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Working Party on Transport Trends and Economics

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QUALITY OF TRANSPORT SERVICE

Note by the secretariat

Following the request by the Working Party at its seventeenth session, the secretariat presents consolidated replies from member Governments on the questionnaire on quality of transport service. This questionnaire contains indicators, as presented in section 2.2 of the document TRANS/WP.5/2003/10. Individual and more detailed replies from member Governments were presented in documents TRANS/WP.5/2004/10 and Add.1. Moreover, following another decision of the Working Party, additional comments on the questionnaire received by the secretariat have been incorporated and the revised version of the questionnaire is reproduced in the attached document.

1. Legal and operational indicators						
Indicator	Definition	Belarus	Croatia	Hungary		
Degree of competition	Degree of competition between the various operators. Rate: monopoly=0, moderate competition=1, strict competition=2	Monopoly	Roads – 2 Railways - 0 Inland waterway - 1	1		
Public transport passenger trips	Percentage of public-transport trips to total trips (pedestrian, bicycles, public transport, private-cars) in the observed area. [%]	77% (excluding services operated by individual entrepreneurs) 86% (including services operated by individual entrepreneurs)	-	40 % 1		
Normal fare [Euro]	Normal fare (Euro) for a month of public transport use	One mode - €4.27 Two modes - €5.7 Three modes - €6.65 €1 = Rb1 2,629	-	€1 ² €66.7 ³		
Receipts from public sector for investments in infrastructure and rolling stock	Percentage of public receipts for investments in public transport infrastructure and rolling stock related to total investments [%]	64% (excluding pipelines) Investment in fixed capital in the transport sector – Rbl 717,940 million (61% in road transport)	Roads – n.a. Railways – 100% (through State budget and loans which are guaranteed by Government) Inland waterway – n.a.	100%		

Without pedestrian and bicycles.
 City monthly pass in Budapest for all transport modes.
 Rail monthly pass up to 50 km.

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Indicator	Definition	Belarus	Croatia	Hungary
Traffic safety	Ratio of passenger injuries by 10 ⁶ passenger km [number/10 ⁶ pass. km]	-	Roads – 7.0 Railways – 0.05	0.31
Employee safety	Percentage of injuries by number of employees; percentage of criminal attacks on employees. [%]	-	Percentage of injuries by number of employees – 2.24 % ^{4/} Percentage of criminal attacks – not available	Non-significant
Driver training	Number of in-service training hours per total number of drivers a year [training hours/total number of drivers]	Driver training is not monitored	-	5 hrs/yr/capita
Security at stops and stations/freight terminals and transfer points	Measure of passengers'/users sense of security at the stops and stations/ freight terminals and transfer points. Rate 1=poor to 6=excellent	Excellent	Roads – 3 Railways – 4 Inland waterway - 3	5 for passenger transport 4 for freight transport
Security in vehicles	Measure of passengers'/users sense of security in passenger and freight vehicles. Rate 1=poor to 6=excellent	Average	Roads – 2 Railways – 4	5 for passenger transport 5 for freight transport
3. Environmental impa	cts		-	-
Quality of vehicles	Number of vehicles failed in emission test per 100 tested vehicles [number/100 tested vehicles]	-	Roads - in 2001 60.26 in 2002 44.32 in 2003 39.78	8%
Emissions	Emissions of CO ₂ , non-methane volatile organic compound (NMVOC) and nitrogen oxide (NOx) per 10 ⁶ vehicle km [tonnes/10 ⁶ vehicle km.]	-	Roads – in the year 2000: emissions of CO_2 - 225.14 emissions of NMVOC – 1.74 emissions of NOx – 1.79	315
Noise levels	Percentage of population exposed to road traffic noise levels above 55 Ldn dB ; and percentage of population exposed to rail noise above 55 LAeq dB. [%]	-	-	Measures will be completed in 2007
Land take	Land take by roads and railways as percentage of country surface. [%]	Roads – 245 km/1,000 km². Rail - 27 km/1,000 km².	Roads - 0.48 %	0.6%
Exposure	Exposure of urban population to daily mean SO ₂ concentrations of more than 125 mg/m3 [in number of residents]	-	-	Non-significant

Indicator	Definition		Irel	and		Lithuania	Poland
Degree of competition	Degree of competition between the various operators. Rate: monopoly=0, moderate competition=1, strict competition=2	1			Roads: 2. Inland Waterways: 2. Railways: 1.	1	
Public transport	Percentage of public-transport			Work		Roads: n.a.	
passenger trips	trips to total trips (pedestrian, bicycles, public transport, private-		Bus	Rail	Total	Railways: 1.87 per cent of the total number of passengers carried by public transport.	
	cars) in the observed area. [%]	No. of Trips Mode %	79,573 13	31,051	592,547 100	passengers carried by public transport.	
		School	13] 3	100		
			Bus	Rail	Total		
		No. of Trips	78,017	9,155	326,000		n.a.
		Mode %	24	3	100		
			Bus	Rail	and School Total		
		No. of Trips	157,590		918,547		
N 10 FF 1	N 16 (7) 6	Mode %	17	4	100		
Normal fare [Euro]	Normal fare (Euro) for a month of public transport use	_			Road: €8, €10, €12 or €- €15/month, Railways: €72/month for Vilnius – Kaunas and €69/month for Vilnius-Turmantas (both return trips).	€14.00/month	
Receipts from public sector for investments in infrastructure and rolling stock	Percentage of public receipts for investments in public transport infrastructure and rolling stock related to total investments [%]	From 1/1/2000 to 31/12/2003 investment in public transport, (rolling stock & infrastructure) as a percentage of the total investment in the economic and social infrastructure programme was 14%. From 1/1/2000 to 31/12/2003 investment in public transport, (rolling stock and infrastructure) as a percentage of investment in both roads and public transport was 35%.		f the total social 4%. vestment in nd f investment	There is no private investment in infrastructure. Investments in road transport €8.3 million in 2003 (18.65% of total investment). In 2003, a total of LTL 382.6 million (€10.8 million.) was used for investments, of which LTL 294.9 million (€8.4 million) or 77.1% for infrastructure modernization and development and LTL 30.7 million (€8.9 million) or 8% for rolling stock, of which LTL 23.5 million (€6.8 million) for passenger rolling stock.	29% (2002)	

2. Safety and security indicators					
Indicator	Definition	Ireland	Lithuania	Poland	
Traffic safety	Ratio of passenger injuries by 10 ⁶ passenger km [number/10 ⁶ pass. km]	259 / 34.7m	0.13 (2002)	1.19 (2002) Include passengers and drivers	
Employee safety	Percentage of injuries by number of employees; percentage of criminal attacks on employees. [%]	310 / 5529 8 / 5529	0.26% injuries recorded in 2003 2.6% accidents at work were due to criminal actions compared to the total number of accidents at work in 2002.	n.a.	
Driver training	Number of in-service training hours per total number of drivers a year [training hours/total number of drivers]	7,500 / 430	In 2003, a total of 72 in-service training hours per shunting train driver, each freight train driver, and each passenger train driver; and a total of 36 training hours per motorcar operator, and each rail car driver.	n.a.	
Security at stops and stations/freight terminals and transfer points	Measure of passengers'/users sense of security at the stops and stations/ freight terminals and transfer points. Rate 1=poor to 6=excellent	5 for Intercity services 4 for Suburban services	6 – In 2003, no accidents involving passengers or employees were recorded.	3 (estimate)	
Security in vehicles	Measure of passengers'/users sense of security in passenger and freight vehicles. Rate 1=poor to 6=excellent	n.a.	6 - In 2003, no accidents involving passengers or employees on passenger- or freight rolling stock were recorded.	3 (estimate)	

Indicator	Definition	Ireland	Lithuania	Poland	
Quality of vehicles	Number of vehicles failed in emission test per 100 tested vehicles [number/100 tested vehicles]	Comm. Vehicles 2.05% Cars (Petrol) 3.78% Cars (Diesel) 1.36%	12/100. Locomotives or diesel trains are not tested.	n.a.	
Emissions	Emissions of CO ₂ , nonmethane volatile organic compound (NMVOC) and nitrogen oxide (NOx) per 10 ⁶ vehicle km [tonnes/10 ⁶ vehicle km.]	tonnes/ tonnes/ tonnes/ 106 <t< td=""><td>CO₂-434; NMVOC-1.9; NO_x-3.7</td><td>Transport related emission: CO₂ – 30,121 million tonnes, NMVOC – 147 million tonnes, NOx – 291 million tonnes (data for 2001); data for vehicle km is not available</td></t<>	CO ₂ -434; NMVOC-1.9; NO _x -3.7	Transport related emission: CO ₂ – 30,121 million tonnes, NMVOC – 147 million tonnes, NOx – 291 million tonnes (data for 2001); data for vehicle km is not available	
Noise levels	Percentage of population exposed to road traffic noise levels above 55 Ldn dB ; and percentage of population exposed to rail noise above 55 LAeq dB. [%]	Comprehensive noise data for Ireland is not currently available. It will be gathered as part of implementation of EU directive 2002/49/EC. Dublin City Council has conducted road noise mapping for the Dublin area which indicates that 42.5% of people are exposed to road noise above 55 dB $L_{\rm den}$. No data is currently available for exposure to rail noise.	n.a.	Approx. 42-44%; 2.6% (1998)	
Land take	Land take by roads and railways as percentage of country surface. [%]	n.a.	Land take approximately 0.9%.	2.98%	
Exposure	Exposure of urban population to daily mean SO ₂ concentrations of more than 125 mg/m3 [in number of residents]	The national EPA Annual Air Quality Monitoring: Annual Report 2002, indicates that there were no SO_2 monitoring locations which exceeded 125 $\mu g/m^3$ on a daily mean basis in 2002.	Never been.	n.a.	

Revised questionnaire on quality of transport service

1. Legal and operational indicate	ors	
Indicator	Definition	Reply
Degree of competition	Degree of competition between the various operators. Rate: monopoly = 0 , moderate competition = 1 , strict competition = 2	
Public transport passenger trips	Percentage of public-transport trips to total trips (pedestrian, bicycles, public transport, private cars) in the observed area. [%]	
Mobility of population	000 pass. km/person	
Transport situation	freight traffic – 000 tkm/km ² passenger traffic – 000 pass.km/km ²	
Normal fare [Euro]	Normal fare (Euro) for a month of public transport use - for urban and suburban traffic, monthly fare per average length of journey (indicate average length of journey in kilometres - for intercity traffic, fare for each journey per average length of journey (indicate average length of journey in kilometres)	
Receipts from public sector for investments in infrastructure and rolling stock	Percentage of public receipts for investments in public transport infrastructure and rolling stock related to total investments [%]	
Passenger trains speed	- urban and suburban trains (km/h) - Intercity trains (km/h)	
Fulfilment of contractual obligations	 passenger traffic on urban, suburban and intercity routes, proportion of trains running according to time table (%) freight traffic – proportion of consignments delivered within scheduled time (%) 	

2. Safety and security indicators				
Indicator	Definition	Reply		
Traffic safety	Ratio of passenger injuries by 10 ⁶ passenger km [number/10 ⁶ pass. km]			
Employee safety	Percentage of injuries by number of employees; percentage of criminal attacks on employees. [%]			
Driver training	Number of in service training hours per total number of drivers a year [training hours/total number of drivers]			
Security at stops and stations/ freight terminals and transfer points	Measure of passengers'/users sense of security at the stops and stations/ freight terminals and transfer points. Rate 1=poor to 6=excellent			
Security in vehicles	Measure of passengers'/users sense of security in passenger and freight vehicles. Rate 1=poor to 6=excellent			

3. Environmental in	npacts	
Indicator	Definition	Reply
Quality of vehicles	Number of vehicles failed in emission test per 100 tested vehicles [number/100 tested vehicles]	
Emissions	Emissions of CO2, non-methane volatile organic compound (NMVOC) and nitrogen oxide (NOx) per 106 vehicle km [tonnes/106 vehicle km.]	
Noise levels	Percentage of population exposed to road traffic noise levels above 55 Ldn dB; and percentage of population exposed to rail noise above 55 LAeq dB. [%]	
Land take	Land take by roads and railways as percentage of country surface. [%]	
Exposure	Exposure of urban population to daily mean SO2 concentrations of more than 125 mg/m3 [in number of residents]	
Emissions of harmful substances	- kg/1,000 pkm - kg / 1,000 tkm	
Use of energy	 freight traffic – kWh (tonnes of standard fuel)/1,000 tkm urban and suburban passenger traffic – kWh (kg of standard fuel)/1,000 pkm intercity passenger traffic – kWh (kg. of standard fuel)/1,000 pkm. 	
Ratio of excess emissions	Ratio of excess emissions of harmful substances to total emissions of harmful substances	

Note:

- strikethrough text was proposed to be deleted from the questionnaire given the lack of relevant statistical information;
- bold text was proposed to be included in the questionnaire.
