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Economic consequences of regulation in the European international road transport

Faculty of Economics



Scope of the research

- Local (one country based) study measuring impact of „Mobility Package” on national markets
 - Field research with Polish transport enterprises (>140 statistically valid sample)
 - Augmented by in-depth interviews
- EU-wide econometric study measuring relation between development of transport sector and economic growth

$$\ln(GDP_{pit}) = \beta_{i0} + \beta_{i1} \ln(x_{it}) + \varepsilon_{it}$$

where: GDP_p is a GDP per capita per country i in period t , x – is a measure of transport sector development in country i and period t , ε is error factor, and $(i=1.2.....24)$, $(t=2000. 2016)$.

Research results – operations and revenue

Impact / Regulation	Cabotage limited to 5 days	Forbidding rest in vehicles	Posting applicable after 5 days
No of transport operations			
Reduction of more than 7%	8.3%	66.7%	67.4%
Reduction between 2% and 7%	27.8%	23.6%	20.8%
+/- 2%	43.8%	3.5%	5.6%
Increase between 2% and 7%	13.2%	1.4%	2.1%
Increase of more than 7%	6.9%	4.9%	4.2%
Revenues			
Reduction of more than 5%	5.60%	65.30%	56.30%
Reduction between 2% and 5%	29.90%	19.40%	28.50%
+/- 2%	40.30%	4.90%	6.90%
Increase between 2% and 5%	14.60%	4.20%	4.90%
Increase of more than 5%	9.70%	6.30%	3.50%

Research results - costs

Impact / Regulation	Cabotage limited to 5 days	Forbidding rest in vehicles	Posting applicable after 5 days
Total operating costs			
Increase of more than 5%	7.6%	52.1%	55.6%
Increase between 2% and 5%	30.6%	18.1%	16.7%
+/- 2%	34.0%	10.4%	10.4%
Reduction between 2% and 5%	16.0%	16.0%	13.2%
Reduction of more than 5%	11.8%	3.5%	4.2%
Labor costs			
Increase of more than 30%	10.4%	50.7%	62.5%
Increase between 5% and 30%	19.4%	21.5%	10.4%
+/- 5%	49.3%	18.8%	18.1%
Reduction between 5% and 30%	2.1%	0.0%	0.0%
Reduction of more than 30%	18.8%	9.0%	9.0%

Research results – vehicle fleets

Impact / Regulation	Cabotage limited to 5 days	Forbidding rest in vehicles	Posting applicable after 5 days
Vehicle fleet - small enterprises			
Reduction of more than 50%	6.3%	93.8%	87.5%
Reduction up to 50%	18.8%	6.3%	12.5%
+/- 0%	56.3%	0.0%	0.0%
Increase up to 50%	6.3%	0.0%	0.0%
Increase above 50%	12.5%	0.0%	0.0%
Total	100.0%	100.0%	100.0%
Vehicle fleet - large enterprises			
Reduction of more than 10%	5.5%	37.5%	54.7%
Reduction between 5% and 10%	12.5%	26.6%	8.6%
+/- 5%	58.6%	25.8%	25.8%
Increase between 5% and 10%	5.5%	0.8%	0.8%
Increase above 10%	18.0%	9.4%	10.2%
Total	100.0%	100.0%	100.0%

Research results - employment

Impact / Regulation	Cabotage limited to 5 days	Forbidding rest in vehicles	Posting applicable after 5 days
Employment - small enterprises			
Reduction of more than 30%	6.3%	87.5%	87.5%
Reduction between 5% and 30%	25.0%	12.5%	12.5%
+/- 5%	62.5%	0.0%	0.0%
Increase between 5% and 30%	0.0%	0.0%	0.0%
Increase above 30%	6.3%	0.0%	0.0%
Total	100.0%	100.0%	100.0%
Employment - large enterprises			
Reduction of more than 20%	5.5%	33.6%	35.2%
Reduction between 5% and 20%	14.8%	34.4%	33.6%
+/- 5%	55.5%	18.8%	20.3%
Increase between 5% and 20%	2.3%	1.6%	0.8%
Increase above 20%	21.9%	11.7%	10.2%
Total	100.0%	100.0%	100.0%

Research results – empty runs

Impact / Regulation	Cabotage limited to 5 days	Forbidding rest in vehicles	Posting applicable after 5 days
Increase above 7%	2.1%	73.6%	66.0%
Increase between 2% and 7%	24.3%	13.9%	10.4%
+/- 2%	39.6%	3.5%	11.8%
Reduction between 2% and 7%	8.3%	1.4%	3.5%
Reduction of more than 7%	25.7%	7.6%	8.3%
Total	100.0%	100.0%	100.0%

GDP vs transport sector performance

Country	Road transport sector employment	No of road transport enterprises	Road transport performance in tkm	Road transport turnover
Core countries				
Belgium	-0.496	0.563	-0.974	0.912
Czech Republic	0.936	0.869	0.880	0.977
Dania	-0.737	-0.893	-0.885	0.668
Germany	0.806	0.469	0.458	0.965
France	0.146	-0.897	-0.728	0.909
Italy	0.080	-0.807	-0.511	0.899
Luxembourg	0.654	0.356	0.057	0.914
Netherlands	-0.366	0.447	-0.668	0.974
Austria	0.578	0.438	-0.876	0.953
Slovenia	0.978	-0.812	0.976	0.988
Peripheral countries				
Bulgaria	0.395	-0.543	0.938	0.933
Estonia	0.928	0.985	0.570	0.990
Ireland	0.489	0.321	-0.108	0.781
Spain	0.538	-0.064	0.774	0.911
Latvia	0.979	0.981	0.968	0.985
Lithuania	0.994	0.989	0.988	0.993
Hungary	0.627	-0.921	0.954	0.964
Poland	0.988	-0.380	0.973	0.984
Portugal	0.568	0.326	0.397	0.914
Romania	0.979	0.986	0.350	0.983
Slovakia	0.893	0.887	0.988	0.915
Finland	0.809	-0.766	-0.820	0.976
Sweden	0.890	0.148	0.325	0.986
UK	-0.551	0.241	0.270	0.236

Thank you for your attention



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