

# Curriculum Vitae

Mark J Koetse, PhD

## Personal

Name: Koetse  
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## Working address

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## Education

2000-2005: PhD, Economics, VU University, Amsterdam. Title of dissertation: 'Determinants of Investment Behaviour: Methods and Applications of Meta-Analysis' (March 14, 2006).  
2000-2001: Graduate courses Tinbergen Institute (TI): Introductory econometrics; Mathematical methods for economists; Theory of the organisation.  
2000: Graduate courses Netherlands Network of Economics (NAKE): Regulation and privatisation; Law and economics; Meta-Analysis in economics.  
1992-1999: MSc, Economics, Erasmus Universiteit, Rotterdam (March 18, 1999).  
1986-1992: Athenaeum, College Hageveld, Heemstede.

## Past and current work

As a PhD student I have been working extensively on methods and applications of meta-analysis. Using Monte Carlo analysis the methodical work focused on analysing the negative impact of variation in study outcomes on the results of a meta-analysis, and the performance of well-know meta-analysis models in mitigating these effects. The meta-analysis applications focused on capital-energy substitution in production processes and on the relationship between investment and uncertainty.

Since finishing my PhD in March 2006 I have been working as a postdoc researcher at the Department of Spatial Economics, VU University, Amsterdam. Within the BSIK programme 'Climate Change Spatial Planning' I focus on the consequences of climate change on the transport sector. Specifically I did an extensive literature survey and worked on several studies into the effects of adverse weather and climate change on road and rail transport. Within the TRANSUMO research programme I am working on climate change and adaptation measures in the transport sector, and on the effects of climate change and adverse weather with a focus on rail transport.

Within the NWO programme 'Reinventing Landscape Planning in MetroLand' I have been working on a meta-analysis on monetary values of green open space, and I am currently conducting a choice experiment on the monetary value of green open space. Related to this I am coediting a book on economic valuation of environmental quality and applications in social cost-benefit analysis.

### **Previous appointments**

- 2000-2005: PhD student, Department of Spatial Economics, VU University, Amsterdam (Supervisors: Prof.dr. Peter Nijkamp, Prof.dr. Raymond J.G.M. Florax, dr. Henri L.F. de Groot).
- 2000-2005: Junior researcher, Department of Spatial Economics, VU University, Amsterdam.

### **Teaching experience**

- 2007-present: Thematic lectures 'Transport and Network Economics' (BA).
- 2009-present: Statistical techniques (BA).

### **PhD supervision**

- Current supervision: Muhammad Sabir.

### **Reviewer for**

Energy Economics; Environmental and Resource Economics; European Journal of Transport and Infrastructure Research; Journal of Economic Surveys; Multivariate Behavioural Research; Transport Reviews; US National Science Foundation (NSF).

### **Organisation seminars**

- 2008-present: Organisation of *EUREKA lunch seminar series*, Department of Spatial Economics, VU University, Amsterdam.
- 2008: Organisation *RSA Najaarsdag 2008*, with Jan Rouwendal and Piet Rietveld, Utrecht, 26 November 2008.
- 2006: Organisation of Tinbergen Institute workshop *Meta-analysis*, with Raymond Florax and Henri de Groot, VU University, Amsterdam, 15 March 2006.

## Papers and Publications

### International Journals

- Koetse MJ, Florax RJGM, De Groot HLF, 2009, Consequences of Effect Size Heterogeneity for Meta-Analysis: A Monte-Carlo Study, *Statistical Methods and Applications*, Published online: 07 July 2009, DOI 10.1007/s10260-009-0125-0.
- Koetse MJ, Rouwendal J, Transport and Welfare Consequences of Infrastructure Investment: A Case Study for The Betuweroute, forthcoming in *Trasporti Europei*.
- Koetse MJ, De Groot HLF, Florax RJGM, 2009, A Meta-Analysis of the Investment-Uncertainty Relationship, *Southern Economic Journal* **76** (1), 283–306 .
- Koetse MJ, Rietveld P, 2009, The Impact of Climate Change and Weather on Transport: An Overview of Empirical Findings, *Transportation Research Part D* **14** (3), 205–221.
- Koetse MJ, De Groot HLF, Florax RJGM, 2008, Capital-Energy Substitution and Shifts in Factor Demand: A Meta-Analysis, *Energy Economics* **30** (5), 2236–2251.
- Koetse MJ, De Groot HLF, Nijkamp P, 2008, Barriers to Investment in Energy-Saving Technologies in Small Firms: The Energy-Efficiency Paradox Revisited, *Studies in Regional Science* **38** (1), 1–15.
- Rietveld P, Koetse MJ, 2008, Paid Parking in Cities: Regulating Parking Demand and Consequences for the Retail Sector, *Studies in Regional Science* **38** (1), 215–225.
- Koetse MJ, Van der Vlist AJ, De Groot HLF, 2006, The Impact of Perceived Expectations and Uncertainty on Firm Investment, *Small Business Economics* **26** (4), 365–376.
- Bruinsma FR, Koetse MJ, Rietveld P, Vreeker R, 2002, Social Costs of Direct and Indirect Land Use by Transport Infrastructure: An Estimation for The Netherlands, *European Journal of Transport and Infrastructure Research* **2** (2), 73–93.

### Dutch journals

- Koetse MJ, Rietveld P, 2007, Gevolgen van Klimaatverandering voor de Transportsector: Een Overzicht van de Literatuur, *Tijdschrift Vervoerswetenschap* **43** (4), pp. 4–14.
- Nijkamp P, Ubbels B, Koetse MJ, 1999, Infrastructuur en Duurzaamheid, *Economisch Statistische Berichten*, Dossier Economie en Infrastructuur, D4–D8.

### Books and contributions to international edited volumes

- Koetse MJ, De Groot HLF, Florax RJGM, A Meta-Regression Analysis of the Investment-Uncertainty Relationship, forthcoming in: RJGM Florax, HLF de Groot, P Mulder (eds.), *Improving Energy Efficiency through Technology: Trends, Investment Behaviour and Policy Design*, Edward Elgar, Cheltenham.
- Dekkers J, Koomen E, Koetse MJ, Brander LM, 2009, Proximity to Local Open Space Increases House Values, in: AJJ van der Valk, T van Dijk (eds.), *Regional Planning for Open Space*, Routledge, London, pp. 107–124.
- Rodenburg CR, Koetse MJ, Rietveld P, 2008, Experiments on Fiscal Federalism in The Netherlands: Institutional Coordination of Parking Policy in Urban Networks, in: P Nijkamp, M Giaoutzi (eds.), *Network Strategies in Europe: Developing the Future for Transport and ICT*, Ashgate, London, pp. 279–298.
- Rietveld P, Bruinsma FR, Koetse MJ, 2007, User Charger for Infrastructure Maintenance Costs: A Comparison of Road, Rail and Inland Navigation, in: C Karlsson, WP Anderson, B Johansson, K Kobayashi (eds.), *The Management and Measurement of Infrastructure: Performance, Efficiency and Innovation*, Edward Elgar, Cheltenham, pp. 198–225.
- Koetse MJ, 2006, *Determinants of Investment Behaviour: Methods and Applications of Meta-Analysis*, Dissertation VU University, Tinbergen Institute Research Series, no. 374, Amsterdam.
- Rietveld P, Koetse MJ, 2004, Crime and Offences in Transport, in: W Dullaert, BAM Jourquin, JB Polak (eds.), *Across the Border; Building upon a Quarter Century of Transport Research in the Benelux*, De Boeck, Antwerp, pp. 293–312.

### **Books and contributions to national edited volumes**

- Koetse MJ, Rietveld P (eds.), forthcoming, *Economische Waardering van Omgevingskwaliteit: Casestudies en Toepassingen in de MKBA*, Sdu, Den Haag, The Netherlands.
- Koetse MJ, Brander LM, Meta-analyses naar de Waarde van Openbaar Stedelijk Groen, forthcoming in: MJ Koetse, P Rietveld (eds.), *Economische Waardering van Omgevingskwaliteit: Casestudies en Toepassingen in de MKBA*, Sdu, Den Haag, The Netherlands.
- Rietveld P, Koetse MJ, 2005, Gegeneraliseerde Kosten van Terrorisme en Criminaliteit in Transport: Een Verkenning, in: F Witlox (ed.), *Beveiliging in het Vrachtovervoer: Mythe, Macht of Noodzaak?*, Garant, Antwerpen-Apeldoorn, pp. 113–123.
- Nijkamp P, Ubbels B, Koetse MJ, 2000, *Infrastructuur als Portfolio; Een Duurzaamheidsvisie op Infrastructuur*, Delft University Press, Delft.

### **Working papers**

- Sabir M, Van Ommeren J, Koetse MJ, Rietveld P, 2008, Welfare Effects of Adverse Weather Through Speed Changes in Car Commuting Trips, Tinbergen Institute Discussion Paper 08-087/3, VU University, Amsterdam.
- Koetse MJ, Rouwendal J, 2008, Transport and Welfare Consequences of Infrastructure Investment: A Case Study for The Betuweroute, Serie Research Memoranda, RM 2008–12, Faculty of Economics and Business Administration, VU University, Amsterdam.
- Brander LM, Koetse MJ, 2007, The Value of Urban Open Space: Meta-Analyses of Contingent Valuation and Hedonic Pricing Results, IVM Working Paper 07/03, Institute for Environmental Studies, VU University, Amsterdam.
- Koetse MJ, Florax RJGM, De Groot HLF, 2007, The Impact of Effect-Size Heterogeneity on Meta-Analysis: A Monte Carlo Experiment, Tinbergen Institute Discussion Paper 07–052/3, VU University, Amsterdam.
- Koetse MJ, De Groot HLF, Florax RJGM, 2006, Capital-Energy Substitution and Shifts in Factor Demand: A Meta-Analysis, Tinbergen Institute Discussion Paper 06–061/3, VU University, Amsterdam.
- Koetse MJ, De Groot HLF, Florax RJGM, 2006, The Impact of Uncertainty on Investment: A Meta-Analysis, Tinbergen Institute Discussion Paper 06–060/3, VU University, Amsterdam.
- Koetse MJ, Florax RJGM, De Groot HLF, 2005, Correcting for Primary Study Misspecifications in Meta-Analysis, Tinbergen Institute Discussion Paper 05–029/3, VU University, Amsterdam.
- Koetse MJ, Van der Vlist AJ, De Groot HLF, 2003, Investment, Expectations and Uncertainty: Empirical Evidence on the Relevance of Firm Size, Tinbergen Institute Discussion Paper 03–025/3, VU University, Amsterdam.
- Bruinsma FR, Koetse MJ, Rietveld P, 2001, Social Costs of Land Use Claims for Transport Infrastructure: A Survey for The Netherlands, Serie Research Memoranda, RM 2001–33, Faculty of Economics and Business Administration, VU University, Amsterdam.

### **Presentations**

- Impact of climate change and weather on transport: A survey of empirical evidence, presented at the *EAERE conference 2009*, VU University, Amsterdam, The Netherlands, 25–27 June 2009.
- The value of urban open space: Meta-Analyses of contingent valuation and hedonic pricing results, presented at the *RSA Najaarsdag 2008*, Utrecht, The Netherlands, 26 November 2008.
- Waardering open ruimte in woonomgeving, presented at the *RSA Najaarsdag 2008*, Utrecht, The Netherlands, 26 November 2008.
- Transport and welfare consequences of infrastructure investment: A case study for the Betuweroute, presented at the *3<sup>rd</sup> Kuhmo-Nectar Conference*, VU University, Amsterdam, The Netherlands, 3–4 July 2008.

- Effects of climate change and adverse weather conditions on transport, presented at the *International Congress Underground Space Challenges in Urban Development*, Amsterdam, The Netherlands, 28–29 Januari 2008.
- The value of urban open space: Meta-Analyses of contingent valuation and hedonic pricing results, presented at the *Ruimteconferentie 2007*, Rotterdam, The Netherlands, 30 October 2007.
- Capital-energy substitution and shifts in factor demand: A meta-analysis, presented at the *Aarhus Colloquium for Meta-Analysis in Economics*, Aarhus University, Sønderborg, Denmark, 28–29 September 2007.
- The impact of transport pricing schemes on infrastructure appraisal: A case study for the Betuweroute, presented at the *Second International Conference on Funding Transport Infrastructure*, KU Leuven, Belgium, 20–21 September 2007.
- Consequences of climate change and weather conditions for the transport sector, presented at the *International Conference Climate Changes Spatial Planning*, World Forum Convention Centre, The Hague, The Netherlands, 12–13 September 2007.
- Effect-size heterogeneity in meta-analysis: A Monte-Carlo experiment, presented at the *Interdisciplinary Workshop on Meta-analysis*, University of Cologne, Cologne, Germany, 26–27 October 2006.
- Beprijzing van het wegvervoer: Toedeling van beheer- en onderhoudskosten van rijkswegen aan weggebruikers, presented at the symposium *Gebruik van infrastructuur door het goederenvervoer: Uitwerking van beprijzing als instrument*, KIVI-NIRIA, Den Haag, 8 December 2005.
- Costs of road infrastructure for passenger and freight transport in The Netherlands, presented at the *43<sup>rd</sup> ERSA Congress*, Jyväskylä, Finland, 24–27 August 2004.
- Schattingen externe kosten van verkeer in West Europa, presented at the *Colloquium Vervoersplanologisch Speurwerk 2003*, Antwerpen, 20–21 November 2003.
- Investment under uncertainty: A quantitative analysis of empirical findings, presented at the colloquium *Meta-Analysis in Economics*, VU University, Amsterdam, 12–14 December 2002.
- Infrastructuurkosten van het goederenvervoer, presented at the *Colloquium Vervoersplanologisch Speurwerk 2002*, Amsterdam, 28–29 November 2002.
- Raming maatschappelijke kosten van ruimtegebruik door het verkeer, presented at the *Colloquium Vervoersplanologisch Speurwerk 2002*, Amsterdam, 30 November and 1 December 2000.
- Adoption of energy-saving technologies by small and medium-sized enterprises: An economists' perspective on the relevance of scale, presented at the *International Symposium on Green Productivity and Environmental Management in SMEs*, Fraunhofer Institute, Magdeburg, Germany, 1–5 September 2000.

### **Research project reports**

- Van Leeuwen E, Koetse MJ, Koomen E, Rietveld P, 2008, Spatial Economic Research on Climate Change and Adaptation, Kennis voor Klimaat rapport, Department of Spatial Economics, VU University, Amsterdam.
- Koetse MJ, Rouwendal J, 2008, Transport and Welfare Consequences of Infrastructure Investment: A Case Study for the Betuweroute, Task report Deliverable 5, Funding Infrastructure: Guidelines for Europe – FUNDING, VU University, Amsterdam.
- Van Ooststroom H, Annema JA, Kolkman J, 2008, Effecten van Klimaatverandering op Verkeer en Vervoer: Implicaties voor Beleid, Kennisinstituut Mobiliteitsbeleid (KiM), Den Haag.
- De Blaey A, Koetse MJ, Tseng Y, Rietveld P, Verhoef ET, 2004, Valuation of Safety, Time, Air Pollution, Climate Change and Noise: Methods and Estimates for Various Countries, Final report to ROSEBUD Thematic Network, VU University, Amsterdam.
- Rodenburg C, Koetse MJ, Rietveld P, 2004, National vs. Local/Regional Authorities in Parking Policy in The Netherlands, Final report for TIPP workpackage 5 - Task 5.8, VU University, Amsterdam.

- Dings JMW, Van Essen HP, Boon BH, Bruinsma FR, Rouwendal J, Koetse MJ, 2004, Onderhoud en Beheer van Infrastructuur voor Goederenvervoer; Deelstudie 1: Definities en Beprijzingsprincipes, CE, publication nr. 04.4707.22, Delft.
- Van Essen HP, Boon BH, Koetse MJ, Bruinsma FR, 2004, Onderhoud en Beheer van Infrastructuur voor Goederenvervoer; Deelstudie 2: Structuur en hoogte van kosten, CE, Publication nr. 04.4707.23, Delft.
- JPL Vermeulen, BH Boon, HP van Essen, LC den Boer, JMW Dings, FR Bruinsma, 2004, The Price of Transport: Overview of the Social Costs of Transport, CE, Publication nr. 04.4850.40, Delft.
- Bruinsma FR, Koetse MJ, Ubbels B, 2003, Internalisering Externe Kosten van het Verkeer; de Context, Overzicht en Analyse van Bestaande Kostenstudies en Theorie en Ervaringen met betrekking tot Internaliseren, VU University, Amsterdam.
- Bruinsma FR, Koetse MJ, Rietveld P, 2002, Infrastructuurkosten van het Goederenwegverkeer: Een Verkenning op basis van Beschikbare Gegevens, VU University, Amsterdam.
- Bruinsma FR, Koetse MJ, Rietveld P, Vreeker R, 2001, Raming Maatschappelijke Kosten van Ruimtegebruik door het Verkeer; Efficiënte Prijzen voor het Verkeer, VU University, Amsterdam.
- Nijkamp P, Ubbels B, Koetse MJ, 2000, Investerings in Infrastructuur, Publicatiereeks Milieustrategie 1999/20, Ministerie van VROM, Den Haag.
- Nijkamp P, Gaaff A, Vreeker R, Koetse MJ, Bruinsma FR, Brons M, 2000, Economische Effecten van Laagdrempelige Beschikbaarstelling van Overheidsinformatie, i.o.v. Ravi Bedrijvenplatform, VU University en Terp Advies, Amsterdam/Amersfoort.

### **Work in progress**

- Koetse MJ, Rietveld P (eds.), *Economische Waardering van Omgevingskwaliteit: Casestudies en Toepassingen in de MKBA*.
- Koetse MJ, Brander LM, Meta-analyses naar de Waarde van Openbaar Stedelijk Groen, forthcoming in: MJ Koetse, P Rietveld (eds.), *Economische Waardering van Omgevingskwaliteit: Casestudies en Toepassingen in de MKBA*.
- Brander LM, Koetse MJ, Verhoef ET, Landscape Design in the Zuidplaspolder: A Choice Experiment, Institute for Environmental Studies/Department of Spatial Economics, VU University, Amsterdam.
- Koetse MJ, Brander LM, Verhoef ET, A Choice Experiment to the Value of Green Open Space, Department of Spatial Economics/ Institute for Environmental Studies, VU University, Amsterdam.
- Sabir M, Koetse MJ, Rietveld P, The Impact of Weather Conditions on Mode Choice: Empirical Evidence for the Netherlands, Department of Spatial Economics, VU University, Amsterdam.
- Sabir M, Van Ommeren J, Koetse MJ, Rietveld P, Adverse Weather and Commuting Speed, Department of Spatial Economics, VU University, Amsterdam.
- Sabir M, Van Ommeren J, Koetse MJ, Rietveld P, Weather and Travel Time of Public Transport Trips: An Empirical Study for the Netherlands, Department of Spatial Economics, VU University, Amsterdam.
- Sabir M, Van Ommeren J, Koetse MJ, Rietveld P, Impact of weather on travel demand and mode choice: An Empirical Analysis, Department of Spatial Economics, VU University, Amsterdam.