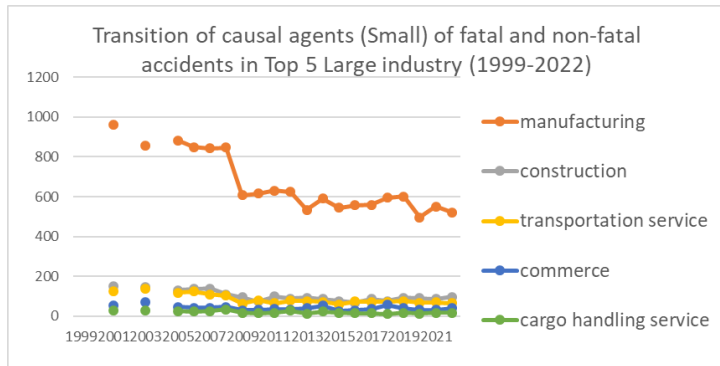
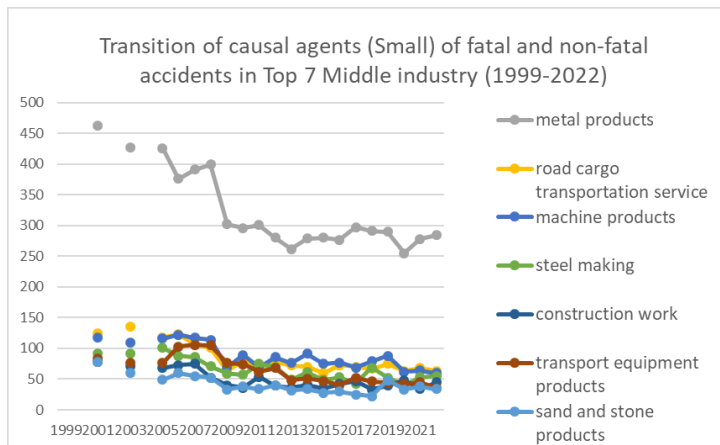


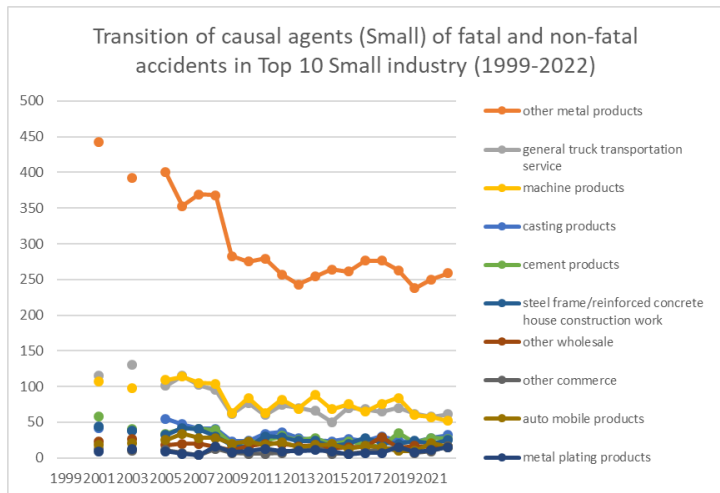
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 211 crane (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 211 crane in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 211 crane in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 211 crane in Small Industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 211 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			963		856		883	849	843	847	607	615	631	625	534	590	544	556	559	595	601	496	550	522	13,266	manufacturing	
03	construction			151		148		130	137	140	110	95	74	99	88	93	86	77	68	87	76	93	91	86	96	2,025	construction	
04	transportation service			124		140		118	124	110	104	64	80	65	78	76	72	60	74	71	71	76	67	69	65	1,708	transportation service	
08	commerce			56		70		47	43	43	46	30	32	37	35	41	52	25	29	37	57	40	32	41	825	commerce		
05	cargo handling service			29		28		25	24	25	35	17	16	17	27	12	24	18	15	16	10	18	14	18	17	405	cargo handling service	
15	commercial cleaning and livestock process			14		6		15	12	5	11	13	13	7	11	13	8	5	11	3	9	6	7	13	9	191	commercial cleaning and livestock process	
17	others			13		13		25	19	14	13	9	6	9	7	15	5	7	12	7	8	10	6	7	6	211	others	
14	hotel/restaurant/amusement service																				1			2	3	3	hotel/restaurant/amusement service	
02	mining			3		3		1	4	2	3		2	3	2	1	2	1	2	3	1	3	4	1	1	42	mining	
07	livestock/fishery			3		3		2	1	2	4	3	2	1	1	1		1	1		1	3	1	1	1	31	livestock/fishery	
06	agriculture			1		1		4	1	1	2	2	1	1		1	1	3	1		1		3	1	1	26	agriculture	
09	financial business/advertisement					1		1					1					2	1	1					1	8	financial business/advertisement	
11	telecommunication service							2				1	1		1						1					6	telecommunication service	
12	education/research service											1		1	1			2						1		6	education/research service	
13	health and hygiene service																					2	1			3	health and hygiene service	
10	movie/play service							1																		1	movie/play service	
16	public office																										1	public office
	total			1,357		1,269		1,252	1,216	1,185	1,175	840	844	871	875	789	840	742	772	785	828	850	725	780	762	18,757	total	

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 211 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
0112	metal products			462		427		426	376	391	399	302	296	301	280	262	279	280	277	297	291	290	255	278	284	6,453	metal products
0403	road cargo transportation service			124		136		118	123	108	101	64	80	64	78	72	70	60	73	70	67	75	63	68	63	1,677	road cargo transportation service
0113	machine products			118		109		116	122	117	114	69	89	69	86	76	91	75	77	69	79	88	62	64	60	1,750	machine products
0110	steel making			92		92		101	88	86	71	59	57	75	70	49	61	49	53	43	69	52	41	53	55	1,316	steel making
0302	construction work			78		71		68	73	75	52	40	36	54	39	36	41	35	42	47	33	39	48	34	45	986	construction work
0115	transport equipment products			84		76		76	103	106	105	76	74	62	68	48	51	47	40	52	46	44	42	45	36	1,281	transport equipment products
0109	sand and stone products			78		60		49	60	55	52	33	38	34	40	32	34	28	30	25	22	48	33	38	34	823	sand and stone products
0301	civil engineering work			41		53		36	27	38	25	27	23	23	23	31	23	22	11	17	16	22	34	24	29	545	civil engineering work
0303	other construction works			32		24		26	37	27	33	28	15	22	26	26	22	20	15	23	27	32	9	28	22	494	other construction works
0804	other commerce			18		19		16	10	9	19	8	7	9	8	16	18	8	6	11	15	15	8	11	17	248	other commerce
0801	wholesale			27		31		19	22	21	16	11	17	20	21	17	18	13	17	19	31	15	18	15	16	384	wholesale
0117	other manufacturing			39		18		28	26	23	30	17	17	22	25	20	29	12	21	21	28	24	18	16	13	447	other manufacturing
0108	chemical products			20		22		27	18	17	17	10	11	21	13	13	11	20	14	9	13	16	17	17	12	318	chemical products

0111	nonferrous metal making			18		12		15	13	15	16	13	15	15	15	11	11	12	14	16	14	12	7	8	12	264	nonferrous metal making
0502	harbor transportation service			21		18		14	18	19	20	12	13	14	18	10	17	9	12	10	3	9	10	12	11	270	harbor transportation service
1501	commercial cleaning and livestock process			14		6		15	12	5	11	13	13	7	11	13	8	5	11	3	9	6	7	13	9	191	commercial cleaning and livestock process
0802	retail			11		20		12	11	13	11	11	8	8	6	8	16	4	6	7	11	10	6	6	8	193	retail
0501	land cargo handling service			8		10		11	6	6	15	5	3	3	9	2	7	9	3	6	7	9	4	6	6	135	land cargo handling service
0114	electrical equipment products			18		15		12	20	13	22	8	5	12	10	8	9	9	11	12	11	10	6	17	5	233	electrical equipment products
1702	others			12		13		25	18	12	13	7	5	9	6	13	5	7	11	6	8	10	6	6	5	197	others
0106	pulp/paper processing products			6		5		4	5	2	2	4	4	4	4	3		4	1	2	5	4			4	63	pulp/paper processing products
0104	wood products			10		5		9	8	10	8	4	4	3	2	4	2	5	1	3	3	2	4	1	3	91	wood products
0101	food products			8		9		12	8	4	6	10	4	10	6	4	10	1	7	6	9	8	8	9	2	141	food products
0202	quarrying			2		3		1	4	2	3		1	2	2	1	2	1	2	3	1	3	4		1	38	quarrying
0702	fishery			3		3		2		2	3	1	2		1	1			1			1	3	1	1	25	fishery
0105	furniture			1		1		2	2	1	2		1			2		1		1			1		1	16	furniture
0401	railroad/water transportation/airline service									1	2			1		1	1		1	1	2		4	1	1	16	railroad/water transportation/airline service
1701	dispatch service			1					1	2		2	1		1	2			1	1				1	1	14	dispatch service
0107	printing/bookbinding			3				2				1			1	1		1			1			1	1	12	printing/bookbinding
0602	forestry			1		1		1	1	1	1		1				1			1			1	1	1	11	forestry
0404	other transportation service					4			1		1					2									1	9	other transportation service
0901	financial business							1											1						1	4	financial business
1403	other amusement service																					1			1	2	other amusement service
1402	restaurant																								1	1	restaurant
0102	textile products			2		4		4		1	3	1		3	3	1	2		7	2	3	3	2	3		44	textile products
0601	agriculture							3			1	2		1		1	1	2	1				3			15	agriculture
0103	fiber products			3						1					2				3	1						10	fiber products
0402	road passenger transport service									1						1	1				2	1				6	road passenger transport service
0701	livestock								1		1	2		1						1						6	livestock
1101	telecommunication service								2				1	1		1					1					6	telecommunication service
1201	education/research service												1		1	1			2					1		6	education/research service
0116	electric/gas/water service			1		1				1										1						4	electric/gas/water service
0902	advertisement and mediator					1												2		1						4	advertisement and mediator
0203	other mining												1	1											1	3	other mining
1302	social welfare facility																						2	1		3	social welfare facility

150102	industrial waste management service			7		1		7	7	2	5	6	6		8	8	4	2	5	2	3	2	1	10	6	92	industrial waste management service
030203	building facility construction work			6		3		6	5	6	3	3	4	5		2	2	4	7	4	3	2	5	4	6	80	building facility construction work
030302	machinery/apparatus setting work			15		10		10	18	12	15	15	6	6	8	12	6	9	4	8	10	10	3	11	5	193	machinery/apparatus setting work
030106	road construction work			3		3		5	5	3	7	5	2	3	2	2	4	4		6		4	5	4	5	72	road construction work
030301	electricity/telecommunication work			7		3		1	1	2	2	3	2	1		3	5	1	1	1	3	6	2	2	5	51	electricity/telecommunication work
011709	other manufacturing			16		7		15	9	10	15	9	6	9	11	7	14	6	8	10	9	15	9	6	4	195	other manufacturing
170209	others			12		13		25	17	11	13	6	5	8	6	11	4	5	9	6	7	10	6	6	4	184	others
010909	other sand and stone products			14		15		11	16	11	10	10	10	7	7	5	6	8	6	3	4	7	11	8	4	173	other sand and stone products
011409	other electrical equipment			9		8		4	7	4	6	3	5	8	5	3	9	2	6	6	5	5	4	8	4	111	other electrical equipment
030107	river civil engineering work			3		1		1	2		2	3	1	1	2		1	1			1	2		1	4	26	river civil engineering work
011102	nonferrous metals casting products			7		3		7	4	3	1	7	9	5	5	3	6	5	3	5	5	4	5	1	3	91	nonferrous metals casting products
011202	screw products			1		8		3	5	2	1	2	3	5	4	1	5	1	3	2	1		1	5	3	56	screw products
050201	general harbor transportation service			1		2		4	1	2	5	3	2	5	6	3	4	2		3		1	2	4	3	53	general harbor transportation service
010601	pulp/paper			3		3		3	2	1	1	2	4	2	2	3		2	1	1	3				3	36	pulp/paper
011101	nonferrous metals/rolling products			9		4		3	6	8	11	5	2	3	3	4	3	6	5	7	4	5	1	6	2	97	nonferrous metals/rolling products
030202	wooden house construction work			7		9		13	6	9	3	3	2	5	1	4	4	4		5	6	4	2	2		93	wooden house construction work
150103	other waste disposal service			1		2		3	2	2	2	3	2	5	2	3	1	3	4	1	1	1	1		2	41	other waste disposal service
010409	other lumber and wood products			3		2		7	1	1	2	3				2	1	2	1				3		2	30	other lumber and wood products
030109	land consolidation civil engineering work			2		2		3	1	3	1			2			2	2			1	1			2	22	land consolidation civil engineering work
010904	fire resisting products			1				2	1	1		1	3		2	1				1	1	1		1	2	18	fire resisting products
030104	railway construction work					2				2	1	1	1			2						2		2	2	15	railway construction work
010109	other foods			2		5		6	5	2	4	4	2	6	1	2	4		3	3	3	1	4	5	1	63	other foods
011401	heavy electrical equipment			4		5		4	3	3	11	1		1	2	4		6	1	2	2	2		5	1	57	heavy electrical equipment
080401	warehousing			6		9		5	3	5	6	1	1	3	1	4	1	2		3	2	1	1	2	1	57	warehousing
030110	water supply/sewage construction work			3		7		6	4	4	1	1	2	3	3	4	1	3	3	2	1	2	3	1	1	55	water supply/sewage construction work
040302	specific truck transportation service			4		2		8	3	3	4		2	2	3		2	7	2		2	1		7	1	53	specific truck transportation service
010401	lumbering			5		3		1	6	5	6	1	4	3	2	2	1	2		2	1	1	1	1	1	48	lumbering
040309	other land cargo transportation service			5		4		7	5	2	2	2	1	2	1	2	2	2	1	2		3	1	3	1	48	other land cargo transportation service
010103	agricultural food products			2		3		5	3	2	1	1	1	3	1	1	3		1		5	3	2	4	1	42	agricultural food products
010806	rubber products			3		6		5		4	2		1	3	1	2	1	4		2	2		4	1	1	42	rubber products
030105	bridge construction work			2		5		4	1	6		3	1	1	1	5	1		2		4		5		1	42	bridge construction work
030108	sand collapse prevention civil engineering work					8		2		2	3		2		2	4	1			1		1	1		1	28	sand collapse prevention civil engineering work

010602	paper processing products			2		2		1	1	1	1	1		2	2			2			2	4			1	22	paper processing products
010801	non organic or organic chemical products			4				2	1	1	1		2	1			2	1				4	1	1	1	22	non organic or organic chemical products
150101	building maintenance service			3		1		3	1	1	1	1	3				1				2		1	2	1	21	building maintenance service
011302	measuring instruments			2		1		1	1	2	3			2		1									1	14	measuring instruments
170101	dispatch service			1				1	2		2	1		1	2			1	1					1	1	14	dispatch service
080201	all kinds of retail			1		2			1		2	1		2		1		2							1	13	all kinds of retail
170201	security service							1	1		1		1		2	1	2	2		1					1	13	security service
070201	fishery			1		1			1	1	1	1		1	1			1					2		1	12	fishery
020202	gravel digging					1				2			1			2	1	2	1						1	11	gravel digging
010701	printing service			2				1				1			1	1		1						1	1	10	printing service
010905	other ceramic products			1		1		1	1		1	1		1										1	1	10	other ceramic products
040409	other transportation service					4			1		1				2										1	9	other transportation service
010509	other furniture							2					1		2										1	6	other furniture
040102	water transportation service														1								3	1	1	6	water transportation service
060209	other forestry							1	1												1				1	4	other forestry
090103	insurance business							1					1					1							1	4	insurance business
010808	painting products												1				1								1	3	painting products
140201	general restaurant																								1	1	general restaurant
140301	golf course																								1	1	golf course
011701	auto mobile servicing			8		2		3	4	5	4	6	5	4	3	3	2	3	5	4	5		4	3		73	auto mobile servicing
011403	electronics equipment and telecommunications apparatus			3		2		1	6	3	4	1		2	3			2	4	2	2	1	3			39	electronics equipment and telecommunications apparatus
150109	other cleaning and livestock process service			3		1		1	2		2	3	2	2	1	2	1			2	3	4				29	other cleaning and livestock process service
011503	railway vehicle products			1		2		1	3		3	3	1	1	1	4	1		4	1	1			1		28	railway vehicle products
011402	electrical appliance			2				3	4	3	1	3		1		1		1	2		2	1	1	1		26	electrical appliance
020201	quarrying			2		2		1	3	2	1		1	1	2	1				2	1	3	4			26	quarrying
010902	glass products			3		3		1	1	2	2		2	4				1	1			4	1			25	glass products
080101	all kinds of wholesale			3		4		1	2	1	1		1		1	1			2	4	1	1	1			24	all kinds of wholesale
010209	other textile products			1		2		1		1	2	1		1	3		1		2		1	2	1	3		22	other textile products
010899	other chemical products			1		1			2		1	2	2	3		2		1	1		1	1		3		21	other chemical products
030111	port/seaside construction work			3		4		1		2		1		1	1	1			2		1	3				20	port/seaside construction work
011201	western tableware/cutting tool products			2		1		2		2	4	1			1	1	2			1			1	1		19	western tableware/cutting tool products
030102	tunnel construction work			1		2		2	2	1		1	1		1	1	2			1			1	3		19	tunnel construction work
010102	fishery products			3							4			1	1	2		2			1	1				15	fishery products
060101	agriculture							3			1	2		1		1	1	2	1				3			15	agriculture
010204	dyeing			1		1		2			1			1		1	1		3	1	1	1				14	dyeing
010402	plywood			2				1	1	4							1		1	2	1					13	plywood
070209	other fishery			2		2		2		1	2		1								1	1	1			13	other fishery
010101	meat/dairy products					1		1			1	1	1		2					2	1	2				12	meat/dairy products

