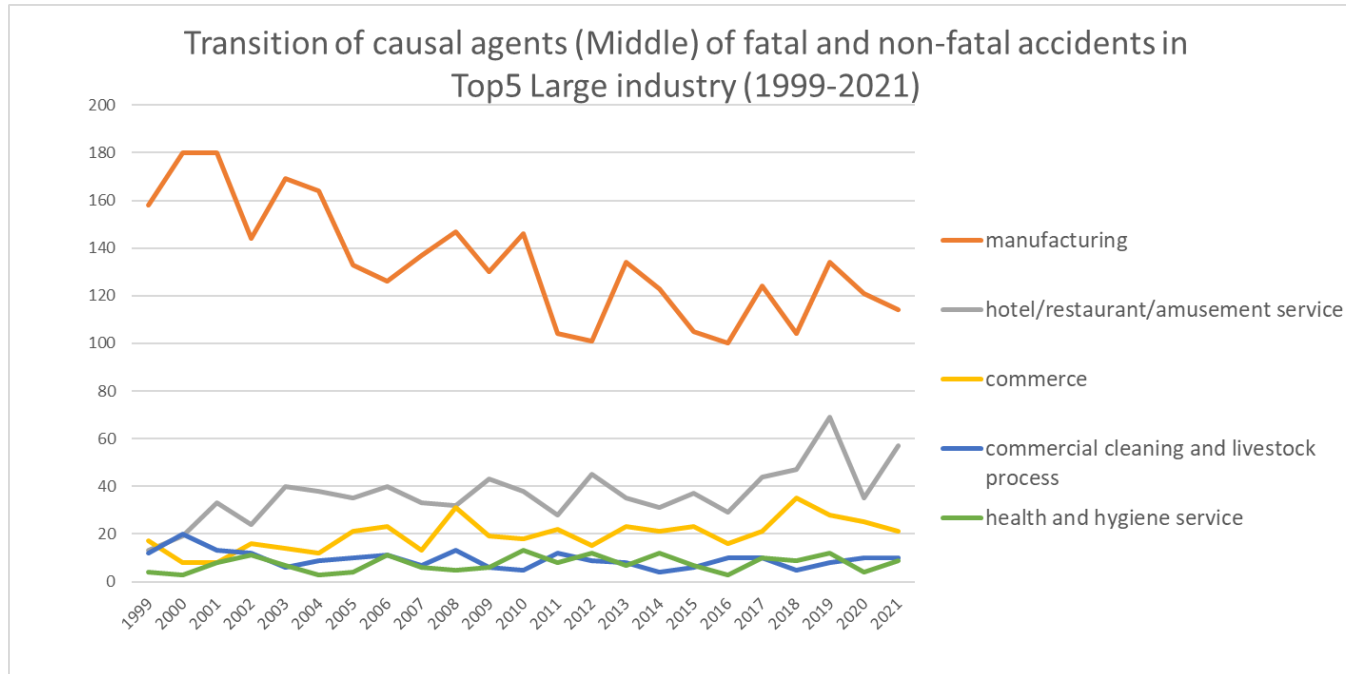
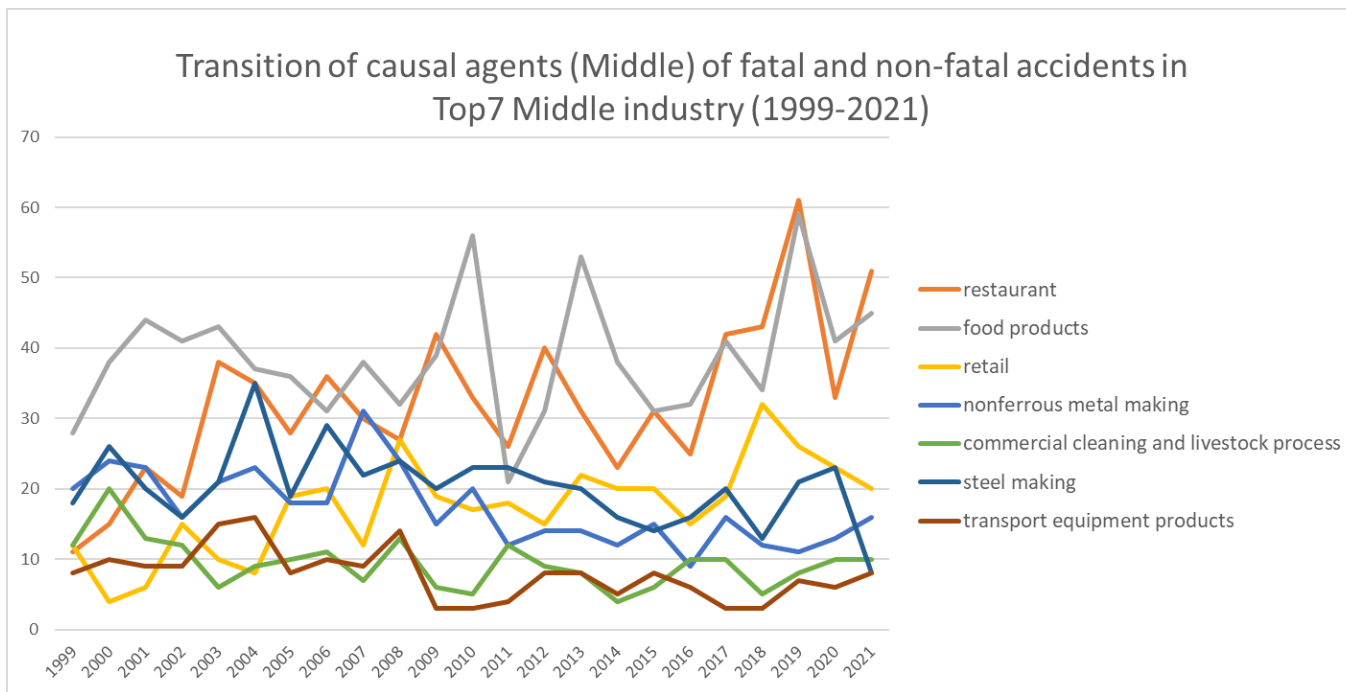


Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 34 kiln, caldron (1999-2021)

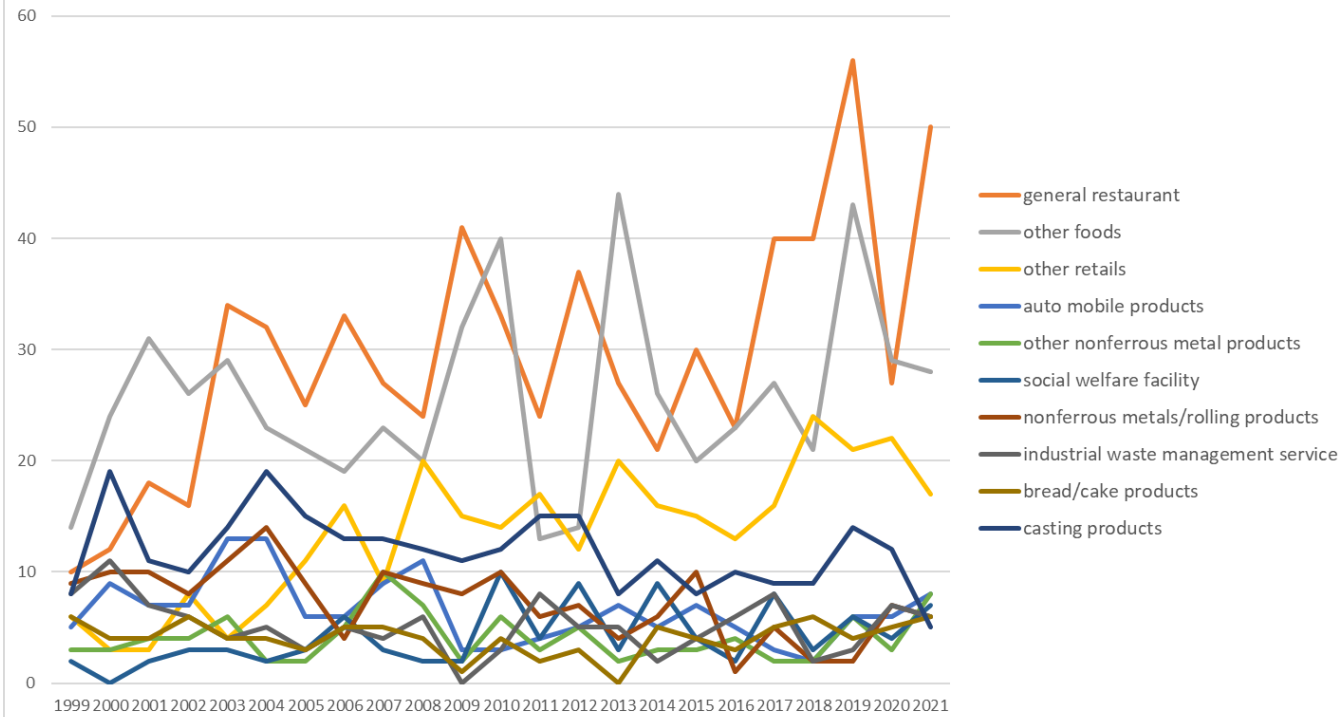


Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 34 kiln, caldron in Large industry (1999-2021)



Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 34 kiln, caldron 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. 34 kiln, caldron in Small Industry (1999-2021)

Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 34 kiln, caldron 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	158	180	180	144	169	164	133	126	137	147	130	146	104	101	134	123	105	100	124	104	134	121	114	3,078	manufacturing
14	hotel/restaurant/amusement service	13	19	33	24	40	38	35	40	33	32	43	38	28	45	35	31	37	29	44	47	69	35	57	845	hotel/restaurant/amusement service
08	commerce	17	8	8	16	14	12	21	23	13	31	19	18	22	15	23	21	23	16	21	35	28	25	21	450	commerce
15	commercial cleaning and livestock process	12	20	13	12	6	9	10	11	7	13	6	5	12	9	8	4	6	10	10	5	8	10	10	216	commercial cleaning and livestock process
13	health and hygiene service	4	3	8	11	7	3	4	11	6	5	6	13	8	12	7	12	7	3	10	9	12	4	9	174	health and hygiene service
03	construction	17	13	12	26	17	15	12	16	9	4	14	9	6	2	9	7	11	5	6	4	10	13	4	241	construction

17	others	5	4	3	2	2	1	3	5	5	1	4		5	6		2	2		1	3	1	4	3	62	others	
12	education/research service	2	2	2	2	2	1	3	2	3	1	2		2			2			1				1	28	education/research service	
04	transportation service		2	1	2	1		2		1		1		1	2	2	1	3		2		1		1	23	transportation service	
06	agriculture		1	1	2					1			1					1	2			1	2	1	13	agriculture	
07	livestock/fishery	2	1	1	1		1			1		1			1	1				1					11	livestock/fishery	
05	cargo handling service			1		1	1		1	1			1							1	1				8	cargo handling service	
02	mining	1					1			1															4	mining	
16	public office					1			2	1															4	public office	
09	financial business/advertisement			1																					2	financial business/advertisement	
10	movie/play service																										movie/play service
11	telecommunication service																										telecommunication service
	total	231	253	264	242	260	246	223	237	219	234	227	231	188	193	219	203	196	165	221	208	264	214	221	5,159	total	

Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 34 kiln, caldron 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
1402	restaurant	11	15	23	19	38	35	28	36	30	27	42	33	26	40	31	23	31	25	42	43	61	33	51	743	restaurant
0101	food products	28	38	44	41	43	37	36	31	38	32	39	56	21	31	53	38	31	32	41	34	59	41	45	889	food products
0802	retail	12	4	6	15	10	8	19	20	12	27	19	17	18	15	22	20	20	15	19	32	26	23	20	399	retail
0111	nonferrous metal making	20	24	23	16	21	23	18	18	31	24	15	20	12	14	14	12	15	9	16	12	11	13	16	397	nonferrous metal making
1501	commercial cleaning and livestock process	12	20	13	12	6	9	10	11	7	13	6	5	12	9	8	4	6	10	10	5	8	10	10	216	commercial cleaning and livestock process
0110	steel making	18	26	20	16	21	35	19	29	22	24	20	23	23	21	20	16	14	16	20	13	21	23	8	468	steel making
0115	transport equipment products	8	10	9	9	15	16	8	10	9	14	3	3	4	8	8	5	8	6	3	3	7	6	8	180	transport equipment products

0117	other manufacturing	14	11	12	3	6	5	7	6		6	9	6	11	4	5	7	4	11	10	5	6	8	8	164	other manufacturing
0112	metal products	18	19	19	11	18	15	7	2	12	12	12	14	8	9	9	12	9	6	14	7	9	8	7	257	metal products
0108	chemical products	15	9	14	17	8	5	10	7	5	11	12	9	7	3	8	13	5	5	4	6	8	8	7	196	chemical products
1302	social welfare facility	2		2	3	3	2	3	6	3	2	2	10	4	9	3	9	4	2	8	3	6	4	7	97	social welfare facility
0113	machine products	5	12	8	7	15	9	8	3	7	6	3	6	4	3	3	8	8	2	4	6	1	4	5	137	machine products
1401	hotel	2	4	2	2	1	3	6	2	1	2		4		1	4	7	4	1	1	2	6	2	4	61	hotel
0114	electrical equipment products	6	6		4	5	4	1	2	1	4	1	1	4	2	2	2	2	1	2	3	4	4	3	64	electrical equipment products
1702	others	5	3	3	2	2	1	3	5	3	1	4		5	6		2	2		1	3	1	4	3	59	others
0303	other construction works	11	7	4	8	10	10	4	6	6	2	8	6	1	1	4	3	8	5	2	3	7	5	2	123	other construction works
0302	construction work	5	4	6	18	5	5	7	8	3	1	3	3	4	1	4	4	3		3	1	2	7	2	99	construction work
1301	medical treatment service	1	2	4	7	4	1	1	4	2	3	4	3	4	3	4	3	2	1	2	6	6		2	69	medical treatment service
1403	other amusement service			8	3	1		1	2	2	3	1	1	2	4		1	2	3	1	2	2		2	41	other amusement service
0105	furniture	2	7	1	3	1	3	1	2	2		2	2					1	2	2	5			2	38	furniture
0107	printing/bookbinding	1	1	1	1	1	1													1		1	2		10	printing/bookbinding
0109	sand and stone products	6	8	16	5	6	4	6	8	4	5	5	5	6	3	7	5	8	6	2	2	3	2	1	123	sand and stone products
0102	textile products	6	1	4	2	2	2	3	2	1	2	1				3	1		3	2	1	2		1	39	textile products
0801	wholesale	4	2	1	1	3	3	2	3	1	4			2		1	1	1	1	1	3	2	2	1	39	wholesale
1201	education/research service	2	2	2	2	2	1	3	2	3	1	2		2			2			1				1	28	education/research service
0601	agriculture		1	1	2					1			1					1	1			1	1	1	11	agriculture
0103	fiber products	1	1	1			1		1	1		1									1	1		1	10	fiber products
0404	other transportation service																							1	1	other transportation

010103	agricultural food products	3	6	4	2	1		4		1	1	3	6	3	3	1	2	2	3			2		1	48	agricultural food products
010909	other sand and stone products	2	3	8	2				3	2	3	1	1	3	2	3	2	2	1			2		1	41	other sand and stone products
080109	other wholesale	3	2	1	1	3	3	2	3	1	3			2		1	1	1		1	3	1	1	1	34	other wholesale
120109	other education/research service	2	2	2	2	2	1	3	2	3	1	2		2			2			1				1	28	other education/research service
010204	dyeing	5	1	2	1	1	1	2	2		1	1				3			3	1		1		1	26	dyeing
011409	other electrical equipment	3	2		2	1	2			1		1	1	2	2		2	1		2	2		1	1	26	other electrical equipment
011403	electronics equipment and telecommunications apparatus	2	2		1	4	2	1	2		2			2		1		1			1	2	1	1	25	electronics equipment and telecommunications apparatus
030203	building facility construction work			1	7		1		2						1	2		1		1		1	3	1	21	building facility construction work
030202	wooden house construction work	3		2	1	1	1		1	2			1	2			1					1	1	1	18	wooden house construction work
010809	chemical fertilizer products	2		1				1	1	1	2	1	3		1	1							1	1	16	chemical fertilizer products
011701	auto mobile servicing	6		4	1						1							2	1					1	16	auto mobile servicing
060101	agriculture		1	1	2					1			1					1	1			1	1	1	11	agriculture
010309	other fiber products	1	1	1			1		1	1		1									1	1		1	10	other fiber products
010803	pharmaceuticals							1		1				1						1	2	1	1	1	9	pharmaceuticals
011402	electrical appliance		2								1					1							1	1	6	electrical appliance
040409	other transportation service																							1	1	other transportation service
010801	non organic or organic chemical products	5	2	5	5	5	3	2	4	1	3	3	2	3		2	1	1	2	2	1	1	2		55	non organic or organic chemical products
030209	other building construction work	1	2	3	9	3	1	6	5	1		3	1	2		2	1	2		2			2		46	other building construction work
011009	other steel products	5	1	3		2	7	2	4		3		2	2	1	1	3	2		2	2		2		44	other steel products

010409	other lumber and wood products	4	4	3	4	3	1	4	2	1	2	4	1	3	2		1						42	other lumber and wood products	
010902	glass products			2	2	3	1	3	1	1	1	1	3	1	1	1		6	1	1	1	1	1	32	glass products
150101	building maintenance service	2	3		3	1	2	2	2	2	1	1	1	3	1		1	1		1	1	4	32	building maintenance service	
010401	lumbering	2	1	3	3	2		4	1	1	1	1		1			1		1	3		1	26	lumbering	
011509	other transport equipment products	2	1	1	2	2	2		4		2				3	1		1	1		1	1	24	other transport equipment products	
150109	other cleaning and livestock process service		3	4		1	1	1	1	1		3		1	2	2		1	1			1	23	other cleaning and livestock process service	
010806	rubber products	1	1	2	1	1	1			1	3	1	1			1	5			1			20	rubber products	
010402	plywood	2	1		1	2	1			1	1					2	2			1	2		16	plywood	
010804	petroleum/coal products		1		4			1		1	1			1		1	2	1			1	1	1	16	petroleum/coal products
010901	cement products	3		2		1		1	1	1						1	1		1		1	1	14	cement products	
011305	other precision machine products		2		1	1	2				2		1	1				2			1	1	14	other precision machine products	
030201	steel frame/reinforced concrete house construction work	1	2		1	1	2	1			1		1				2				1	1	14	steel frame/reinforced concrete house construction work	
010903	pottery products		1	2		1	2	2			1		1	2		1							13	pottery products	
010905	other ceramic products	1	2	2	1	1	1		1							1			1	1			12	other ceramic products	
010807	leather products	2	2	1	2	1		1							1							1	11	leather products	
010904	fire resisting products		2						2			3					2		2				11	fire resisting products	
011203	metal press products		1	1						1		2		1	1		2			1	1		11	metal press products	
030199	other civil engineering work	1	1	1		1			2		1	1		1								1	1	11	other civil engineering work
040301	general truck transportation service		1		2	1		1		1		1		1	2							1	11	general truck transportation service	
011702	machine repair	1	1	1		1		1			1	1				2						1	10	machine repair	

070101	livestock		1	1	1		1			1		1				1				9	livestock	
080409	other commerce	1	2			1	1						2			1					9	other commerce
140301	golf course			2				1		1						3			1		9	golf course
010209	other textile products			2		1		1	1								1		1		8	other textile products
010601	pulp/paper	1		1	1					1								1		3	8	pulp/paper
140302	park and amusement park			5				1					1	1							8	park and amusement park
010503	fittings		2		2					2			1								7	fittings
011401	heavy electrical equipment	1			1					1							1		2	1	7	heavy electrical equipment
030106	road construction work		1	1		1						2				1				1	7	road construction work
050101	land cargo handling service			1		1	1			1										1	7	land cargo handling service
130301	bathroom	1	1	1	1			1	1								1				7	bathroom
011501	ship building	1		1			1	2			1										6	ship building
010509	other furniture		1										1					2	1		5	other furniture
040103	airline service													1	1	2		1			5	airline service
010602	paper processing products						1		1	1											4	paper processing products
010609	other pulp/paper processing products	1	1				1		1												4	other pulp/paper processing products
011602	city gas service			1						2	1										4	city gas service
080101	all kinds of wholesale	1								1							1			1	4	all kinds of wholesale
080204	fuel retail	2				1				1											4	fuel retail
130109	other medical treatment service			2		1								1							4	other medical treatment service
150104	cremation service			1				1		1									1		4	cremation service
160101	public office					1		2	1												4	public office
010802	chemical fiber				1							1			1						3	chemical fiber
011201	western tableware/cutting tool products		1			1														1	3	western tableware/cutting tool products

011202	screw products			1												1		1		3	screw products
011303	optical instruments	1		1	1															3	optical instruments
020201	quarrying	1						1								1				3	quarrying
130102	general clinic					1	1			1										3	general clinic
170101	dispatch service		1					2												3	dispatch service
010202	cotton-spinning				1													1		2	cotton-spinning
010203	weaving	1												1						2	weaving
010709	other printing and bookbinding				1														1	2	other printing and bookbinding
011302	measuring instruments							1										1		2	measuring instruments
011609	other electric/gas/water service					1	1													2	other electric/gas/water service
030301	electricity/telecommunication work	1								1										2	electricity/telecommunication work
040201	taxi service		1															1		2	taxi service
040302	specific truck transportation service												1	1						2	specific truck transportation service
070209	other fishery	2																		2	other fishery
080202	auto mobile retail	1		1																2	auto mobile retail
080203	furniture/fittings retail				1								1							2	furniture/fittings retail
080301	haircut									1					1					2	haircut
010201	silk-reeling					1														1	silk-reeling
010808	painting products									1										1	painting products
011304	watch products		1																	1	watch products
020309	other mining					1														1	other mining
030109	land consolidation civil engineering work						1													1	land consolidation civil engineering work

