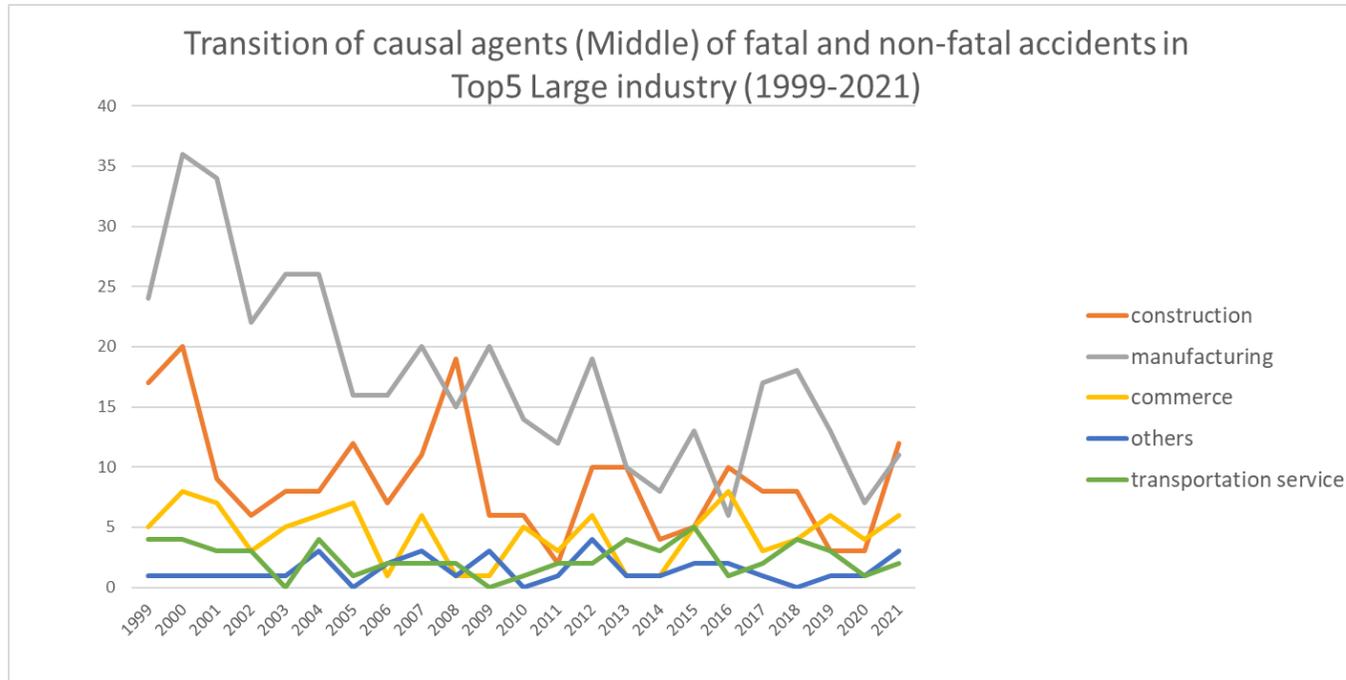
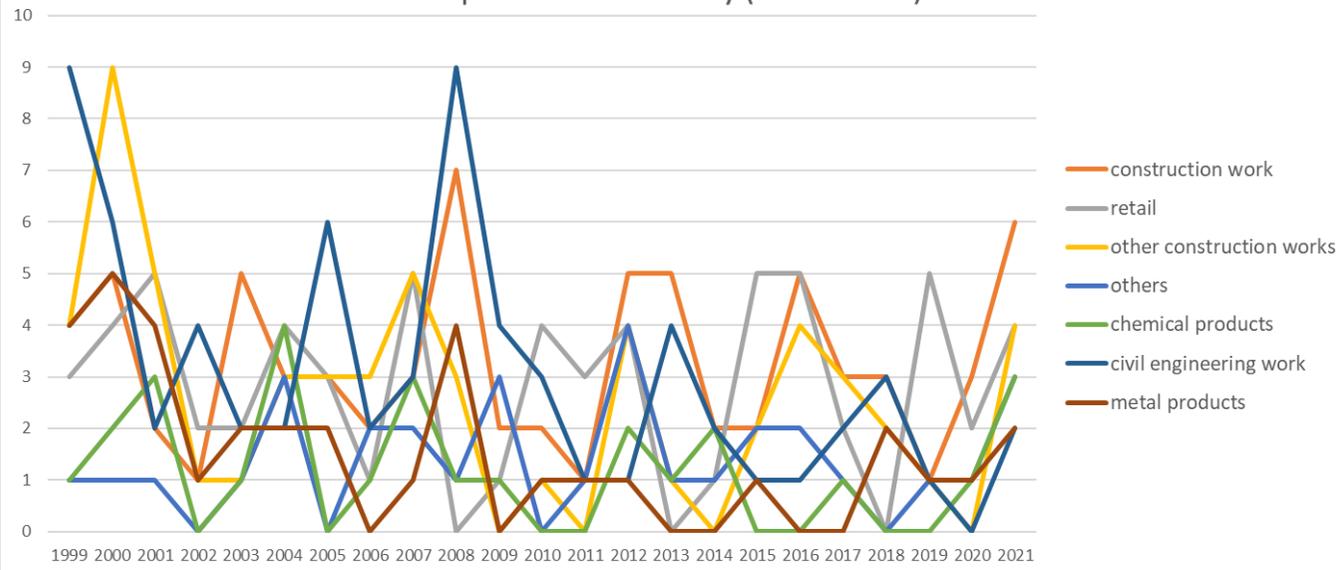


Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 11 engine (1999-2021)



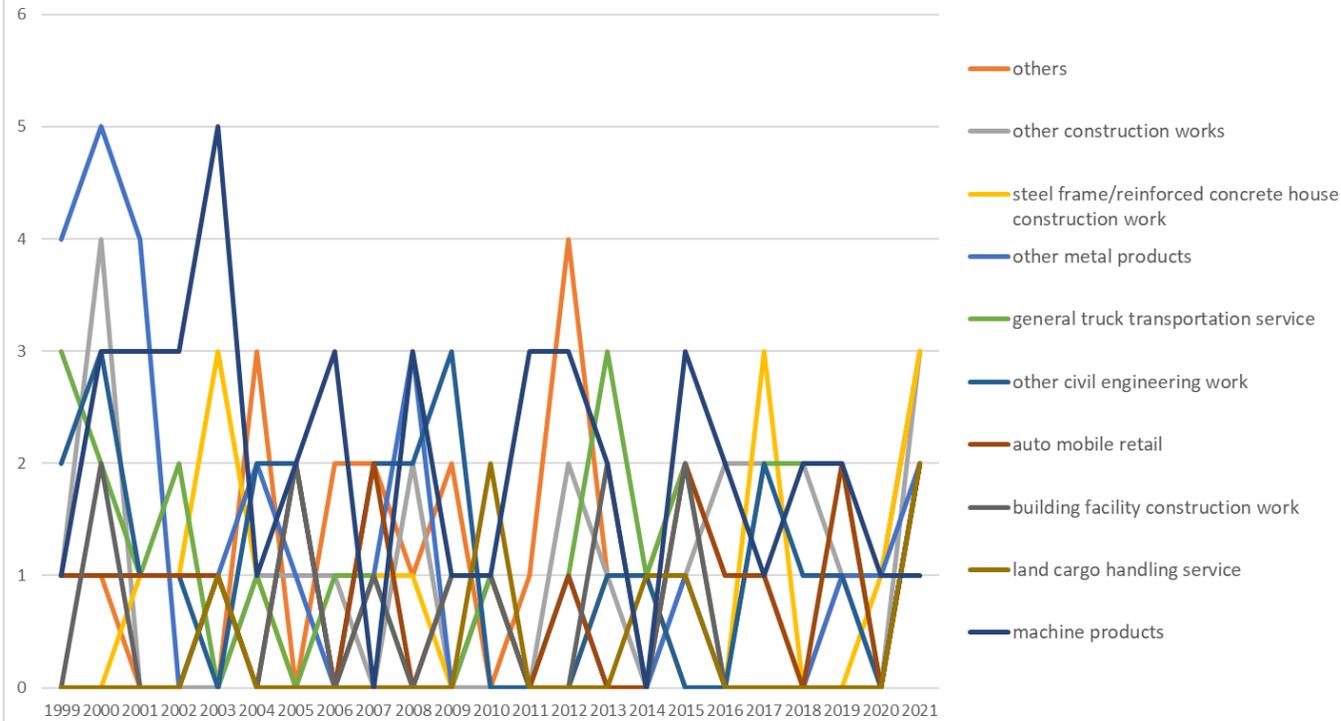
Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 11 engine in Large industry (1999-2021)

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



Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 11 engine in Middle Industry (1999-2021)

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



Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 11 engine in Small Industry (1999-2021)

Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 11 engine 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
03	construction	17	20	9	6	8	8	12	7	11	19	6	6	2	10	10	4	5	10	8	8	3	3	12	204	construction
01	manufacturing	24	36	34	22	26	26	16	16	20	15	20	14	12	19	10	8	13	6	17	18	13	7	11	403	manufacturing
08	commerce	5	8	7	3	5	6	7	1	6	1	1	5	3	6	1	1	5	8	3	4	6	4	6	102	commerce
17	others	1	1	1	1	1	3		2	3	1	3		1	4	1	1	2	2	1		1	1	3	34	others
04	transportation service	4	4	3	3		4	1	2	2	2		1	2	2	4	3	5	1	2	4	3	1	2	55	transportation service
05	cargo handling service		1			1					2	1	2		1		1	1						2	12	cargo handling service
07	livestock/fishery	1		2	2	1	2	2	3	1	1			1	2				1	1	1	2	1	1	25	livestock/fishery

14	hotel/restaurant/amusement service	1	2	4	1		1	1		1	1			2	1	2							1	19	hotel/restaurant/amusement service		
11	telecommunication service							1			1		1			1							1	6	telecommunication service		
12	education/research service									1				1									1	3	education/research service		
15	commercial cleaning and livestock process	4	1	1	2	1		1	2	1	1	1	2	2	1	1	2	1	2	6		1	1		34	commercial cleaning and livestock process	
06	agriculture	2	1					1			1	1		1		1	2	1			2	1			14	agriculture	
02	mining				1			1	2	2				2								1			9	mining	
13	health and hygiene service					1	1							2	2	1							1	1		9	health and hygiene service
09	financial business/advertisement	1			1				1																3	financial business/advertisement	
16	public office						1								1										2	public office	
10	movie/play service																									movie/play service	
	total	60	74	61	42	44	52	43	36	47	44	35	32	27	51	31	24	33	32	38	38	31	19	40	934	total	

Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 11 engine 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
0302	construction work	4	5	2	1	5	3	3	2	3	7	2	2	1	5	5	2	2	5	3	3	1	3	6	75	construction work
0802	retail	3	4	5	2	2	4	3	1	5		1	4	3	4		1	5	5	2		5	2	4	65	retail
0303	other construction works	4	9	5	1	1	3	3	3	5	3		1		4	1		2	4	3	2	1		4	59	other construction works
1702	others	1	1	1		1	3		2	2	1	3		1	4	1	1	2	2	1		1	1	3	32	others
0108	chemical products	1	2	3		1	4		1	3	1	1			2	1	2			1			1	3	27	chemical products
0301	civil engineering work	9	6	2	4	2	2	6	2	3	9	4	3	1	1	4	2	1	1	2	3	1		2	70	civil engineering work
0112	metal products	4	5	4	1	2	2	2		1	4		1	1	1			1			2	1	1	2	35	metal products
0403	road cargo transportation service	3	2	2	2		1		1	1			1		1	3	1	2	1	2	2	3	1	2	31	road cargo

011301	machine products	1	3	3	3	5	1	2	3		3	1	1	3	3	2		3	2	1	2	2	1	1	46	machine products
030209	other building construction work	3	2	1		1	2	1	1		6			1	4	2			5		2	1	1	1	34	other building construction work
080209	other retails	1	3	1	1	1	3	1	1	2			3	2	2		1	1	3			2	2	1	31	other retails
030302	machinery/apparatus setting work	1	4	2		1	1	1	2	5	1		1		2				1	1				1	24	machinery/apparatus setting work
011501	ship building	2	2	1	1	2		1		4				1			1				2		1	1	19	ship building
080109	other wholesale	2	1	2	1	1		2		1				1	1			1		3		2	1	19	other wholesale	
080409	other commerce		2			1	1	2			1		1						1	1	1	1		1	13	other commerce
011401	heavy electrical equipment			1	1		3		1						1					2			1	10	heavy electrical equipment	
080204	fuel retail	1		2						1					1				1	1			1	8	fuel retail	
010899	other chemical products		1	1			1			1				1	1								1	7	other chemical products	
070209	other fishery				1		1				1			1					1				1	6	other fishery	
110101	telecommunication service							1				1		1		1			1				1	6	telecommunication service	
010805	plastics products						1			1	1						1						1	5	plastics products	
010901	cement products																				1	2		1	4	cement products
010609	other pulp/paper processing products		1																				1	2	other pulp/paper processing products	
010802	chemical fiber						1																1	2	chemical fiber	
011402	electrical appliance									1													1	2	electrical appliance	
120101	auto mobile practical training																						1	1	auto mobile practical training	
140302	park and amusement park																						1	1	park and amusement park	
011701	auto mobile servicing	6	7	4	5	7	6	6	5	4	2	7	1	2		1	2	2	2	1	1			71	auto mobile servicing	
011702	machine repair	2	3	3	4	1	4	1	1		3	3		1	4	1				1				32	machine repair	
150102	industrial waste management service				1			1	1		1		1	1	1	1	2		1	4		1		16	industrial waste management service	
010109	other foods	1	1			2					1		1	2		1			1		1	1	1	1	14	other foods

030106	road construction work	1	2	1	3				1		1		2				1	1		1			14	road construction work	
011409	other electrical equipment		1	2	1	1	1	1					1				1		3			1		13	other electrical equipment
030110	water supply/sewage construction work	3				1				1	5				1	1	1							13	water supply/sewage construction work
070101	livestock	1		1		1	1	1	2					2					1	1		1		12	livestock
010101	meat/dairy products		1				1	1					1				1		2	2	1	1		11	meat/dairy products
030301	electricity/telecommunication work	2	1	3	1			1	1								1	1						11	electricity/telecommunication work
010102	fishery products			3		1				1		1	1				1	1				1		10	fishery products
040202	bus service		1		1		2	1	1	1	1			1							1			10	bus service
011709	other manufacturing		1	2						1				1	1						2	1		9	other manufacturing
030202	wooden house construction work	1	1						1	1		1			1		1				1		1	9	wooden house construction work
140309	other amusement service	1		1	1		1	1		1				1		1		1						9	other amusement service
011502	auto mobile products		1	1	1		1		1					1	1						1			8	auto mobile products
060101	agriculture	1						1				1				2				2	1			8	agriculture
150101	building maintenance service	3	1		1							1						1				1		8	building maintenance service
011509	other transport equipment products	2			1	1	1							1			1							7	other transport equipment products
011703	cleaning			1								1	1	1				1	1		1			7	cleaning
040201	taxi service			1			1							1	1		2	1						7	taxi service
070201	fishery			1	1			1	1	1												2		7	fishery
011002	casting products		1	1				1						1	1				1					6	casting products
011601	electric utility service					1		1		1				2										6	electric utility service
020201	quarrying							1	1	2					1						1			6	quarrying
030111	port/seaside construction		1						2						1									6	port/seaside construction

