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## Working Party on Rail Transport

### Seventy-first session

Geneva, 27-29 November 2017

Item 12 of the provisional agenda

### Productivity in Rail Transport

## Rail productivity indicators: questionnaire results

### Note by the secretariat

The table below presents the results of the online questionnaire on rail productivity indicators, updated in 2017. The following countries replied to the questionnaire: Albania, Belgium, Bosnia and Herzegovina, Canada and Finland.

	Belgium	Finland	Albania	Bosnia and Herzegovina	Canada
3. Labour productivity indicator (high-speed and passengers conventional rail)					
Km of network in use	6 511	5 926	333	1 032	13 500
Number of employees (excluding freight trains employees)	19 086		990	3 211	3 500
4. Labour productivity indicator (freight trains)					
Net tonne-km (million tkm)	6 604	9 455	9	1 152	397 787
Number of employees	29 650		110	3 279	40 500
5. Labour productivity indicator (passengers trains, high speed and conventional)					
Passenger-km (million pkm)	10 025	3 868	3	24	1 381
Number of employees	19 086		90		3 500

	Belgium	Finland	Albania	Bosnia and Herzegovina	Canada
<b>6. Productivity indicator of freight transport</b>					
Net tonne-km (million tkm)	6 604	9 455	9	1 152	397 787
Km of network	6 511	5 926	333	1 032	45 199
<b>7. Productivity of passenger transport (high-speed – conventional rail)</b>					
Passenger-km (million pkm)	1 025	3 868	3	24	1 381
Km of network	6 511	5 926	333	1 032	13 500
<b>8. Productivity of locomotives (Freight transport)</b>					
Net tonne-km (million tkm)	6 604	9 455	9	1 152	397 787
Number of locomotives			12	93	3 053
<b>9. Productivity of locomotives (Passengers transport: high-speed – conventional rail)</b>					
Passengers-km	1 025	3 868	3	24	1 381
Number of locomotives	228		7	93	93
<b>10. Productivity of wagons (freight transport)</b>					
Net tonne-km (million tkm)	6 604	9 455	9	1 152	397 787
Number of wagons		8 876	40	2 839	54 310
<b>11. Productivity of wagons (Passengers transport: high-speed – conventional rail)</b>					
Passenger-km (million pkm)	1 025	3 868	3	24	1 381
Number of wagons	3 879	1 203	24	97	596
<b>12. Productivity of lines (freight transport)</b>					
Freight train-km (million ftkm)	13 046	13	1	2	359
Km of network	6 511	5 926	333	1 032	45 199
<b>13. Productivity of lines (Passengers transport: high-speed – conventional rail)</b>					
Passenger train-km	83 033	34	1	2	1 422
Km of network	6 511	5 926	333	1 032	13 500
<b>14. Energy consumption (for traction power)</b>					
Megajoules	473 382 800	3 140 000 000	0	194 563 258	
1000 gross tonne-km	14 541 043	30 241 000		145	

	Belgium	Finland	Albania	Bosnia and Herzegovina	Canada
<b>15. Efficient service delivery (freight transport)</b>					
Price (million US\$)		363	1		10 273
Net tonne-km (million tkm)	6 604	9 455	9	1 152	397 787
<b>16. Efficient service delivery (passengers transport: conventional and high speed)</b>					
Price (million US\$)	2 615	456	3		468
Passenger-km (million pkm)	10 025	3 868	3	24	1 381
<b>17. Service quality (freight transport speed)</b>					
Average freight train speed (km/h)	44		40	38	26
<b>18. Service quality (passengers transport speed)</b>					
Average passengers train speed (km/h)	54		40	58	
<b>19. Service quality (freight transport delays)</b>					
% of freight trains arrivals less than 15 minutes late	59		100		
<b>20. Service quality (passengers transport delays)</b>					
% of passenger trains arrivals less than 15 minutes late	97		100		73
<b>21. Safety (freight transport)</b>					
Freight Train accidents	6		5	21	1 187
Freight train-km (million ftkm)	13 046		1	2	1 521
<b>22. Safety (passengers transport)</b>					
Passengers train accidents	16		6	6	66
Passengers train-km	83 033		1	2	1 422
<b>23. Accessibility and network density</b>					
Km of network	6 511			1 032	45 199
Total area of country (in km <sup>2</sup> )	30 528		10 630	51 197	9 093 507

	Belgium	Finland	Albania	Bosnia and Herzegovina	Canada
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24. Accessibility and GDP

Net tonne-km (million tkm)	6 604	9 455		1 152	397 787
US\$ GDP (billion)	466	237	13	16	1 530

25. Accessibility of rail (freight)

Rail Net tonne-km (million tkm)	6 604	9 455		12 350	397 787
Truck Net tonne-km (million tkm)	53 673	25 000			277 396

26. Environment quality (freight transport)

Kilojoules of energy consumed by freight trains	4733182800000		0	14 574	93 800 000 000 000
Freight trains Net tonne-km (million tkm)	6 604	9 455		13 350	397 787

27. Financial sustainability (% of costs covered from internal cash generation)

Real return on total gross assets (%)			13		
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28. Management (ratio of turnover between passenger and freight)

ratio of turnover in rail passenger traffic to turnover in rail freight traffic (%)			3		0.046
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29. Management (locomotives) - Locomotive availability (%)

Locomotive availability (%)	82		1	85	
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30. Management (wagons) - Freight and passenger wagon availability (%)

Wagons for freight and passengers used in one year			64	1	
Total number of wagons for both freight and passengers	3 879		394	2 990	