

# TRAFFIC & INFRASTRUCTURE

Helgi's Pocket Guide

February 2013

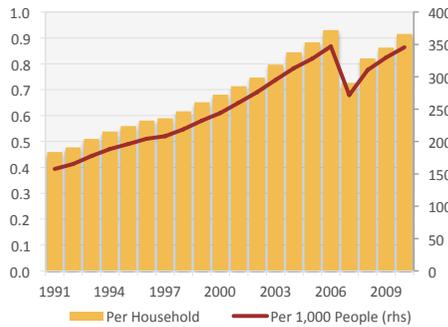


Bulgaria

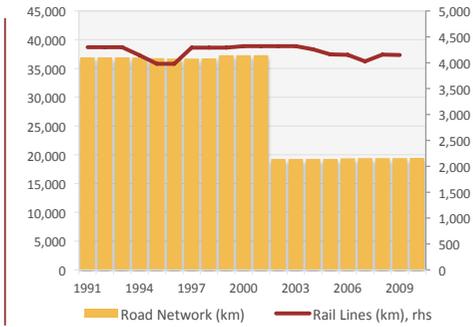
KEY FIGURES	1990	1995	2000	2005	2010
Roads, Total Network (km)	36,922	36,777	37,301	19,288	19,456
Length Of Motorways (km)	273	331	324	331	437
Passenger Cars Per 1,000 People	151	196	244	328	346
Diesel Passenger Cars (As Of Total Cars)	0.0%	0.0%	0.0%	0.0%	0.0%
Persons Killed In Road Traffic Accidents	1,567	1,264	1,012	957	776
Rail Lines (km)	4,299	3,979	4,320	4,163	4,098
Railway Passengers (mil)	102	59	50	34	30
Railway, Average Distance Travelled Per Capita (km)	894	558	425	309	279
Air Transport, Passengers Carried (km)	1.9	0.9	0.5	0.7	2.2
Railway Transport In Passengers (As Of Inland Transport)	20.3%	11.4%	7.7%	4.9%	
Road Transport In Passengers (As Of Inland Transport)	11.9%	60.6%	59.8%	71.9%	
Bus Transport In Passengers (As Of Inland Transport)	67.8%	28.0%	32.5%	23.2%	
Road Sector Energy Consumption (As Of Total)	6.9%	5.8%	8.8%	11.6%	13.9%



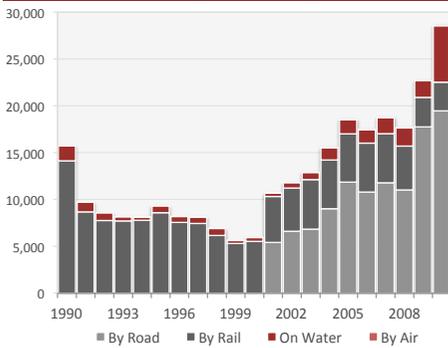
## PASSENGER CARS



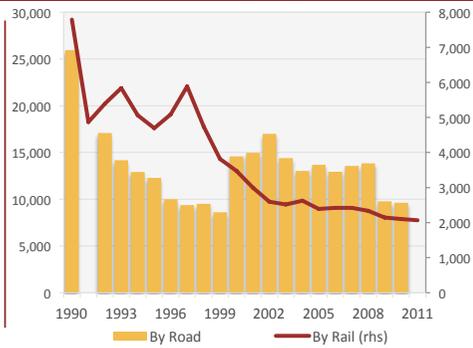
## ROADS & RAIL LINES



## TRANSPORT OF GOODS (mil tonne-km)



## TRANSPORT OF PASSENGERS (mil km)

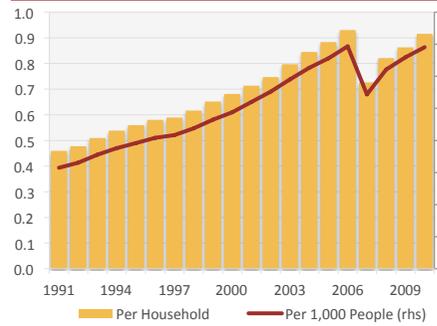


Source: World Bank, National Statistical Office, United Nations, OECD, Eurostat, Helgi Analytics calculation

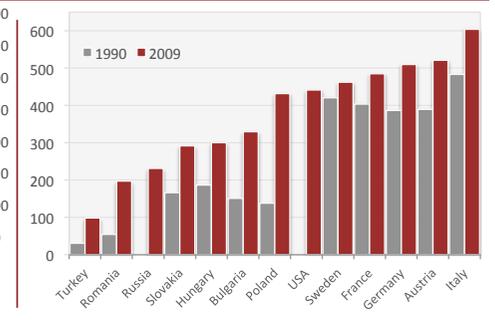


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## PASSENGER CARS

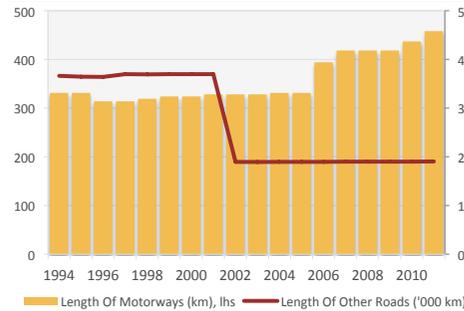


## PASSENGER CARS PER 1,000 PEOPLE

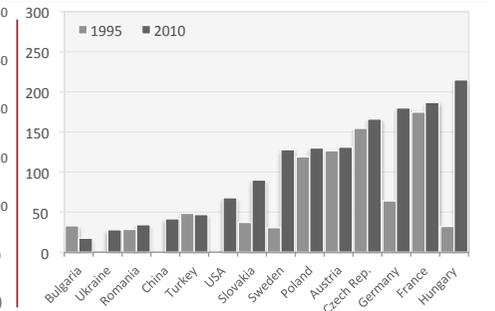


With more than 2.6 mil passenger cars in the country, roughly every third Bulgarian owned a car at the end of 2010. Furthermore, there was nearly one car on average for every household, so Bulgarians seem to have fulfilled their "basic" needs regarding personal transport. Although the penetration will probably continue to grow, future investments will probably go into quality as the average car in the country is about 14 years old.

## ROAD NETWORK

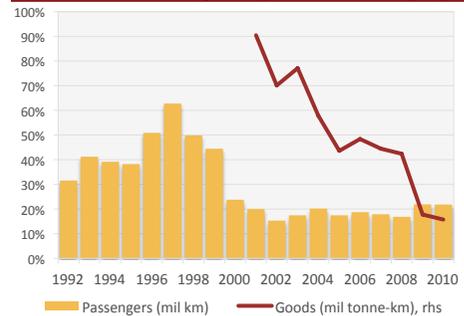


## ROAD DENSITY

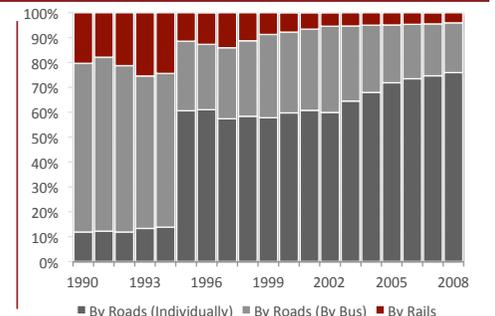


Bulgaria has over 37,000 km of roads in total, but about half of that belongs to the lowest category of roads, so effectively speaking the network has less than 20,000 km of roads. At the end of 2011, there were 458 km of motorways in Bulgaria. Long-term plans call for upgrading higher-quality roads and integrating the road system into the European grid. The focus is on improving road connections with Turkey and Greece and domestic connections linking Sofia, Plovdiv, and Burgas.

## FROM RAILS TO ROADS (Railway As Of Road Transport)



## INLAND PASSENGER TRANSPORT

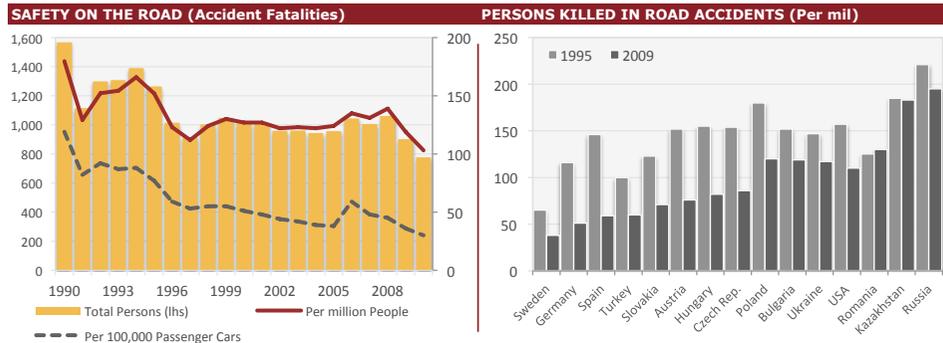


Railway transport has clearly been losing ground to road transport in Bulgaria. This is both in domestic and international terms, as well as in the transport of passengers and goods. In 2008, 96% of inland passengers travelled by road. While the railways transported roughly as many goods as trucks did in the 1990s, it was only 10% in 2010.

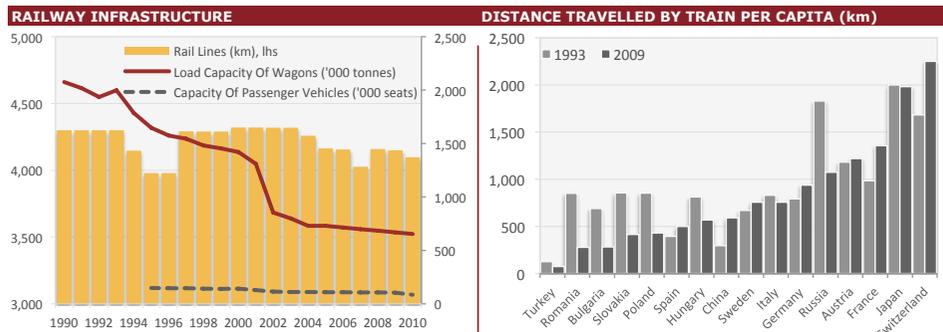
Source: World Bank, National Statistical Office, United Nations, OECD, Eurostat, Helgi Analytics calculation



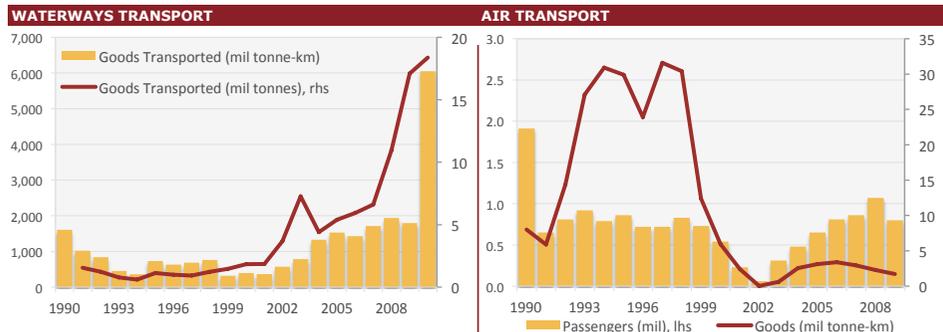
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Security on Bulgarian roads has improved significantly over the last two decades. The number of persons killed in road traffic accidents more than halved to 776 persons in 2010 compared to 1990. The number of persons injured dropped by 7% between 1993 and 2010, in spite of the increasing traffic on the roads. Having said that, traffic accident fatalities are still high when former Soviet Union countries are excluded.



While most of Western Europe prefers railway transportation to that by road, South-Eastern and Central Europe has gone the opposite way. In Bulgaria, the capacity for the transport of passengers and goods has been going down and people travel by train less than a decade ago. The average distance travelled by a person by train a year dropped by 68% between 1990 and 2009, to 284 km.



Unlike in most other countries, waterway transportation has been increasing in Bulgaria in the last decade. The amount of goods transported by water has increased 10-fold and represented 21% of the total inland freight transportation in 2009. As far as air transport is concerned, the numbers of passengers have doubled over the last decade; on the other hand, the goods transported have declined to a fraction of the level seen a decade ago.

Source: World Bank, National Statistical Office, United Nations, OECD, Eurostat, Helgi Analytics calculation

POPULATION		2003	2004	2005	2006	2007	2008	2009	2010	2011
Population	mil	7.82	7.78	7.74	7.70	7.66	7.62	7.59	7.53	7.48
Population (As % Of World Population)	%	0.12%	0.12%	0.12%	0.12%	0.12%	0.11%	0.11%	0.11%	0.11%
Persons Per Household	persons	2.70	2.70	2.69	2.68	2.67	2.64	2.62	2.65	2.62
Share Of Population (0-14 Years Of Age)	%	14%	14%	14%	14%	14%	14%	14%	14%	14%
Share Of Population (15-64 Years Of Age)	%	69%	69%	69%	69%	69%	69%	69%	69%	68%
Share Of Population (65+ Years Of Age)	%	17%	17%	17%	17%	17%	17%	17%	18%	18%
Median Age	years	40.4	40.6	40.8	41.0	41.1	41.3	41.4	41.6	41.8
Old Age Dependency Ratio	%	25%	25%	25%	25%	25%	25%	25%	26%	26%
Youth Dependency Ratio	%	21%	20%	20%	20%	20%	20%	20%	20%	20%
Life Expectancy, both sexes	years	72.1	72.6	72.6	72.6	72.7	73.0	73.4	73.5	
Life Expectancy At 65, both sexes	years	14.5	14.8	14.7	14.8	15.0	15.3	15.5	15.4	
Total Fertility Rate	children	1.23	1.29	1.32	1.38	1.42	1.48	1.57	1.49	
Urban Population As Of Total	%	70%	70%	70%	71%	71%	72%	72%	73%	73%

ON THE ROAD		2003	2004	2005	2006	2007	2008	2009	2010	2011
Number Of Passenger Cars	mil	2.31	2.44	2.54	2.67	2.08	2.37	2.50	2.60	
Diesel Passenger Cars (As Of Total Cars)	%									
Petrol Passenger Cars (As Of Total Cars)	%									
Alternative Fuel Passenger Cars (As Of Total Cars)	%									
Passenger Cars Per 1,000 People	vehicles	295	313	328	347	272	310	330	346	
Passenger Cars Per Household	vehicles	0.80	0.84	0.88	0.93	0.73	0.82	0.86	0.92	
Number Of Motor Vehicles	mil	2.65	2.83	2.95	2.04	2.39	2.72	2.88	0.00	
Motor Vehicles Per 1,000 People	vehicles	338	359	376	262	309	353	375	393	
Number Of Motorcycles	'000 vehicles	93	98	43	51	60	67	70		
Motorcycles Per 1,000 People	vehicles	12.0	12.7	5.6	6.7	7.9	8.8	9.3		
Number Of Mopeds	'000 vehicles	45	49	33	39	47	51	55		
Mopeds Per 1,000 People	vehicles	5.8	6.3	4.3	5.1	6.2	6.7	7.3		
Number Of Trams	vehicles	342	336	331	329	304	303	303	305	
Number Of Coaches, Buses & Trolley Buses	vehicles	44.3	36.6	37.8	22.8	23.9	25.2	25.1	24.5	
Roads (Total Network)	km	19	19	19	19	19	19	19	19	
Roads, Paved (As Of Total Roads)	%			98%						
Length Of Motorways	km	328	331	331	394	418	418	418	437	458
Vehicles (Per km Of Road)	vehicles			72.0						
Road Density (km of Road Per 100 km2 Of Land Area)		17	17	36				18	18	
Roads, Passengers Carried	mil km	14,400	13,029	13,688	12,942	13,571	13,839	9,773	9,633	
Road Transport Freight	mil tonne-km	6,840	9,015	11,843	10,793	11,795	11,027	17,742	19,454	21,212
Road Goods Transported	mil tonnes	155	145	142	150	135	176	147	130	135
Road Sector Energy Consumption (As Of Total)	%	10.5%	11.3%	11.6%	12.2%	12.0%	12.9%	14.5%	13.9%	
Killed In Road Traffic Accidents	persons	960	943	957	1,043	1,006	1,061	901	776	
Killed In Road Traffic Accidents (Per mil People)	persons	123	122	124	135	131	139	119	103	
Injured In Road Traffic Accidents	persons	8,508	9,328	10,139	7,176	9,828	9,944	8,683	8,072	
Injured In Road Traffic Accidents (Per mil People)	persons	1,088	1,199	1,310	932	1,283	1,305	1,144	1,072	
Number Killed Per 1,000 Road Traffic Accidents	persons	137	124	116	127	126	132	127	117	
Number Of Fatalities Per 100,000 Passenger Cars	persons	42	39	38	59	48	45	36	30	

ON THE RAILS		2003	2004	2005	2006	2007	2008	2009	2010	2011
Rail Lines (Total)	km	4,318	4,259	4,163	4,155	4,027	4,159	4,150	4,098	
Electrified Rail Lines (As Of Total Rail Lines)	%	66%	67%	69%	70%	70%	68%	68%	68%	
Railway Density (km of Road Per 1,000 km2 Of Land Area)		57	56	54	54	54	53	53	53	
Railway Passengers	mil	35	34	34	34	33	34	31	30	29
Railways Passengers Carried	mil km	2,517	2,628	2,389	2,422	2,424	2,335	2,144	2,100	2,068
Railways Transport Freight	mil tonne-km	5,274	5,212	5,166	5,227	5,242	4,673	3,152	3,061	3,291
Railways Goods Transported	mil tonnes	20.1	20.4	20.3	21.9	21.9	19.7	13.3	12.9	14.2
Railway (Average Distance Travelled Per Passenger)	km	71.5	77.0	70.8	71.0	72.8	69.2	68.4	69.8	70.5
Railway (Average Distance Travelled Per Capita)	km	322	338	309	315	316	306	282	279	276
Principle Railways Enterprise (s) Workforce	persons						33,582	31,370	28,940	
Number Of Railway Locomotives	vehicles	603	580					533	484	
Number Of Passenger Railway Vehicles	vehicles	1,384	1,395					1,253	1,048	
Capacity Of Passenger Railway Vehicles (Total)	'000 seats	112	111					105	86	
Number Of Railway Wagons	vehicles	13,505	12,317	12,106			11,812	11,812	11,124	
Load Capacity Of Railway Wagons (Total)	'000 tonnes	799	730					691	654	

Source: World Bank, National Statistical Office, United Nations, OECD, Eurostat, Helgi Analytics calculation. For more details, description and explanation of particular indicators, please, visit [www.helgilibrary.com](http://www.helgilibrary.com)

IN THE AIR		2003	2004	2005	2006	2007	2008	2009	2010	2011
Air Transport (Passengers Carried)	mil	0.31	0.48	0.65	0.81	0.86	1.07	0.80	2.24	
Air Transport Freight	mil tonne-km	0.6	2.6	3.1	3.4	3.0	2.3	1.7	2.4	
Air Goods Transported	mil tonnes					18.7	19.5	17.5	21.1	21.9

ON THE WATER		2003	2004	2005	2006	2007	2008	2009	2010	2011
Waterway Transport Freight	mil tonne-km	784	1,326	1,532	1,429	1,711	1,936	1,794	6,048	
Waterway Goods Transported	mil tonnes	7.27	4.41	5.40	5.95	6.62	10.96	17.10	18.37	
Number Of Inland Waterway Vessels	vessels	4.0	10	11	13	19	21	24	28	
Number Of Maritime Merchant Vessels	vessels	1,292	1,077	1,151	1,308	1,248	1,314	1,243	697	597
Number Of Maritime Container Ships	vessels	67	67	78	78	78	78	64	64	
Number Of Maritime Oil Tankers	vessels	192	32	30	30	31	35	26	26	13
Waterways Transport (As Of Inland Transport)	%	4.0%	3.9%	3.7%	3.9%	4.8%	12.6%	20.7%		

MACROECONOMIC ROUND-UP		2003	2004	2005	2006	2007	2008	2009	2010	2011
GDP	USD bil	20.7	25.3	28.9	33.2	42.1	51.8	48.6	47.7	53.5
GDP Growth	%	5.5%	6.7%	6.4%	6.5%	6.4%	6.2%	-5.5%	0.4%	1.7%
GDP Per Capita	USD	2,642	3,249	3,733	4,313	5,498	6,798	6,403	6,335	7,158
Industrial Production Growth	%	13.0%	12.8%	6.9%	6.0%	9.6%	0.6%	-17.4%	1.0%	4.9%
Retail Sales Growth	%									
Government Budget Balance (As % Of GDP)	%	-0.9%	2.2%	3.0%	2.2%	1.5%	0.8%	0.4%	-2.4%	
Public Debt (As % Of GDP)	%	46%	40%	29%	23%	19%	15%	16%	15%	15%
Unemployment Rate	%	13.7%	12.0%	10.1%	9.0%	6.9%	5.6%	6.8%	10.2%	11.2%
Gross Average Monthly Wage	USD	160	188	208	233	304	408	438	457	503
Foreign Debt (As % Of GDP)	%	65%	67%	62%	82%	101%	100%	114%	105%	0%
Imports (As % Of GDP)	%	59%	63%	56%	79%	79%	79%	56%	59%	66%
Exports (As % Of GDP)	%	49%	52%	41%	61%	60%	58%	48%	57%	67%
Current Account Balance (As % Of GDP)	%	-4.9%	-6.6%	-11.6%	-17.7%	-25.2%	-23.0%	-8.9%	-1.0%	0.9%
Foreign Exchange Reserves (Including Gold)	USD bil	6.8	9.3	8.7	11.8	17.5	17.9	18.5	17.2	17.2
Foreign Exchange Reserves (As % Of Imports)	%	56%	58%	54%	45%	53%	44%	68%	61%	49%
Foreign Direct Investments	USD bil	2.1	2.7	4.1	7.9	13.9	10.3	3.9	1.9	2.6
Foreign Direct Investments (As % Of GDP)	%	10.1%	10.5%	14.2%	23.7%	32.9%	19.9%	8.0%	3.9%	4.8%
Foreign Direct Investments (As % Of CA Deficit)	%	205%	159%	122%	134%	131%	86%	90%	375%	-515%
Workers' Remittances, Received (As % Of GDP)	%	8.3%	6.8%	5.6%	5.2%	4.0%	3.7%	3.3%	2.8%	2.8%
Portfolio Investments (As % Of GDP)	%	-1.0%	-2.1%	-4.5%	1.1%	-2.0%	-2.1%	-1.7%	-1.7%	-0.9%
Development Assistance (As % Of GDP)	%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

INFLATION, FOREX & INTEREST RATES		2003	2004	2005	2006	2007	2008	2009	2010	2011
Inflation, CPI (Average)	%	2.2%	6.3%	5.0%	7.3%	8.4%	12.3%	2.5%	3.0%	3.4%
Long-Term Interest Rate (10-Year Gov. Bond Yield)	%	6.5%	5.4%	3.9%	4.2%	4.5%	5.4%	7.2%	6.0%	5.4%
Short-Term Interbank Interest Rate (3-Month)	%	3.7%	3.7%	3.6%	3.7%	4.9%	7.1%	5.7%	4.1%	
Interest Spread To USD, 10-Year Gov. Bond	%	2.4%	1.1%	-0.4%	-0.6%	-0.1%	1.7%	4.0%	2.8%	2.6%
Interest Spread To USD, 3M IBOR	%	2.5%	2.2%	0.1%	-1.5%	-0.4%	3.9%	4.8%	3.6%	-0.4%
FX Rate To USD (Average)	per USD	1.73	1.57	1.57	1.56	1.43	1.34	1.41	1.48	1.41
FX Rate To EUR (Average)	per EUR	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.96

Source: World Bank, National Statistical Office, United Nations, OECD, Eurostat, Helgi Analytics calculation. For more details, description and explanation of particular indicators, please, visit [www.helgilibrary.com](http://www.helgilibrary.com)



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Helgi Analytics also runs a web application called Helgi Library, which is a database/library offering data and analyses on more than 95% of the world's economy and population. The Library aims to bring interesting statistical data and analyses to a wide audience under affordable conditions. If you wish to get more details, please visit [www.helgilibrary.com](http://www.helgilibrary.com) or contact us at [info@helgianalytics.com](mailto:info@helgianalytics.com).

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