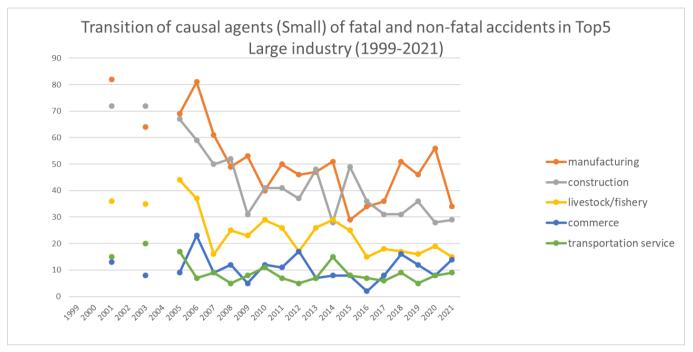
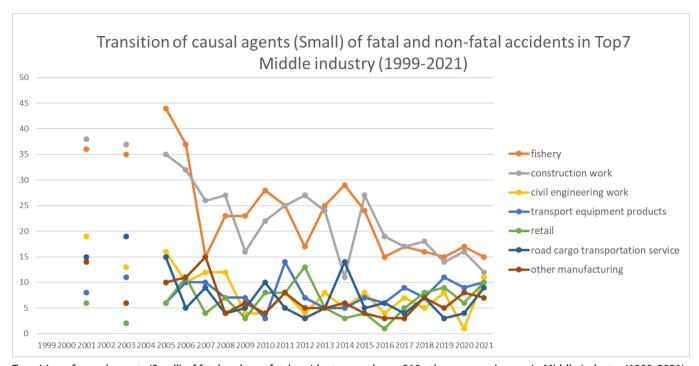
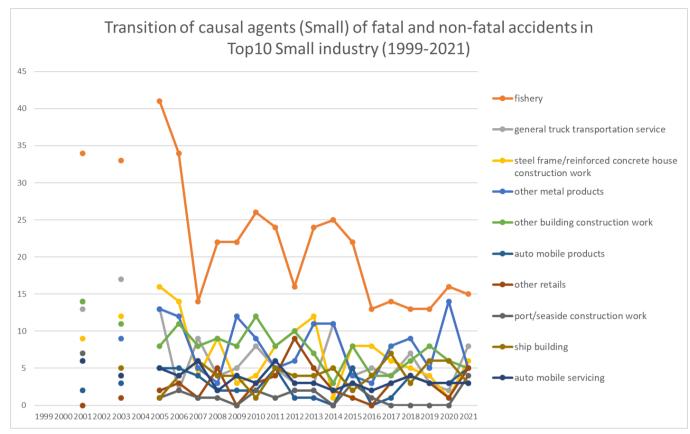
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane in Middle Industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane 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			82		64		69	81	61	49	53	40	50	46	47	51	29	34	36	51	46	56	34	979	manufacturing
03	construction			72		72		67	59	50	52	31	41	41	37	48	28	49	36	31	31	36	28	29	838	construction
07	livestock/fishery			36		35		44	37	16	25	23	29	26	17	26	29	25	15	18	17	16	19	15	468	livestock/fishery
08	commerce			13		8		9	23	9	12	5	12	11	17	7	8	8	2	8	16	12	8	14	202	commerce
04	transportation service			15		20		17	7	9	5	8	11	7	5	7	15	8	7	6	9	5	8	9	178	transportation service
05	cargo handling service			4		1		3	2	2	1	1	3	1	1	2	3	1	3	1	1	2		4	36	cargo handling service
15	commercial cleaning and			4		1		6	2	4	1	8	2	2	2	2	2	6	Q		Ω	5		2	68	commercial cleaning and
	livestock process			T									_													livestock process

02	mining		8		1		1	1	1	2			1			1	2			2	2	22	mining
06	agriculture		6	7	12	7	4	14	8	11	8	8	8	5	3	3	1	4	3	1	1	114	agriculture
17	others		2	8	3	1	4	3	3	4	2	5	2	1	3	2	1	3	3	2	1	53	others
14	hotel/restaurant/amusement		2	9	2	3	5	1	1	1	2	4	2	1	3	3	2	2	1	5	1	52	hotel/restaurant/amusement
	service									ľ				<u> </u>							<u> </u>		service
13	health and hygiene service			4	1	2	1	2	1		3	2		1	1	2	1	1	2	1	1	26	health and hygiene service
12	education/research service								1		1	1		1							1	5	education/research service
11	telecommunication service							1		1						1					1	4	telecommunication service
10	movie/play service		1			1		2			1					1	1		1			8	movie/play service
09	financial		1							1			2										financial
09	business/advertisement		•																			4	business/advertisement
16	public office								1													1	public office
	total		246	229	234	226	166	169	145	158	156	146	155	145	136	118	108	143	132	130	116	3,058	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane 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
0702	fishery			36		35		44	37	15	23	23	28	25	17	25	29	24	15	17	16	15	17	15	456	fishery
0302	construction work			38		37		35	32	26	27	16	22	25	27	24	11	27	19	17	18	14	16	12	443	construction work
0301	civil engineering work			19		13		16	10	12	12	4	4	8	4	8	5	8	4	7	5	8	1	11	159	civil engineering work
0115	transport equipment products			8		11		6	10	10	7	7	3	14	7	5	5	7	6	9	7	11	9	10	152	transport equipment products
0802	retail			6		2		6	11	4	7	3	8	8	13	5	3	4	1	5	8	9	6	10	119	retail
0403	road cargo transportation service			15		19		15	5	9	4	5	10	5	3	5	14	5	6	4	7	3	4	9	147	road cargo transportation service
0117	other manufacturing			14		6		10	11	15	4	6	4	8	5	5	6	4	3	3	7	5	8	7	131	other manufacturing
																										other construction

0303	other construction works		15	22	16	17	12	13	11	15	8	6	16	12	14	13	7	8	14	11	6	236	works
0112	metal products		15	10	14	13	8	4	14	9	6	6	11	13	4	5	9	10	7	18	5	181	metal products
1501	commercial cleaning and livestock process		4	1	6	3	4	1	8	2	2	3	2	2	6	8		8	5		3	68	commercial cleaning
0801	wholesale		5	3	2	7	3	4	2	2	1	2	1	3	3	1		4	3	1	3	50	wholesale
0101	food products		8	11	8	8	4	4	5	2	5	6	2	11	3	2	1	4	4	5	2	95	food products
0113	machine products		6	2	10	10	4	6	5	6	4	5	6	5	1	7	2	8	3	2	2	94	machine products
0109	sand and stone products		16	8	3	6	5	9	3	5	3	6	5	5	1	2	2	3	4	5	2	93	sand and stone products
0110	steel making		4	3	5	7	6	3	2	2	2	1	3	1	5	1	3	5	6	1	2	62	steel making
0502	harbor transportation service		2	1	2	1		1	1	1	1		2	3		1	1	1			2	20	harbor transportation
0202	quarrying		6		1		1	1	1	1			1			1	2			2	2	19	quarrying
0501	land cargo handling service		2		1	1	2			2		1			1	2			2		2	16	land cargo handling
0602	forestry		5	6	11	7	3	12	7	11	8	8	6	5	3	3		4	2		1	102	forestry
1702	others		2	8	3	1	4	3	3	4	2	5	2	1	3	2	1	3	3	1	1	52	others
0108	chemical products		1		2	4	1	5	3	4	2	2	2	1		2	2	4	1	3	1	40	chemical products
0804	other commerce		2	3	1	5	2	1		2	2	2	1	2	1		3	4		1	1	33	other commerce
0111	nonferrous metal making			2	3	2	1		2	1	1	1	2	1	2	1			1		1	21	nonferrous metal making
1302	social welfare facility			4	1	2		1			3	2		1	1	1	1	1	2		1	21	social welfare facili
0107	printing/bookbinding			1			1		1	2	1		1	1	1					2	1	12	printing/bookbindi
1401	hotel			1		1						1	1							1	1	6	hotel
1201	education/research service								1		1	1		1							1	5	education/research
																							electric/gas/water

0116	electric/gas/water service					3															1	4	service
1101	telecommunication service							1		1						1					1	4	telecommunication service
1403	other amusement service		2	7	2	2	4	1	1	1	3	2	2	1	3	3	2	2		4		42	other amusement service
0104	wood products		2	1	2	4	1	2	1	1	1	3	1				3		2			24	wood products
0106	pulp/paper processing products		3	3	1	1		1	2	1		1	3	1		3				2		22	pulp/paper processing products
0114	electrical equipment products		3	1	3	1	2	2	1			3	1	1	1	1		1	1			22	electrical equipment products
0401	railroad/water transportation/airline service			1	1	1			2	1	2	2	2	1		1	2	1	2	2			railroad/water transportation/airline service
0102	textile products		1	1	1		2	2			1					1	1	2		1		13	textile products
0601	agriculture		1	1	1		1	2	1				2				1		1	1		12	agriculture
0701	livestock						1	2		1	1		1		1		1	1	1	2		12	livestock
0105	furniture		1	3	1		1		1		2						1		1			11	furniture
0402	road passenger transport service					1		1	1						3			1		1		8	road passenger transport service
1001	movie/play service		1			1		2			1					1	1		1			8	movie/play service
1301	medical treatment service						1	1	1							1				1		5	medical treatment service
1402	restaurant			1			1					1							1			4	restaurant
0901	financial business		1							1			1									3	financial business
0103	fiber products			1		1																2	fiber products
0201	coal mining		2																			2	coal mining
																							other transportation

0404	other transportation service				1															1		2	service
0203	other mining									1												1	other mining
0902	advertisement and mediator												1									1	advertisement and mediator
1601	public office								1													1	public office
1701	dispatch service																			1		1	dispatch service
0803	haircut/beauty salon																						haircut/beauty salon
1303	other health and hygiene service																						other health and hygiene service
	total		246	229	234	226	166	169	145	158	156	146	155	145	136	118	108	143	132	130	116	3,058	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane in Small industry (1999-2021)

code	Small 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	Small industry
070201	fishery			34		33		41	34	14	22	22	26	24	16	24	25	22	13	14	13	13	16	15	421	fishery
040301	general truck transportation service			13		17		13	2	9	4	5	8	5	3	3	11	4	5	4	7	3	2	8	126	general truck transportation service
	steel frame/reinforced concrete house construction work			9		12		16	14	4	9	3	4	8	10	12	1	8	8	6	5	4	1	6	140	steel frame/reinforced concrete house construction work
011209	other metal products			14		9		13	12	5	3	12	9	5	6	11	11	4	3	8	9	5	14	5	158	other metal products
030209	other building construction work			14		11		8	11	8	9	8	12	8	10	7	3	8	4	4	6	8	6	5	150	other building construction work
011502	auto mobile products			2		3		5	5	4	2	2	2	5	1	1		5		1	4	3	3	5	53	auto mobile products
080209	other retails					1		2	3	1	5		3	4	9	5	2	1		3	4	3	1	5	52	other retails
030111	port/seaside construction work			7		4		1	2	1	1		2	1	2	2		3	1					4	31	port/seaside construction work

011501	ship building		6	5	1	4	6	4	4	1	5	4	4	5	2	4	7	3	6	6	3	80	ship building
011701	auto mobile servicing		6	4	5	4	6	2	4	3	6	3	3	2	3	2	3	4	3	3	3	69	auto mobile servicing
030309	other construction works		3	5	5	4	6	5	2	2	2	2	5	1	2	3	3	1	8	7	3	69	other construction works
011301	machine products		6	2	8	9	4	5	5	5	3	4	4	4	1	7	2	8	3	2	2	84	machine products
030301	electricity/telecommunication work		7	8	4	6	2	3	7	7		2	5	8	4	3	1	4	3	2	2	78	electricity/telecommunication work
030199	other civil engineering work		4	5	9	2	7	3	2		3		3	1		1	2	4	3	1	2	52	other civil engineering work
080109	other wholesale		3	3	2	7	3	4	2	2	1	2	1	3	3	1		4	3	1	2	47	other wholesale
080202	auto mobile retail		2	1	1	3	1	1		4	2	1		1	2		1	4	5	3	2	34	auto mobile retail
011702	machine repair		4	1	4	4	4	1	1			1	2	1	1				1	1	2	28	machine repair
010909	other sand and stone products		4		1		1	1	1	2	3	2		1	1		1	1			2	21	other sand and stone products
150102	industrial waste management service		1		3		3		1	1			1	1	2	4		2			2	21	industrial waste management service
010102	fishery products			3	2	1	1	1	1		1	2		2				1	2	1	2	20	fishery products
011509	other transport equipment products			3				1	1		4	1				2	1		1		2	16	other transport equipment products
050101	land cargo handling service		2		1	1	2			2		1			1	2			2		2	16	land cargo handling service
011001	steel/iron/rolling products		2	2	3		1	1			1				1			1	1		2	15	steel/iron/rolling products
011703	cleaning		1				1				1								1		2	6	cleaning
030109	land consolidation civil engineering work				1			1						1		1					2	6	land consolidation civil
030302	machinery/apparatus setting work		5	9	7	7	4	5	2	6	6	2	6	3	8	7	3	3	3	2	1	89	machinery/apparatus setting work
060201	lumbering		5	6	8	5	3	10	4	10	5	7	4	3	2	2		4	2		1	81	lumbering
170209	others		2	8	3	1	4	3	2	2	2	4	2	1	3	1	1	3	3	1	1	47	others
030203	building facility construction		3	4	4	1	2	4	2	3	2	2	2		3	2	2	4		2	1	43	building facility construction

	work																								work
150101	building maintenance service						2	2	1	1	6		2	2	1	1	3	1		2	4		1	29	building maintenance service
130201	social welfare facility				4		1	2		1			3	2		1	1	1	1	1	2		1	21	social welfare facility
080204	fuel retail						2	2	1	1	1	1	1	1			1		1		1	2	1	16	fuel retail
050202	port cargo handling service		2		1		2	1		1		1	1		2	3							1	15	port cargo handling service
030106	road construction work		2		2		2	2		1	2						1			1			1	14	road construction work
080201	all kinds of retail		3				1	2	1		2		1	2				1					1	14	all kinds of retail
010701	printing service				1				1		1	2	1		1	1	1					2	1	12	printing service
040302	specific truck transportation service		2		1		2	2							1	2		1					1	12	specific truck transportation service
011102	nonferrous metals casting products				1		1	1	1		1				1	1	1	1			1		1	11	nonferrous metals casting products
020201	quarrying		3				1			1		1			1				2				1	10	quarrying
030104	railway construction work							2				1	1		1	1	1		1				1	9	railway construction work
020202	gravel digging		2						1		1							1				2	1	8	gravel digging
080401	warehousing				1			2							1	1				1			1	7	warehousing
030107	river civil engineering work									1		1					1		2				1	6	river civil engineering work
140101	hotel				1			1						1	1							1	1	6	hotel
010801	non organic or organic chemical products							1			1	1							1				1	5	non organic or organic chemical products
120109	other education/research service										1		1	1		1							1	5	other education/research service
011603	city water service							3															1	4	city water service
050209	other harbor transportation service																	1	1	1			1	4	other harbor transportation service
110101	telecommunication service									1		1						1					1	4	telecommunication service
080101	all kinds of wholesale		1																				1	2	all kinds of wholesale
- 11	II TOTAL TOT			11	H	11	11	11	11	11	11		1	11	11	11	11	11	11	11	11		11	11	11

080203	furniture/fittings retail																				1	1	furniture/fittings retail
030202	wooden house construction work		12	10	7	6	12	5	3	3	7	5	3	7	8	5	5	3	2	7		110	wooden house construction work
010901	cement products		11	4	2	6	3	7	2	3		4	3	4		2		1	3	5		60	cement products
010109	other foods		4	2	4	2	3	2	1		2	2		8	2	1	1	1	1	2		38	other foods
011002	casting products		2	1	1	6	3	2	2	2	1		2		4	1	1	3	3	1		35	casting products
070209	other fishery		2	2	3	3	1	1	1	2	1	1	1	4	2	2	3	3	2	1		35	other fishery
140309	other amusement service		2	7	1	2	2	1	1	1	2	1	1	1	3	2	2	1		4		34	other amusement service
011709	other manufacturing		3	1	1	3	4	1	1	1	1	1		3		1		3		4		28	other manufacturing
080409	other commerce		2	2	1	3	2	1		2	2	2		1	1		3	3		1		26	other commerce
060209	other forestry				3	2		2	3	1	3	1	2	2	1	1						21	other forestry
011204	metal plating products		1	1	1	1	2	1						1		2	1	1	2	4		18	metal plating products
010805	plastics products		1		1	1		1		2	2		2			2		3		1		16	plastics products
010101	meat/dairy products		2	3	1	2			1	1	2	1	1					1				15	meat/dairy products
011409	other electrical equipment		1		2	1	2	1	1			2	1			1		1				13	other electrical equipment
030110	water supply/sewage construction work		2	1	1		2	1					2	1	1		1		1			13	water supply/sewage construction work
040102	water transportation service				1	1			1	1		2	1	1		1	1	1	1	1		13	water transportation service
010401	lumbering				1	1	1	2	1	1	1	1					1		2			12	lumbering
010602	paper processing products			2				1	1	1		1	2	1		2				1		12	paper processing products
011009	other steel products				1	1	2					1	1	1			2	1	2			12	other steel products
060101	agriculture		1	1	1		1	2	1				2				1		1	1		12	agriculture
070101	livestock						1	2		1	1		1		1		1	1	1	2		12	livestock
010104	bread/cake products		2	1		1		1		1					1	1		1	1	1		11	bread/cake products
030105	bridge construction work		3		1			3				2		1	1							11	bridge construction work
011305	other precision machine products				2	1		1		1	1	1	2	1								10	other precision machine

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010409	other lumber and wood products		1		1	1	3							1				2					9	other lumber and wood products
010601	pulp/paper		3				1			1				1			1				1		8	pulp/paper
040101	railroad service				1					1		2		1				1		1	1		8	railroad service
040309	other land cargo transportation service				1		1				1			1	1	1					2		8	other land cargo transportation service
010106	soft drinks						2			2			1	1							1		7	soft drinks
100109	other movie/play service		1				1		2								1	1		1			7	other movie/play service
150105	livestock process service		1								1						2		2	1			7	livestock process service
010209	other textile products				1	1		1											2		1		6	other textile products
010501	wood furniture		1		2							1						1		1			6	wood furniture
010806	rubber products								2	1	1							1			1		6	rubber products
010899	other chemical products						1		1	1			2		1								6	other chemical products
011109	other nonferrous metal products					2	1			1	1		1										6	other nonferrous metal products
030102	tunnel construction work		1		1	1			1			1								1			6	tunnel construction work
040201	taxi service						1		1	1						1			1		1		6	taxi service
150103	other waste disposal service				1	1	1			1						1	1						6	other waste disposal service
010902	glass products								1					2					1	1			5	glass products
	electronics equipment and telecommunications apparatus		1		1				1						1					1			5	electronics equipment and telecommunications apparatus
030108	sand collapse prevention civil engineering work						1	1				1					1	1					5	sand collapse prevention civil engineering work
140301	golf course					1		1				1	1						1				5	golf course
150109	other cleaning and livestock process service		2										1						2				5	other cleaning and livestock process service

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170201	security service										1	2		1				1					5	security service
010204	dyeing		1										1					1	1				4	dyeing
010905	other ceramic products				4																		4	other ceramic products
011101	nonferrous metals/rolling products				1								1		1		1						4	nonferrous metals/rolling products
030101	hydroelectric plant construction work												1								3		4	hydroelectric plant construction work
140201	general restaurant				1				1					1							1		4	general restaurant
010103	agricultural food products				1		1									1							3	agricultural food products
010402	plywood		1											2									3	plywood
011201	western tableware/cutting tool products								1		1		1										3	western tableware/cutting tool products
011402	electrical appliance		1											1			1						3	electrical appliance
011503	railway vehicle products							1						1							1		3	railway vehicle products
130101	hospital									1	1							1					3	hospital
140302	park and amusement park								1						1			1					3	park and amusement park
010203	weaving								1	1													2	weaving
010309	other fiber products				1			1															2	other fiber products
010503	fittings								1		1												2	fittings
010509	other furniture				1								1										2	other furniture
010609	other pulp/paper processing products				1		1																2	other pulp/paper processing products
010803	pharmaceuticals							1													1		2	pharmaceuticals
010804	petroleum/coal products								1											1			2	petroleum/coal products
010808	painting products						1			1													2	painting products
010903	pottery products								1										1				2	pottery products

011203	metal press products								1				1					2	metal press products
020101	general coal mining		2															2	general coal mining
030103	subway construction work					1	1											2	subway construction work
040202	bus service													2				2	bus service
040409	other transportation service				1												1	2	other transportation service
080205	newspaper retail		1			1												2	newspaper retail
090103	insurance business		1							1								2	insurance business
010105	alcoholic drinks			1														1	alcoholic drinks
010202	cotton-spinning							1										1	cotton-spinning
010502	metal furniture				1													1	metal furniture
010809	chemical fertilizer products																1	1	chemical fertilizer products
010904	fire resisting products		1															1	fire resisting products
011401	heavy electrical equipment				1													1	heavy electrical equipment
020209	other quarrying		1															1	other quarrying
020309	other mining									1								1	other mining
040303	cargo/ light automobile									1								1	cargo/ light automobile
040303	transportation service																	<u>'</u>	transportation service
050201	general harbor transportation								1									1	general harbor transportation
	service								1	1									service
080102	furniture/fittings wholesale		1															1	furniture/fittings wholesale
090101	banking/trust business											1						1	banking/trust business
090201	traveling service											1						1	traveling service
100101	movie production and										1							1	movie production and
	delivery service																		delivery service
130102	general clinic																1	1	general clinic
130109	other medical treatment						1											1	other medical treatment
	service																		service

160101	public office					1							1	public office
170101	dispatch service										1		1	dispatch service
010201	silk-reeling													silk-reeling
010301	over/under wear													over/under wear
010702	bookbinding													bookbinding
010709	other printing and bookbinding													other printing and bookbinding
010802	chemical fiber													chemical fiber
010807	leather products													leather products
011202	screw products													screw products
011302	measuring instruments													measuring instruments
011303	optical instruments													optical instruments
011304	watch products													watch products
011601	electric utility service													electric utility service
011602	city gas service													city gas service
011609	other electric/gas/water service													other electric/gas/water service
011704	tobacco products													tobacco products
020109	other coal mining													other coal mining
020301	metal mining													metal mining
020302	petroleum mining													petroleum mining
040103	airline service													airline service
040209	other passenger transport													other passenger transport
080301	haircut													haircut
080302	beauty salon													beauty salon
								j						

090102	stock/commodity trade																						stock/commodity trade
	business																						business
090109	other financial business																						other financial business
090209	other advertisement and																						other advertisement and
090209	mediator																						mediator
100102	movie theatre																						movie theatre
120101	auto mobile practical training																						auto mobile practical training
120102	software service																						software service
130301	bathhouse																						bathhouse
130309	other health and hygiene																						other health and hygiene
130309	service																						service
140209	other restaurants																						other restaurants
150104	cremation service																						cremation service
170202	information processing																						information processing
170202	service																						service
	total		246	229	234	226	166	169	145	158	156	146	155	145	136	118	108	143	132	130	116	3,058	total

Data source: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm (MHLW, Japan)

https://www.jisha.or.jp/english/statistics/202212_03.html