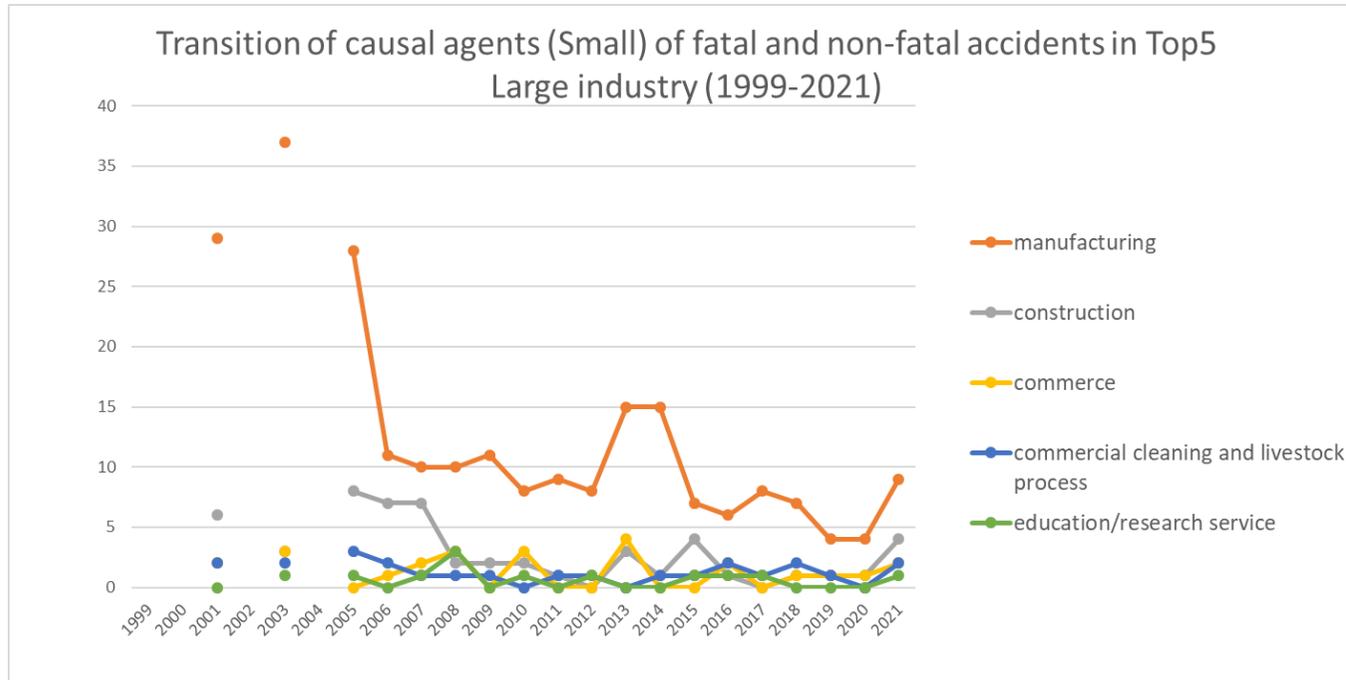
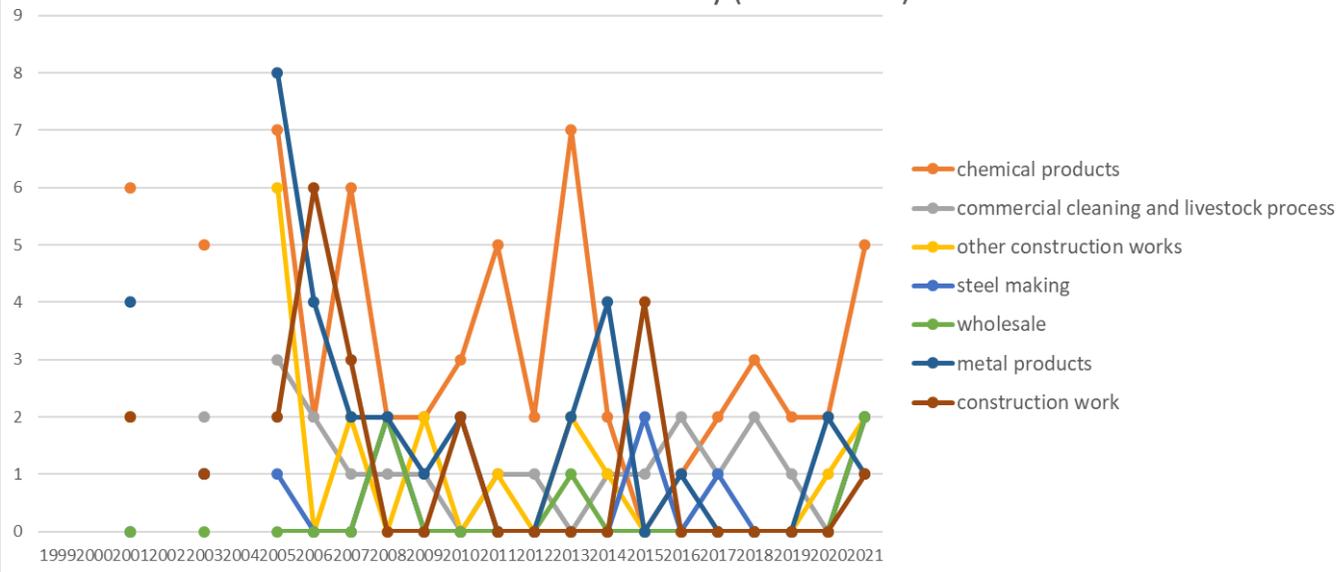


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 511 explosive substance (1999-2021)



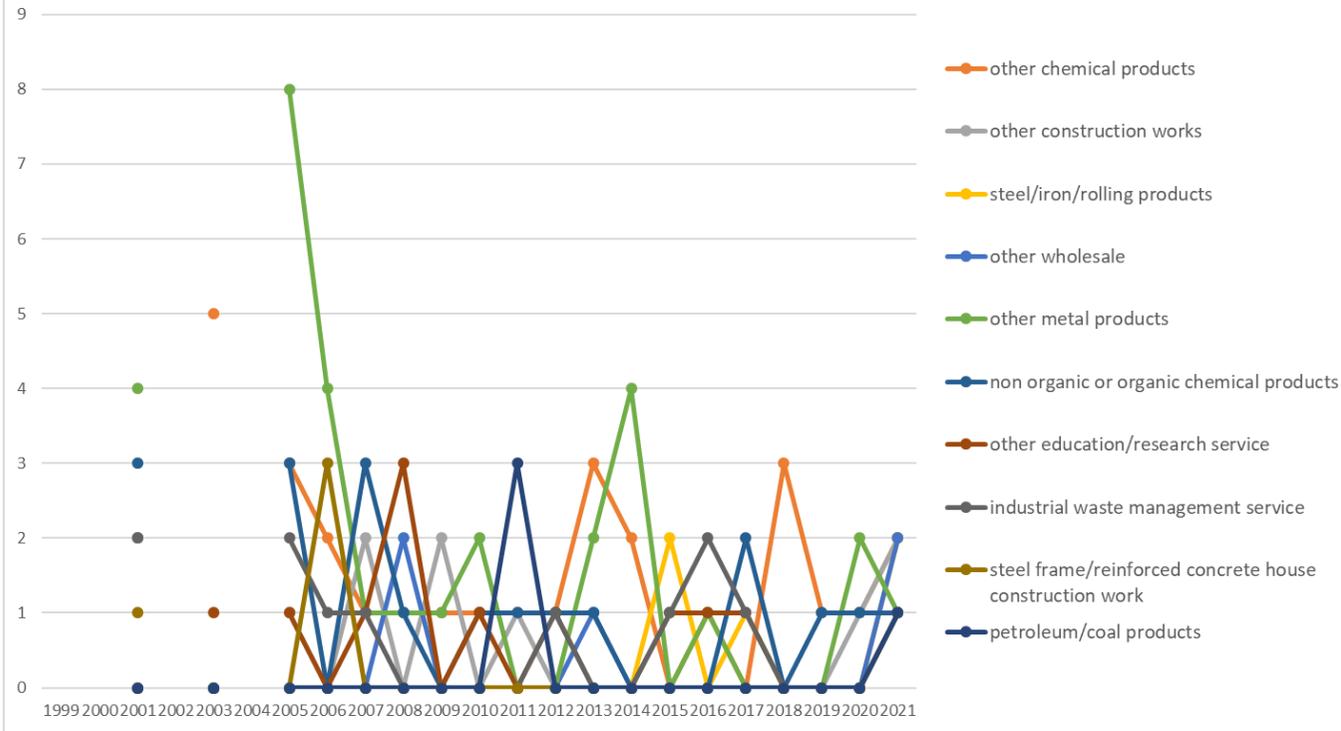
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 511 explosive substance in Large industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents in Top7 Middle industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 511 explosive substance in Middle Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents in Top10 Small industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 511 explosive substance in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 511 explosive substance in Large industry (1999-2021)

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	total	Large industry
01	manufacturing			29		37		28	11	10	10	11	8	9	8	15	15	7	6	8	7	4	4	9	236	manufacturing
03	construction			6		3		8	7	7	2	2	2	1		3	1	4	1		1	1	1	4	54	construction
08	commerce			2		3			1	2	3		3			4			2		1	1	1	2	25	commerce
15	commercial cleaning and livestock process			2		2		3	2	1	1	1		1	1		1	1	2	1	2	1		2	24	commercial cleaning and livestock process
12	education/research service					1		1		1	3		1		1			1	1	1				1	12	education/research service
14	hotel/restaurant/amusement service			3					2	3		3	2		2	1	1		1	1	1	3	1		24	hotel/restaurant/amusement service

04	transportation service		1	1	1	4	1	2	1	2	1	1	2	2				2	1		22	transportation service	
17	others		3		1	1				1	1	2	1	2							12	others	
13	health and hygiene service							1		1	2	4		1					2		11	health and hygiene service	
02	mining			1	2					1	1					2	1				8	mining	
05	cargo handling service		1			2												1			4	cargo handling service	
10	movie/play service								1	2				1							4	movie/play service	
07	livestock/fishery															1			1		2	livestock/fishery	
09	financial business/advertisement							1		1											2	financial business/advertisement	
11	telecommunication service																		2		2	telecommunication service	
06	agriculture																					agriculture	
16	public office																					public office	
	total		47	48	44	29	27	22	19	21	15	17	31	18	17	16	14	14	14	11	18	442	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 511 explosive substance in Middle industry (1999-2021)

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	total	Middle industry
0108	chemical products			6		5		7	2	6	2	2	3	5	2	7	2		1	2	3	2	2	5	64	chemical products
1501	commercial cleaning and livestock process			2		2		3	2	1	1	1		1	1		1	1	2	1	2	1		2	24	commercial cleaning and livestock process
0303	other construction works			2		1		6		2		2		1		2	1						1	2	20	other construction works
0110	steel making					1		1			2						2			1				2	9	steel making
0801	wholesale									2						1								2	5	wholesale
0112	metal products			4		1		8	4	2	2	1	2			2	4		1				2	1	34	metal products
0302	construction work			2		1		2	6	3		2						4						1	21	construction work
0301	civil engineering work			2		1			1	2	2					1			1		1	1		1	13	civil engineering work

1201	education/research service					1	1	1	3	1	1			1	1	1				1	12	education/research service			
0113	machine products					2	1							1	1					1	6	machine products			
0117	other manufacturing			6		17	6	2	2	2	1	2		1	3	2	3	1	2		2	52	other manufacturing		
0101	food products			4		3	3	2				1	1		1	2	1	1	2	1		22	food products		
0403	road cargo transportation service			1		1		1	4	1	2		2	1	1	2		2		2	1	21	road cargo transportation service		
0111	nonferrous metal making			5									1	1	1	1				2		17	nonferrous metal making		
0802	retail			1		3			1	1	1		3			2			1		1	1	1	16	retail
1402	restaurant								2		2	2		2	1				1	1	1	3	1	16	restaurant
0114	electrical equipment products			1		6							1		2		2		2		1		15	electrical equipment products	
1702	others			3				1		1				1	1	2			1	2				12	others
0115	transport equipment products					2		1	1					2			1				1		8	transport equipment products	
0202	quarrying					1		2						1	1					2	1		8	quarrying	
1301	medical treatment service														2	4							7	medical treatment service	
1403	other amusement service			2					2	1													5	other amusement service	
1001	movie/play service										1	2							1				4	movie/play service	
1302	social welfare facility													1					1			2	4	social welfare facility	
0104	wood products			1										1		1							3	wood products	
0109	sand and stone products										1	1			1								3	sand and stone products	
0804	other commerce			1					1						1								3	other commerce	

1401	hotel			1						1					1						3	hotel	
0501	land cargo handling service								1										1			2	land cargo handling service
0502	harbor transportation service			1					1													2	harbor transportation service
0702	fishery																		1		1	2	fishery
1101	telecommunication service																				2	2	telecommunication service
0102	textile products								1													1	textile products
0106	pulp/paper processing products			1																		1	pulp/paper processing products
0116	electric/gas/water service			1																		1	electric/gas/water service
0401	railroad/water transportation/airline service																					1	railroad/water transportation/airline service
0803	haircut/beauty salon																					1	haircut/beauty salon
0901	financial business																					1	financial business
0902	advertisement and mediator																					1	advertisement and mediator
0103	fiber products																						fiber products
0105	furniture																						furniture
0107	printing/bookbinding																						printing/bookbinding
0201	coal mining																						coal mining
0203	other mining																						other mining
0402	road passenger transport service																						road passenger transport service

	work																						work		
010804	petroleum/coal products											3										1	4	petroleum/coal products	
010805	plastics products			1					1						1							1	4	plastics products	
011301	machine products						1							1		1						1	4	machine products	
030102	tunnel construction work					1					2											1	4	tunnel construction work	
150103	other waste disposal service											1								1		1	3	other waste disposal service	
011709	other manufacturing			4		13		4	2	2	2	1	1		1	3	2	2	1	2		1	41	other manufacturing	
040301	general truck transportation service			1		1		1	4	1	2		2	1		2		2				2	1	20	general truck transportation service
140201	general restaurant									2		2	2		2	1			1	1	1	3	1	16	general restaurant
030209	other building construction work			1				1	1	3							4						12	other building construction work	
170209	others			3				1		1				1	1	2		1	2				12	others	
080209	other retails					2			1		1			2			1			1	1	1	11	other retails	
010109	other foods			1		1		1	1					1		1	1		2	1			10	other foods	
011101	nonferrous metals/rolling products												4		1	1	1	1				1	9	nonferrous metals/rolling products	
011403	electronics equipment and telecommunications apparatus			1		6													1				8	electronics equipment and telecommunications apparatus	
011502	auto mobile products					2		1	1					2			1			1			8	auto mobile products	
020201	quarrying					1		2						1	1				2	1			8	quarrying	
030302	machinery/apparatus setting work					1		5									1						7	machinery/apparatus setting work	
011102	nonferrous metals casting products			5																1			6	nonferrous metals casting products	
011409	other electrical equipment											1			2		1		1		1		6	other electrical equipment	

150101	building maintenance service					2					1			1					1							6	building maintenance service		
010101	meat/dairy products			1						1					1	1		1									5	meat/dairy products	
011701	auto mobile servicing					3		1																	1		5	auto mobile servicing	
030199	other civil engineering work			1				1	1															1	1		5	other civil engineering work	
130101	hospital													2	3												5	hospital	
011002	casting products					1		1			2																4	casting products	
011703	cleaning					1		1						1											1		4	cleaning	
130201	social welfare facility													1											1		2	4	social welfare facility
010102	fishery products					2							1														3	fishery products	
010104	bread/cake products			2				1																			3	bread/cake products	
010809	chemical fertilizer products									1																2	3	chemical fertilizer products	
030202	wooden house construction work							1	2																		3	wooden house construction work	
080202	auto mobile retail			1						1			1														3	auto mobile retail	
100109	other movie/play service											1	2														3	other movie/play service	
140101	hotel			1																						1	3	hotel	
140309	other amusement service			1						2																	3	other amusement service	
150109	other cleaning and livestock process service									1	1															1	3	other cleaning and livestock process service	
010409	other lumber and wood products			1																						1	2	other lumber and wood products	
010803	pharmaceuticals							1						1													2	pharmaceuticals	
010909	other sand and stone products													1												1	2	other sand and stone products	
011109	other nonferrous metal products													1	1												2	other nonferrous metal products	
	other precision machine																											other precision machine	

011305	products				2																2	products	
011702	machine repair			2																		2	machine repair
030109	land consolidation civil engineering work								1													2	land consolidation civil engineering work
030301	electricity/telecommunication work																					2	electricity/telecommunication work
050101	land cargo handling service								1													2	land cargo handling service
050202	port cargo handling service			1					1													2	port cargo handling service
080409	other commerce			1					1													2	other commerce
110101	telecommunication service																				2	2	telecommunication service
140301	golf course			1					1													2	golf course
010103	agricultural food products								1													1	agricultural food products
010204	dyeing								1													1	dyeing
010401	lumbering																					1	lumbering
010601	pulp/paper			1																		1	pulp/paper
010808	painting products																					1	painting products
010903	pottery products																					1	pottery products
011202	screw products																					1	screw products
011203	metal press products																					1	metal press products
011204	metal plating products																					1	metal plating products
011402	electrical appliance																					1	electrical appliance
011602	city gas service			1																		1	city gas service
030105	bridge construction work																					1	bridge construction work
030106	road construction work			1																		1	road construction work
030203	building facility construction work																					1	building facility construction work

