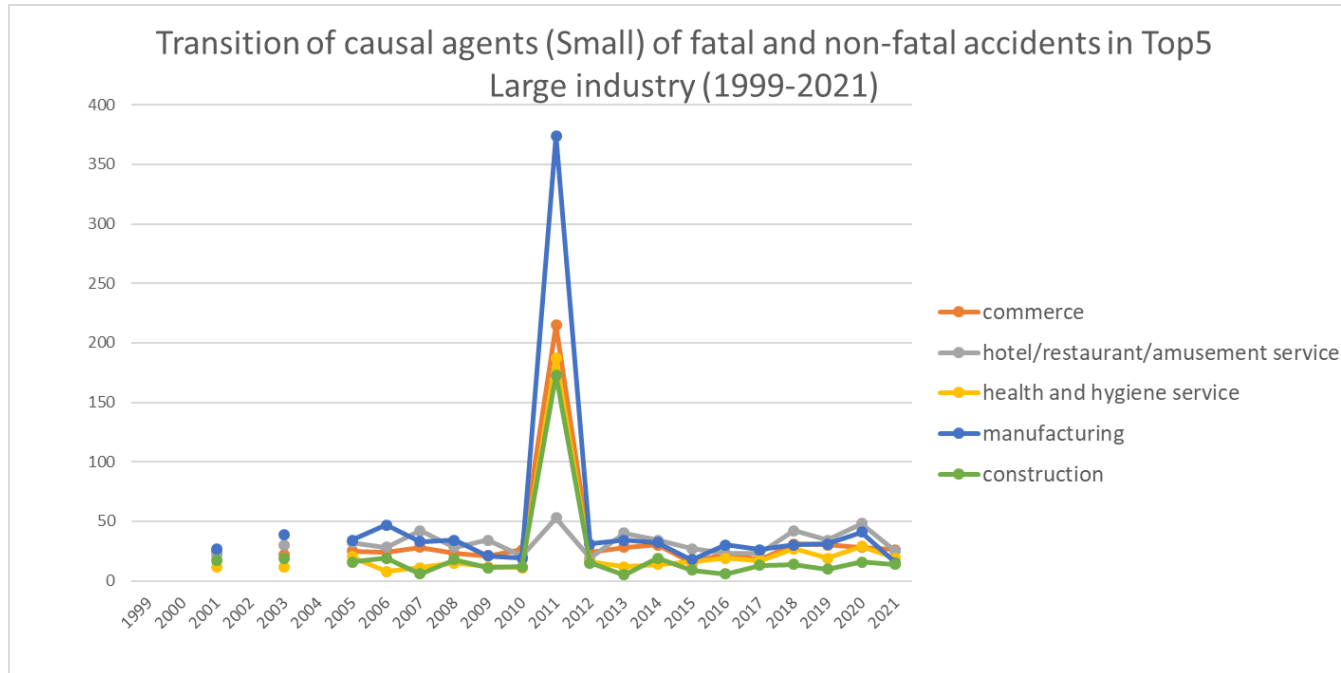
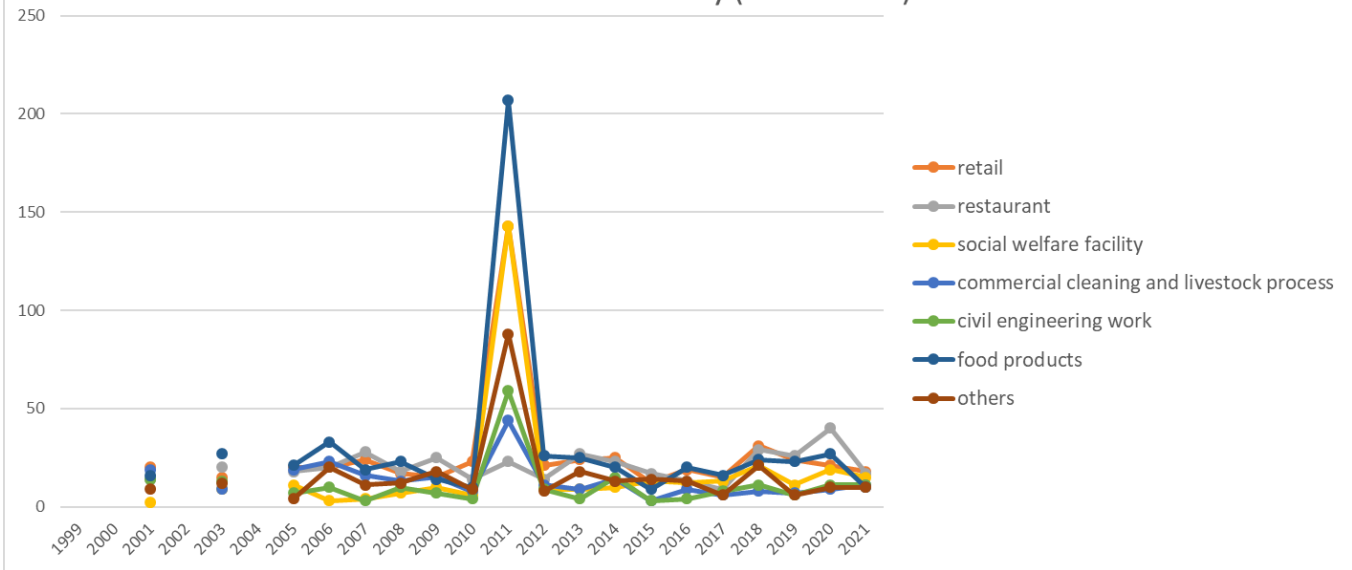


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 713 water (1999-2021)



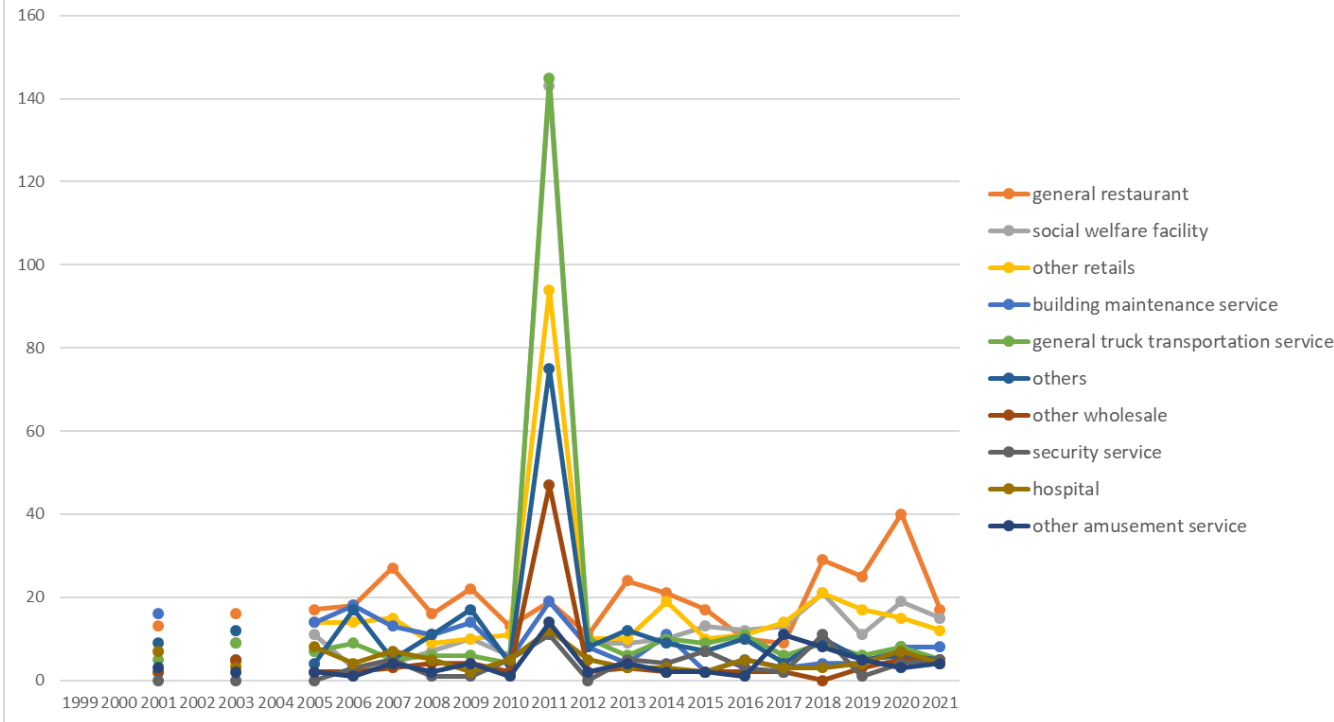
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 713 water in Large industry (1999-2021)

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. 713 water 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. 713 water in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 713 water 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
08	commerce			24		22		25	24	28	23	21	26	215	24	28	30	15	23	18	31	30	28	26	661	commerce
14	hotel/restaurant/amusement service			22		30		32	28	42	28	34	21	53	19	40	34	27	23	23	42	34	48	25	605	hotel/restaurant/amusement service
13	health and hygiene service			12		12		20	8	11	15	12	11	187	16	12	14	16	19	17	27	19	29	19	476	health and hygiene service
01	manufacturing			27		39		34	47	33	34	21	19	374	31	34	32	18	30	26	30	31	41	15	916	manufacturing
03	construction			17		19		16	19	6	18	11	12	173	15	5	19	9	6	13	14	10	16	14	412	construction
15	commercial cleaning and livestock process			19		9		19	23	16	13	15	8	44	11	9	14	3	9	6	8	7	9	11	253	commercial cleaning and livestock process

17	others			9		13		4	20	12	12	18	9	91	9	20	13	15	13	6	22	7	11	10	314	others
04	transportation service			12		11		10	16	10	12	7	5	191	12	10	11	13	16	9	12	10	12	6	385	transportation service
09	financial business/advertisement			1		3		1	5	3	5	5	1	33	1	4	4	2		1	2			4	75	financial business/advertisement
07	livestock/fishery			8		10		12	3	3	17	11	6	17	8	11	10	10	2	5	5	7	5	3	153	livestock/fishery
06	agriculture			1		2		1	1	2		1		8	2	4	1	2	2	1	1	1	1	3	34	agriculture
11	telecommunication service					1		6	7		1	4	6	35	1	3	2		2	5	4	1	2	1	81	telecommunication service
12	education/research service			2		4		2	1	4	3	2		12	5	2	4			3	2	2	2	1	51	education/research service
05	cargo handling service					1		1						12	1	1			2	2	2	1	2	1	26	cargo handling service
02	mining								1					2		1			1		1			1	7	mining
16	public office					2					1	1	1	2							1				8	public office
10	movie/play service			1					1				1	1											4	movie/play service
	total			155		178		183	204	170	182	163	126	1,450	155	184	188	130	148	135	204	160	206	140	4,461	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 713 water 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
0802	retail			20		15		20	20	24	17	15	23	143	21	24	25	12	19	15	31	24	21	18	507	retail
1402	restaurant			14		20		18	20	28	18	25	14	23	14	27	23	17	13	9	29	26	40	17	395	restaurant
1302	social welfare facility			2		9		11	3	4	7	10	6	143	9	9	10	13	12	13	21	11	19	15	327	social welfare facility
1501	commercial cleaning and livestock process			19		9		19	23	16	13	15	8	44	11	9	14	3	9	6	8	7	9	11	253	commercial cleaning and livestock process
0301	civil engineering work			14		13		7	10	3	10	7	4	59	9	4	15	3	4	8	11	6	11	11	209	civil engineering work
0101	food products			16		27		21	33	19	23	14	10	207	26	25	20	9	20	16	24	23	27	10	570	food products
1702	others			9		12		4	20	11	12	18	9	88	8	18	13	14	13	6	21	6	10	10	302	others
0403	road cargo transportation service			8		10		8	10	6	7	7	4	157	11	7	10	10	11	6	9	8	8	6	303	road cargo transportation service

1403	other amusement service			5	8	5	4	8	5	7	6	17	4	9	3	5	3	13	9	6	4	5	126	other amusement service
0801	wholesale			2	5	2	2	3	4	4	2	49	2	3	2	2	2	2		3	5	5	99	wholesale
1301	medical treatment service			9	3	8	5	7	7	2	5	40	7	3	4	2	6	4	5	6	10	4	137	medical treatment service
0702	fishery			8	9	11	3	2	17	8	6	16	8	11	9	9	2	4	4	6	5	3	141	fishery
1401	hotel			3	2	9	4	6	5	2	1	13	1	4	8	5	7	1	4	2	4	3	84	hotel
0303	other construction works			3	1	3	1	2	3	2		38	5		2	4	1	2	1	2	4	3	77	other construction works
0901	financial business				1	1	5	3	4	5	1	29	1	3	2	2		1	1			3	62	financial business
0108	chemical products				3	5		3	2	2		7	1	1	5	2	2	2	2	2	3	3	45	chemical products
0804	other commerce			2	2	3	2	1	2	1	1	21	1	1	3	1	2	1		2	2	2	50	other commerce
0601	agriculture			1								2	2	4	1		2			1	1	2	16	agriculture
1101	telecommunication service				1	6	7		1	4	6	35	1	3	2		2	5	4	1	2	1	81	telecommunication service
1201	education/research service			2	4	2	1	4	3	2		12	5	2	4			3	2	2	2	1	51	education/research service
0113	machine products				1	2		2	1	1	1	6					1	1		1	1	1	19	machine products
0602	forestry				2	1	1	2		1		6				2		1	1			1	18	forestry
0110	steel making			1				1			1	9					1	1				1	15	steel making
0502	harbor transportation service					1						8					2	1		1		1	14	harbor transportation service
0902	advertisement and mediator			1	2				1			4		1	2				1			1	13	advertisement and mediator
0202	quarrying						1					2		1			1		1			1	7	quarrying
0803	haircut/beauty salon									1		2								1		1	5	haircut/beauty salon
0302	construction work				5	6	8	1	5	2	8	76	1	1	2	2	1	3	2	2	1		126	construction work

140101	hotel			3		2		9	4	6	5	2	1	13	1	4	8	5	7	1	4	2	4	3	84	hotel
080205	newspaper retail			1		1			5	4	4	2	6	6	5	3	2	1	4		3	3	5	3	58	newspaper retail
010104	bread/cake products			1		4		1	5		4		1	6	3	5	2	1	3	2	2	6	4	3	53	bread/cake products
030111	port/seaside construction work			1		4			3		2	2		7	4	2	1	3	1	2	3		3	3	41	port/seaside construction work
030106	road construction work			1		3		1	2				1	7			1			1		1	1	3	22	road construction work
070201	fishery			8		8		8	3		13	7	4	5	7	8	7	7	2	3	2	1	4	2	99	fishery
030199	other civil engineering work			4		1		5	2	2	2	2	1	23	2	2	6		1	2		2	2	2	61	other civil engineering work
030309	other construction works			3		1		1	1	2	2	2		22	4		2	2		1		1	2	2	48	other construction works
080409	other commerce			2		2		3	2		2	1	1	19		1	3	1	2			2	2	2	45	other commerce
150102	industrial waste management service			1		2			1	1			1	11	2	2	1		1	1	1	2		2	29	industrial waste management service
090101	banking/trust business							2	2				1	10		1		1		1				2	20	banking/trust business
060101	agriculture			1										2	2	4	1		2			1	1	2	16	agriculture
080202	auto mobile retail					1			1					5		1	1							2	11	auto mobile retail
030105	bridge construction work			2				1	1					2							2			2	10	bridge construction work
110101	telecommunication service					1		6	7		1	4	6	35	1	3	2		2	5	4	1	2	1	81	telecommunication service
080201	all kinds of retail			11		7		4		3	3	3	6	11	6	8	3	1	4		6	3		1	80	all kinds of retail
120109	other education/research service			2		4		2		4	3	2		9	5	2	4			3	2	2	2	1	47	other education/research service
140301	golf course			1		5		3	3	3	3	3	3	2	2	5	1	2	1	2	1	1	1	1	43	golf course
070209	other fishery					1		3		2	4	1	2	11	1	3	2	2		1	2	5	1	1	42	other fishery
090103	insurance business					1		1	2	1	4	5		19		2	2	1			1			1	40	insurance business
010101	meat/dairy products			1		2		1	3	4			1	8		2					2	1	1	1	27	meat/dairy products
150109	other cleaning and livestock process service			1		2		1	3	2	2			4	1	2	1		2	1	2	1	1	1	27	other cleaning and livestock process service
030107	river civil engineering work			1		2				1	1	1	1	3	1		3		2	2	1	1	1	1	22	river civil engineering work

040302	specific truck transportation service			2				1	1		1									9	1	1							2			1	20	specific truck transportation service	
010804	petroleum/coal products									1		1								6	1							1			1	11	petroleum/coal products		
030302	machinery/apparatus setting work																			3	1					2	1	1			2	1	11	machinery/apparatus setting work	
050202	port cargo handling service																			8							1	1				1	11	port cargo handling service	
010803	pharmaceuticals					1		2																	1			1	1			1	8	pharmaceuticals	
060209	other forestry					1		1																		1						1	6	other forestry	
090201	traveling service					1		2																			1	1					1	6	traveling service
080302	beauty salon																														1		1	5	beauty salon
010801	non organic or organic chemical products																															1	4	non organic or organic chemical products	
011009	other steel products																				2											1	4	other steel products	
020201	quarrying																				2											1	4	quarrying	
011305	other precision machine products																															1	1	other precision machine products	
030209	other building construction work																																50	other building construction work	
040201	taxi service					2																											45	taxi service	
080204	fuel retail					1		2																									37	fuel retail	
011701	auto mobile servicing																																36	auto mobile servicing	
030202	wooden house construction work																																33	wooden house construction work	
011209	other metal products																																31	other metal products	
140209	other restaurants					1		4																									31	other restaurants	
130109	other medical treatment service																																25	other medical treatment service	

150103	other waste disposal service			1			4	1			1	2	9		1	1	1	1	1	1	1	1	24	other waste disposal service	
030203	building facility construction work				1		1	3		1		2	13				1						23	building facility construction work	
011501	ship building			1		2			1				12	1	1				1	1		1	21	ship building	
011709	other manufacturing						1	2	1				10	1					1	1	1	3	21	other manufacturing	
030110	water supply/sewage construction work			4		1			1				8			1						1	21	water supply/sewage construction work	
040202	bus service					1		1		1	3		6			1	1	3			1	3	21	bus service	
030201	steel frame/reinforced concrete house construction work					1			2		1	1	2	7			2	1			1	2	20	steel frame/reinforced concrete house construction work	
130102	general clinic			2									13			1		1	1	1	1	1	20	general clinic	
011301	machine products					1		2		2	1	1	1	6					1	1		1	1	18	machine products
030109	land consolidation civil engineering work					2					1		5	1		3			1	3		2	18	land consolidation civil engineering work	
030301	electricity/telecommunication work												13								1	1	18	electricity/telecommunication work	
010103	agricultural food products					2			3	1	1		1	1	2	1					1	1	15	agricultural food products	
011502	auto mobile products			1		1			1				4		3	2			1	1			15	auto mobile products	
010402	plywood							1					13										14	plywood	
010899	other chemical products					2		2		1	2					1	1				1	2	12	other chemical products	
010909	other sand and stone products			2							2		4						2		1	1	12	other sand and stone products	
011403	electronics equipment and telecommunications apparatus					1		1	1				9										12	electronics equipment and telecommunications apparatus	
050101	land cargo handling service					1							4	1	1					1	2	2	12	land cargo handling service	
060201	lumbering					1			1	2			6						1	1			12	lumbering	

070101	livestock					1		1		1		3		1		1	1		1	1	1			12	livestock	
170101	dispatch service					1				1				3	1	2		1			1	1	1		12	dispatch service
011001	steel/iron/rolling products			1								1	6					1						9	steel/iron/rolling products	
011603	city water service							1				2	6											9	city water service	
040102	water transportation service			1								4		1					2	1				9	water transportation service	
010901	cement products			1		1		1	1				1		1		1			1				8	cement products	
140302	park and amusement park			1		1				1		2	1				1	1						8	park and amusement park	
160101	public office					2				1	1	1	2						1					8	public office	
010106	soft drinks					2				1							1		1		2			7	soft drinks	
090209	other advertisement and mediator									1			4				1				1			7	other advertisement and mediator	
130301	bathroom			1				1				1					1		1	1				7	bathroom	
010401	lumbering									1			3		1						1			6	lumbering	
010105	alcoholic drinks					1			1	1			1						1					5	alcoholic drinks	
010701	printing service							1					4											5	printing service	
011109	other nonferrous metal products			1								2	1						1					5	other nonferrous metal products	
011204	metal plating products			1					1				2				1							5	metal plating products	
011409	other electrical equipment							1	1				2		1									5	other electrical equipment	
011509	other transport equipment products												4								1			5	other transport equipment products	
011601	electric utility service							1					3		1									5	electric utility service	
030108	sand collapse prevention civil engineering work			1							1	1		1						1				5	sand collapse prevention civil engineering work	
040309	other land cargo transportation service					1				1		1	2											5	other land cargo transportation service	
080401	warehousing								1				2	1							1			5	warehousing	

130309	other health and hygiene service									3				1					1			5	other health and hygiene service		
010204	dyeing					1								1	1	1							4	dyeing	
010301	over/under wear		1					1			2												4	over/under wear	
010501	wood furniture										3										1		4	wood furniture	
010609	other pulp/paper processing products													2			1				1		4	other pulp/paper processing products	
010805	plastics products							1							2	1							4	plastics products	
010806	rubber products										1			1							1	1	4	rubber products	
011702	machine repair						1				1	2											4	machine repair	
030104	railway construction work							1				3											4	railway construction work	
080203	furniture/fittings retail											1		2							1		4	furniture/fittings retail	
120101	auto mobile practical training							1				3											4	auto mobile practical training	
170202	information processing service								1			2			1								4	information processing service	
010209	other textile products			1								2											3	other textile products	
010309	other fiber products					1				1		1											3	other fiber products	
010601	pulp/paper															1						2	3	pulp/paper	
010602	paper processing products			1								1				1							3	paper processing products	
010905	other ceramic products									1						1	1						3	other ceramic products	
020202	gravel digging						1										1				1		3	gravel digging	
030101	hydroelectric plant construction work											1										1	1	3	hydroelectric plant construction work
040101	railroad service													1	1								1	3	railroad service
010409	other lumber and wood products													2										2	other lumber and wood products
010809	chemical fertilizer products																							2	chemical fertilizer products

040103	airline service													1																								1	airline service			
040209	other passenger transport service																																					1	other passenger transport service			
050201	general harbor transportation service																																				1	general harbor transportation service				
150104	cremation service																																					1	cremation service			
010201	silk-reeling																																							0	silk-reeling	
010502	metal furniture																																							0	metal furniture	
010503	fittings																																							0	fittings	
010702	bookbinding																																							0	bookbinding	
010709	other printing and bookbinding																																							0	other printing and bookbinding	
010802	chemical fiber																																							0	chemical fiber	
010807	leather products																																								0	leather products
010808	painting products																																								0	painting products
010904	fire resisting products																																								0	fire resisting products
011101	nonferrous metals/rolling products																																								0	nonferrous metals/rolling products
011202	screw products																																								0	screw products
011302	measuring instruments																																								0	measuring instruments
011303	optical instruments																																								0	optical instruments
011304	watch products																																								0	watch products
011401	heavy electrical equipment																																								0	heavy electrical equipment
011503	railway vehicle products																																								0	railway vehicle products
011609	other electric/gas/water service																																								0	other electric/gas/water service
020101	general coal mining																																								0	general coal mining

