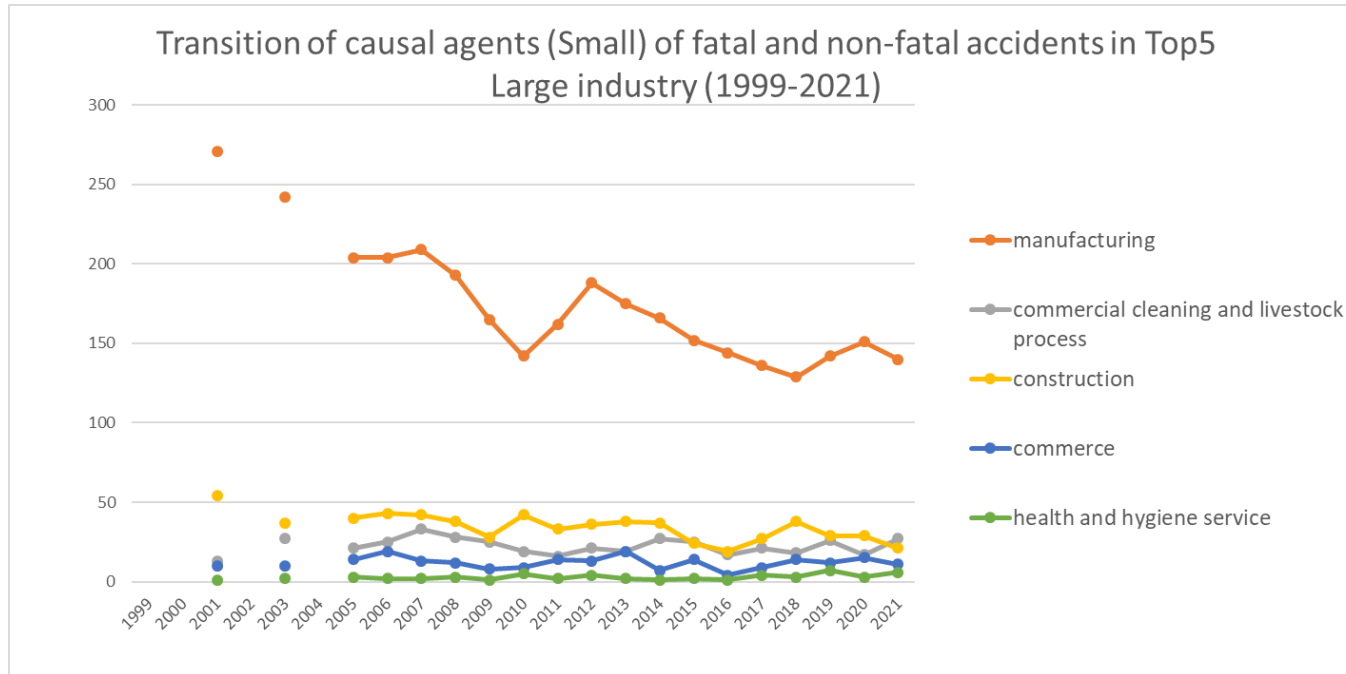
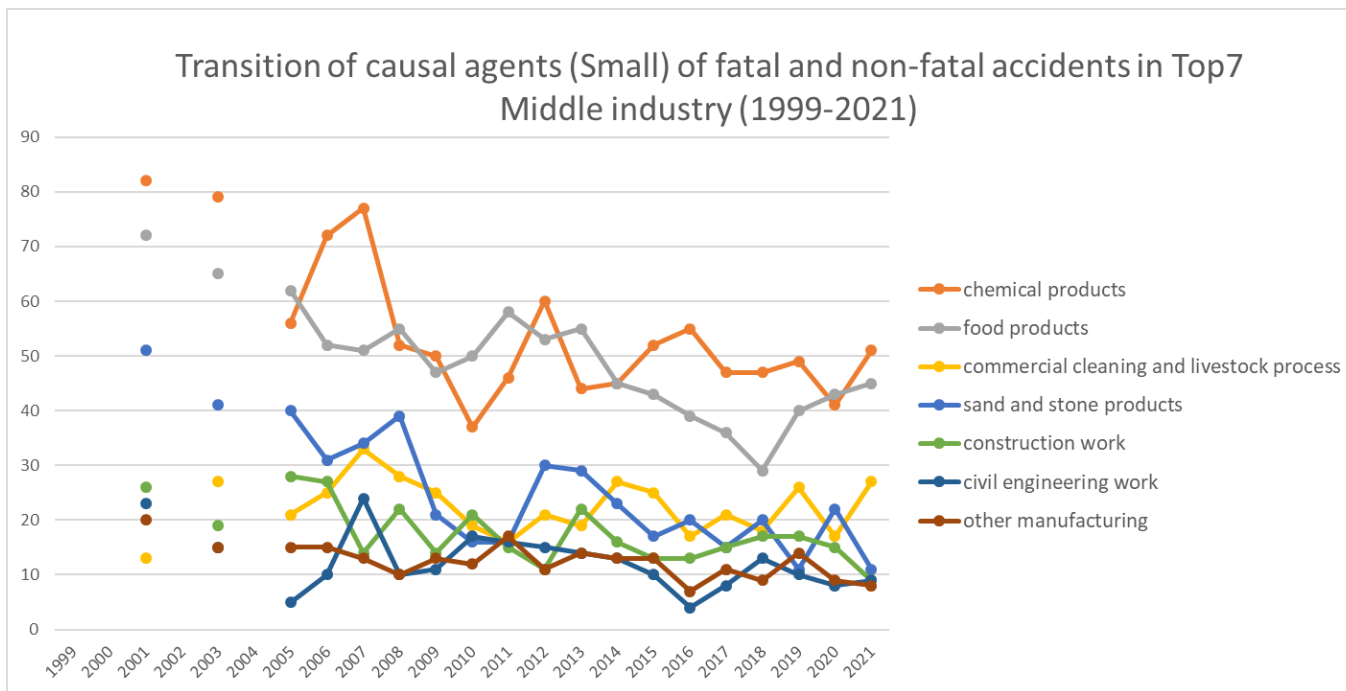


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 162 mixer, grinder (1999-2021)

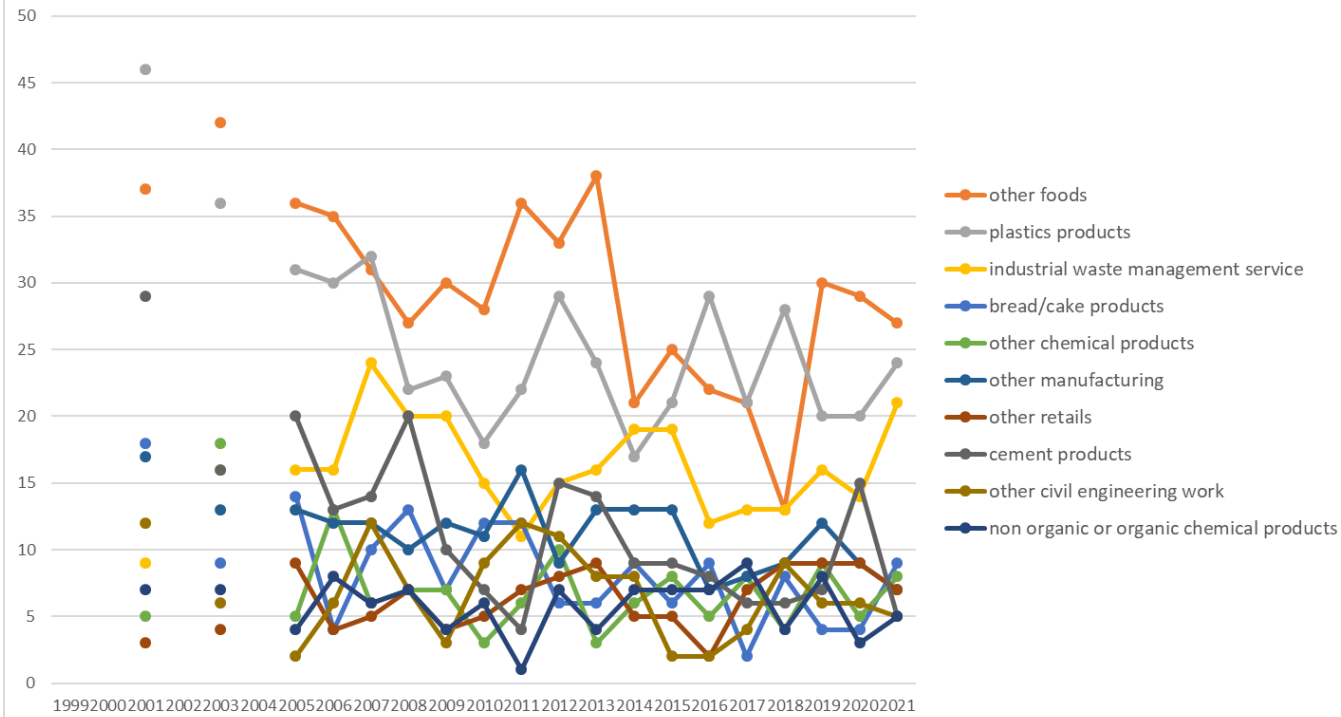


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 162 mixer, grinder in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 162 mixer, grinder 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. 162 mixer, grinder in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 162 mixer, grinder 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			271		242		204	204	209	193	165	142	162	188	175	166	152	144	136	129	142	151	140	3,315	manufacturing
15	commercial cleaning and livestock process			13		27		21	25	33	28	25	19	16	21	19	27	25	17	21	18	26	17	27	425	commercial cleaning and livestock process
03	construction			54		37		40	43	42	38	28	42	33	36	38	37	24	19	27	38	29	29	21	655	construction
08	commerce			10		10		14	19	13	12	8	9	14	13	19	7	14	4	9	14	12	15	11	227	commerce
13	health and hygiene service			1		2		3	2	2	3	1	5	2	4	2	1	2	1	4	3	7	3	6	54	health and hygiene service
06	agriculture			1		4			2	4	4	6	3	7	4	2	2	4	1	2	3	7	4	5	65	agriculture
07	livestock/fishery			7		11		5	5	6	4	6	8	3	2	6	5	8	1	5	3	6	6	4	101	livestock/fishery

14	hotel/restaurant/amusement service			5		2		4	7	5	3	5	3	4	8	8	5	11	4	3	4	6	3	4	94	hotel/restaurant/amusement service	
17	others			5		3		5	3	3	5	4	5	2	3	2	2	3	3	4	2	1	2	3	60	others	
02	mining			18		11		10	10	12	5	9	4	3	5	8	2	5	5	7	2	4	5	2	127	mining	
04	transportation service			1		5		1	3	1	3		3	1		2	1	1		2	6	2	2	1	35	transportation service	
12	education/research service			2				4	1			4		1			1		1			1	1	1	17	education/research service	
05	cargo handling service			1		1		1		1	2	1				1		1			1				10	cargo handling service	
16	public office					1														1	1				3	public office	
09	financial business/advertisement																		1						1	financial business/advertisement	
11	telecommunication service							1																	1	telecommunication service	
10	movie/play service																										movie/play service
	total			389		356		313	324	331	300	262	243	248	284	282	256	250	201	221	224	243	238	225	5,190	total	

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 162 mixer, grinder 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
0108	chemical products			82		79		56	72	77	52	50	37	46	60	44	45	52	55	47	47	49	41	51	1,042	chemical products
0101	food products			72		65		62	52	51	55	47	50	58	53	55	45	43	39	36	29	40	43	45	940	food products
1501	commercial cleaning and livestock process			13		27		21	25	33	28	25	19	16	21	19	27	25	17	21	18	26	17	27	425	commercial cleaning and livestock process
0109	sand and stone products			51		41		40	31	34	39	21	16	16	30	29	23	17	20	15	20	11	22	11	487	sand and stone products
0302	construction work			26		19		28	27	14	22	14	21	15	11	22	16	13	13	15	17	17	15	9	334	construction work
0301	civil engineering work			23		15		5	10	24	10	11	17	16	15	14	13	10	4	8	13	10	8	9	235	civil engineering work
0117	other manufacturing			20		15		15	15	13	10	13	12	17	11	14	13	13	7	11	9	14	9	8	239	other manufacturing
0802	retail			4		6		9	5	8	7	4	5	7	8	11	5	5	2	7	9	10	9	7	128	retail

0110	steel making			11		10		12	2	7	7	6	8	6	7	3	11	7	3	6	5	6	5	6	128	steel making
0113	machine products			5		4		2	1	4	4	6	4	4	2	8	5	1	2	1	2	3	7	5	70	machine products
1302	social welfare facility			1				1	1		2	1	5	2	2	2		2	1	4	3	5	3	5	40	social welfare facility
0801	wholesale			3		4		2	10	4	5	3	3	6	5	6	1	8	2	2	5	2	6	4	81	wholesale
0701	livestock			6		8		4	2	3	3	5	6	3	2	4	4	6		4	3	3	3	4	73	livestock
0601	agriculture			1		3			1	4	4	6	3	7	4	2	2	4		2	3	7	4	4	61	agriculture
0106	pulp/paper processing products			8		6		1	4	1	4	2		1	4	5	3	1	1	2	2	3	2	4	54	pulp/paper processing products
0303	other construction works			5		3		7	6	4	6	3	4	2	10	2	8	1	2	4	8	2	6	3	86	other construction works
1402	restaurant			4		2		4	6	5	2	5	2	3	5	7	3	9	3	2	3	5	3	3	76	restaurant
0115	transport equipment products			5		2		2	3	3	3	3	3	4	4	2	2	3	6	6	2	1	2	3	59	transport equipment products
1702	others			5		3		5	3	3	5	4	4	2	3	2	2	3	3	4	2	1	2	3	59	others
0114	electrical equipment products			3		5		4	5	3	2	2		2	2	3	4	1	3	3	1	2	4	3	52	electrical equipment products
0202	quarrying			17		10		9	10	12	4	9	4	3	4	8	2	5	4	7	2	4	5	2	121	quarrying
0112	metal products			3		3		3	4	1	6	7	4	5	5	6	5	5	3		8	5	3	1	77	metal products
0111	nonferrous metal making			6		3		1	5	6	5	2	3	1	2	4	4	3	2	5	2	4	7	1	66	nonferrous metal making
0104	wood products			1		5		4	6	7	3	2	4	1	2	1	4	3	2	3	1	2	4	1	56	wood products
0403	road cargo transportation service			1		5		1	3	1	3		2	1		2		1		2	6	2	2	1	33	road cargo transportation service
1201	education/research service			2				4	1			4		1			1		1			1	1	1	17	education/research service
1301	medical treatment service					2		2	1	2	1				1		1					2		1	13	medical treatment service





130201	social welfare facility			1				1	1		2	1	5	2	2	2		2	1	4	3	5	3	5	40	social welfare facility
010909	other sand and stone products			13		10		9	6	16	12	7	6	12	11	12	10	8	9	6	8	3	4	4	166	other sand and stone products
030209	other building construction work			11		9		12	11	4	4	9	12	9	5	8	5	1	7	5	8	2	9	4	135	other building construction work
030201	steel frame/reinforced concrete house construction work			10		5		6	4	6	10	3	6	3	5	11	5	6	1	5	5	9	6	4	110	steel frame/reinforced concrete house construction work
010803	pharmaceuticals			8		4		1	1	15	4	3	3	7	4	7	4	2	4	3	5	4	5	4	88	pharmaceuticals
080109	other wholesale			3		4		2	10	4	5	3	3	6	5	6	1	8	2	2	4	2	6	4	80	other wholesale
070101	livestock			6		8		4	2	3	3	5	6	3	2	4	4	6		4	3	3	3	4	73	livestock
010102	fishery products			3		2		1	3	8	8	5	3	2	6	6	6	3	4	5	1	2		4	72	fishery products
060101	agriculture			1		3			1	4	4	6	3	7	4	2	2	4		2	3	7	4	4	61	agriculture
011301	machine products			5		4		1	1	3	4	4	4	3	2	6	5	1	2	1	1	3	6	4	60	machine products
010602	paper processing products			2		2			1		2	2			1	2			1	1	2	3	2	4	25	paper processing products
011002	casting products			10		7		10		2	5	5	8	6	5	2	10	7	3	4	4	3	4	3	98	casting products
140201	general restaurant			4		2		4	5	3	2	5	2	3	5	6	2	8	3	2	3	5	3	3	70	general restaurant
170209	others			5		3		5	3	2	5	4	4	2	3	2	2	3	3	4	2	1	2	3	58	others
011502	auto mobile products			5		2		2	2	3	2	2	2	2	3	2		2	5	5	2	1	1	3	46	auto mobile products
010808	painting products			4		6		2	3	3	2	4	1				1	3	2	1	3	2	1	3	41	painting products
150109	other cleaning and livestock process service					2			4	3	2	1	2	4	2		4	2			1	2		3	32	other cleaning and livestock process service
010105	alcoholic drinks			3		1		3	3	1	1			1	1		2	1	1		1	2	1	3	25	alcoholic drinks
150103	other waste disposal service			2		8		4	5	5	6	3	1		3	2	2	3	5	4	4	7	2	2	68	other waste disposal service
011403	electronics equipment and telecommunications apparatus			1		3		2		3	1			1	2	1	2			1		1	1	2	21	electronics equipment and telecommunications apparatus



011009	other steel products								1	3	2												1	1							2					1	2	13	other steel products			
020201	quarrying			12		6		6	5	6	3	5	2	2	3	7	1	3	4	7	1	1	4	1															79	quarrying		
011209	other metal products			3		2		3	3	1	6	6	4	4	5	6	5	5	3		6	5	2	1															70	other metal products		
010101	meat/dairy products			7		2		4	4	1	2	3	3	2	2	4	7	5		5	4	2	6	1															64	meat/dairy products		
030202	wooden house construction work			3		4		9	9	3	6	1	1	3	1	1	4	3	5	2	3	5																	1	64	wooden house construction work	
030309	other construction works			2		2		7	6	3	4	2	3	1	5	2	4	1	1	4	7	2	6	1																63	other construction works	
010103	agricultural food products			4		8		4	2		4	1	4	3	5	1		3	3	3			3	1															49	agricultural food products		
010809	chemical fertilizer products							2	3	5	4	3	3	1	2	2	2	2	3	1		1																		35	chemical fertilizer products	
020202	gravel digging			4		4		2	4	3		3	2	1	1		1	2			1	3	1	1																33	gravel digging	
010409	other lumber and wood products			1		1		1	4	4	2	1	3		1	1	2	2			1	2	3	1																30	other lumber and wood products	
030109	land consolidation civil engineering work					3			2	4		4	1	1	3	3	1	2		1	1	3																		1	30	land consolidation civil engineering work
011102	nonferrous metals casting products			3		1			3	2	2		1		2	2	3	2		2	1	1	2	1																	28	nonferrous metals casting products
011409	other electrical equipment			2		1		2	3		1	2		1		2	2	1	2	2	1	1	3	1																	27	other electrical equipment
010905	other ceramic products			3		8			2		3				2				1	1	3	1	1	1																	26	other ceramic products
150101	building maintenance service			2		1				1		1	1	1	1	1	2	1		4		1	1	1																	19	building maintenance service
011001	steel/iron/rolling products			1		3		2	1	2		1			1		1				1	3																			17	steel/iron/rolling products
030302	machinery/apparatus setting work			3						1	2			1	4		4				1																				17	machinery/apparatus setting work
120109	other education/research service			1				4	1			4		1			1		1			1	1	1																	16	other education/research service
010902	glass products			2		1		2	1				1		1	1	1		1	1			1	1																	14	glass products
130101	hospital					2		2	1	2					1		1					2																			12	hospital
030110	water supply/sewage			2		1				1							1	3			1																				10	water supply/sewage

	construction work																						construction work
011305	other precision machine products						1	1	1	1	1	2					1				1	8	other precision machine products
030301	electricity/telecommunication work				1					1	1	1				1					1	6	electricity/telecommunication work
010807	leather products							1				1				1					1	5	leather products
011701	auto mobile servicing			2															2		1	5	auto mobile servicing
030105	bridge construction work								1								2				1	4	bridge construction work
140309	other amusement service											1	1	1							1	4	other amusement service
010701	printing service			1						1											1	3	printing service
030111	port/seaside construction work								1											1	1	3	port/seaside construction work
060201	lumbering						1									1					1	3	lumbering
040309	other land cargo transportation service				1																1	2	other land cargo transportation service
030106	road construction work			6	3	2	1	1	1	3	4	3		3	3	3		2	2	1		38	road construction work
010903	pottery products			3	2	6	7	4	2	2	1		1		1		3					33	pottery products
040301	general truck transportation service			1	3	1	2	1	3		2	1		1		1		2	6	2	2	28	general truck transportation service
030203	building facility construction work			2	1	1	3	1	2	1	2			2	2	3		3	1	1		25	building facility construction work
010804	petroleum/coal products			3		3	2		1	1	1	4	1	1	2	1		1	1			22	petroleum/coal products
010904	fire resisting products			1	4	3	2		2	2	1			2	2			1			1	21	fire resisting products
070209	other fishery			1	1	1	2	2	1	1	1			2		1	1	1		2	3	20	other fishery
011101	nonferrous metals/rolling products			1			1	2	2	1	2	1			1	1		1		1	2	3	nonferrous metals/rolling products
011109	other nonferrous metal			2	2				2	2		1	1		1		1	1	3		1	2	other nonferrous metal









