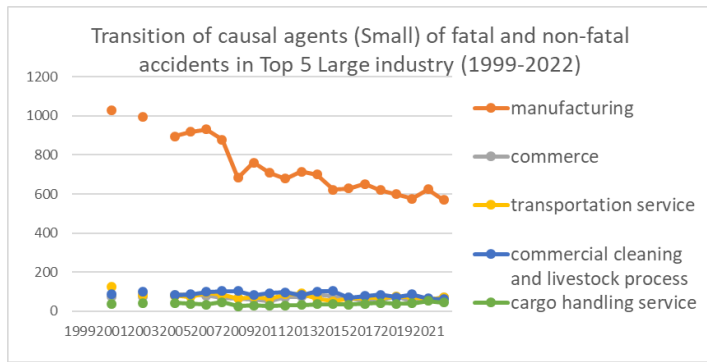
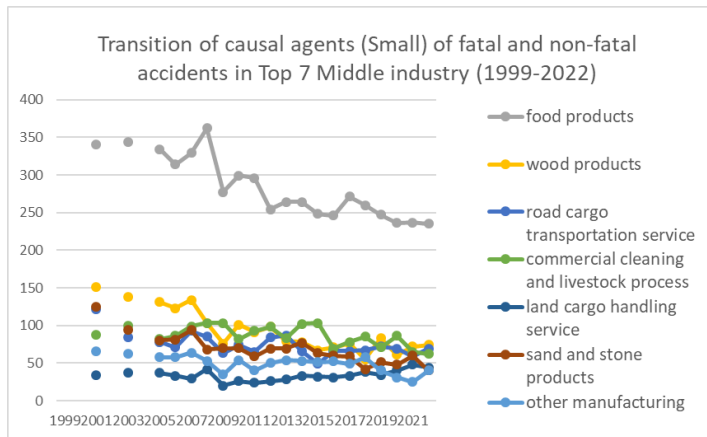


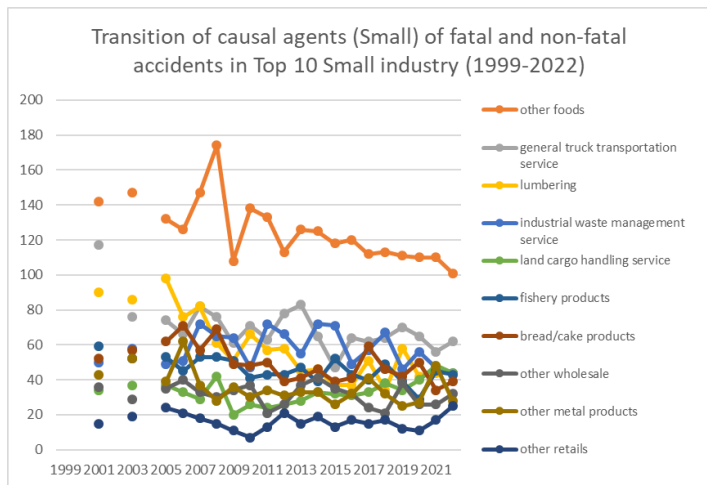
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 224 conveyor (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 224 conveyor in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 224 conveyor in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 224 conveyor in Small Industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 224 conveyor 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			1,030		995		895	918	931	879	683	760	708	678	714	699	623	629	651	620	599	575	625	570	14,782	manufacturing
08	commerce			74		74		85	85	81	68	65	62	53	71	73	85	76	69	52	55	76	49	58	72	1,383	commerce
04	transportation service			125		85		81	73	94	85	65	74	65	87	90	66	50	66	68	67	74	71	62	69	1,517	transportation service
15	commercial cleaning and livestock process			88		100		82	86	99	103	103	82	93	98	83	102	103	69	78	85	71	86	65	62	1,738	commercial cleaning and livestock process
05	cargo handling service			36		43		42	39	33	46	25	30	27	30	31	37	37	34	38	42	39	40	53	45	747	cargo handling service
17	others			30		51		41	42	40	30	25	34	32	34	27	35	20	19	25	17	27	32	26	27	614	others
02	mining			46		55		54	44	41	32	34	25	22	35	36	36	21	24	30	25	23	20	17	25	645	mining
03	construction			45		48		40	36	25	32	18	16	30	24	15	16	14	25	22	29	17	25	20	23	520	construction
07	livestock/fishery			35		25		20	29	22	24	14	33	28	23	33	29	20	20	23	20	12	20	22	17	469	livestock/fishery
06	agriculture			15		11		9	17	10	13	17	9	12	7	13	13	21	15	11	10	16	14	16	16	265	agriculture
14	hotel/restaurant/amusement service			13		14		11	7	9	14	12	9	15	9	6	6	7	6	9	11	4	3	7	3	175	hotel/restaurant/amusement service
13	health and hygiene service			3		1		5	3	4	1	3	2	1	3	2	2	2		3	2	5	1	2	3	48	health and hygiene service
12	education/research service			9		1		3	3	2		1	4		1	2		1	1		2	1	1	2	35	education/research service	
11	telecommunication service							7	5	9	10	6	12	5	4	2	4	3	3	8	4	1	4	2	1	90	telecommunication service
09	financial business/advertisement			4				2		2		1				1				1	1					12	financial business/advertisement
16	public office			1		1		1	1					1					1							6	public office
10	movie/play service																										movie/play service
	total			1,554		1,504		1,376	1,390	1,400	1,339	1,071	1,153	1,092	1,104	1,127	1,131	998	981	1,019	988	967	941	976	935	23,046	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 224 conveyor 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
0101	food products			341		344		334	314	329	362	277	299	296	254	264	264	248	246	271	260	247	236	237	235	5,658	food products
0104	wood products			151		138		131	123	134	103	76	101	91	98	79	78	67	71	76	55	83	61	72	74	1,862	wood products
0403	road cargo transportation service			121		84		78	71	93	85	63	74	65	84	87	66	49	66	66	67	72	69	59	69	1,488	road cargo transportation service
1501	commercial cleaning and livestock process			88		100		82	86	99	103	103	82	93	98	83	102	103	69	78	85	71	86	65	62	1,738	commercial cleaning and livestock process
0501	land cargo handling service			34		37		37	33	29	42	20	26	24	26	28	33	32	31	33	38	34	40	48	44	669	land cargo handling service
0109	sand and stone products			125		94		80	81	94	68	70	70	59	69	69	77	63	60	59	42	51	48	60	40	1,379	sand and stone products
0117	other manufacturing			66		62		58	58	64	53	35	54	40	50	54	53	51	52	49	58	40	31	25	40	993	other manufacturing
0108	chemical products			71		70		55	71	70	74	38	52	48	47	49	38	48	42	32	46	47	54	53	37	1,042	chemical products
0801	wholesale			39		34		43	46	40	32	37	38	24	29	40	42	38	33	25	24	39	26	27	34	690	wholesale
0112	metal products			56		56		49	68	46	34	40	31	36	34	37	41	32	37	45	35	31	31	57	33	829	metal products
0802	retail			21		25		30	25	23	18	17	8	18	22	15	22	16	19	16	18	15	12	19	25	384	retail
1702	others			29		45		36	40	35	29	23	33	30	32	24	35	18	18	25	17	26	29	26	24	574	others
0106	pulp/paper processing products			57		52		40	43	37	43	40	36	29	25	35	29	15	35	25	23	26	25	25	23	663	pulp/paper processing products
0202	quarrying			43		53		51	42	39	28	33	25	21	33	30	35	21	24	30	25	22	20	15	22	612	quarrying

0113	machine products			31		29		26	24	29	26	24	25	14	20	13	19	12	13	11	16	10	11	18	22	393	machine products
0115	transport equipment products			32		41		28	43	44	29	13	20	26	22	25	27	22	12	23	35	26	24	23	17	532	transport equipment products
0701	livestock			26		23		16	25	19	22	11	31	25	21	29	28	19	19	21	16	12	17	21	16	417	livestock
0601	agriculture			13		11		8	17	9	12	16	9	11	7	11	11	19	12	10	8	15	13	15	16	243	agriculture
0110	steel making			34		31		43	44	32	44	25	37	37	33	33	32	26	27	24	20	17	21	17	15	592	steel making
0804	other commerce			14		15		12	14	18	18	11	16	11	20	18	21	22	17	11	13	22	11	12	13	309	other commerce
0303	other construction works			11		13		19	14	12	12	5	5	15	9	7	5	9	10	9	13	8	13	10	11	210	other construction works
0114	electrical equipment products			24		22		15	16	13	13	5	8	6	4	13	6	7	8	7	7	7	13	11	8	213	electrical equipment products
0111	nonferrous metal making			12		16		10	8	7	6	11	13	9	6	19	10	9	6	11	5	7	7	11	8	191	nonferrous metal making
0107	printing/bookbinding			9		16		11	14	6	12	6	2	8	4	4	6	10	4	9	8	1	5	6	7	148	printing/bookbinding
0302	construction work			21		15		7	12	5	8	6	6	8	5	1	4	1	6	5	2	2	3	4	7	128	construction work
0301	civil engineering work			13		20		14	10	8	12	7	5	7	10	7	7	4	9	8	14	7	9	6	5	182	civil engineering work
0102	textile products			7		14		8	3	6	5	7	2	2	7	8	12	3	6	2	4	1	3	1	5	106	textile products
0116	electric/gas/water service			1		2		1		2	3	4	3	4	2	1	1	1	2	2	3	1		4	3	40	electric/gas/water service
1701	dispatch service			1		6		5	2	5	1	2	1	2	2	3		2	1			1	3		3	40	dispatch service
0105	furniture			10		5		6	4	13	3	8	5	2	1	5	4	7	6	1	3	3	3	3	2	94	furniture
1402	restaurant			5		6		6	3	6	5	3	2	10	5	6	4	2	4	3	8	1	1	3	2	85	restaurant
1201	education/research service			9		1		3	3	2		1	4		1	2		1	1	1		2	1	1	2	35	education/research service
1301	medical treatment service			1		1		5	2	3		1		1	3	1	2	1		1		2			2	26	medical treatment service
0201	coal mining			1		1		1	1			1			1	2	1								2	11	coal mining
1101	telecommunication service							7	5	9	10	6	12	5	4	2	4	3	3	8	4	1	4	2	1	90	telecommunication service
0502	harbor transportation service			2		6		5	6	4	4	5	4	3	4	3	4	5	3	5	4	5		5	1	78	harbor transportation service
0702	fishery			9		2		4	4	3	2	3	2	3	2	4	1	1	1	2	4		3	1	1	52	fishery
0103	fiber products			3		3			4	5	1	4	2	1	2	6	2	2	2	4		1	2	2	1	47	fiber products
0203	other mining			2		1		2	1	2	4			1	1	4						1		2	1	22	other mining
1302	social welfare facility			2					1	1	1	2	1					1		2	1	3	1	2	1	19	social welfare facility
1401	hotel					2								1				1							1	5	hotel
1403	other amusement service			8		6		5	4	3	9	9	7	4	4		2	4	2	6	3	3	2	4		85	other amusement service
0602	forestry			2				1		1	1	1		1		2	2	2	3	1	2	1	1	1		22	forestry
0401	railroad/water transportation/airline service			2				2	2	1		1			3	2		1		2		1		2		19	railroad/water transportation/airline service
0404	other transportation service			1		1		1															2	1		6	other transportation service
0901	financial business			2					1				1									1	1			6	financial business
0902	advertisement and mediator			2					1		2						1									6	advertisement and mediator

010402	plywood			20		18		13	17	23	16	10	15	11	13	11	6	9	13	11	1	10	10	10	8	245	plywood
010899	other chemical products			22		10		9	11	12	11	4	7	15	4	3	10	10	9	10	9	7	8	6	7	184	other chemical products
030309	other construction works			2		6		8	6	3	6	3	2	9		4	3	2	5	4	2	3	4	7	7	86	other construction works
010801	non organic or organic chemical products			10		13		6	9	12	10	5	2	5	11	7	6	5	4	2	6	5	7	6	6	137	non organic or organic chemical products
010806	rubber products			7		12		7	9	9	13	4	5	5	5	8	1	7	4	1	5	10	6	8	6	132	rubber products
010701	printing service			5		8		6	7	4	4	4	1	5	3	3	3	7	3	4	5	1	4	5	6	88	printing service
011001	steel/iron/rolling products			10		9		10	8	7	13	10	8	7	9	5	6	5	6	4	7	3	2	1	5	135	steel/iron/rolling products
011409	other electrical equipment			11		13		4	11	8	6	3	5	2	2	7	2	4	5	3	2	6	8	3	5	110	other electrical equipment
010809	chemical fertilizer products			6		8		6	4	4	6	7	6	4	6	4	3	5	8	6	3	5	5	3	5	104	chemical fertilizer products
030209	other building construction work			10		8		4	7	1	5	5	4	3	2	1	1	1	4	2	2	1	3	2	5	71	other building construction work
150109	other cleaning and livestock process service			13		15		14	12	8	7	14	9	5	10	7	8	8	5	4	7	2	6	4	4	162	other cleaning and livestock process service
030302	machinery/apparatus setting work			9		6		10	8	9	6	2	3	6	8	3	2	7	5	5	11	5	9	3	4	121	machinery/apparatus setting work
011101	nonferrous metals/rolling products			2		8		3	5	2	3	5	6	4	3	9	9	6	1	4	2	1	2	6	4	85	nonferrous metals/rolling products
150101	building maintenance service			8		7		1	6	1	3	6	6	1	3	1	5	6	3	5	5	2	8	3	4	84	building maintenance service
040302	specific truck transportation service			3		3		2	4	5	3	1	1	1	4	2		1		2	2	1	1		4	40	specific truck transportation service
010609	other pulp/paper processing products			14		18		16	9	8	8	9	9	9	4	2	6	5	6	2	6	5	3	1	3	143	other pulp/paper processing products
010903	pottery products			17		7		5	6	11	13	6	8	6	6	6	6	4	5	8	2	6	2	6	3	133	pottery products
010601	pulp/paper			10		6		5	13	9	12	8	9	5	6	7	4	4	9	5	4	2	3	6	3	130	pulp/paper
010905	other ceramic products			7		8		6	5	8	7	3	4	4	3	6	4	5	3	4	8	1	2	5	3	96	other ceramic products
080409	other commerce			5		6		8	5	4	3	3	3	2	8	4	5	6	4	2	3	3	4		3	81	other commerce
010804	petroleum/coal products			5		3		3	11	3	5	5	7	3	1	3	3	1	1	4	5	2	5	4	3	77	petroleum/coal products
010209	other textile products			3		10		5	1	3	2	4	2	1	4	8	6	3	3	2	3	1	2	1	3	67	other textile products
011109	other nonferrous metal products			4		3		4	2	4	1	2	3	4	2	3	1	2	3	4	1	2	4	2	3	54	other nonferrous metal products
011203	metal press products			6		2		5	3	3	3	2	1	1	2		2	2	2	3	2	4	3	5	3	54	metal press products
011305	other precision machine products			3		5		3	5	4	4	1		1	2	3	1	1	2		2	1		7	3	48	other precision machine products
011403	electronics equipment and telecommunications apparatus			8		5		5	2	4	1	1	1	1	1	4	1	1	1	1	2		2	4	3	48	electronics equipment and telecommunications apparatus
170101	dispatch service			1		6		5	2	5	1	2	1	2	2	3		2	1			1	3		3	40	dispatch service
040309	other land cargo transportation service			1		2		2	1	5	3	1	1	1	1	1	1		2	2	1	1	2	3	3	34	other land cargo transportation service
010105	alcoholic drinks			16		10		9	12	10	9	5	7	11	8	2	3	6	3	4	6	7	1	4	2	135	alcoholic drinks
011009	other steel products			7		5		8	9	5	2	5	10	3	5	6	5	5	2	10	3	3	7	6	2	108	other steel products
030199	other civil engineering work			9		10		5	6	6	11	4	3	3	4	5	4	2	4	2	8	3	4	2	2	97	other civil engineering work
010902	glass products			14		8		4	9	6	3	3	1	7	1	5	4	3	5	1	4	6	2	7	2	95	glass products
020209	other quarrying			3		7		7	9	2	3	2	3	3	3	1	3	2	3	2	4	1		1	2	61	other quarrying
140201	general restaurant			4		4		2	1	5	3	2	1	8	2	4	4		3	3	8		1	3	2	60	general restaurant
080101	all kinds of wholesale			3		4		8	6	6	2	2	1	2	3	2	1	2	1	1	2	1		1	2	50	all kinds of wholesale

011702	machine repair			2		4		3	3	1	1	1	4	2	4	4	2		3	3	3	1	2		2	45	machine repair
010904	fire resisting products			2		2		2	2		1	2	2	2	4	2	6	4	2	3	2		1	1	2	42	fire resisting products
120109	other education/research service			9		1		3	3	2		1	4		1	2		1	1	1		2	1	1	2	35	other education/research service
030201	steel frame/reinforced concrete house construction work			5		2		4	2	1		1	1	2		1		1	1		1		1	2	25	steel frame/reinforced concrete house construction work	
130101	hospital			1		1		5	2	2		1		1	2	1	2	1		1		2			2	24	hospital
011202	screw products			1				1	1		1	1					1	3				1		2	2	14	screw products
011603	city water service								1	1	2	2						1						2	2	11	city water service
010204	dyeing			1		1				1	1							1							2	7	dyeing
110101	telecommunication service							7	5	9	10	6	12	5	4	2	4	3	3	8	4	1	4	2	1	90	telecommunication service
050202	port cargo handling service			1		5		5	3	2	4	4	4	3	4	3	4	4	3	5	3	3		5	1	66	port cargo handling service
011102	nonferrous metals casting products			6		5		3	1	1	2	4	4	1	1	7		1	2	3	2	4	1	3	1	52	nonferrous metals casting products
010501	wood furniture			6		2		2		4	1	7	1	1		4	1	4	5	1	1	3	1	2	1	47	wood furniture
010702	bookbinding			4		5		4	5	1	6	2	1	2		1		3	1	3	2		1	1	1	43	bookbinding
010309	other fiber products			1		2			3	3	1	2	1	1	1	4	2	2	2	4		1	2	2	1	35	other fiber products
070209	other fishery			4		1		3	3	2	2	1	2	1	1	1	1	1	2	4		2	1	1	34	other fishery	
011501	ship building			1		1		2	4		1	1	1	1	1	1	1		1	1	3	2			1	23	ship building
011601	electric utility service			1					1	2	2		2	1	1		1	1	2	2	1		1	1	19	electric utility service	
130201	social welfare facility			2					1	1	1	2	1				1		2	1	3	1	2	1	19	social welfare facility	
020309	other mining			2				2	1	2	2			1	1	4								2	1	18	other mining
030102	tunnel construction work					3		4				1	1						2	1	1		2		1	16	tunnel construction work
010502	metal furniture			1		2		1	1	3			1				1	1			2		1		1	15	metal furniture
030109	land consolidation civil engineering work			1		2			1	1		1		1			1			2		2	1	1	1	15	land consolidation civil engineering work
170201	security service			1		1		1	3		1			2			1	2	1	1					1	15	security service
020109	other coal mining					1			1			1			1	1	1								1	7	other coal mining
140101	hotel					2							1				1								1	5	hotel
011503	railway vehicle products					2						1													1	4	railway vehicle products
020101	general coal mining			1				1								1									1	4	general coal mining
030101	hydroelectric plant construction work							1												1	1				1	4	hydroelectric plant construction work
010803	pharmaceuticals			2		3		4	7	7	4	2	3	3	3	6	3	4	3		2	3	3	3		65	pharmaceuticals
011509	other transport equipment products			6		5		3	4	9	4	1	1	1	5	3	4	1	1	4	3	1	2	3		61	other transport equipment products
140309	other amusement service			6		5		3	2	1	7	8	3	3	4		1	2	1	3	2	2	2	1		56	other amusement service
011204	metal plating products			5		2		2	2	5	2	1		1	1	4	4	1	3	1		1	1	2		38	metal plating products
011402	electrical appliance			5		2		4	2	1	4	1	2	2		2	2	2		2	3	1		3		38	electrical appliance
080201	all kinds of retail			6		5		4		2	2	4	1	3	1			2	2					2		34	all kinds of retail
030106	road construction work					2		2	1		1	1		2	3	1	2	2	2	2	2	2	1	1	2	27	road construction work
010509	other furniture			1		1		2	3	4	2	1	2	1	1	1	2	2	1				1			25	other furniture
140209	other restaurants			1		2		4	2	1	2	1	1	2	3	2		2	1			1				25	other restaurants
140301	golf course			2				2	1	2	2	1	3	1				2	1	2				3		22	golf course
070201	fishery			5		1		1	1	1		2		2	1	3							1			18	fishery

