

Number of accidents and Train\*Km

Year	Type of accident						Total	Train*Km (MLN)
	Collisions	Derailments	Level crossing accidents	Accidents to persons caused by RS in motion	Fires in RS	Others		
2006								
2007	7	3	51	60	1	1	123	153
2008	5	2	53	72	1	0	133	175
2009	5	3	42	62	1	0	113	163
2010	3	3	57	61	0	1	125	160
2011								
2012								
2013								
2014								
2015								

Number of accidents/Train\*Km

Year	Type of accident						Total
	Collisions	Derailments	Level crossing accidents	Accidents to persons caused by RS in motion	Fires in RS	Others	
2006							
2007	4,58E-02	1,96E-02	3,34E-01	3,92E-01	6,54E-03	6,54E-03	8,04E-01
2008	3,66E-02	1,53E-02	3,17E-01	4,03E-01	6,10E-03	3,05E-03	7,81E-01
2009	3,46E-02	1,63E-02	2,97E-01	3,95E-01	6,11E-03	2,04E-03	7,52E-01
2010	3,07E-02	1,69E-02	3,12E-01	3,92E-01	4,61E-03	3,07E-03	7,59E-01
2011							
2012							
2013							
2014							
2015							

N° of fatalities, Train\*Km and Passenger\*Km

Year	Category of persons						Passenger r*Km (BLN)	Train*Km (MLN)
	Passengers	Employees	Level crossing users	Unauthorised persons	Others	Total		
2006								
2007	0	1	23	1	0	25	7	153
2008	13	4	24	3	0	44	7	175
2009	1	0	21	4	0	26	7	163
2010	2	5	34	6	1	48	7	160
2011								
2012								
2013								
2014								
2015								

N° of fatalities/Train\*Km and Passenger\*Km

Year	Category of persons						Total
	Passengers	Passengers	Employees	Level crossing users	Unauthorised persons	Others	
2006							
2007	0,00E+00	0,00E+00	6,54E-03	1,50E-01	6,54E-03	0,00E+00	1,64E-01
2008	3,97E-02	9,58E-01	1,53E-02	1,43E-01	1,22E-02	0,00E+00	2,10E-01
2009	2,85E-02	6,81E-01	1,02E-02	1,39E-01	1,63E-02	0,00E+00	1,94E-01
2010	2,46E-02	5,90E-01	1,54E-02	1,57E-01	2,15E-02	1,54E-03	2,20E-01
2011							
2012							
2013							
2014							
2015							

N° of injuries, Train\*Km and Passenger\*Km

Year	Category of persons						Passenger r*Km (BLN)	Train*Km (MLN)
	Passengers	Employees	Level crossing users	Unauthorised persons	Others	Total		
2006								
2007	18	0	41	43	0	102	7	153
2008	40	4	42	52	1	139	7	175
2009	9	2	33	48	0	92	7	163
2010	14	3	45	45	0	107	7	160
2011								
2012								
2013								
2014								
2015								

N° of injuries/Train\*Km and Passenger\*Km

Year	Category of persons						Total
	Passengers	Passengers	Employees	Level crossing users	Unauthorised persons	Others	
2006							
2007	1,18E-01	2,61E+00	0,00E+00	2,68E-01	2,81E-01	0,00E+00	6,67E-01
2008	1,77E-01	4,28E+00	1,22E-02	2,53E-01	2,90E-01	3,05E-03	7,35E-01
2009	1,36E-01	3,26E+00	1,22E-02	2,36E-01	2,91E-01	2,04E-03	6,78E-01
2010	1,24E-01	2,99E+00	1,38E-02	2,47E-01	2,89E-01	1,54E-03	6,76E-01
2011							
2012							
2013							
2014							
2015							

Number of precursors and Train\*Km

Year	Type of accident						Total	Train*Km (MLN)
	Number of broken rails	Number of wrong-side track buckles	Number of wrong-side signalling failures	Number of signals passed at danger	Number of broken wheels on rolling stock in service	Number of broken axles on rolling stock in service		
2006								
2007	21	0	0	26	0	0	47	153
2008	4	0	0	26	0	0	30	175
2009	15	0	0	39	1	0	55	163
2010	5	0	0	78	2	1	86	160
2011								
2012								
2013								
2014								
2015								

Number of precursors/Train\*Km

Year	Type of accident						Total
	Number of broken rails	Number of track buckles	Number of wrong-side signalling failures	Number of signals passed at danger	Number of broken wheels on rolling stock in service	Number of broken axles on rolling stock in service	
2006							
2007	1,37E-01	0,00E+00	0,00E+00	1,70E-01	0,00E+00	0,00E+00	3,07E-01
2008	7,63E-02	0,00E+00	0,00E+00	1,59E-01	0,00E+00	0,00E+00	2,35E-01
2009	8,15E-02	0,00E+00	0,00E+00	1,85E-01	2,04E-03	0,00E+00	2,69E-01
2010	6,91E-02	0,00E+00	0,00E+00	2,60E-01	4,61E-03	1,54E-03	3,35E-01
2011							
2012							
2013							
2014							
2015							

Cost of all accidents, safety hours

Year	Type of accident						Total	Train*Km (MLN)
	Costs of deaths in MLN €	Costs of injuries in MLN €	Costs of replacement or repair of damaged rolling stock and railway installations in MLN €	Costs of delays, disturbances and re-routing of traffic, including extra costs for staff and loss of future revenue in MLN €	Total costs in MLN €	Total number of working hours of staff and contractor s lost as a consequence of accidents		
2006								
2007	0	0	4	0	4		87822	153
2008	1	0	9	0	10		91000	175
2009	0	0	0	0	0		95000	163
2010			7	0				160
2011								
2012								
2013								
2014								
2015								

Cost of all accidents, safety hours: indicators

Year	Type of accident					
	Costs of deaths in MLN €	Costs of injuries in MLN €	Costs of replacement or repair of damaged rolling stock and railway installations in MLN €	Costs of delays, disturbances and re-routing of traffic, including extra costs for staff and loss of future revenue in MLN €	Total costs in MLN €	N° of working hours (MLN) of staff and contractors lost as a consequence of accidents/N° of working hours (MLN) of staff and contractors
2006						
2007	8,26E-05	4,06E-05	2,44E-02	6,61E-04	#REF!	
2008	1,63E-03	3,22E-04	4,01E-02	4,53E-04	4,25E-02	
2009	1,15E-03	3,80E-04	2,71E-02	3,03E-04	2,90E-02	
2010			3,07E-02	4,31E-04		
2011						
2012						
2013						
2014						
2015						

Technical safety of infrastructure and its implementation, management of safety

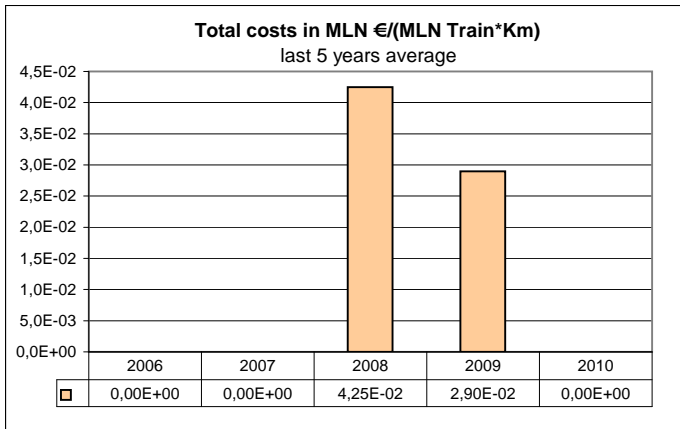
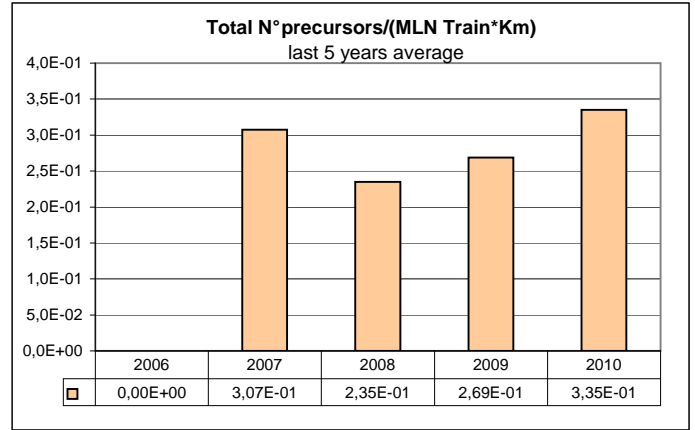
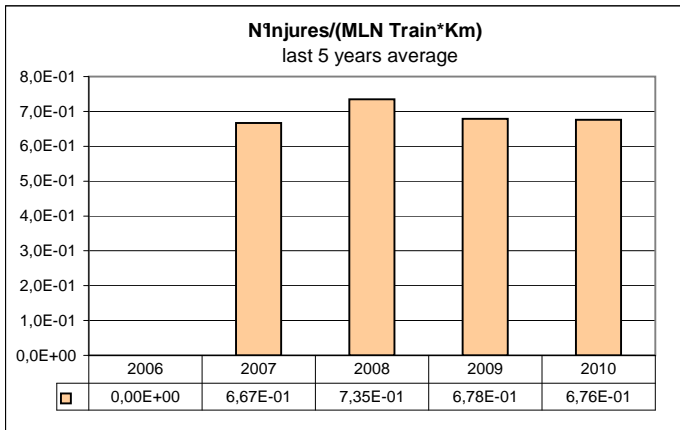
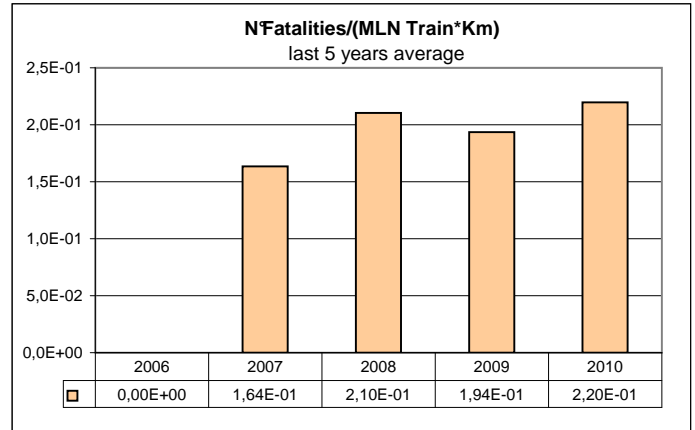
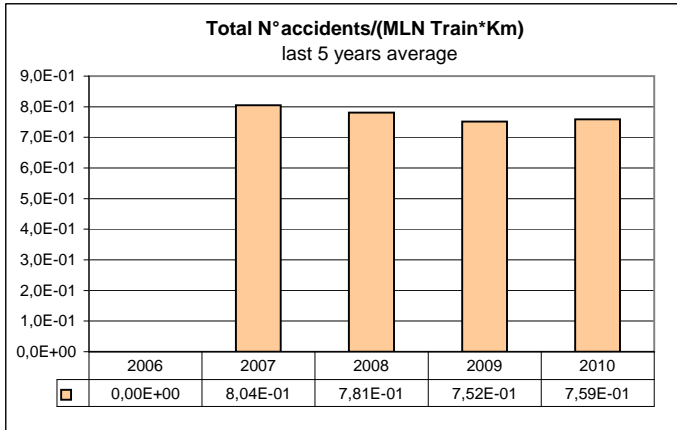
Year	Type of accident						
	Percentage of tracks with Automatic Train Protection (ATP) in operation	Percentage of Train*Km using operational ATP systems	Total number of level crossings	Number of track Km (double track lines are to be counted twice)	Total number of level crossings per track Km	Percentage of level crossings with automatic or manual protection	N° of audits accomplished / N° of audits required (and/or planned)
2006							
2007	17,00%		8628	11554	7,47E-01		134,00%
2008	17,00%		8551	11554	7,40E-01		100,00%
2009	17,00%		8523	11554	7,38E-01	43,84%	100,00%
2010	0,00%		8491	11554	7,35E-01	44,97%	97,00%
2011							
2012							
2013							
2014							
2015							

Technical safety of infrastructure and its implementation, management of safety

Year	Type of accident						
	Percentage of tracks with Automatic Train Protection (ATP) in operation	Percentage of Train*Km using operational ATP systems	Total number of level crossings	Number of track Km (double track lines are to be counted twice)	Total number of level crossings per track Km	Percentage of level crossings with automatic or manual protection	N° of audits accomplished / N° of audits required (and/or planned)
2006							
2007	17,00%		8628	11554	7,47E-01		134,00%
2008	17,00%		8590	11554	7,44E-01		117,00%
2009	17,00%		8567	11554	7,42E-01	43,84%	111,33%
2010	12,75%		8548	11554	7,40E-01	44,41%	107,75%
2011							
2012							
2013							
2014							
2015							

# C.1. CSIs data

Performances at a glance



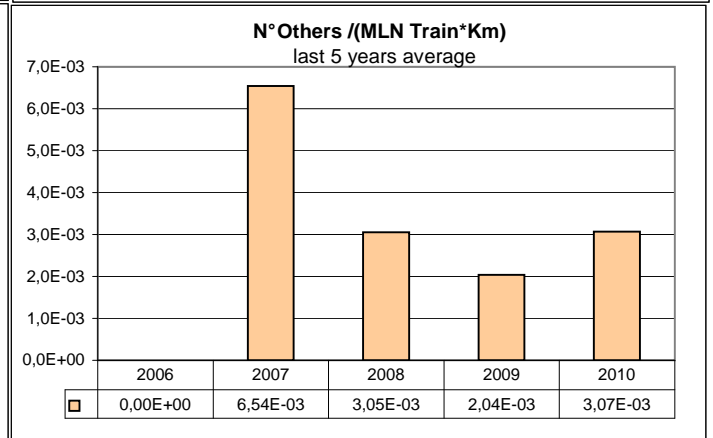
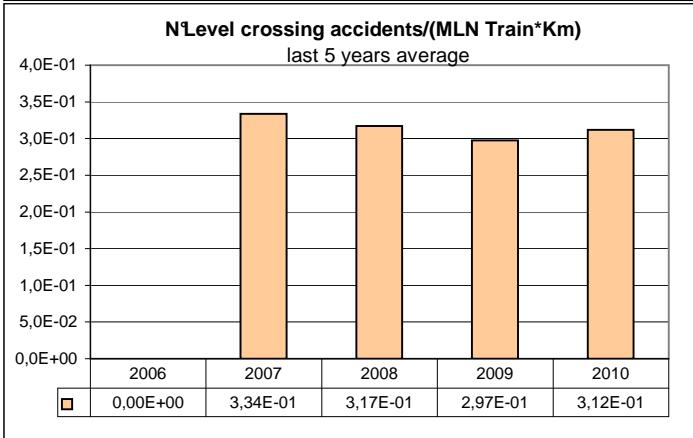
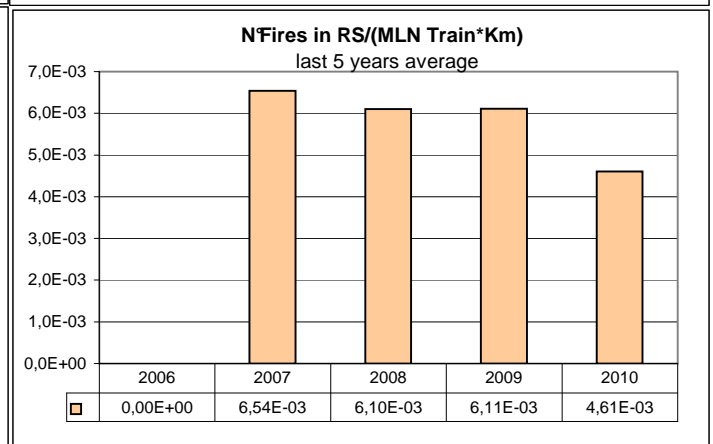
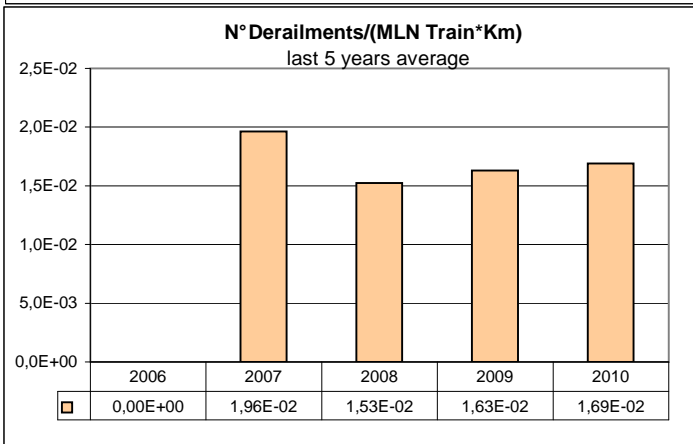
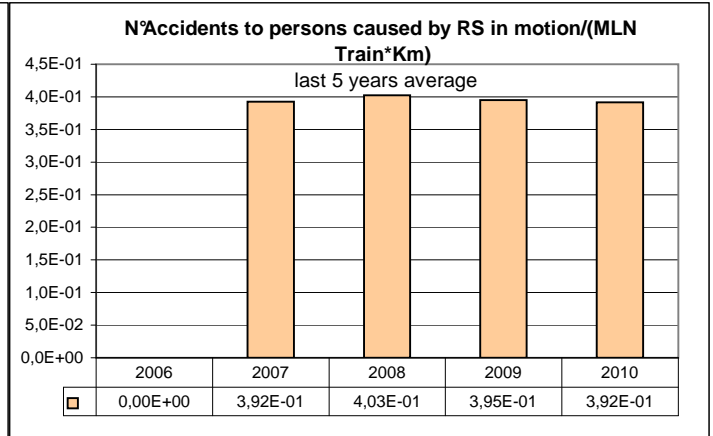
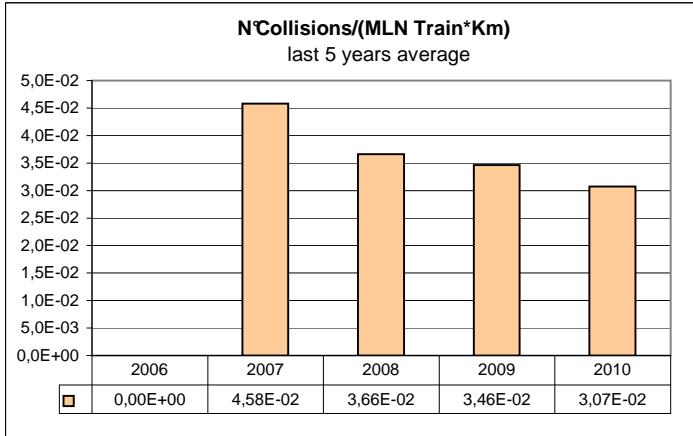
2007 report: values related to 2006.

2008 report: values related to the average between 2006 and 2007.

2008 report: values related to the average among 2006, 2007 and 2008.

2009 report: values related to the average among 2006, 2007, 2008 and 2009.

Accidents divided by type



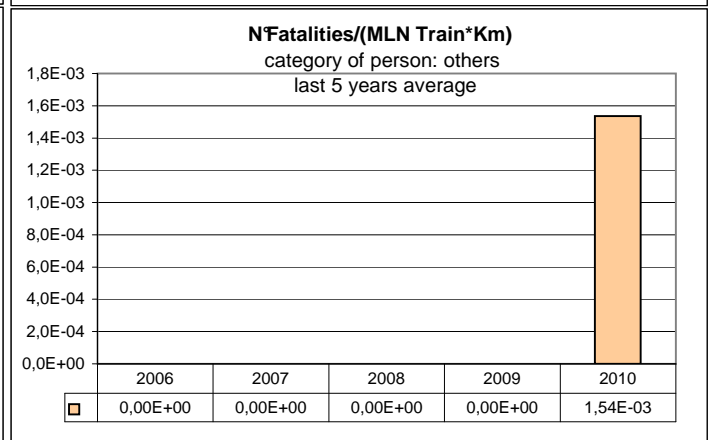
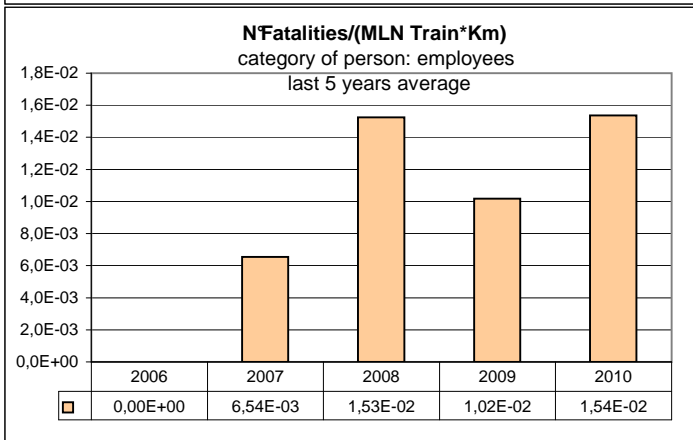
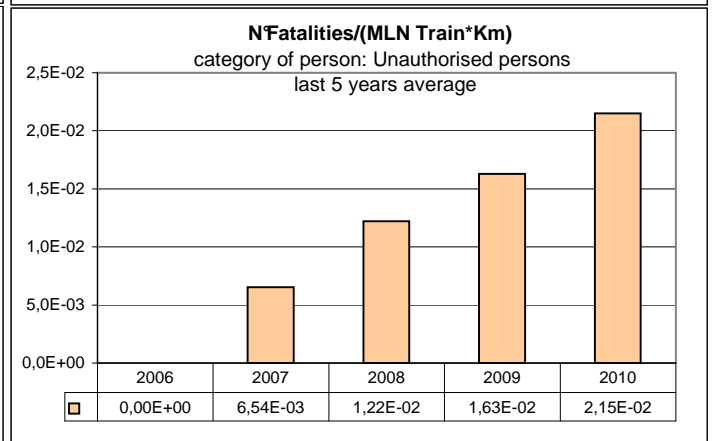
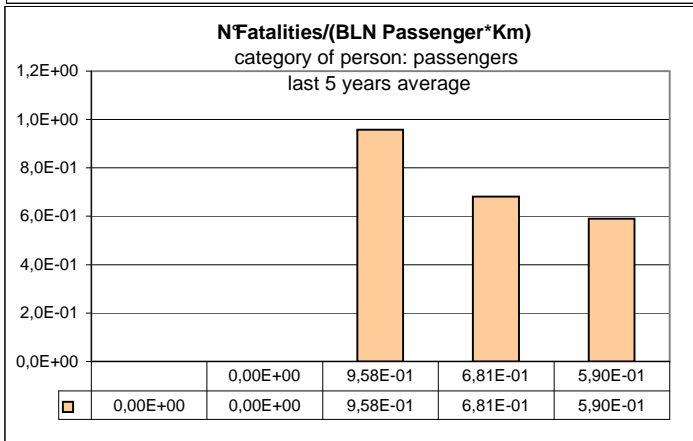
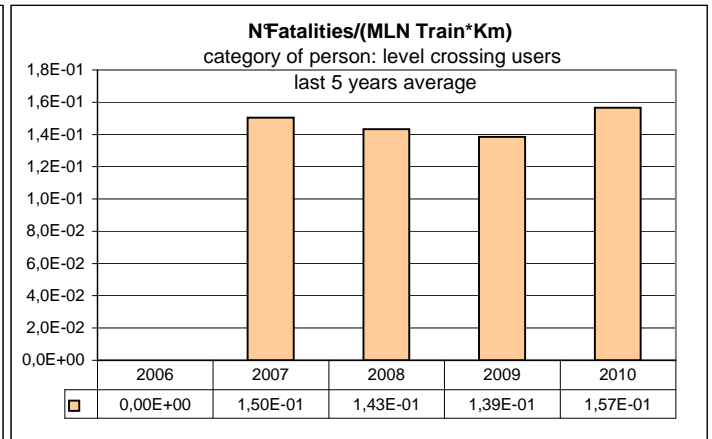
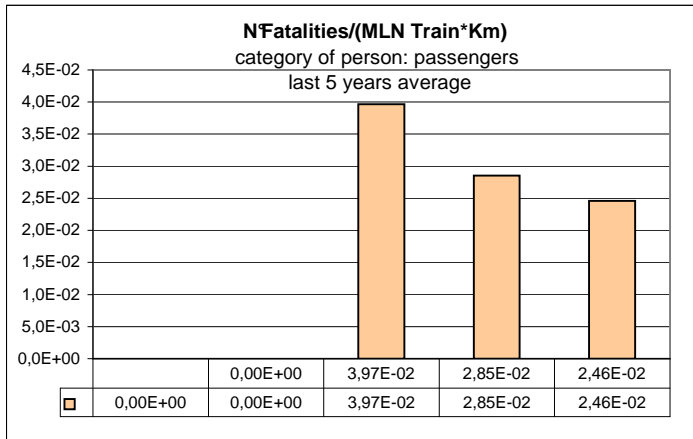
2007 report: values related to 2006.

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Fatalities divided by category of people involved



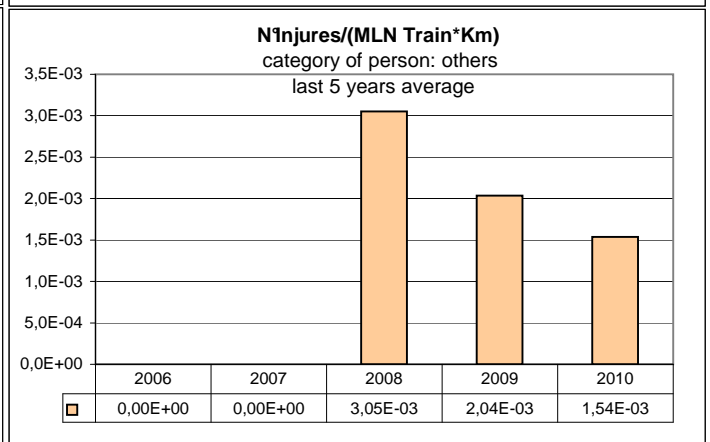
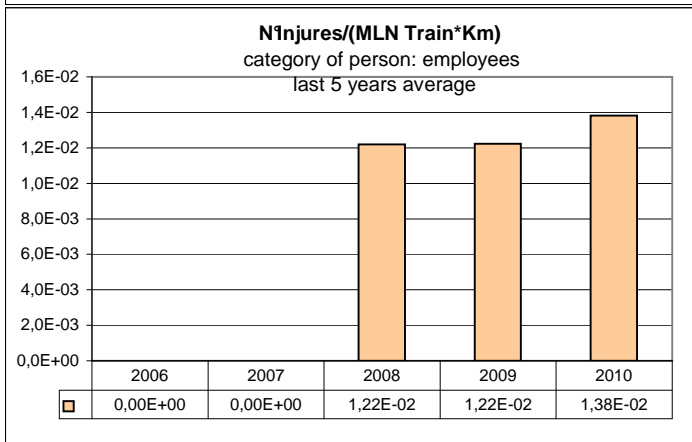
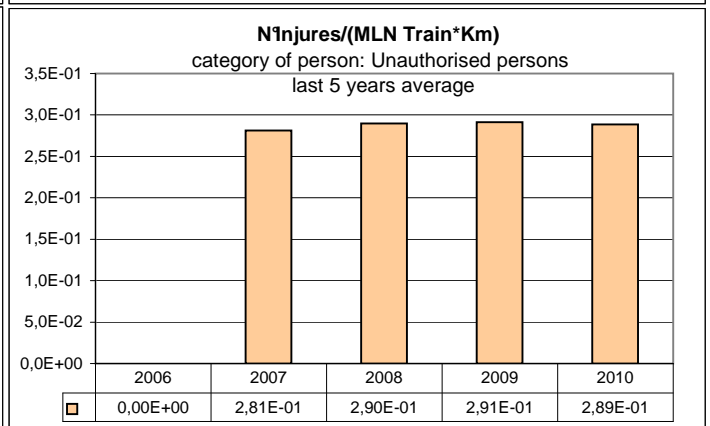
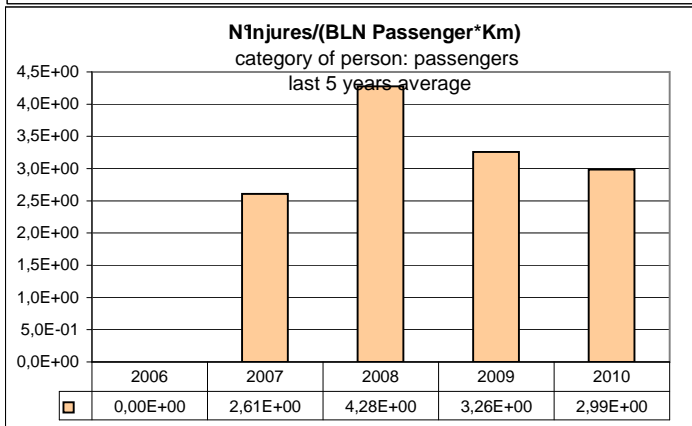
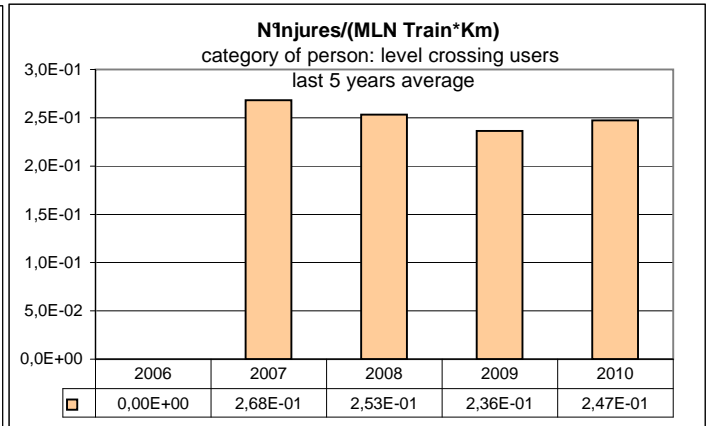
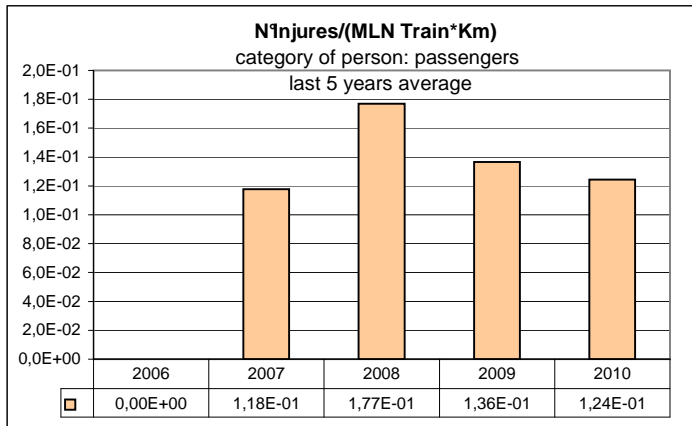
2007 report: values related to 2006.

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Injures divided by category of people involved



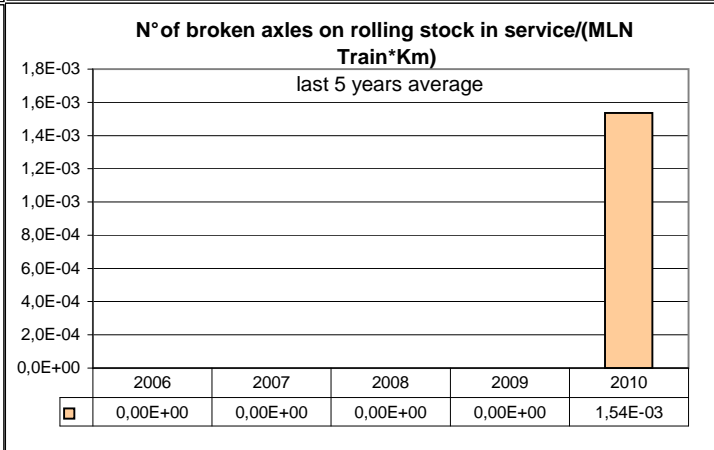
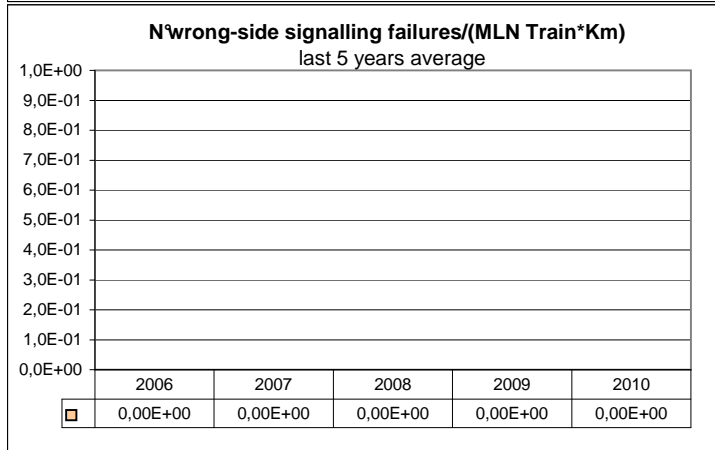
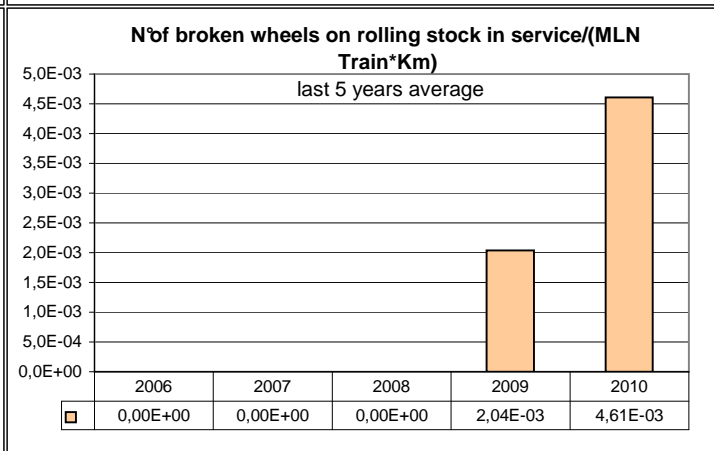
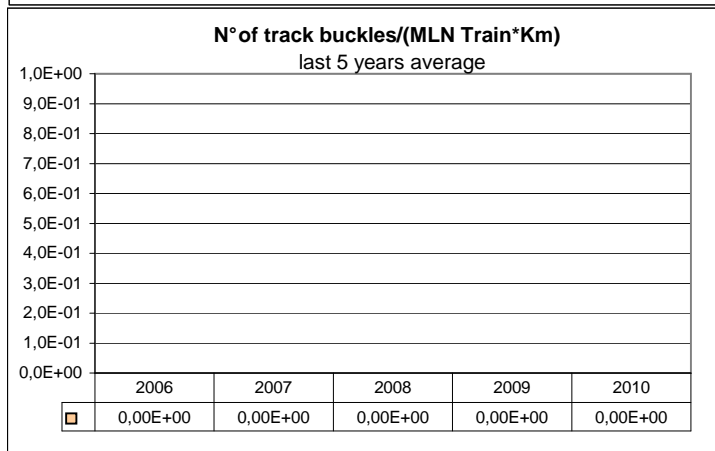
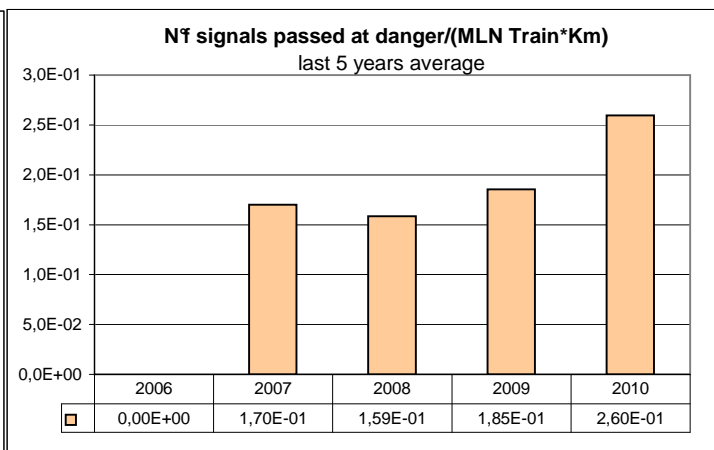
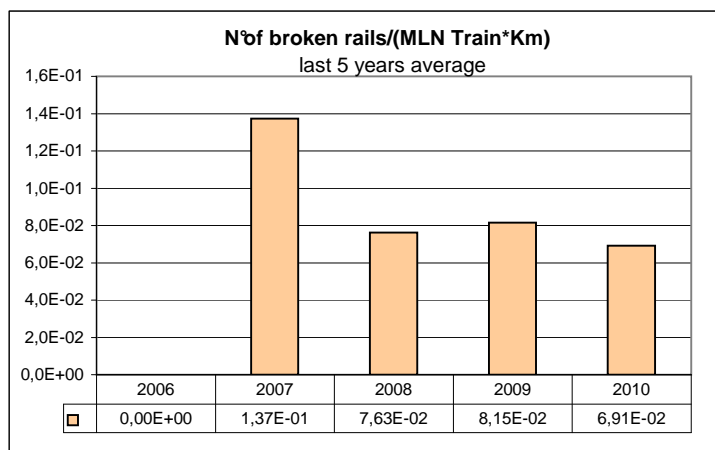
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Precursors to accidents



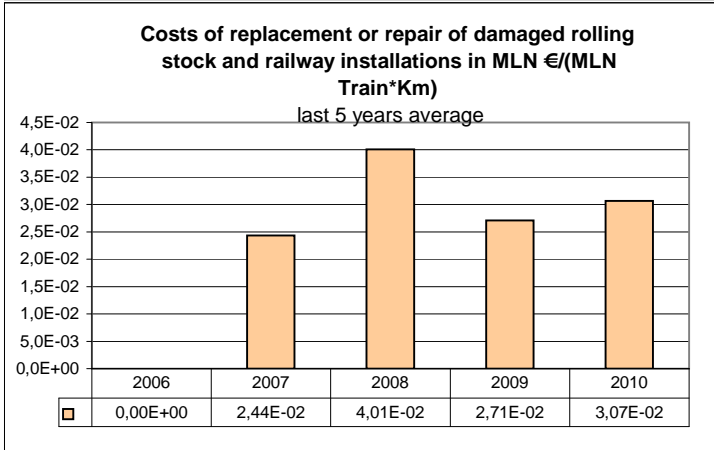
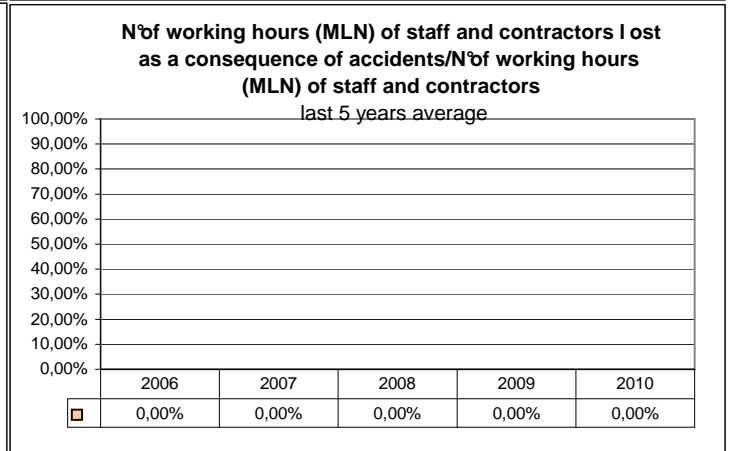
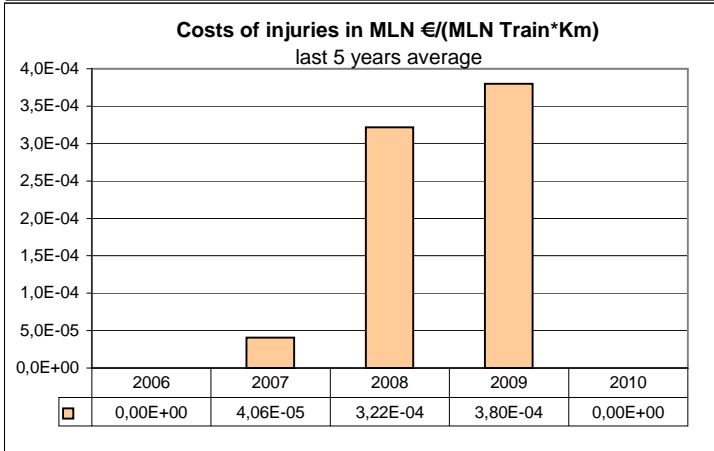
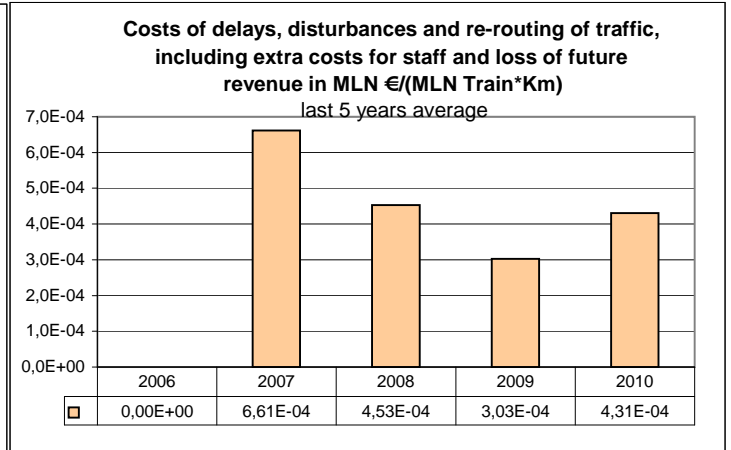
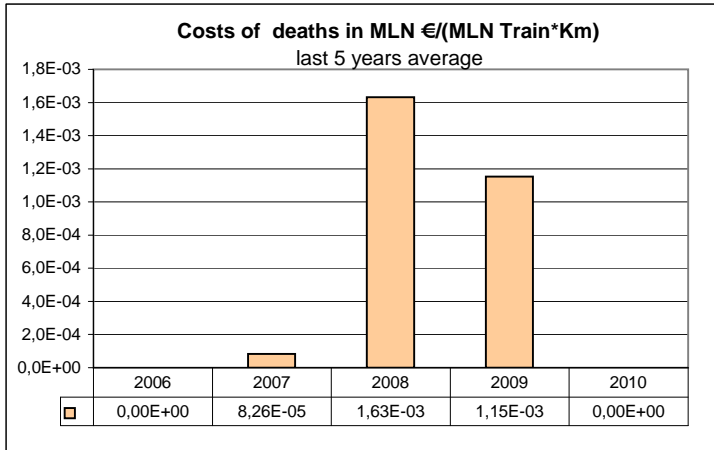
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Cost of all accidents, number of working hours of staff and contractors lost as a consequence of accidents



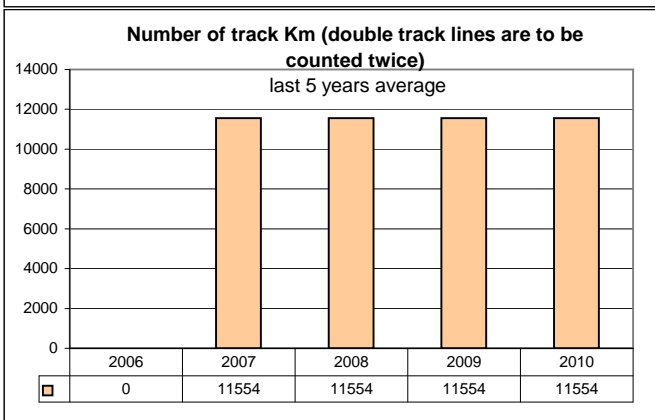
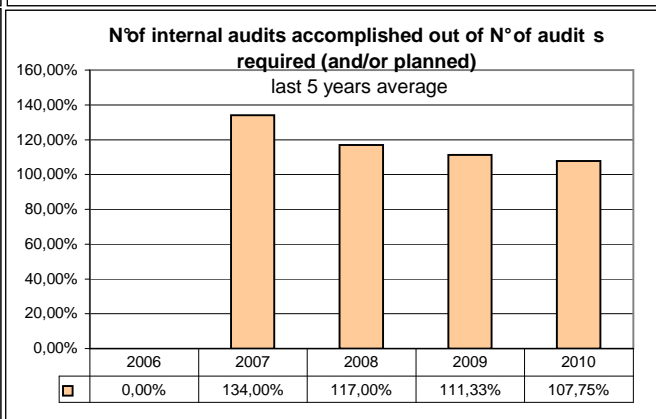
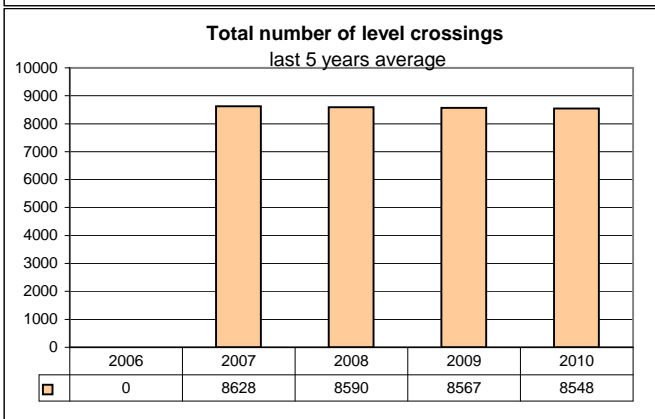
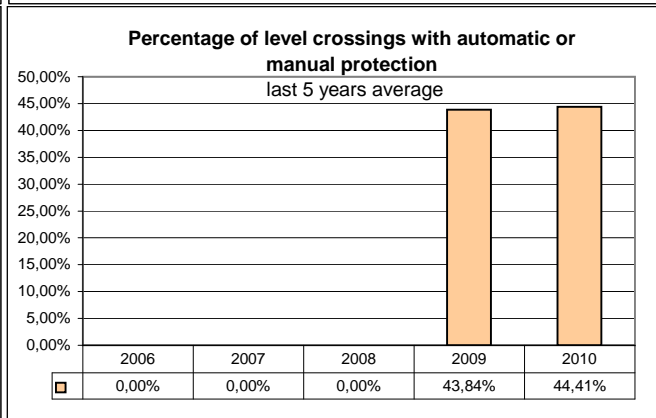
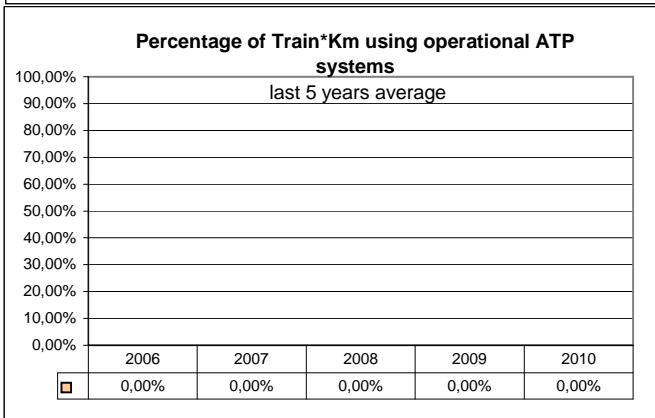
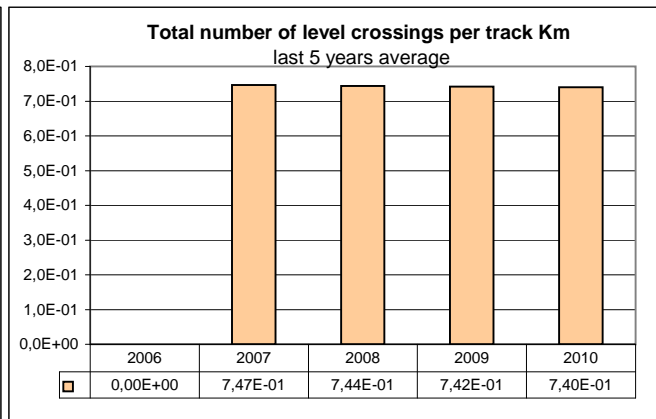
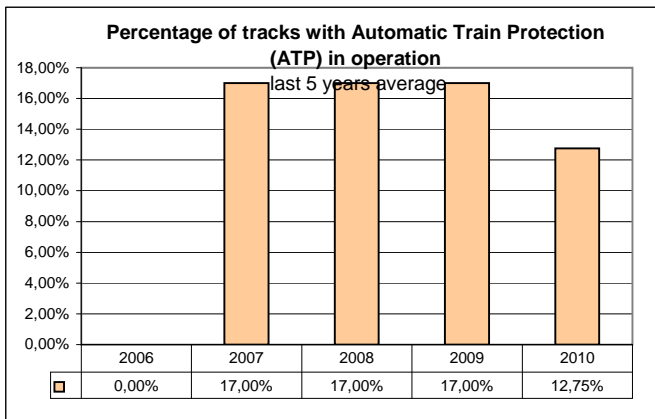
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Technical safety of infrastructure and its implementation, management of safety



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