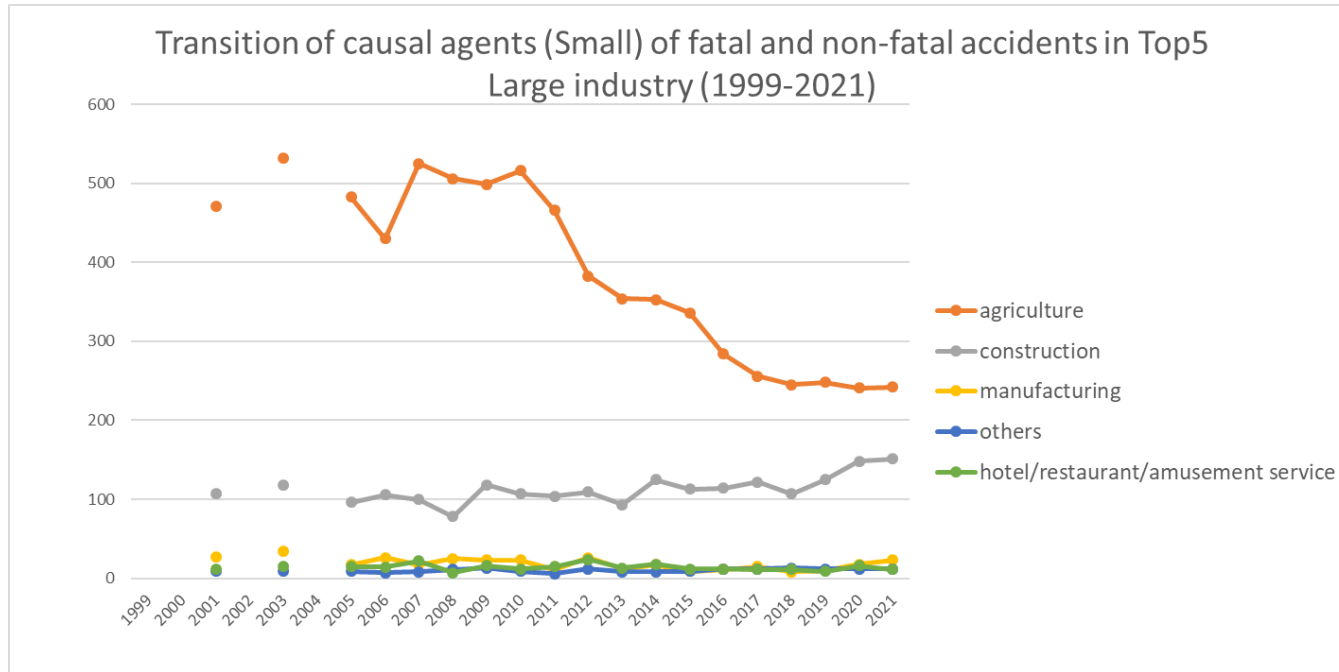
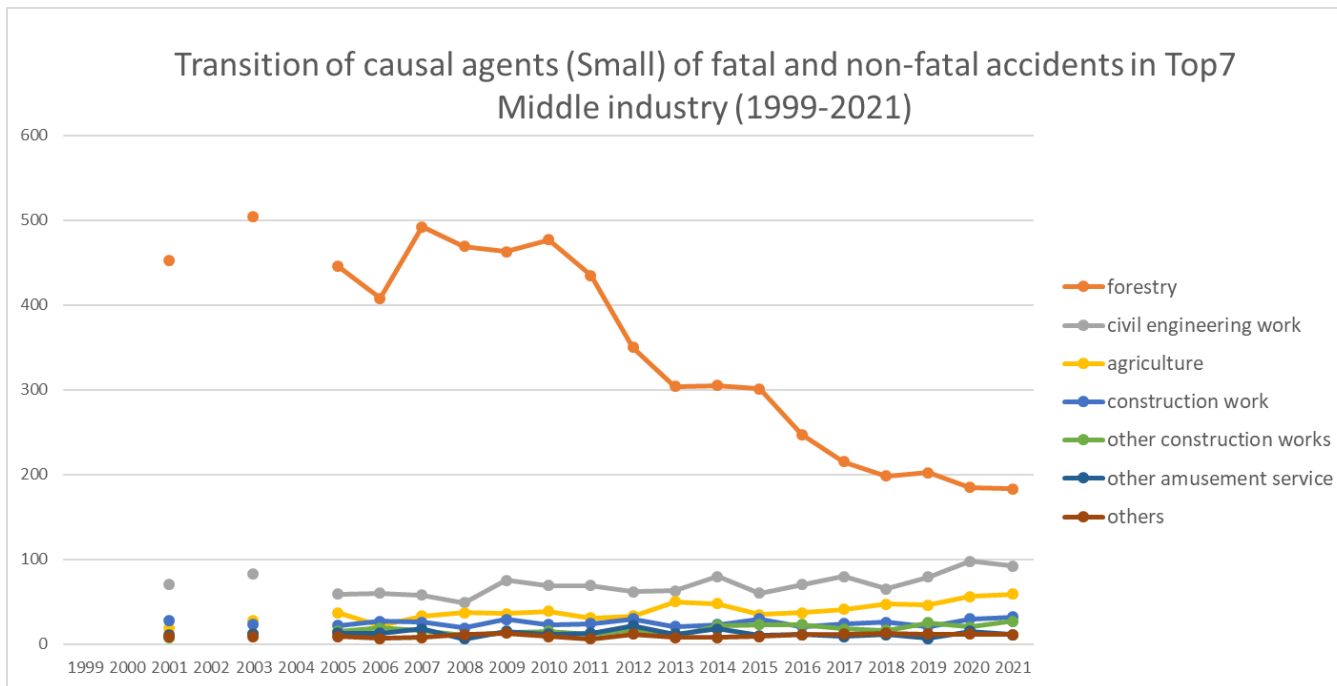


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 136 chain saw (1999-2021)

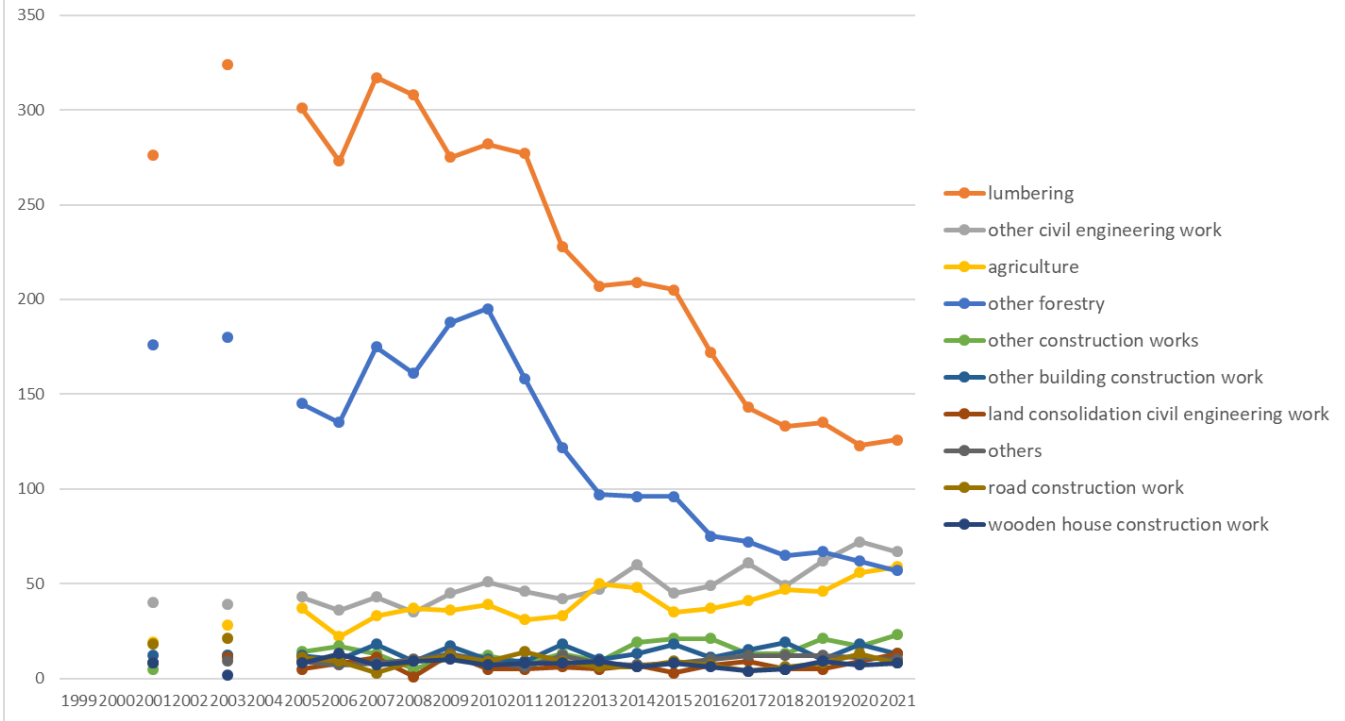


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 136 chain saw in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 136 chain saw 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. 136 chain saw in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 136 chain saw 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
06	agriculture			471		532		483	430	525	506	499	516	466	383	354	353	336	284	256	245	248	241	242	7,370	agriculture
03	construction			107		118		96	106	100	78	118	107	104	109	93	125	113	114	122	107	125	148	151	2,141	construction
01	manufacturing			27		34		17	26	17	25	23	23	11	26	12	17	9	11	15	8	10	18	23	352	manufacturing
17	others			9		9		9	7	8	11	13	9	6	12	8	8	9	12	12	13	12	12	12	191	others
14	hotel/restaurant/amusement service			11		15		15	14	22	7	16	12	15	24	13	18	12	12	11	11	9	16	11	264	hotel/restaurant/amusement service
15	commercial cleaning and livestock process			5		3		7	8	4	6	6	12	6	7	8	8	8	2	5	5	7	4	10	121	commercial cleaning and livestock process

08	commerce			4		4		3	4	5	5	4	2	8	4	4	9	6	4	5	5	5	6	6	93	commerce
07	livestock/fishery			1		2		1	1	3	1		3	1				1	1			1	4	4	24	livestock/fishery
13	health and hygiene service			1		1		1	2	4	3	2	2	2	1	3		1	3	2	5	5	1	3	42	health and hygiene service
04	transportation service			4		1		3	4	3	3	3	3	8	1	4	1	2	3	1	3	1	5	2	55	transportation service
12	education/research service					1				4	2	2		3	2	2	1	3	2	1	2	1	2	2	30	education/research service
16	public office											1						1	1		1	2		1	7	public office
05	cargo handling service			3		1		3	2	1	4	2	1	1				2			2	1	1		24	cargo handling service
02	mining			2				1		1					1		1						1		7	mining
09	financial business/advertisement			1											1	1				1			2		6	financial business/advertisement
10	movie/play service									1															1	movie/play service
11	telecommunication service																									telecommunication service
	total			646		721		639	604	698	651	689	690	631	571	502	541	503	449	431	407	427	461	467	10,728	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 136 chain saw 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
0602	forestry			452		504		446	408	492	469	463	477	435	350	304	305	301	247	215	198	202	185	183	6,636	forestry
0301	civil engineering work			71		83		59	60	58	49	75	69	69	62	63	80	60	70	80	65	79	98	92	1,342	civil engineering work
0601	agriculture			19		28		37	22	33	37	36	39	31	33	50	48	35	37	41	47	46	56	59	734	agriculture
0302	construction work			28		23		22	27	26	19	29	23	24	30	21	23	30	21	24	26	21	30	32	479	construction work
0303	other construction works			8		12		15	19	16	10	14	15	11	17	9	22	23	23	18	16	25	20	27	320	other construction works
1403	other amusement service			11		12		13	13	18	6	15	12	13	22	12	18	10	11	9	11	7	15	11	239	other amusement service
1702	others			9		9		9	7	8	11	13	9	6	12	8	8	9	11	12	13	12	12	11	189	others
1501	commercial cleaning and livestock			5		3		7	8	4	6	6	12	6	7	8	8	8	2	5	5	7	4	10	121	commercial cleaning

	process																								and livestock process	
0104	wood products			22		30		12	23	12	17	17	19	7	22	8	14	8	7	7	4	5	9	9	252	wood products
0101	food products					1				2	2	1			2				2		2		1	5	18	food products
0802	retail			4		3				2	3	2	2	4	3	1	6	2	1	3	1	2	3	3	45	retail
1302	social welfare facility			1		1			1	1	3	2	2		1	3			2	2	3	5	1	3	31	social welfare facility
0804	other commerce					1		1	2	1	1	1		2		1	2		1	1	3	2	3	3	25	other commerce
0701	livestock			1		2			1	2	1		1	1				1	1			1	2	3	17	livestock
0113	machine products										1											1		3	5	machine products
1201	education/research service					1				4	2	2		3	2	2	1	3	2	1	2	1	2	2	30	education/research service
0117	other manufacturing						1				1			1	1			1	1			3	2	2	13	other manufacturing
0403	road cargo transportation service			4				3	4	3	2	3	3	4	1	3		2	3	1	3	1	3	1	44	road cargo transportation service
0109	sand and stone products			1				3	2	1	3	1	2	2		2			1	2	1			1	22	sand and stone products
0116	electric/gas/water service			1								1			1		1			1	1		2	1	9	electric/gas/water service
0702	fishery						1			1			2										2	1	7	fishery
1601	public office											1						1	1		1	2		1	7	public office
0108	chemical products					1						1				2						1		1	6	chemical products
0402	road passenger transport service													2									2	1	5	road passenger transport service
0110	steel making											1											1	1	3	steel making
1701	dispatch service																		1					1	2	dispatch service
0502	harbor transportation service			3		1		3	2	1	4	2	1	1			2				2	1			23	harbor transportation service
0801	wholesale							2	2	2	1	1		2	1	2	1	4	2	1	1	1			23	wholesale

1401	hotel					2			1	3	1	1			2			2		1		1	1			15	hotel	
1402	restaurant					1		2		1				2		1			1	1		1				10	restaurant	
0112	metal products			1				1	1				1		1				2			2				9	metal products	
0114	electrical equipment products									2	1	1	1	1						1						7	electrical equipment products	
0202	quarrying			2				1		1				1		1								1		7	quarrying	
1301	medical treatment service							1	1	1				2						2						7	medical treatment service	
0401	railroad/water transportation/airline service					1								2		1	1									6	railroad/water transportation/airline service	
0902	advertisement and mediator			1										1	1					1				2		6	advertisement and mediator	
1303	other health and hygiene service									2								1	1							4	other health and hygiene service	
0105	furniture			2		1																				3	furniture	
0111	nonferrous metal making																			1				1		2	nonferrous metal making	
0103	fiber products																			1						1	fiber products	
0107	printing/bookbinding					1																				1	printing/bookbinding	
0115	transport equipment products														1											1	transport equipment products	
0501	land cargo handling service																								1	1	land cargo handling service	
1001	movie/play service									1																1	1	movie/play service
0102	textile products																											textile products
0106	pulp/paper processing products																											pulp/paper processing products



030201	concrete house construction work			7		8		2	3	1	1	2	5	5	4	1	3	4	2	5	1	2	2	8	66	concrete house construction work
140301	golf course			10		11		10	12	17	4	11	12	12	20	10	16	9	7	8	8	7	11	7	202	golf course
010401	lumbering			17		24		12	18	8	15	13	15	6	15	6	10	7	2	5	3	3	6	6	191	lumbering
150101	building maintenance service			1				1	2	2	1	1	1	3	2	4	1	2	1	3	1	1	2	4	33	building maintenance service
010409	other lumber and wood products			5		6			4	3	2	4	4	1	7	2	4	1	4	2	1	2	2	3	57	other lumber and wood products
030301	electricity/telecommunication work			3				1	1	2	5	3	3	3	3		1	2	2	5	3	4	3	3	47	electricity/telecommunication work
130201	social welfare facility			1		1			1	1	3	2	2		1	3			2	2	3	5	1	3	31	social welfare facility
080409	other commerce					1		1	2		1			2		1	2		1	1	3	2	3	3	23	other commerce
140302	park and amusement park											3			2	1	1	1	3	1	2		2	3	19	park and amusement park
030203	building facility construction work			1		1			1				1	2		1	1		2		1		3	3	17	building facility construction work
070101	livestock			1		2			1	2	1		1	1				1	1			1	2	3	17	livestock
010109	other foods								2	1				2				1		2		1	3		12	other foods
011301	machine products									1														3	4	machine products
150109	other cleaning and livestock process service			2				4	4		3	3	9	2	3	4	4	5	1	1	1	4	1	2	53	other cleaning and livestock process service
030107	river civil engineering work			2		2			3		2		3	3	5	1	5	3	1	1	4	1	3	2	41	river civil engineering work
080209	other retails			1		3				1	3	2	2	3	2	1	5	2	1	3	1	2	2	2	36	other retails
120109	other education/research service					1				2	2	1		3	1	2		3	2	1	2	1	2	2	25	other education/research service
150102	industrial waste management service			2		2			1		1	2	1			2					3	1	1	2	18	industrial waste management service
150103	other waste disposal service					1		2	1	2			1	1	2		1	1		1		1		2	16	other waste disposal service
040301	general truck transportation service			3				3	4	2	2	3	1	3	1	2		1	3	1	2	1	3	1	36	general truck transportation service



140309	other amusement service			1		1		3	1	1	2	1		1		1	1		2	1	18	other amusement service			
010909	other sand and stone products							1	2		2	1	2	1		2			1	1		14	other sand and stone products		
170201	security service			1							1					1	1	1		1	1	8	security service		
011709	other manufacturing							1			1			1			1	1			1	1	7	other manufacturing	
160101	public office										1					1	1		1	2		1	7	public office	
030302	machinery/apparatus setting work								1	1				1		2						1	6	machinery/apparatus setting work	
011601	electric utility service			1							1				1			1				1	5	electric utility service	
080204	fuel retail			2						1					1							1	5	fuel retail	
011701	auto mobile servicing																		1	1	1		3	auto mobile servicing	
040202	bus service												1								1	1	3	bus service	
010102	fishery products										1											1	2	fishery products	
010103	agricultural food products					1																1	2	agricultural food products	
011001	steel/iron/rolling products										1											1	2	steel/iron/rolling products	
030111	port/seaside construction work																1					1	2	port/seaside construction work	
070201	fishery								1													1	2	fishery	
170101	dispatch service																1					1	2	dispatch service	
010804	petroleum/coal products																					1	1	petroleum/coal products	
030101	hydroelectric plant construction work																					1	1	hydroelectric plant construction work	
030108	sand collapse prevention civil engineering work			3		8			3		2	3	1	1		1	2		2	2		2	1	31	sand collapse prevention civil engineering work
050202	port cargo handling service			3		1		3	2	1	4	1	1	1			2			1	1		21	port cargo handling service	
080109	other wholesale							1	2	2	1	1		2	1	2	1	3	2	1	1		20	other wholesale	
140101	hotel					2			1	3	1	1			2			2		1		1	1	15	hotel

030110	water supply/sewage construction work				2					2			3			1	2		1			11	water supply/sewage construction work
011209	other metal products			1			1	1				1		1			2			2		9	other metal products
140201	general restaurant				1		2					2		1			1			1		8	general restaurant
090209	other advertisement and mediator			1									1	1			1			2		6	other advertisement and mediator
130101	hospital						1	1	1				2						1			6	hospital
070209	other fishery						1					2								2		5	other fishery
120101	auto mobile practical training								2		1			1	1							5	auto mobile practical training
010402	plywood							1	1							1				1		4	plywood
010901	cement products						2			1							1					4	cement products
020202	gravel digging			1					1				1	1								4	gravel digging
040101	railroad service				1					1			1	1								4	railroad service
040302	specific truck transportation service			1								1		1					1			4	specific truck transportation service
040309	other land cargo transportation service								1			1	1			1						4	other land cargo transportation service
011401	heavy electrical equipment								1		1		1									3	heavy electrical equipment
011603	city water service												1					1		1		3	city water service
030104	railway construction work							1	1								1					3	railway construction work
030105	bridge construction work																1	1	1			3	bridge construction work
080101	all kinds of wholesale						1								1				1			3	all kinds of wholesale
130301	bathhouse								2						1							3	bathhouse
010501	wood furniture			1		1																2	wood furniture
010903	pottery products											1					1					2	pottery products
010905	other ceramic products			1						1												2	other ceramic products
	electronics equipment and																						electronics equipment and









