

Safety railway statistics (source Eurostat data) Year 2004¹

Introduction

These statistics are related to railway accidents and fatalities, in some chart normalised by Train*Kilometres (T*Km) as defined in the Reg.1192/03:

- “significant accident” means any accident involving at least one rail vehicle in motion, resulting in at least one killed or seriously injured person, or in significant damage² to stock, track, other installations or environment, or extensive disruptions to traffic. Accidents in workshops, warehouses and depots are excluded;
- “person killed” means any person killed immediately or dying within 30 days as a result of an accident, excluding suicides;
- “train-km” means the unit of measure representing the movement of a train over one kilometre. The distance used is the distance actually run, if available, otherwise the standard network distance between the origin and destination shall be used. Only the distance on the national territory of the reporting country shall be taken into account;

In principle suicides and intentional acts should be excluded from these statistics.

Highlights

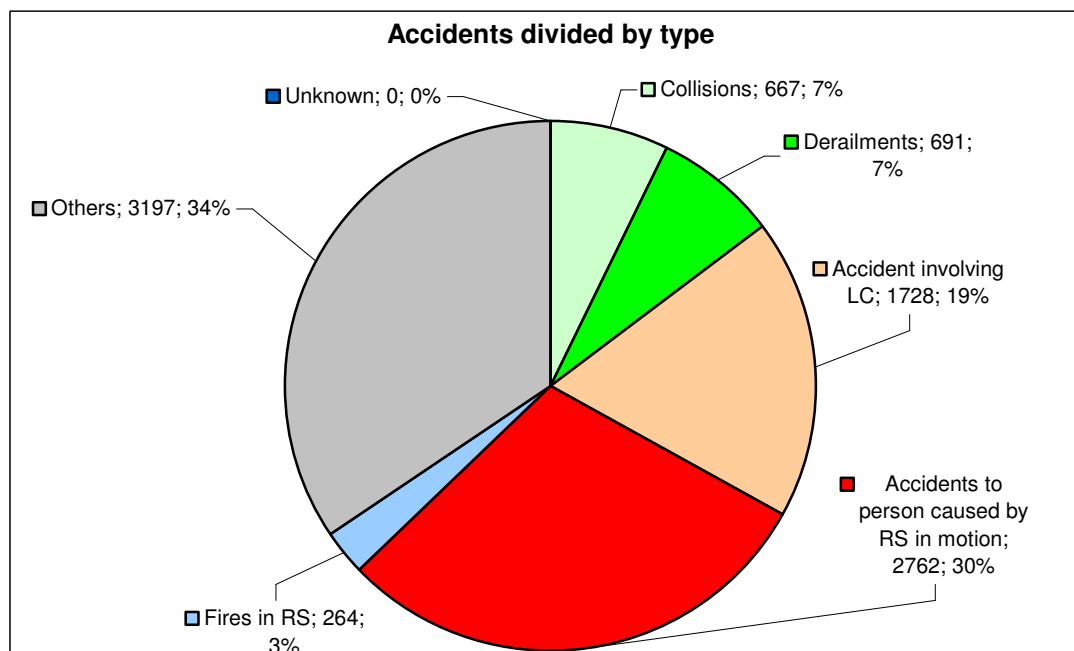
Number of accidents

In 2004 in EU 25, 9309 accidents (chart A and table 1) were reported, the largest part (34%) of which has been classified as others; for instance in HU 1774 accidents out of 2198 (81%) have been classified as others, in SK (60%), in PT (55%). The hypothesis behind this others' high percentage could be that some countries have reported also intentional acts (like stones throwing) and suicides, which in principle (see introduction) should not be counted in these statistics; this aspect, joined to the different thresholds adopted in Member States to report accidents (see footnote 2), could explain 34% of events classified as others.

It stems from chart A, that the most frequent types of accidents are related to persons caused by rolling stock (RS) in motion, 30%, and at level crossing (LC), 19%.

In chart 1, data related to accidents in Member States (table 1) have been normalised by T*Km.

Chart A



¹ Data updated on April/May 2006 and available in the Eurostat publication: http://epp.eurostat.cec.eu.int/cache/ITY_OFFPUB/KS-NZ-06-006/EN/KS-NZ-06-006-EN.PDF

² Significant damage and extensive disruptions have not yet been harmonised, Member States in these Statistics have used their national definitions of these items, which may – to some extent – explain the significant variation of accidents per T*Km.

Fatalities

In 2004 in EU 25, 1483 fatalities (tables 2 and 3) were reported.

91% of fatalities (chart B) are related to persons classified as others, joining this information with what aforementioned about the percentage of accidents related to RS in motion and at LC, it is possible to assume that these others are in large part composed of LC users and unauthorised persons on railway premises.

Chart C is coherent with this assumption, the large majority of fatalities, 67%, are related to RS in motion, 28 % are at LC; therefore under these two types of accidents are classified 95% of fatalities.

In table 2-3 and charts 2-3 (normalised by T*Km), fatalities have been split by country; table 4 is dedicated to passengers fatalities, split in type of accident.

Chart B

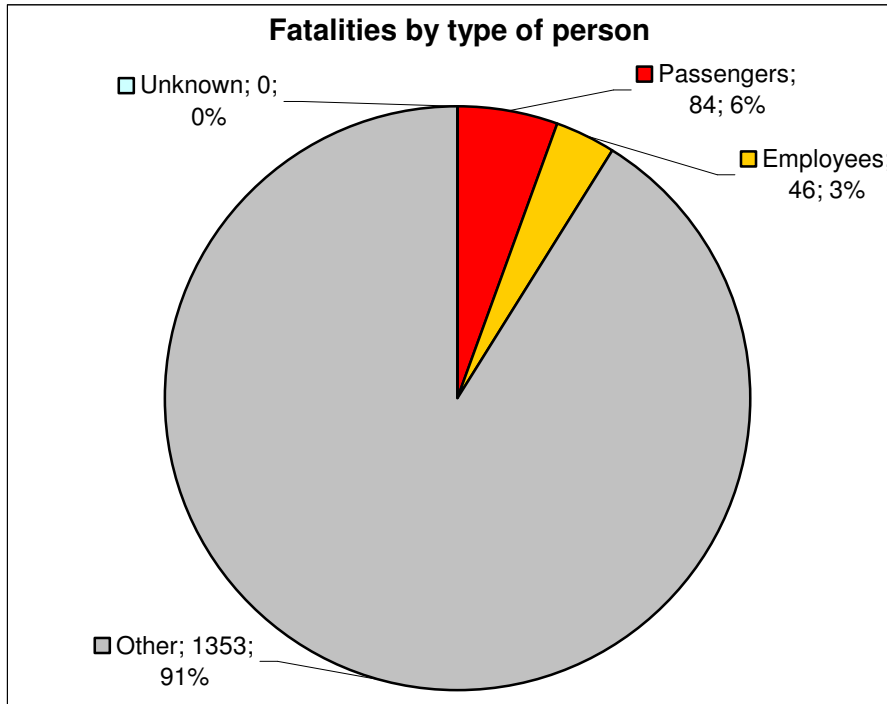


Chart C

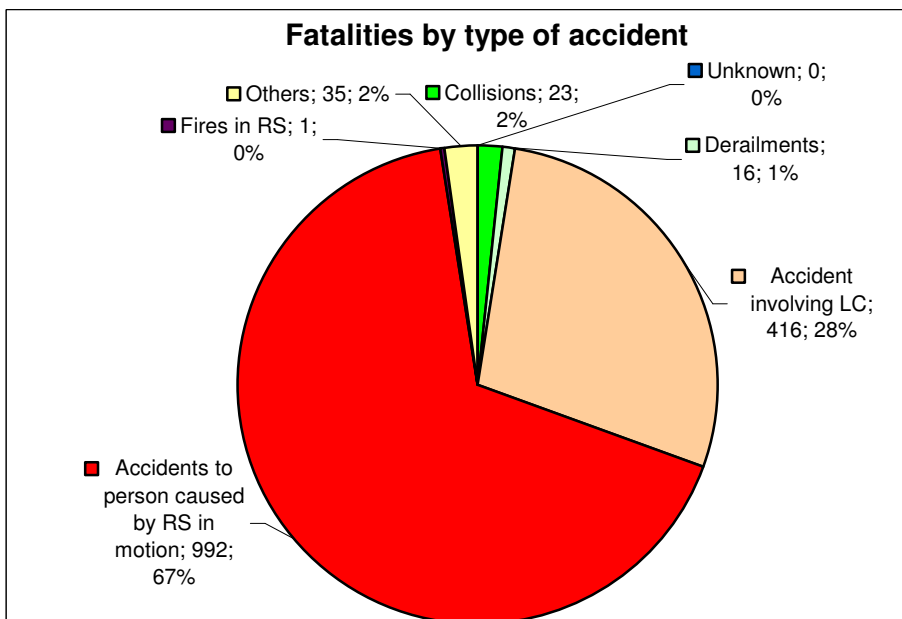


Table 1 – Accidents and Train*Km

Country	Collisions	Derailments	Accident involving LC	Accidents to person caused by RS in motion	Fires in RS	Others	Unknown	EU	Train*Km (MLN)
AT	5	15	44	52	0	3	0	119	147,93
BE	33	39	20	25	0	33	0	150	95,431
CZ	5	10	67	173	7	6	0	268	146,117
DE	400	162	246	294	16	54	0	1172	889,468
DK	11	9	7	4	2	22	0	55	56,968
EE	5	24	26	20	0	3	0	78	9,231
ES	6	19	38	97	1	1	0	162	200,06
FI	0	6	52	15	13	23	0	109	48,689
FR	13	10	49	70	0	0	0	142	526,769
GR	42	72	534	65	3	0	0	716	17,625
HU	5	13	87	319	0	1774	0	2198	99,558
IE	0	0	2	0	0	0	0	2	15,127
IT	6	16	24	89	6	3	0	144	364,392
LT	0	19	11	42	0	27	0	99	16,978
LU	0	0	0	0	0	0	0	0	7,629 ⁽³⁾
LV	1	4	13	0	0	0	0	18	18,378
NL	2	1	25	9	0	0	0	37	124,2 ⁽³⁾
PL	1	121	272	301	56	213	0	964	220,038
PT	70	72	104	157	0	487	0	890	35,042
SE	24	32	20	20	9	12	0	117	126,365 ⁽³⁾
SI	3	5	5	33	3	0	0	49	19,942
SK	3	5	61	103	33	309	0	514	46,994
UK	32	37	21	874	115	227	0	1306	492,583 ⁽³⁾
EU	667	691	1728	2762	264	3197	0	9309	3725,514

⁽³⁾: source of estimate: UIC for LU (passenger traffic) and NL (freight traffic), Office of Rail Regulation for UK (passenger traffic), Swedish Rail Agency for SE (passenger traffic).

Chart 1

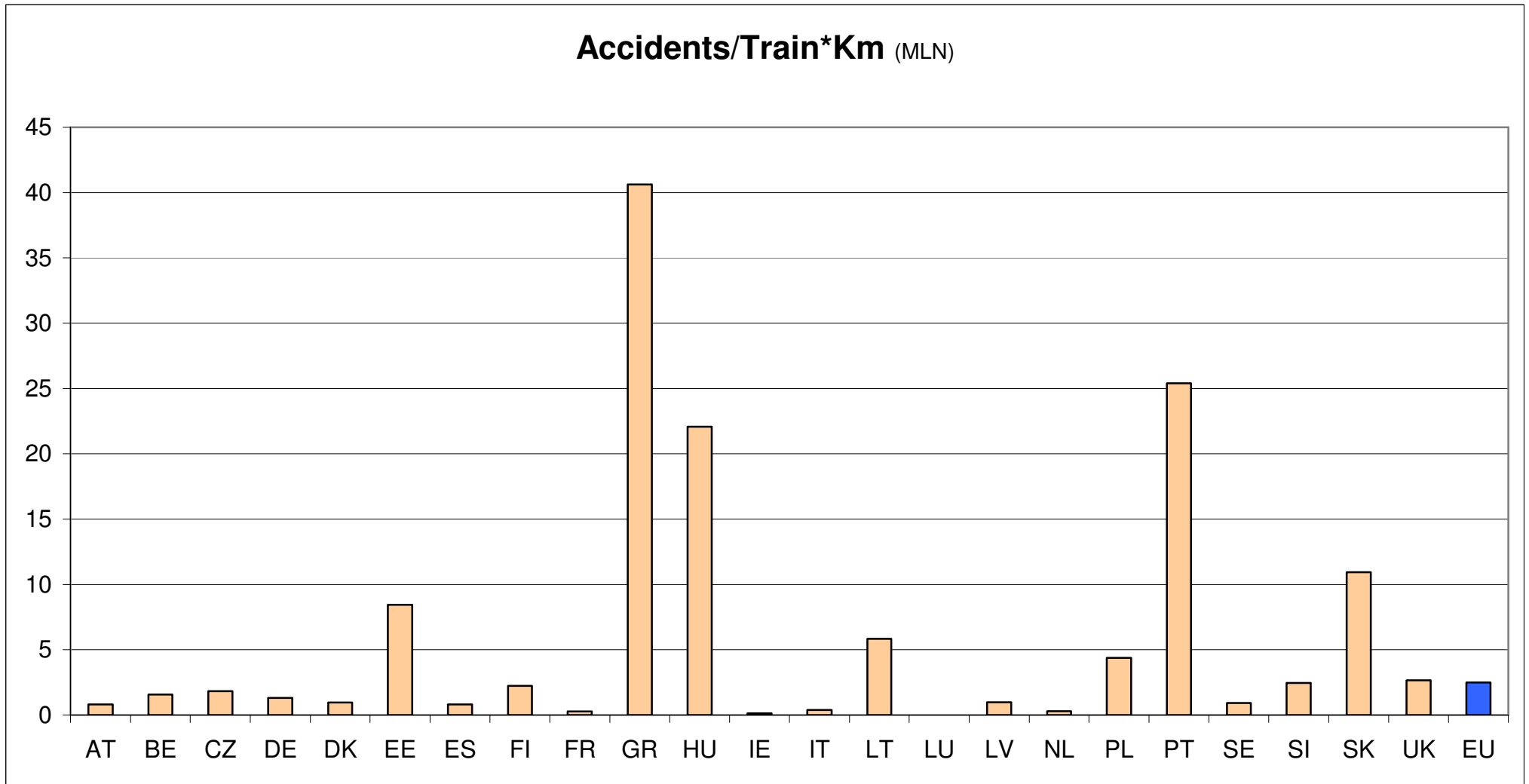


Table 2 – Fatalities by category of person

Country	Passengers	Employees	Other	Total	Unknown
AT	2	3	42	47	0
BE	2	2	15	19	0
CZ	5	3	224	232	0
DE	8	6	153	167	0
DK	3	1	6	10	0
EE	0	0	20	20	0
ES	1	2	107	110	0
FI	2	0	22	24	0
FR	6	5	82	93	0
GR	0	1	31	32	0
HU	8	0	86	94	0
IE	0	0	0	0	0
IT	12	4	43	59	0
LT	0	0	31	31	0
LU	0	0	0	0	0
LV	0	0	3	3	0
NL	2	2	20	24	0
PL	15	2	259	276	0
PT	8	4	89	101	0
SE	3	2	21	26	0
SI	0	0	12	12	0
SK	0	0	10	10	0
UK	7	9	77	93	0
EU	84	46	1353	1483	0

Chart 2

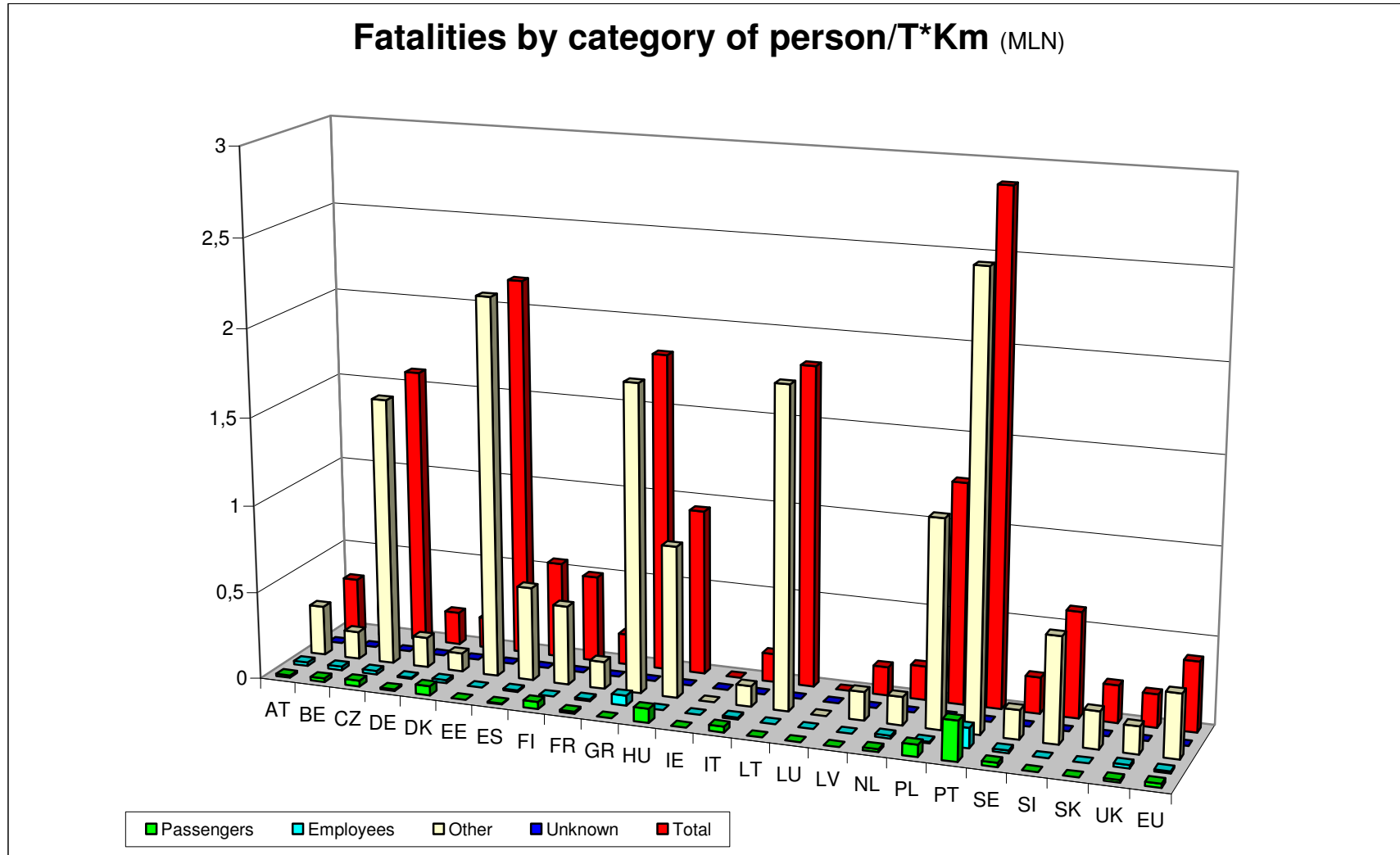


Table 3 – Fatalities by type of accident

Country	Collisions	Derailments	Accident involving LC	Accidents to person caused by RS in motion	Fires in RS	Others	Total	Unknown
AT	0	0	18	25	0	4	47	0
BE	5	0	8	6	0	0	19	0
CZ	2	0	57	171	0	2	232	0
DE	6	0	61	100	0	0	167	0
DK	0	0	4	4	1	1	10	0
EE	0	0	6	14	0	0	20	0
ES	0	0	42	68	0	0	110	0
FI	0	0	7	15	0	2	24	0
FR	6	0	38	49	0	0	93	0
GR	3	0	13	16	0	0	32	0
HU	0	0	18	76	0	0	94	0
IE	0	0	0	0	0	0	0	0
IT	0	4	17	36	0	2	59	0
LT	0	0	4	27	0	0	31	0
LU	0	0	0	0	0	0	0	0
LV	0	0	3	0	0	0	3	0
NL	0	0	17	7	0	0	24	0
PL	0	0	51	205	0	20	276	0
PT	0	3	26	68	0	4	101	0
SE	0	0	13	13	0	0	26	0
SI	0	0	1	11	0	0	12	0
SK	0	0	10	0	0	0	10	0
UK	1	9	2	81	0	0	93	0
EU	23	16	416	992	1	35	1483	0

Table 4 – Fatalities involving passengers by type of accident

Country	Collisions	Derailments	Accident involving LC	Accidents to person caused by RS in motion	Fires in RS	Others	Unknown
AT	0	0	0	2	0	0	0
BE	2	0	0	0	0	0	0
CZ	2	0	0	3	0	0	0
DE	1	0	0	7	0	0	0
DK	0	0	0	3	0	0	0
EE	0	0	0	0	0	0	0
ES	0	0	0	1	0	0	0
FI	0	0	0	0	0	2	0
FR	0	0	0	6	0	0	0
GR	0	0	0	0	0	0	0
HU	0	0	0	8	0	0	0
IE	0	0	0	0	0	0	0
IT	0	3	1	8	0	0	0
LT	0	0	0	0	0	0	0
LU	0	0	0	0	0	0	0
LV	0	0	0	0	0	0	0
NL	0	0	0	2	0	0	0
PL	0	0	0	2	0	13	0
PT	0	0	0	7	0	1	0
SE	0	0	0	3	0	0	0
SI	0	0	0	0	0	0	0
SK	0	0	0	0	0	0	0
UK	0	5	0	2	0	0	0
EU	5	8	1	54	0	16	0

Chart3

