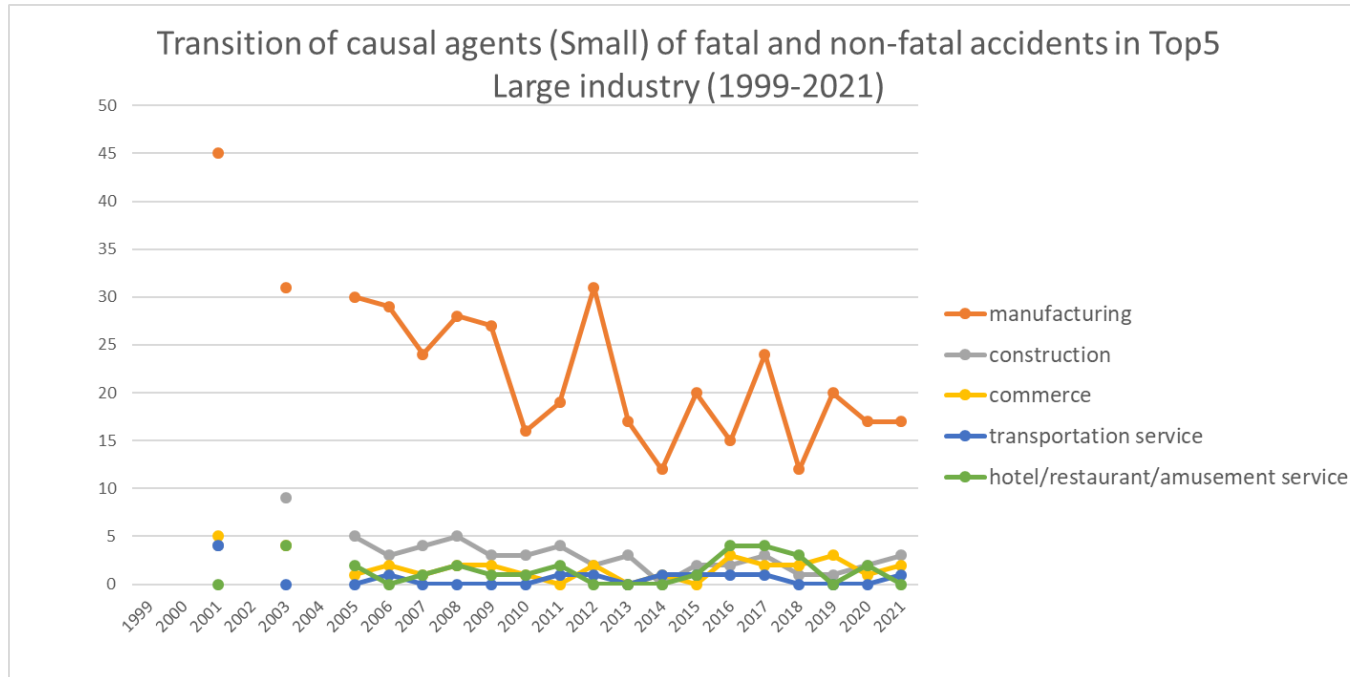
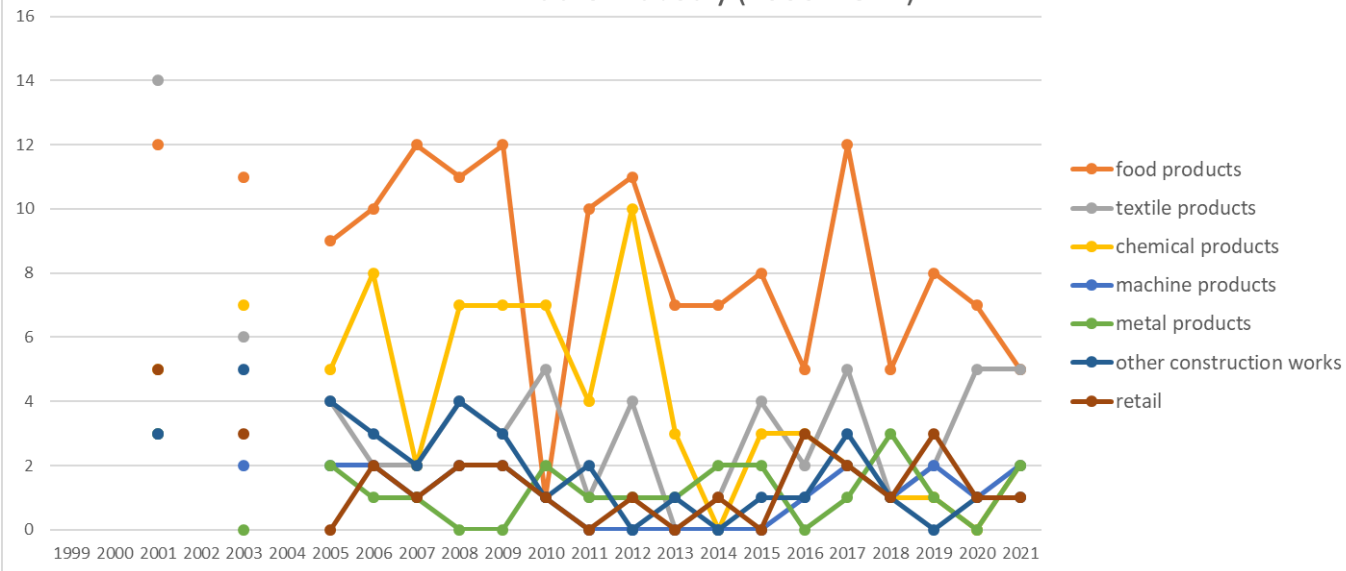


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 312 pressure vessel (1999-2021)



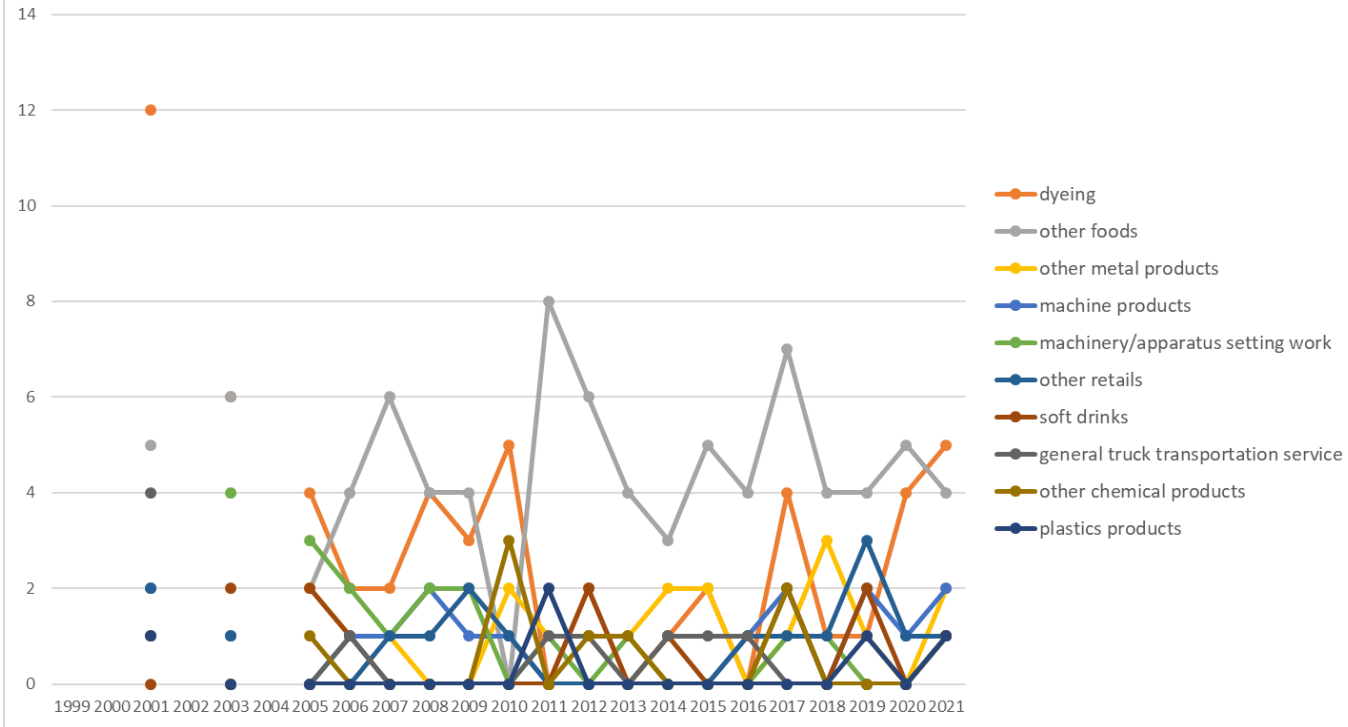
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 312 pressure vessel in Large industry (1999-2021)

### 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. 312 pressure vessel 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. 312 pressure vessel in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 312 pressure vessel 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			45		31		30	29	24	28	27	16	19	31	17	12	20	15	24	12	20	17	17	434	manufacturing
03	construction			4		9		5	3	4	5	3	3	4	2	3		2	2	3	1	1	2	3	59	construction
08	commerce			5		4		1	2	1	2	2	1		2		1		3	2	2	3	1	2	34	commerce
04	transportation service			4					1					1	1		1	1	1	1				1	12	transportation service
14	hotel/restaurant/amusement service					4		2		1	2	1	1	2				1	4	4	3		2		27	hotel/restaurant/amusement service
13	health and hygiene service			2		1		1	1	1	2		1	1	1	1	3	1	2		1	2			21	health and hygiene service
	commercial cleaning and																									commercial cleaning and

15	livestock process					2		2	1	3		1	2	2	1	3		1	1			1	1		21	livestock process
17	others			4		1			1						1	2		1	2	3	2				17	others
12	education/research service									1		2			2							1			6	education/research service
02	mining							1									1				1				3	mining
07	livestock/fishery								1							1			1						3	livestock/fishery
05	cargo handling service			1																	1				2	cargo handling service
06	agriculture															1	1								2	agriculture
09	financial business/advertisement																									financial business/advertisement
10	movie/play service																									movie/play service
11	telecommunication service																									telecommunication service
16	public office																									public office
	total			65		52		42	39	35	39	36	24	29	41	26	18	29	31	38	22	29	23	23	641	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 312 pressure vessel 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
0101	food products			12		11		9	10	12	11	12	1	10	11	7	7	8	5	12	5	8	7	5	163	food products
0102	textile products			14		6		4	2	2	4	3	5	1	4		1	4	2	5	1	2	5	5	70	textile products
0108	chemical products			5		7		5	8	2	7	7	7	4	10	3		3	3	2	1	1		2	77	chemical products
0113	machine products			3		2		2	2	1	2	2	1						1	2	1	2	1	2	24	machine products
0112	metal products			3				2	1	1			2	1	1	1	2	2		1	3	1		2	23	metal products
0303	other construction works			3		5		4	3	2	4	3	1	2		1		1	1	3	1		1	1	36	other construction works
0802	retail			5		3			2	1	2	2	1		1		1		3	2	1	3	1	1	29	retail
0302	construction work			1		2		1			1		1	2	2	2		1				1		1	15	construction work

0403	road cargo transportation service			4					1				1	1		1	1	1	1			1	12	road cargo transportation service		
0301	civil engineering work				2				2				1					1				1	1	8	civil engineering work	
0104	wood products												1										1	3	wood products	
0804	other commerce							1															1	2	other commerce	
0117	other manufacturing			1				3	2	2	2	1		1	1	3	1		2	2		2	3		26	other manufacturing
1501	commercial cleaning and livestock process					2		2	1	3		1	2	2	1	3		1	1			1	1		21	commercial cleaning and livestock process
1702	others			4		1			1					1	2		1	2	3	2					17	others
1301	medical treatment service			1				1	1	1	1		1	1	1	1	3		1		1	2			16	medical treatment service
1402	restaurant				2			1			1		1	2				1	2	3	2		1		16	restaurant
0109	sand and stone products			2		1		2	1	2		1						2					1		12	sand and stone products
0115	transport equipment products			1		1		1		2	1					1							3		10	transport equipment products
0106	pulp/paper processing products			2		2		1			1								1						7	pulp/paper processing products
1401	hotel					1		1		1		1							2		1				7	hotel
0114	electrical equipment products					1			2					1	2										6	electrical equipment products
1201	education/research service									1		2			2							1			6	education/research service
0103	fiber products			1					1			1										1			5	fiber products
0111	nonferrous metal making			1										2								1			4	nonferrous metal making
1302	social welfare facility			1		1					1														4	social welfare facility





030102	tunnel construction work					1							1									1	3	tunnel construction work	
030203	building facility construction work													2									1	3	building facility construction work
010401	lumbering												1										1	2	lumbering
080409	other commerce							1															1	2	other commerce
010801	non organic or organic chemical products			1		3		1	6	1	1	4	4		5	1		1	1					29	non organic or organic chemical products
010806	rubber products			2		3		1	2	1	6	1		1	2	1		2	2					24	rubber products
010101	meat/dairy products			3		1		1	1	2		2			1	2	1	2		1	1			18	meat/dairy products
140201	general restaurant					2		1			1		1	2			1	2	3	2		1		16	general restaurant
150101	building maintenance service					1		2	1	3		1	2	1	1	3					1			16	building maintenance service
170209	others			3		1			1						1	2		1	2	3	2			16	others
010102	fishery products			2		1		1	1		3	1	1	1	2			1		1				15	fishery products
010104	bread/cake products			1				1	2	1	3	2				2		1			1	1		15	bread/cake products
030309	other construction works			2		1		1		1	2	1	1	1			1	1	2			1		15	other construction works
010103	agricultural food products			1		1		1		3		3									1	1		11	agricultural food products
011709	other manufacturing			1				1	2	1	1	1			2							1		10	other manufacturing
130101	hospital			1				1	1	1	1			1	1	1	2							10	hospital
011701	auto mobile servicing							1		1	1				1	1				1		1	1	8	auto mobile servicing
030209	other building construction work					2		1			1		1	1	1						1			8	other building construction work
010901	cement products			1		1		2		1		1					1							7	cement products
080204	fuel retail			2							1				1		1	1						7	fuel retail
140101	hotel					1		1		1		1						2		1				7	hotel
010105	alcoholic drinks							1	1		1			1					1					6	alcoholic drinks
010209	other textile products			1										2			2	1						6	other textile products
010803	pharmaceuticals					1		1				1		1	1					1				6	pharmaceuticals



011305	other precision machine products			1		1		1	1			1							1				6	other precision machine products
120109	other education/research service								1		2		2							1			6	other education/research service
010601	pulp/paper			1		2		1		1													5	pulp/paper
011502	auto mobile products					1		1		2	1												5	auto mobile products
011703	cleaning												1		1		1	1		1			5	cleaning
150102	industrial waste management service					1							1			1	1				1		5	industrial waste management service
010203	weaving															1	1		1	1			4	weaving
130109	other medical treatment service											1							1	2			4	other medical treatment service
130201	social welfare facility			1		1				1						1							4	social welfare facility
010309	other fiber products							1					1							1			3	other fiber products
010909	other sand and stone products			1											1						1		3	other sand and stone products
011403	electronics equipment and telecommunications apparatus							1						2									3	electronics equipment and telecommunications apparatus
011501	ship building			1										1						1			3	ship building
011702	machine repair							1								1					1		3	machine repair
030199	other civil engineering work									2											1		3	other civil engineering work
030201	steel frame/reinforced concrete house construction work												1	1			1						3	steel frame/reinforced concrete house construction work
070101	livestock							1						1			1						3	livestock
080201	all kinds of retail					1		1								1							3	all kinds of retail

080202	auto mobile retail			1	1			1																	3	auto mobile retail		
140309	other amusement service					1													1							3	other amusement service	
010301	over/under wear			1																						2	over/under wear	
010602	paper processing products			1																							2	paper processing products
010809	chemical fertilizer products							1																			2	chemical fertilizer products
011001	steel/iron/rolling products																										2	steel/iron/rolling products
011101	nonferrous metals/rolling products			1																							2	nonferrous metals/rolling products
011401	heavy electrical equipment					1																					2	heavy electrical equipment
011509	other transport equipment products																										2	other transport equipment products
020201	quarrying							1																			2	quarrying
060201	lumbering																										2	lumbering
080109	other wholesale					1																					2	other wholesale
130102	general clinic																										2	general clinic
010201	silk-reeling			1																							1	silk-reeling
010202	cotton-spinning																										1	cotton-spinning
010409	other lumber and wood products																										1	other lumber and wood products
010502	metal furniture																										1	metal furniture
010802	chemical fiber																										1	chemical fiber
010902	glass products																										1	glass products
010905	other ceramic products																										1	other ceramic products
011102	nonferrous metals casting products																										1	nonferrous metals casting products
011109	other nonferrous metal products																										1	other nonferrous metal products





020301	metal mining																						metal mining
020302	petroleum mining																						petroleum mining
020309	other mining																						other mining
030101	hydroelectric plant construction work																						hydroelectric plant construction work
030103	subway construction work																						subway construction work
030104	railway construction work																						railway construction work
030105	bridge construction work																						bridge construction work
030107	river civil engineering work																						river civil engineering work
030108	sand collapse prevention civil engineering work																						sand collapse prevention civil engineering work
030109	land consolidation civil engineering work																						land consolidation civil engineering work
030110	water supply/sewage construction work																						water supply/sewage construction work
040101	railroad service																						railroad service
040102	water transportation service																						water transportation service
040103	airline service																						airline service
040201	taxi service																						taxi service
040202	bus service																						bus service
040209	other passenger transport service																						other passenger transport service
040302	specific truck transportation service																						specific truck transportation service
040309	other land cargo transportation service																						other land cargo transportation service
040409	other transportation service																						other transportation service



