

Table of contents

List of abbreviations	9
Executive summary	11
Chapter 1. Defining the economic cost of health impacts	15
1.1. Mortality: The value of statistical life	17
1.2. Morbidity: In search of a standard method	19
1.3. The dominance of mortality costs over morbidity costs	23
Notes	26
References	27
Chapter 2. Reviewing the evidence on and calculating the cost of the health impacts of air pollution	29
2.1. Improved reporting versus real changes in impacts and costs ..	30
2.2. Air pollution from road transport	37
2.3. Health impacts of air pollution	42
2.4. Economic cost of the health impacts of air pollution	53
2.5. Road transport's share of the above economic cost	62
Notes	65
References	67
Chapter 3. Rethinking appraisals to mitigate the health impacts of air pollution from road transport	73
References	78
Tables	
1.1. CAFÉ Programme cost-benefit analysis (CBA), with and without WTP values	24
1.2. TSAP cost-benefit analysis (CBA), with mortality in VOLYs and VSLs	25
2.1. Selected risk factors ranked by attributable burden of disease in 1990 and 2010	33
2.2. Selected risk factors ranked by attributable burden of disease in selected regions in 2010	34
2.3. Deaths, YLLs and DALYs from ambient air pollution in 2005 and 2010	44
2.4. Deaths from ambient air pollution in OECD countries	46

2.5. Years of life lost (YLL) from ambient air pollution in OECD countries in 2005 and 2010	47
2.6. Disability-adjusted life years lost (DALYs) from ambient air pollution in OECD countries in 2005 and 2010.....	48
2.7. Deaths from ambient air pollution in China in 2005 and 2010.....	49
2.8. YLLs from ambient air pollution in China in 2005 and 2010.....	49
2.9. DALYs from ambient air pollution in China in 2005 and 2010	50
2.10. Deaths from ambient air pollution in India in 2005 and 2010	50
2.11. YLLs from ambient air pollution in India in 2005 and 2010.....	51
2.12. DALYs from ambient air pollution in India in 2005 and 2010	51
2.13. Economic cost of deaths from ambient air pollution in OECD countries in 2005 and 2010	58
2.14. Indicative estimate of the economic cost of health impacts from ambient air pollution including morbidities in OECD countries in 2005 and 2010	59
2.15. Economic cost of deaths from ambient air pollution in China in 2005 and 2010	60
2.16. Indicative estimate of the economic cost of health impacts from ambient air pollution including morbidities in China in 2005 and 2010	60
2.17. Economic cost of deaths from ambient air pollution in India in 2005 and 2010	61
2.18. Indicative estimate of the economic cost of health impacts from ambient air pollution including morbidities in India in 2005 and 2010	62
2.19. Indicative estimate of road transport's share of the economic cost of deaths from ambient air pollution in EU24 in 2010	64
2.20. Indicative estimate of road transport's share of the economic cost of health impacts from ambient air pollution including morbidities in EU24 in 2010	64
2.21. Indicative estimate of road transport's share of the economic cost of deaths from ambient air pollution in OECD countries in 2010..	64
2.22. Indicative estimate of road transport's share of the economic cost of health impacts from ambient air pollution including morbidities in OECD countries in 2010.....	65
3.1. TSAP CBA; costs, benefits and B/C ratios	75
3.2. Car, bus and rail revenues in relation to marginal social costs in Great Britain.....	77
Figures	
2.1. Estimates of deaths from ambient particulate matter (PM) pollution	32
2.2. The economic cost of the health impacts of air pollution from road transport: Three links in the chain	35