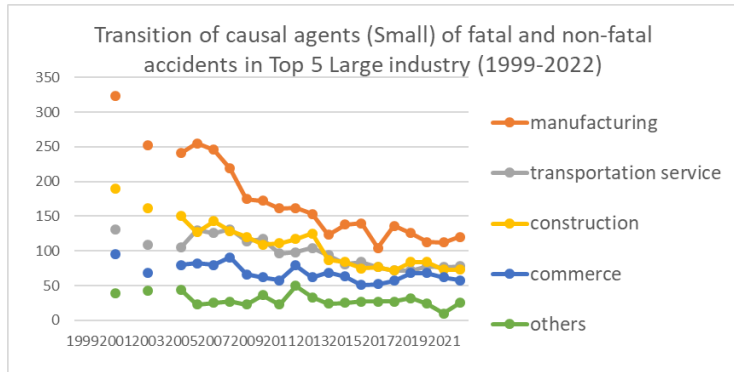
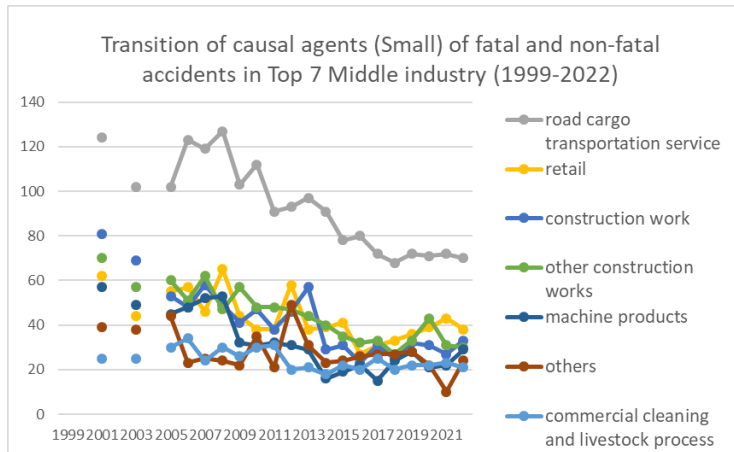


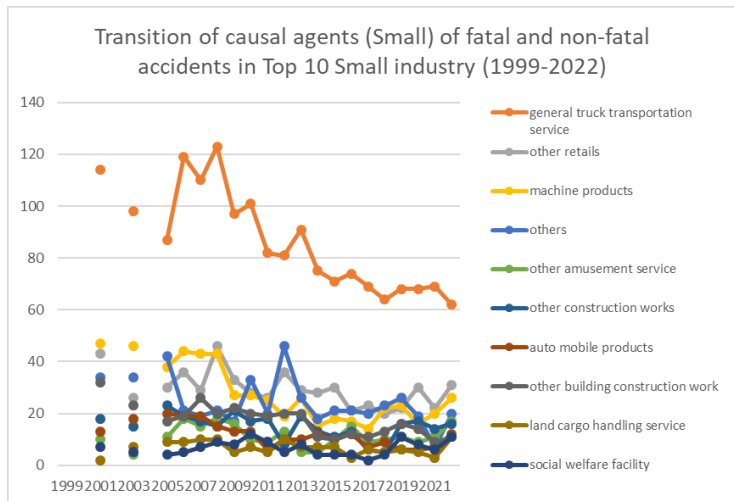
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 612 machine/equipment as load (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 612 machine/equipment as load in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 612 machine/equipment as load in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 612 machine/equipment as load in Small Industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 612 machine/equipment as load 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			323		252		241	255	246	219	175	172	161	162	153	123	138	140	104	136	126	113	112	120	3,471	manufacturing
04	transportation service			131		109		105	130	126	131	114	117	96	98	104	94	81	84	77	72	72	78	77	78	1,974	transportation service
03	construction			190		162		150	127	143	129	120	109	111	117	125	87	84	75	77	72	84	84	73	73	2,192	construction
08	commerce			95		69		80	82	80	91	66	62	58	79	62	69	63	51	52	57	68	68	62	58	1,372	commerce
17	others			39		43		44	23	25	27	23	36	23	50	33	24	25	27	27	27	32	24	10	25	587	others
15	commercial cleaning and livestock process			25		25		30	34	24	30	26	30	31	20	21	18	22	20	25	20	22	22	23	21	489	commercial cleaning and livestock process
14	hotel/restaurant/amusement service			24		19		26	32	29	26	28	22	17	29	17	15	21	27	15	19	18	21	16	21	442	hotel/restaurant/amusement service
13	health and hygiene service			11		10		6	7	17	11	11	13	13	8	9	8	9	11	5	8	15	9	11	16	208	health and hygiene service
05	cargo handling service			8		8		9	10	11	11	9	6	12	9	8	8	5	6	6	7	6	3	13	166	cargo handling service	
07	livestock/fishery			6		9		2	1	1	2	1	1	4	3	3	2	2	2	1	1	2	3	3	49	livestock/fishery	
09	financial business/advertisement			2		2		3			2	1	4	3	1	1	2					2	1	1	2	27	financial business/advertisement
06	agriculture			1		1		3	2	1	1	1	5	2	2	3	5	1	3	5	1	4	2	1	1	45	agriculture
02	mining			3		1			1	1		1	1			1		1						1	1	12	mining
12	education/research service			3		2		2	4	2	2	3	4	3	4	1	1	1	2	1	3	8	1	1		48	education/research service
10	movie/play service			1		1		2	1	1			2	3	1	1	1	2	3			2				21	movie/play service
11	telecommunication service							4	2	3	2	1	3		1			1	1						3	21	telecommunication service
16	public office							1	1			3			1											7	public office
	total			862		713		706	713	710	683	586	590	528	589	543	458	459	451	396	423	461	431	397	432	11,131	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 612 machine/equipment as load 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
0403	road cargo transportation service			124		102		102	123	119	127	103	112	91	93	97	91	78	80	72	68	72	71	72	70	1,867	road cargo transportation service
0802	retail			62		44		55	57	46	65	44	38	38	58	38	39	41	27	31	33	36	39	43	38	872	retail
0302	construction work			81		69		53	48	58	49	41	47	38	46	57	29	31	23	31	25	32	31	27	33	849	construction work
0303	other construction works			70		57		60	51	62	47	57	48	48	47	44	40	35	32	33	27	33	43	31	30	895	other construction works
0113	machine products			57		49		45	48	52	53	32	31	32	31	29	16	19	22	15	24	28	21	22	29	655	machine products
1702	others			39		38		44	23	25	24	22	35	21	49	31	23	24	26	27	27	28	22	10	24	562	others
1501	commercial cleaning and livestock process			25		25		30	34	24	30	26	30	31	20	21	18	22	20	25	20	22	22	23	21	489	commercial cleaning and livestock process
0112	metal products			66		58		37	44	48	33	35	27	24	23	24	15	23	20	18	19	27	10	20	18	589	metal products
0115	transport equipment products			27		28		30	37	33	26	22	21	12	14	16	18	16	18	11	18	8	13	12	18	398	transport equipment products
1403	other amusement service			12		9		14	20	17	20	18	11	11	17	7	7	11	16	10	13	11	10	11	18	263	other amusement service
0101	food products			29		21		28	22	23	17	21	22	19	16	26	16	21	20	15	16	16	22	14	12	396	food products

0108	chemical products			26		18		15	21	9	8	17	10	12	18	13	15	8	6	6	4	10	4	9	11	240	chemical products	
0501	land cargo handling service			2		7		9	9	10	10	5	7	5	10	7	7	7	3	6	5	6	5	3	11	134	land cargo handling service	
1302	social welfare facility			7		5		4	5	7	9	8	12	9	5	8	4	4	4	2	4	11	8	6	11	133	social welfare facility	
0301	civil engineering work			39		36		37	28	23	33	22	14	25	24	24	18	18	20	13	20	19	10	15	10	448	civil engineering work	
0114	electrical equipment products			21		14		23	21	18	20	7	9	15	14	14	14	10	14	7	18	10	10	11	10	280	electrical equipment products	
0801	wholesale			18		13		14	11	24	14	9	12	14	10	15	18	12	15	11	12	16	19	9	10	276	wholesale	
0804	other commerce			15		12		11	14	10	12	13	11	5	11	9	11	9	9	10	11	15	8	10	10	216	other commerce	
0117	other manufacturing			43		30		31	23	32	26	22	29	30	29	16	13	22	19	14	21	10	13	12	9	444	other manufacturing	
0402	road passenger transport service			2		3		2	4	5	3	11	4	4	4	5	3	1	3	2	2		5	2	6	71	road passenger transport service	
1301	medical treatment service			4		4		1	1	9	2	3	1	4	3	1	4	5	7	3	4	4	1	5	5	71	medical treatment service	
0104	wood products			2		2		3	2	3	3	3	2			1	2	1	2			2	3	1	4	36	wood products	
0111	nonferrous metal making			11				1	3	1	1	3	3	1	3	1		1	3	4	1	3	4	2	3	49	nonferrous metal making	
0701	livestock			3		2			2	1	1	1	1	1	1	3	1	1	1	1					3	24	livestock	
1402	restaurant			10		5		5	9	3	2	6	9	3	7	5	6	9	6	3	4	5	7	2	2	108	restaurant	
0110	steel making			12		7		10	8	4	6	2	2	5	3	1	1	5	5	4	4	5	3	4	2	93	steel making	
0107	printing/bookbinding			4		3		3	3	3	4	3	3	1	2	2	1	4	2	2	3		2	1	2	48	printing/bookbinding	
0502	harbor transportation service			6		1			1	1	1	6	2	1	2	2	1	1	2		1	1	1		2	32	harbor transportation service	
1401	hotel			2		5		7	3	9	4	4	2	3	5	5	2	1	5	2	2	2	4	3	1	71	hotel	
0106	pulp/paper processing products			5		5			5	3	3		6	4	2	2	2		1	2	3			1	1	45	pulp/paper processing products	
0601	agriculture							2	2			1	3	1	1	3	5	1	2	4	1	3	2	1	1	33	agriculture	
0105	furniture			6		4		2	1	2	4	2	1				1	1		2		1	1		1	29	furniture	
0401	railroad/water transportation/airline service			5		2			3		1			1	1	1		1	1	3	2		2	2	1	26	railroad/water transportation/airline service	
1701	dispatch service					5					3	1	1	2	1	2	1	1	1				4	2		1	25	dispatch service
0902	advertisement and mediator			2		1		2			1	1	1		1		2					2		1	1	15	advertisement and mediator	
0901	financial business					1		1			1		3	3		1							1		1	12	financial business	
0404	other transportation service					2		1		2			1			1		1						1	1	10	other transportation service	
0202	quarrying			2		1				1			1			1		1						1	1	9	quarrying	
0109	sand and stone products			6		10		8	11	13	9	2	3	4	4	6	8	6	6	2	2	2	7	2		111	sand and stone products	
1201	education/research service			3		2		2	4	2	2	3	4	3	4	1	1	1	2	1	3	8	1	1		48	education/research service	
0102	textile products			3		2		3	4	1	4			2	1	1	1		1	2	2	3				30	textile products	
0702	fishery			3		7						1			3	2		1	1	1		1	2	3		25	fishery	
1001	movie/play service			1		1		2	1	1			2	3	1	1	1	2	3			2				21	movie/play service	

030301	electricity/telecommunication work			16		11		10	4	9	5	12	7	7	10	3	5	4	3	6	6	2	4	3	5	132	electricity/telecommunication work
030202	wooden house construction work			18		11		9	6	11	6	4	6	7	10	7	3	2	1	6	3	5	4	3	5	127	wooden house construction work
150103	other waste disposal service			3		5		6	7		5	3	3	7	1	5	2	3	3	5	3	1	2	4	5	73	other waste disposal service
040309	other land cargo transportation service			4				8		5	1	3	3	3	5	2	6		5		3	1		2	5	56	other land cargo transportation service
010801	non organic or organic chemical products			1		2		1	3	4		4		1			1	2			1			1	5	26	non organic or organic chemical products
011701	auto mobile servicing			15		12		6	9	11	6	6	6	9	8	5	4	7	5	4	4	5	3	4	4	133	auto mobile servicing
010805	plastics products			16		7		7	8	5	4	6	5	5	9	7	6	3	5	2	3	3	1	5	4	111	plastics products
011203	metal press products			8		4		8	5	8		2	6	3	3	3	1	1	3	1	5	2	3	4	4	74	metal press products
170201	security service			5		3		2	2	4	3	5	1	1	2	3	4	2	5	7	2	1	3	3	4	62	security service
011509	other transport equipment products			7		4		4	4	4	5	1	1			4	5	2	3	1	5	2		3	4	59	other transport equipment products
130101	hospital			4		2				8	2	2	1	3	2	1	3	4	5	1	4	3	1	2	4	52	hospital
080401	warehousing					2				2	2	2	1		2	4	1		2	1	4	1	3	1	4	32	warehousing
011204	metal plating products			2				1	1		1	2		2	1				1	1		1			4	17	metal plating products
011702	machine repair			13		13		17	6	12	13	6	7	13	9	4	6	10	4	6	5	1	2	3	3	153	machine repair
150109	other cleaning and livestock process service			4		4		6	5	7	6	2	6	5	3	4	3	3	2	2	1	7	5	2	3	80	other cleaning and livestock process service
011305	other precision machine products			7		2		7	2	5	5	2	2	7	7	3		1	4	1	1	3	4	1	3	67	other precision machine products
080202	auto mobile retail			2		2		7	5	4	5	1	3	2	5	1	2	1	1	3	6	2	1	8	3	64	auto mobile retail
040201	taxi service			1		1		2	2	4	1	4	3	1	3	1	2		2	1			4	1	3	36	taxi service
040202	bus service			1		2			2	1	2	7	1	3		3	1	1	1	1	2		1	1	3	33	bus service
070101	livestock			3		2			2	1	1	1	1	1	1	1	3	1	1	1	1				3	24	livestock
011709	other manufacturing			13		5		7	8	9	7	9	16	8	12	7	2	5	9	2	8	3	7	5	2	144	other manufacturing
080201	all kinds of retail			9		11		10	9	10	7	4	2	3	9	4	6	6	3	1	3	3	4	6	2	112	all kinds of retail
140201	general restaurant			9		5		4	7	2	2	5	9	3	7	5	4	6	6	3	3	4	6	2	2	94	general restaurant
011403	electronics equipment and telecommunications apparatus			6		4		10	5	4	4	1	2	4	2	4	5	2	3	2	8	2	2	2	2	74	electronics equipment and telecommunications apparatus
010104	bread/cake products			5		2		5	2	5	4	6	2	5	3	7	4	4	2	4	2	2	4	1	2	71	bread/cake products
030110	water supply/sewage construction work			9		7		4	6	2	7	5	1	2	4	4	3	2	3		1			2	2	64	water supply/sewage construction work
010101	meat/dairy products			3		4			2	1	6	3	1	1	1	2	3	5	2	2	1	5		3	2	47	meat/dairy products
080203	furniture/fittings retail			2		1		3	2		5	3		4	3	3	1	1	1	2	2	2	3	1	2	41	furniture/fittings retail
010701	printing service			3		3		3	2	1	3	3	3	1	2	2		3	2	2	3		1	1	2	40	printing service
011402	electrical appliance			3		2		5	1	3	4			4	2	3	1		2	1	1	1			2	35	electrical appliance
010409	other lumber and wood products			1		2		1	1	1	1	3	1			1	1		2			1	1	1	2	20	other lumber and wood products
011109	other nonferrous metal products			5					1		1	2		1					1	1		1			2	15	other nonferrous metal products
040303	cargo/ light automobile transportation service							1	2			1	2	2		1	1							1	2	13	cargo/ light automobile transportation service

030109	land consolidation civil engineering work			3		2		1	3	3		1		2	3	1	1			2	1	1			24	land consolidation civil engineering work
110101	telecommunication service							4	2	3	2	1	3		1		1	1					3		21	telecommunication service
011302	measuring instruments			2					1	2	2	3	1		3					1	1	1			17	measuring instruments
070209	other fishery			2		5								2	1		1	1	1		1	2	1		17	other fishery
011102	nonferrous metals casting products			4				1		1			2		2		1		1	1	1	1			15	nonferrous metals casting products
011303	optical instruments			1		1			1	2	3		1		2		1		1			1		1	15	optical instruments
010209	other textile products			1		1		1	2		2			1		1	1				2	2			14	other textile products
011703	cleaning			2				1				1					1		1	2	4	1	1		14	cleaning
030107	river civil engineering work			1		2		2	1		1	1			1		1					3	1		14	river civil engineering work
100109	other movie/play service			1		1		2					1	2	1	1		2	2			1			14	other movie/play service
140209	other restaurants			1				1	2	1		1					2	3			1	1	1		14	other restaurants
030105	bridge construction work			1				2		1				2			1	1	1	1		1	1		12	bridge construction work
170202	information processing service					1				2			1		1	2	1	1			2	1			12	information processing service
010501	wood furniture			4						1	2		1				1					1	1		11	wood furniture
010609	other pulp/paper processing products			3		1			2				1	1			2				1				11	other pulp/paper processing products
010903	pottery products							1	2	1	1	1										1	2	1	10	pottery products
090103	insurance business					1		1			1		3	3									1		10	insurance business
130102	general clinic					1			1			1					1	1	1		1		3		10	general clinic
080102	furniture/fittings wholesale			1							2		1		1			1		1		1	1		9	furniture/fittings wholesale
010309	other fiber products			2		1		1	1		1				1				1						8	other fiber products
010902	glass products			1				1	1	2						2		1							8	glass products
010905	other ceramic products					1		1	1				1			1	1		1	1					8	other ceramic products
011602	city gas service			2					1			2	1								1	1			8	city gas service
030111	port/seaside construction work					2					1				1				1		1	1	1		8	port/seaside construction work
060201	lumbering					1		1		1			1	1	1				1	1					8	lumbering
070201	fishery			1		2						1			1	1								2	8	fishery
120102	software service					1				1	2	1			1							1	1		8	software service
140302	park and amusement park			1		2		1			1				1					1		1			8	park and amusement park
010203	weaving					1		1	2		1				1							1			7	weaving
080302	beauty salon												1			1	1			1	1	2			7	beauty salon
100101	movie production and delivery service							1	1				1	1			1		1			1			7	movie production and delivery service
160101	public office							1	1			3			1						1				7	public office
010204	dyeing			2						1				1				1	1						6	dyeing
010301	over/under wear							1				1	2			1		1							6	over/under wear
010402	plywood			1				1		1				1				1					1		6	plywood
010702	bookbinding			1					1	1							1	1					1		6	bookbinding
010808	painting products							1				2	2					1							6	painting products
011202	screw products			1								1					1						2		6	screw products

