

Curriculum Vitae

Mark J. Koetse, Ph.D.

Personal

Name: Koetse
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Date of birth: August 28, 1974 (Heemstede)
Nationality: Dutch
Sex: Man

Current appointments

2010-present: Senior researcher, Netherlands Environmental Assessment Agency (PBL), Den Haag, The Netherlands.
2005-present: Postdoc researcher, Department of Spatial Economics, VU University, Amsterdam, The Netherlands.

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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.
2000-2001: Graduate courses Netherlands Network of Economics (NAKE): Regulation and privatisation; Law and economics; Meta-Analysis in economics.
1992-1999: MSc, Economics, Erasmus University, Rotterdam (March 18, 1999).
1986-1992: Athenaeum, College Hageveld, Heemstede.

Previous appointments

- 2000-2005: PhD student, Department of Spatial Economics, VU University, Amsterdam, The Netherlands (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, The Netherlands.

Summary of 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 March 2005 I have been working as a postdoc researcher at the Department of Spatial Economics, VU University, Amsterdam. My research focused on the consequences of and adaptation to climate change in the transport sector. Furthermore I am working on a meta-analysis and a choice experiment on values 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. Since February 2010 I am employed as a senior researcher at the Netherlands Environmental Assessment Agency (PBL) in Den Haag. My work focuses on transport economics and transport policy assessment, but also includes research on environmental economics, the economics of climate change, and social costs-benefit analysis.

Teaching experience

- 2007-2010: Thematic lectures 'Transport and network economics' (BA).
- 2009-2010: Statistical techniques (BA).

PhD supervision

Current supervision: Muhammad Sabir.

Reviewer for

Emerging Markets Finance and Trade; 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; Norwegian Research Council.

Organisation seminars

- 2008-2010: 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 Henri de Groot and Raymond Florax, VU University, Amsterdam, 15 March 2006.

Papers and Publications

International Journals

- Sabir M, Van Ommeren J, Koetse MJ, Rietveld P, Adverse Weather and Commuting Speed, forthcoming in *Networks and Spatial Economics*.
- Koetse MJ, Rouwendal J, 2010, Rail Investment and Port Competition: A Case Study for the Betuweroute, *Trasporti Europei* **44**, 1–19.
- 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, 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 (in Dutch), *Tijdschrift Vervoerswetenschap* **43** (4), pp. 4–14.
- Nijkamp P, Ubbels B, Koetse MJ, 1999, Infrastructuur en Duurzaamheid (in Dutch), *Economisch Statistische Berichten*, Dossier Economie en Infrastructuur, D4–D8.

Books and contributions to edited volumes: International

- 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.
- Sabir M, Van Ommeren J, Koetse MJ, Rietveld P, 2010, Weather and Travel Time of Public Transport Trips: An Empirical Study for The Netherlands, in: M Givoni, D Banister (eds.), *Integrated Transport: From Policy to Practice*, Routledge, London, pp. 275–288.
- 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 edited volumes: National

- Koetse MJ, Rietveld P (eds.), *Economische Waardering van Omgevingskwaliteit: Casestudies en Toepassingen in de MKBA*, forthcoming at Sdu Uitgevers, 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*, forthcoming at Sdu Uitgevers, 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, Koetse MJ, Van Ommeren J, Rietveld P, 2010, Weather and Travel Time of Public Transport Trips, Tinbergen Institute Discussion Paper 10-029/3, VU University, Amsterdam.
- 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.

- Waardering open ruimte in woonomgeving (in Dutch), presented at the *RSA Najaarsdag 2008*, Utrecht, The Netherlands, 26 November 2008.
- Meta-analyses naar de waarde van groene open ruimte (in Dutch), 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 *3rd 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 (in Dutch), 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 *43rd ERSA Congress*, Jyväskylä, Finland, 24–27 August 2004.
- Schattingen externe kosten van verkeer in West Europa (in Dutch), 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 (in Dutch), presented at the *Colloquium Vervoersplanologisch Speurwerk 2002*, Amsterdam, 28–29 November 2002.
- Raming maatschappelijke kosten van ruimtegebruik door het verkeer (in Dutch), 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.
- De Blaeij 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 (in Dutch), 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 (in Dutch), CE, Publication nr. 04.4707.23, Delft.
- JPL Vermeulen, BH Boon, HP van Essen, LC den Boer, JMW Dings, FR Bruinsma, MJ Koetse, 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 (in Dutch), VU University, Amsterdam.
- Bruinsma FR, Koetse MJ, Rietveld P, 2002, Infrastructuurkosten van het Goederenwegverkeer: Een Verkenning op basis van Beschikbare Gegevens (in Dutch), 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 (in Dutch), VU University, Amsterdam.