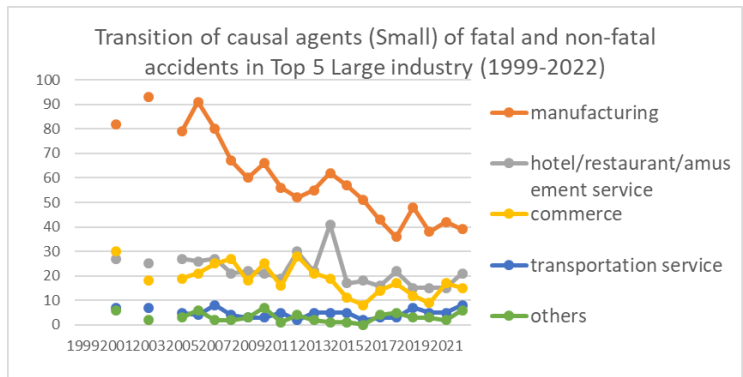
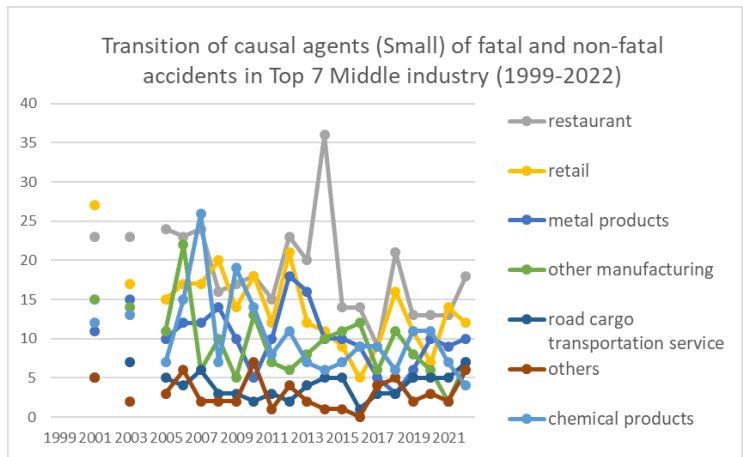


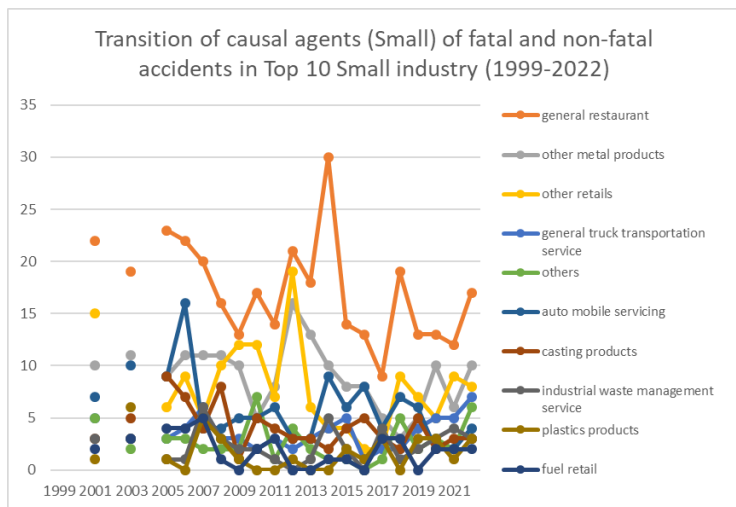
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 512 inflammable substance (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 512 inflammable substance in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 512 inflammable substance in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 512 inflammable substance in Small Industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 512 inflammable substance 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		93		79	91	80	67	60	66	56	52	55	62	57	51	43	36	48	38	42	39	1,197	manufacturing	
14	hotel/restaurant/amusement service			27		25		27	26	27	21	22	21	19	30	22	41	17	18	16	22	15	15	15	21	447	hotel/restaurant/amusement service	
08	commerce			30		18		19	21	25	27	18	25	16	28	21	19	11	8	14	17	12	9	17	15	370	commerce	
04	transportation service			7		7		5	4	8	4	3	3	5	2	5	5	5	2	3	3	7	5	5	8	96	transportation service	
17	others			6		2		3	6	2	2	3	7	1	4	2	1	1		4	5	3	3	2	6	63	others	
03	construction			42		36		25	41	44	25	15	24	9	22	11	15	12	17	21	15	20	20	11	4	429	construction	
15	commercial cleaning and livestock process			8		3		3	2	9	7	2	2	1	1	1	5	6	1	4	3	3	4	7	4	76	commercial cleaning and livestock process	
06	agriculture			1		2		2		1	4	1	2		3		1	1	1	3		1	2	2	2	29	agriculture	
13	health and hygiene service					1		1	2	2	3	1	2	1	3	2	1	1	1	2	3	2	1	6	1	36	health and hygiene service	
12	education/research service			3		1		1	2		1	1		3			1							2	1	16	education/research service	
10	movie/play service															1										54	movie/play service	
07	livestock/fishery			1				1			2				2	3			1	1	1					12	livestock/fishery	
09	financial business/advertisement			9					1	1																11	financial business/advertisement	
05	cargo handling service			1		1			1			1				1	2	1	1							9	cargo handling service	
02	mining			1		1																1	1			4	mining	
16	public office																			1				1		2	public office	
11	telecommunication service																											telecommunication service
	total			218		190		166	197	199	163	127	152	111	147	124	153	112	101	112	106	164	98	110	101	2,851	total	

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 512 inflammable substance 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
1402	restaurant			23		23		24	23	24	16	17	18	15	23	20	36	14	14	9	21	13	13	13	18	377	restaurant

0802	retail			27		17		15	17	17	20	14	18	12	21	12	11	9	5	9	16	11	7	14	12	284	retail
0112	metal products			11		15		10	12	12	14	10	5	10	18	16	10	10	9	5	3	6	10	9	10	205	metal products
0117	other manufacturing			15		14		11	22	6	10	5	13	7	6	8	10	11	12	6	11	8	6	2	7	190	other manufacturing
0403	road cargo transportation service			5		7		5	4	6	3	3	2	3	2	4	5	5	1	3	3	5	5	5	7	83	road cargo transportation service
1702	others			5		2		3	6	2	2	2	7	1	4	2	1	1		4	5	2	3	2	6	60	others
0108	chemical products			12		13		7	15	26	7	19	14	8	11	7	6	7	9	9	6	11	11	7	4	209	chemical products
0115	transport equipment products			6		14		14	10	6	4	8	5	8	2	7	12	8	5	5	5	5	2	9	4	139	transport equipment products
0110	steel making			5		6		11	9	5	9	6	6	5	3	4	4	5	7	3	2	5	3	5	4	107	steel making
1501	commercial cleaning and livestock process			8		3		3	2	9	7	2	2	1	1	1	5	6	1	4	3	3	4	7	4	76	commercial cleaning and livestock process
0114	electrical equipment products			5		2		4	1	6	4	2	3	1	1	1	2	4	2	2	1		3	2	3	49	electrical equipment products
0301	civil engineering work			17		7		8	9	5	6	4	1	4	6	1	3	3	3	6	2	6	3	3	2	99	civil engineering work
1403	other amusement service			3		2		1	2	3	4	3	2	3	3		1	2		4		2	2	2	2	41	other amusement service
0804	other commerce			1				4	1	2	3	2	2	2	2	2	4	1	2	1		1	1		2	33	other commerce
0302	construction work			20		19		13	18	22	10	9	10	1	11	8	8	7	8	9	7	8	7	6	1	202	construction work
0303	other construction works			5		10		4	14	17	9	2	13	4	5	2	4	2	6	6	6	6	10	2	1	128	other construction works
0113	machine products			10		9		3	5	8	7	4	6	8	4	2	2	4	3	6	3	6	2	2	1	95	machine products
0101	food products			7		9		6	5	4	8	3	5	2	3	4	4	4	2	3	1	4	1	1	1	77	food products
0801	wholesale			2		1			3	6	4	2	5	2	5	7	4	1	1	4	1		1	3	1	53	wholesale
0109	sand and stone products			4		3		7	1	1		1	2	1	1		4	1	1		1	2		4	1	35	sand and stone products
0111	nonferrous metal making					1			5	1	3		3	3		1	5			2	3			1	1	29	nonferrous metal making
1401	hotel			1				2	1		1	2	1	1	4	2	4	1	4	3	1				1	29	hotel
1302	social welfare facility					1		1	2	1	3			1	2	2		1		1	3	2	1	2	1	24	social welfare facility
0107	printing/bookbinding			2		1		2	3	1			2	1		1		2		1					1	17	printing/bookbinding
0602	forestry					2				1	2	1	2		1		1	1	1	1			1	1	1	16	forestry
1201	education/research service			3		1		1	2		1	1		3			1							2	1	16	education/research service
0601	agriculture			1				2			2				2					2		1	1	1	1	13	agriculture
0106	pulp/paper processing products			2		1			1		1		1			3	1								1	11	pulp/paper processing products
0104	wood products					2		2	1	2								1		1					1	10	wood products
0402	road passenger transport service			2					2	1		1	1		1			1							1	10	road passenger transport service
1001	movie/play service														1					1	52					54	movie/play service
0105	furniture			2				1	1	2		1		1	2	1	1					1				13	furniture
0901	financial business			9					1	1																11	financial business
1301	medical treatment service									1		1	1					1		1	1			4		10	medical treatment

080409	other commerce			1				4		2	3	1	2	2	1	2	4	1	2	1		1	1		2	30	other commerce	
011403	electronics equipment and telecommunications apparatus			3				3		4	2		2		1			1	1	1			3	1	2	24	electronics equipment and telecommunications apparatus	
011509	other transport equipment products			2		1		2	2				1	2		1				1		1		3	2	18	other transport equipment products	
030209	other building construction work			7		7		8	9	13	3	3	2		8	4	7	3	2	3	4	3	5	5	1	97	other building construction work	
011501	ship building			2		10		5	2	4	1	4	3	4		3	10	4	3	3	1	1	1	2	1	64	ship building	
011502	auto mobile products			2		3		7	6	2	3	4	1	2	2	3	2	4	2	1	4	3	1	4	1	57	auto mobile products	
010801	non organic or organic chemical products			5		5		2	2	4	2	3	3	3	2	1		3	1	1	3	5	2	2	1	50	non organic or organic chemical products	
080109	other wholesale			1		1			2	5	4	2	5	2	5	7	4	1	1	3	1		1	3	1	49	other wholesale	
080201	all kinds of retail			5		4		4	2	3	5	2	2		2		3	4	2	2	2	2		1	1	46	all kinds of retail	
080202	auto mobile retail			4		7		1	2	4	4		2	2		6	3		1	2	2	2		2	1	45	auto mobile retail	
011709	other manufacturing			6		2		2	3		3		3	1	1	5	1	4	2	1	2		3		1	40	other manufacturing	
140209	other restaurants			1		4		1	1	4		4	1	1	2	2	6		1		2			1	1	32	other restaurants	
030302	machinery/apparatus setting work							1	1	3	2		8					1	2	1	2	2	7		1	31	machinery/apparatus setting work	
140101	hotel			1				2	1		1	2	1	1	4	2	4	1	4	3	1				1	29	hotel	
140309	other amusement service			1		2				3	2	3	1	2	2		1	1		2		2		2	1	25	other amusement service	
011702	machine repair			2		2			2	2	3		4		2				2		1	2	1		1	24	machine repair	
130201	social welfare facility					1		1	2	1	3			1	2	2		1		1	3	2	1	2	1	24	social welfare facility	
030106	road construction work			4		1		3	4	1		1		2		1			1		1	2	1		1	23	road construction work	
120109	other education/research service			3		1		1	2		1	1		3		1								2	1	16	other education/research service	
011409	other electrical equipment			2		1		1		1	1	1	1	1		1	1	1	1					1	1	15	other electrical equipment	
010701	printing service			2		1		1	3	1			2			1		1		1					1	14	printing service	
011303	optical instruments			1		1		1		2		1		1	1			2			1		1	1	1	13	optical instruments	
060101	agriculture			1				2			2			2					2		1	1	1	1	1	13	agriculture	
060201	lumbering					1			1	2	1	1		1			1	1	1					1	1	12	lumbering	
150103	other waste disposal service			2				2	1	1	1						2			1		1		1	1	12	other waste disposal service	
010901	cement products			1		1		1	1	1				1						1	2				1	10	cement products	
011009	other steel products			1				1	1			2		1		1	1							1		1	10	other steel products
011102	nonferrous metals casting products							2		1		1				1			1	1					1	8	nonferrous metals casting products	
040202	bus service			1					2	1			1		1			1							1	8	bus service	
011703	cleaning							1				1					1		1	1					1	6	cleaning	
140302	park and amusement park			1										1	1			1					1		1	6	park and amusement park	
010101	meat/dairy products					1								1											1	4	meat/dairy products	
030105	bridge construction work									1									1		1				1	4	bridge construction work	
010609	other pulp/paper processing products							1		1															1	3	other pulp/paper processing products	
010402	plywood							1																	1	2	plywood	

030309	other construction works			4		10		2	13	13	7	2	5	4	5	2	2	1	4	5	4	3	2	2		90	other construction works	
011301	machine products			6		8		1	4	4	7	3	5	7	2	1	1	2	3	6	3	4	2	1		70	machine products	
030201	steel frame/reinforced concrete house construction work			8		7			4	6	4	2	4			2	1	3	4	4		1	1	1		52	steel frame/reinforced concrete house construction work	
100101	movie production and delivery service																								52		52	movie production and delivery service
010899	other chemical products			5		1		1	3	10	1	3	4	4	4	2	2			3	1	2	1	1		48	other chemical products	
030199	other civil engineering work			7		4		3	3	3	3	3	1	2	3		2	1	2	3	1	3	1	3		48	other civil engineering work	
010109	other foods			3		5		4	2	4	6	3	3		1	2	1	2	2	2		2	1	1		44	other foods	
030203	building facility construction work			3		3		3	5	3	2	2	2		2	2		1	1	1	1	2				33	building facility construction work	
010803	pharmaceuticals							2	8		1	3	2	1	1		3		3		1		4			29	pharmaceuticals	
010804	petroleum/coal products							1	1			8	5		1	4		1	1	2			1	1		26	petroleum/coal products	
030202	wooden house construction work			2		2		2			1	2	2	1	1				1	1	2	2	1			20	wooden house construction work	
010104	bread/cake products			4		1		1			2		1	1		1	2	1		1		1				16	bread/cake products	
010909	other sand and stone products			2		2		5				1					2		1					3		16	other sand and stone products	
011001	steel/iron/rolling products			1		1		1	1	1	1	3	1				1	1	2					2		16	steel/iron/rolling products	
011109	other nonferrous metal products					1			3		1			1		1	3				2			1		13	other nonferrous metal products	
011203	metal press products					2			1	1	1					2		2	1					2		12	metal press products	
030110	water supply/sewage construction work			3		1		1		1	1				1			2					1			11	water supply/sewage construction work	
090109	other financial business			9						1																10	other financial business	
140301	golf course			1				1	2		2		1						2				1			10	golf course	
010806	rubber products			1		1				5				1		1										9	rubber products	
011204	metal plating products			1		2					2		2	1	1											9	metal plating products	
011305	other precision machine products			3				1	1	1			1		1							1				9	other precision machine products	
150109	other cleaning and livestock process service									2	2			1			2							2		9	other cleaning and livestock process service	
011101	nonferrous metals/rolling products									1	1		2	2			1			1						8	nonferrous metals/rolling products	
070101	livestock			1				1						1	2				1	1	1					8	livestock	
150101	building maintenance service			3							1								1		1	1		1		8	building maintenance service	
010102	fishery products					2			2							1	1				1					7	fishery products	
010509	other furniture			1				1		1		1			2	1										7	other furniture	
030301	electricity/telecommunication work			1				1		1							2					1	1			7	electricity/telecommunication work	
040302	specific truck transportation service					2		2							1	1				1						7	specific truck transportation service	
010602	paper processing products			1									1			3	1									6	paper processing products	
010807	leather products								1	1		1			1						1					6	leather products	

010902	glass products			1				1				1	1			1				1		6	glass products						
011401	heavy electrical equipment								1		1				1		2			1			6	heavy electrical equipment					
050101	land cargo handling service			1		1								1	1	1	1						6	land cargo handling service					
170201	security service																					3		6	security service				
010409	other lumber and wood products					1		1									1							5	other lumber and wood products				
010808	painting products																						2		5	painting products			
030109	land consolidation civil engineering work			1		1		1	1							1									5	land consolidation civil engineering work			
010209	other textile products					1		1						1	1											4	other textile products		
011402	electrical appliance					1			1							1										4	electrical appliance		
060209	other forestry					1							1											1		4	other forestry		
080101	all kinds of wholesale			1					1	1														1		4	all kinds of wholesale		
130102	general clinic									1		1												2		4	general clinic		
010103	agricultural food products													1									1			3	agricultural food products		
010204	dyeing												1	1												3	dyeing		
010309	other fiber products							2									1									3	other fiber products		
010401	lumbering					1				1															1		3	lumbering	
010503	fittings													1			1							1			3	fittings	
011201	western tableware/cutting tool products														1									1	1		3	western tableware/cutting tool products	
030107	river civil engineering work			1																				1			3	river civil engineering work	
040309	other land cargo transportation service					1																		1	1		3	other land cargo transportation service	
070209	other fishery													2													3	other fishery	
080401	warehousing																										3	warehousing	
130101	hospital																										3	hospital	
130109	other medical treatment service																									1	1	3	other medical treatment service
170101	dispatch service			1																					1			3	dispatch service
010106	soft drinks																											2	soft drinks
010502	metal furniture					1																						2	metal furniture
010601	pulp/paper					1																						2	pulp/paper
010709	other printing and bookbinding																											2	other printing and bookbinding
010903	pottery products																											2	pottery products
011302	measuring instruments																											2	measuring instruments
020202	gravel digging					1																						2	gravel digging
030108	sand collapse prevention civil engineering work																											2	sand collapse prevention civil engineering work
040101	railroad service																											2	railroad service
040201	taxi service					1																						2	taxi service
050202	port cargo handling service																											2	port cargo handling service
100109	other movie/play service																											2	other movie/play service

