



B 4	SOCIAL IMPACTS	AFFECTED SEGMENTS														Geographical level		Source				
		Passengers					Transport operators						Employees in transport	Residents	Economy	Public bodies	Society	1st level	2nd level	Source of assessment	Spatial level of source	
		Road	Rail	Air	Public transport	Slow modes	Road	Rail	IWW	Air	Maritime	Public transport										
B 4.1	Health (incl. well-being)	↗			↗		↗						↗	↗					L	R	S	N
B 4.2	Safety	↗			↗		↗						↗	↗					L	R	S	N
B 4.3	Crime, terrorism and security																					
B 4.4	Accessibility of transport systems																					
B 4.5	Social inclusion, equality & opportunities																					
B 4.6	Standards and rights (related to job quality)						↗						↗						N	I	S	N
B 4.7	Employment and labour markets																					
B 4.8	Cultural heritage / culture																					
B 4.I	Overall impacts on social groups	Increased job satisfaction																				
B 4.II	Implementation phase	The positive effects of ecodriving training decrease over time if no refreshment training is taking place [4]																				
B 4.III	Operation phase																					
B 4.IV	Summary / comments concerning the main impacts	The total GHG reduction potential of fuel-efficient driving depends strongly on the way the measure is implemented or promoted and on the assumed effectiveness of such promotion measures. Indicative calculations for EU-15 estimate that a total reduction of 1.8 Mtonne/y could be achieved in 2012, increasing to 5.5 Mtonne/y in 2020 if eco-driving is included in the lessons for new drivers [4]																				
B 4.V	Quantification of impacts																					

B 5	ENVIRONMENTAL IMPACTS	AFFECTED SEGMENTS														Geographical level		Source					
		Passengers					Transport operators						Employees in transport	Residents	Economy	Public bodies	Society	1st level	2nd level	Source of assessment	Spatial level of source		
		Road	Rail	Air	Public transport	Slow modes	Road	Rail	IWW	Air	Maritime	Public transport											
B 5.1	Air pollutants																						
B 5.2	Noise emissions																						
B 5.3	Visual quality of the landscape																						
B 5.4	Land use																						
B 5.5	Climate																						
B 5.6	Renewable or non-renewable resources																						
B 5.I	Overall impacts on social groups																						
B 5.II	Implementation phase																						
B 5.III	Operation phase																						
B 5.IV	Summary / comments concerning the main impacts	The main environmental benefit from ecodriving concerns the reduction of fuel consumption and CO2. Furthermore, ecodriving also reduces air pollutants such as Hydrocarbons, carbon monoxides, particulates and nitrous oxides [2 , p.12]																					
B 5.V	Quantification of impacts	Ecodriving training can be very effective with savings in fuel consumption between 3-11%: 10% fuel savings on average directly after the ecodriving course. The average reduction of the mean fuel consumption rate is in the range of 9.5 % on the highway and 11 % in the city. This positive benefit was maintained approximately six months after which a significant drop was observed. The long term effect is less well known, but is expected to be significantly smaller: 5-7% savings aver a year or more [2] and [5]. Other sources claim that the long term effect of applying eco-driving is a fuel consumption reduction of between 3% to 4.5%. [4]																					

C REFERENCES		
C 1	Other TPMs of this subcategory	Fuel efficiency labelling for new cars
C 2	References	<p><b>International</b></p> <p>[1] Bureau de l'efficacité et de l'innovation énergétiques (2011). Eco-driving training pilot project for light vehicles. Ministère des Ressources naturelles et de la Faune, Quebec Website of Quality Alliance Eco-Drive (QAED).</p> <p>[2] GTZ (2005). Sustainable Transport. A sourcebook for policy-makers in developing cities. Module 4f: Ecodriving. Commissioned by Federal Ministry for Economic Cooperation and Development.</p> <p>[3] Qian, G. and Chung, E. (2011). Evaluating effects of eco-driving at traffic intersections based on traffic micro-simulation. Australasian Transport Research Forum 2011 Proceedings 28 - 30 September 2011, Adelaide, Australia; Publication website: <a href="http://www.patrec.org/atrf.aspx">http://www.patrec.org/atrf.aspx</a></p> <p>[4] TNO (2006). Review and analysis of the reduction potential and costs of technological and other measures to reduce CO2-emissions from passenger cars. Commissioned by the European Commission. DG-ENTR.</p> <p>[5] CE Delft (2009) EU Transport GHG: Routes to 2050. Operational options for all transport modes. Delft (<a href="http://www.eutransportghg2050.eu/cms/">http://www.eutransportghg2050.eu/cms/</a>)</p>