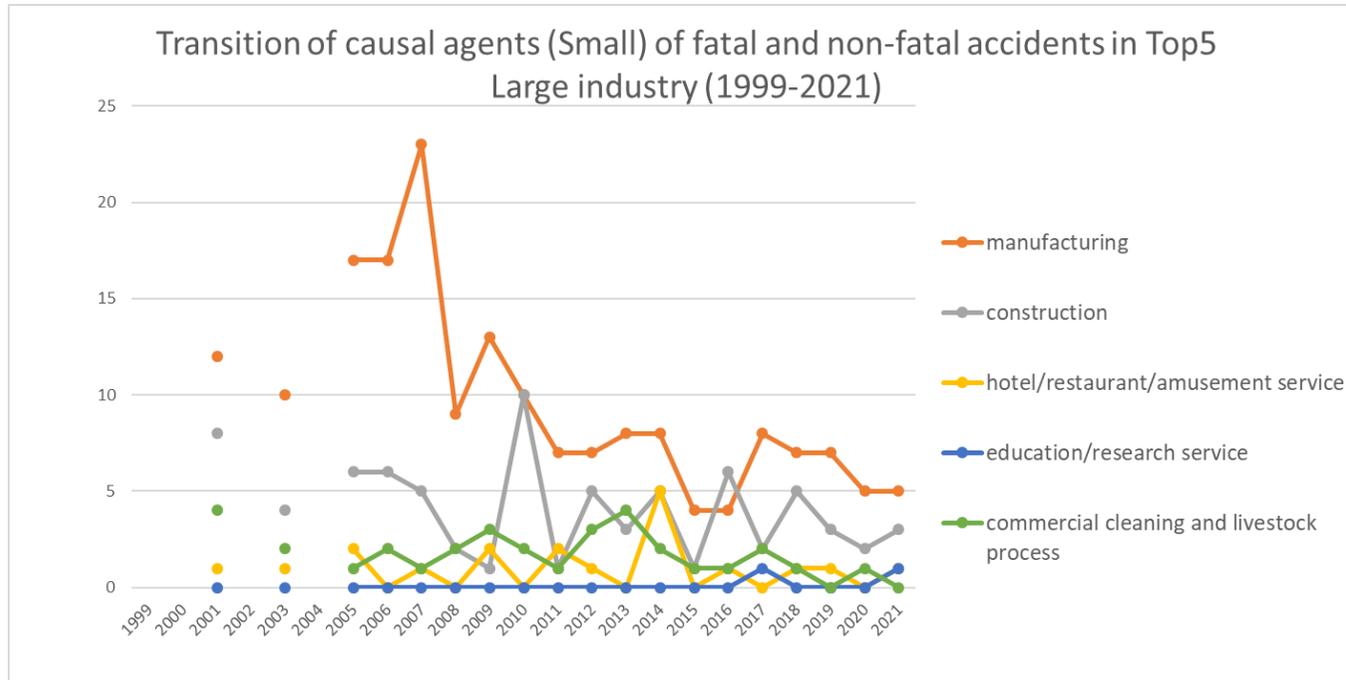
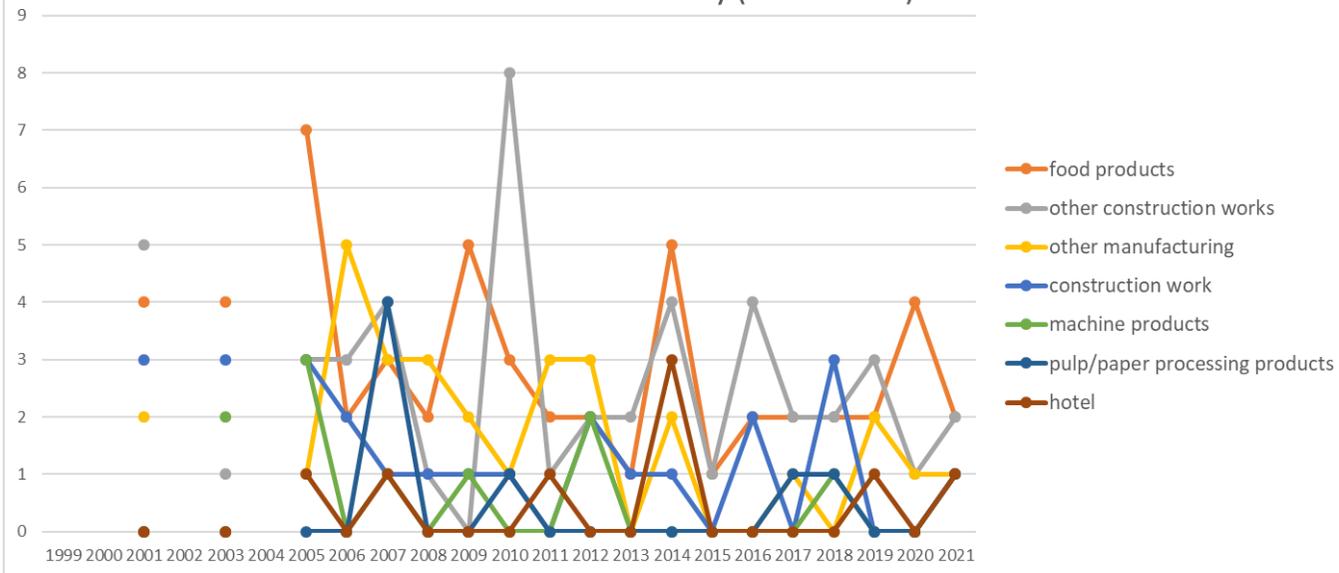


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler (1999-2021)



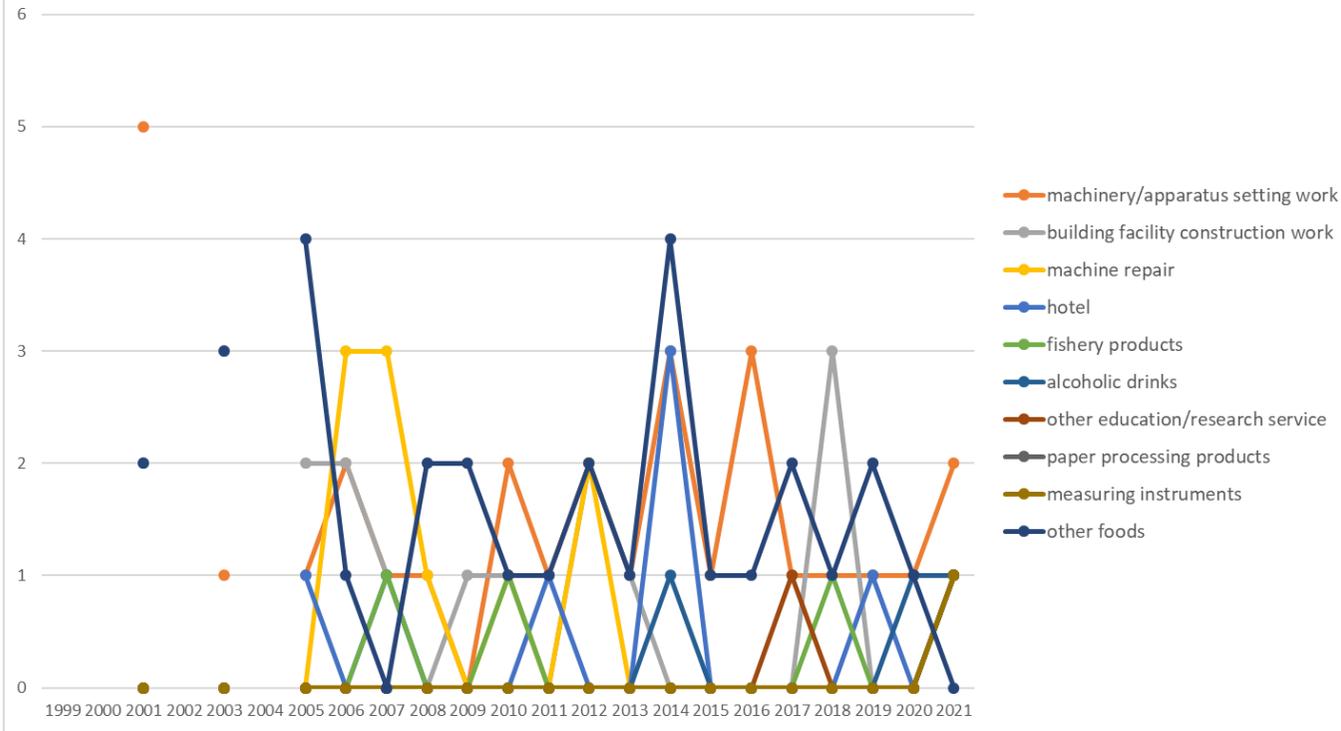
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler in Large industry (1999-2021)

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. 311 boiler 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. 311 boiler in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler 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			12		10		17	17	23	9	13	10	7	7	8	8	4	4	8	7	7	5	5	181	manufacturing
03	construction			8		4		6	6	5	2	1	10	1	5	3	5	1	6	2	5	3	2	3	78	construction
14	hotel/restaurant/amusement service			1		1		2		1		2		2	1		5		1		1	1		1	19	hotel/restaurant/amusement service
12	education/research service																			1				1	2	education/research service
15	commercial cleaning and livestock process			4		2		1	2	1	2	3	2	1	3	4	2	1	1	2	1		1		33	commercial cleaning and livestock process
08	commerce			1		1		1	1	4	4	2				1	1			1	1	2			20	commerce

17	others		2			4		1		1	3	1		1				2	1		16	others	
13	health and hygiene service			1			1	1		1		1	1	1		1		1		1		10	health and hygiene service
06	agriculture					1							1					1				3	agriculture
04	transportation service									1									1			2	transportation service
07	livestock/fishery												1									1	livestock/fishery
02	mining																						mining
05	cargo handling service																						cargo handling service
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		28	19	32	27	36	17	23	23	14	18	19	22	7	13	14	16	17	10	10	365	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler 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			4		4		7	2	3	2	5	3	2	2	1	5	1	2	2	2	2	4	2	55	food products	
0303	other construction works			5		1		3	3	4	1		8	1	2	2	4	1	4	2	2	3	1	2	49	other construction works	
0117	other manufacturing			2				1	5	3	3	2	1	3	3		2			1		2	1	1	30	other manufacturing	
0302	construction work			3		3		3	2	1	1	1	1		2	1	1		2		3			1	25	construction work	
0113	machine products					2		3		1		1			2						1			1	11	machine products	
0106	pulp/paper processing products									4			1							1	1			1	8	pulp/paper processing products	
1401	hotel							1		1				1			3					1		1	8	hotel	
																											education/research







150101	building maintenance service			4		2		1	1	1		2	2			2	1			1			1			18	building maintenance service
030309	other construction works							2	1	2			5			1	1		1	1	1	2				17	other construction works
170209	others			2				4		1			1	3	1			1				2	1			16	others
011703	cleaning			1				1	2		1	1		2	1		2			1		1	1			14	cleaning
080209	other retails					1			1	1	3	1				1				1						9	other retails
010401	lumbering									3		1	1			2				1						8	lumbering
010104	bread/cake products			1				2		1		2												1		7	bread/cake products
010601	pulp/paper									4			1							1	1					7	pulp/paper
011301	machine products					1		2				1			2						1					7	machine products
150109	other cleaning and livestock process service											1	1		1	1	1			1						7	other cleaning and livestock process service
010402	plywood			2					1				1					1	1							6	plywood
011209	other metal products			1						2	1	1				1										6	other metal products
010103	agricultural food products			1				1					1	1										1		5	agricultural food products
010301	over/under wear									3		1										1				5	over/under wear
010806	rubber products										1		1					2				1				5	rubber products
140201	general restaurant													1			2		1		1					5	general restaurant
150102	industrial waste management service														1	1	1			1	1					5	industrial waste management service
010409	other lumber and wood products			1							1										1	1				4	other lumber and wood products
011501	ship building							1	1							1					1					4	ship building
011601	electric utility service			1									1			1				1						4	electric utility service
011709	other manufacturing			1							1			1									1			4	other manufacturing
030209	other building construction work			1				1									1		1							4	other building construction work
130101	hospital					1				1					1					1						4	hospital

010101	meat/dairy products					1					1											3	meat/dairy products	
011001	steel/iron/rolling products							1					1										3	steel/iron/rolling products
011305	other precision machine products					1		1		1													3	other precision machine products
011609	other electric/gas/water service					1				2													3	other electric/gas/water service
030110	water supply/sewage construction work									1												1	3	water supply/sewage construction work
060101	agriculture							1														1	3	agriculture
080302	beauty salon			1						2													3	beauty salon
130201	social welfare facility									1			1										3	social welfare facility
130301	bathhouse																					1	3	bathhouse
140309	other amusement service			1								1											3	other amusement service
010106	soft drinks									1	1												2	soft drinks
010204	dyeing												1									1	2	dyeing
010309	other fiber products									2													2	other fiber products
010509	other furniture									2													2	other furniture
010804	petroleum/coal products					1		1															2	petroleum/coal products
010805	plastics products																					1	2	plastics products
010809	chemical fertilizer products							1				1											2	chemical fertilizer products
010899	other chemical products											1											2	other chemical products
011109	other nonferrous metal products											1										1	2	other nonferrous metal products
030202	wooden house construction work																					1	2	wooden house construction work
030301	electricity/telecommunication work											1										1	2	electricity/telecommunication work











