1	1	1	1	3		13	non organic or organic chemical products
010901	cement products					1		2		2	1		1	1		2						1		2		13	cement products
011509	other transport equipment products			1									1	2				1				1	2	5		13	other transport equipment products
060201	lumbering					1			1			1		2						1	2		1	3		12	lumbering
030106	road construction work					1						3		1		1	1					1		2		10	road construction work
070201	fishery			1		2				1			1				1		1	1				2		10	fishery
150102	industrial waste management service			1				1	1			3										2	1	1		10	industrial waste management service
030102	tunnel construction work							2		1		1		1	1					1				1		8	tunnel construction work
040201	taxi service			2										1	1	3								1		8	taxi service
010803	pharmaceuticals							1	1												1	1	1	2		7	pharmaceuticals
020202	gravel digging					2			1	1						1	1		1							7	gravel digging
040202	bus service					1			1	1		2	1							1						7	bus service
060209	other forestry							1		1		1				1	1	1		1						7	other forestry
150105	livestock process service			1				1			1		1	1							1		1			7	livestock process service
011001	steel/iron/rolling products			1				1					1	1									1	1		6	steel/iron/rolling products
011102	nonferrous metals casting products							1					1							1	1		1	1		6	nonferrous metals casting products
030109	land consolidation civil engineering work					2				1						1	1	1								6	land consolidation civil engineering work
010601	pulp/paper							1		1	1	1	1													5	pulp/paper
010905	other ceramic products			1		1			1														1	1		5	other ceramic products
020201	quarrying								1						2	1		1								5	quarrying
010609	other pulp/paper processing products																				1	1		2		4	other pulp/paper processing products
040209	other passenger transport service										1					2							1			4	other passenger transport service

