

European Regional Science Association
CORE – UCL
34 Voie du Roman Pays
1348 Louvain-la-Neuve
Belgium

Delft, March 10, 2010

Dear Sir/Madam,

My name is Olaf Koops and I would like to participate in the ERSA Summer School 2010. I studied Economics and Geography at the Utrecht School of Economics and Econometrics and Operations Research at Tilburg University. I hold Master of Science degree in Economics and Geography after completing a thesis on the role of commuting in the new economic geography.

Since 2002 I work at TNO Built, Environment and Geosciences as an economic researcher at the business unit Innovation and Environment. TNO is primarily concerned with the application of knowledge to improve the competitiveness of companies and to assist governments with policy matters. TNO is a hybrid organization that works on both contract research and subsidized fundamental research. TNO Innovation and Environment is one of Europe's leading units on the topic of economic modeling, innovation, sustainability, and (interactive) policy making. The economic group of the business unit consist of 10 to 15 researchers who analyse spatial economic dynamics and investment strategies. We carry out projects related to urban development, transport and infrastructure, water and sediments, the construction sector, social investments, energy and the effects of climate change. Most of the projects the regional economics group work on are assigned by the European Union, the Netherlands Ministry of Housing, Spatial Planning and the Environment, the Netherlands Ministry of Transport, Public Works and Water Management, and regional governments in the Netherlands.

My major interest is in the field of regional economics and I am specialized in quantitative data research, cost-benefit analysis of transport investments, input-output analysis and regional economic modelling. I have worked on many small and large projects for local, regional and national governments in the Netherlands and for the EU. Examples of subjects are the economic effects of mainports in the Netherlands, cost-benefit analyses for climate change and road infrastructure investments, monitoring the economic performance of economic hotspots in the EU, forecasting the production of the construction sector in the Netherlands, and the sector studies on creative industries. Further I have worked on the construction of a regional CGE model for the Netherlands

(RAEM), a model that can be applied for calculating the impact of regional economic policy. Currently I am also involved in the development of the RHOMOLO model for DG Regio, that combines elements of the new economic geography and endogenous growth theory.

ERSA Summer School is a great opportunity to develop my skills and knowledge in economic modeling and regional economic theory. I am especially interested in the parts on Spatial Computable General Equilibrium Models, measuring productivity effects effects of regional infrastructure investment, road pricing and CBA. TNO provides me the opportunity to work on innovative and scientific projects in a project team with excellent colleagues. This work is challenging and I hope to develop to a senior economic researcher in the future. A disadvantage of a hybrid organization like TNO is that it provides less time for education compared to working at a university. ERSA Summer School is for me an effective and efficient manner to keep in touch with state-of-the-art theory and methodology in the field of regional economics.

My colleagues Dr. Walter Manshanden and Dr. Olga Ivanova are willing to write a letter of recommendation. Dr. Walter Manshanden is team manager of the economics group at TNO Innovation and Environment. Dr. Olga Ivanova is senior researcher and project leader of projects I currently work on. She is also one of the teachers at ERSA Summer School.

I look forward to participate in the ERSA Summer School. If you do have any questions, please do not hesitate to contact me.

Best regards,

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Business Unit of TNO Built Environment and Geosciences
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**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name	Olaf Koops
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Nationality	Dutch
Date of birth	09.01.1980

WORK EXPERIENCE

- | | |
|--|---|
| • Dates (from – to) | 09.2002- present |
| • Name and address of employer | TNO Built Environment and Geosciences
Innovation & Environment
Van Mourik Broekmanweg 6
P.O. Box 49
2600 AA Delft |
| • Type of business or sector | Non-profit governmental organization |
| • Occupation or position held | Researcher in economic policy |
| • Main activities and responsibilities | Analysing economic performances of regions and sectors, SCGE modelling,
cost-benefit analysis, consultancy |

EDUCATION AND TRAINING

- | | |
|--|---|
| • Dates (from – to) | 09.2007 – 04.2009 |
| • Name and type of organization providing education and training | University of Utrecht, The Netherlands |
| • Principal subjects/occupational skills covered | <ul style="list-style-type: none">• Theme of the Master thesis: “Commuting in the new economic geography”• Major focus of the program on the new economic geography and theories from regional science• Emphasis on empirical testing of theories |

- Title of qualification awarded
- Level in national classification (if appropriate)

Master of Science in Economics and Geography

- Dates (from – to)

09.1997 – 07.2004

- Name and type of organization providing education and training
- Principal subjects/occupational skills covered

Tilburg University, The Netherlands

Primary subjects covered by the program are econometrics, equilibrium theory, economic modelling and micro-economics

- Title of qualification awarded
- Level in national classification (if appropriate)

Bachelor degree in Econometrics and Operations Research

PERSONAL SKILLS AND COMPETENCES

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.

MOTHER TONGUE

Dutch

OTHER LANGUAGES

English (Excellent, good, basic)

- Reading skills
- Writing skills
- Verbal skills

Excellent
Good
Good

German

- Reading skills
- Writing skills
- Verbal skills

Intermediate
Intermediate
Intermediate

SOCIAL SKILLS

AND COMPETENCES

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

Team player, good communication skills

ORGANIZATIONAL SKILLS

Good experience in project management

AND COMPETENCES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

TECHNICAL SKILLS

AND COMPETENCES

With computers, specific kinds of equipment, machinery, etc.

- Good command of Microsoft Office tools (Word/Powerpoint and Excel/Access)
- Basic knowledge of programming in GAMS and Visual Basic
- Experience in working with statistical software (SPSS, STATA, MATLAB)

ARTISTIC SKILLS

AND COMPETENCES

Music, writing, design, etc.

OTHER SKILLS

AND COMPETENCES

Competences not mentioned above.

Sports: soccer, tennis, cycling, running

DRIVING LICENCE(S)

Driving licence B

ADDITIONAL INFORMATION A

Selection of current projects:

- System of Regional Models for Impact Assessment of EU Cohesion Policy

For DG Regional Policy TNO works as leader of a consortium on the development of a prototype and a system of regional model for a chosen set of European regions. The model contains elements of the new economic geography, endogenous growth, multilevel governance, and it has also energy and environmental elements such as modelling of energy use and GHG and non-GHG emissions. The constructed model is applied to the assessment of effects of European Cohesion Policy in the period 2010-2030.

- TIGER model

The RAEM model is a spatial general equilibrium model for the Netherlands and has been applied for policy evaluation of investments in infrastructure. In cooperation with TM Leuven, TNO is expanding the model to the Benelux region and a new name: TIGER. The TIGER model is constructed as a regional model on the NUTS-3 level for Belgium, the Netherlands, Luxemburg and a part of Germany, where regions are linked by interregional trade flows, transport trips and migration. Innovative features of the TIGER model are the detailed modelling of the transport sector and modelling of commuting and migration decisions.

- Audiovisual monitor in Noord-Brabant

For the province of Noord-Brabant TNO develops a unique bottom-up

ADDITIONAL INFORMATION B

approach to estimate the economic impact of the audiovisual sector in Noord-Brabant based on employment data at the firm level.

- Statistical, ecosystems and competitiveness analysis of the Media and Content industries

For IPTS TNO leads a consortium for a study on the media and content industries in Europe. Objective is to develop a better understanding of the dynamics in the MCI sector and an assessment of the size and the current and future competitiveness of the MCI sector in EU27 countries.

Selection of Publications:

Articles:

- Ivanova, O., Koops, O. and W. Jonkhoff, Regional economic effects of flooding (2009), paper presented at ERSA congress 2009 in Lodz;
- Koops, O., Jonkhoff, W., Vrouwenvelder, T., Rietveld, E., and O.Ivanova (2008), Ruimtelijk-economische effecten van overstromingen, Position paper TNO Bouw en Ondergrond;
- Muskens, A.C., Koops, O (2005), REGINA: Model for economic growth for Dutch Regions, paper presented at the RSA Najaarsdag 2003, 27 november 2003 in The Hague; Published in: Frank van Oort en Leo van Wissen, eds., A survey of spatial-economic planning models in the Netherlands. Theory, application, and evaluation;

Master Thesis :

- Koops, O. (2009) Commuting in the new economic geography, Utrecht University

Selection of TNO-Reports:

- Ivanova, O., Heyndrickx, C. and K. Spitaels (TML), Tavasszy,L., Manshanden,W., Snelder, M. and O.Koops (TNO) (2007), RAEM: version 3.0, final report, TM Leuven
- Koops, O., Roso, M., Van Brussel, J., Huismans, J., Van den Hammen, J. and P. Rutten, Cross Media Monitor 2008, Stichting iMMovator (2008)
- Rutten, P., Huismans, J., Koops, O., Cross Media Monitor 2006, Stichting iMMovator (2006)
- Rutten, P.W.M, Manshanden, W.J.J, Koops, O., Muskens, A.C. (2004), De creatieve industrie in Amsterdam en de regio, TNO STB/Inro;
- Manshanden, W., Koops, O., Van Brussel, J., and W. Jonkhoff (2007), De top-20 van Europese stedelijke regio's 1995-2005; Randstad Holland in internationaal perspectief, TNO Bouw en Ondergrond;
- Manshanden, W., Koops,O, Van Bree, T., Vanherle, K. (TM

Leuven), Heyndrickx, C. (TM Leuven), Van Brussel, J. and F. van der Zee (2008), Strategische Welvaartseffecten Kanaalzone Gent-Terneuzen, TNO Bouw en Ondergrond

- Snelder, M., Koops, O., Ivanova, O. and L. Tavasszy (2008), Bijlagerapport indirecte effecten KBA Schiphol-Amsterdam-Almere, TNO Bouw en Ondergrond;
- Kuipers, B., Manshanden, W.J.J., Koops, O., Verweij, C.A., Veldhuis, J. (SEO), Rosenberg, F. (SEO), Schouten, E. (The Visioning Group) (2007), Maatschappelijk-economische analyse mainport Schiphol, TNO Bouw en Ondergrond;
- SEO, TNO and Buck Consultants International (2006), Economische effecten Schiphol, Amsterdam;

The TIGER Model: Application of detailed passenger and freight transport in a regional CGE setting

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The present paper describes the construction and first empirical application of the TIGER model (TIGER is an abbreviation of “Transport and Infrastructure General Equilibrium model for Regions”). The TIGER model belongs to the group of regional CGE models, applying a mix of conventional modelling techniques used in standard computable general equilibrium models and New Economic Geography elements. The TIGER model can be used to evaluate transport policies on economic and environmental effects. Innovative features of the TIGER model are the detailed modelling of the transport sector and modelling of commuting and migration decisions. The approach of the TIGER model is to model cross-border related transport policies on a disaggregate level, with freight and passenger transport flows, allowing for different transport modes (road, water, rail), distinguishing between public and private transport, and for different transport motives. Commuting trips will be modelled in detail, by a location-attraction function, jointly determining area of residence and place of work.

The TIGER model is constructed as a regional model on the NUTS-3 level for Belgium, the Netherlands, Luxemburg and a part of Germany, where regions are linked by interregional trade flows, transport trips and migration. In a similar way the model can be extended to all NUTS-3 regions in Europe. This paper will relate on the construction of the database for the model and the addition of innovative elements in the model, necessary to model transnational passenger and freight flows. The construction of the model is based on the available data in the TRANSTOOLS database.

The detail offered by the TIGER model allows for a quantitative evaluation of effects of several transport policies with a transnational dimension in the Benelux and Germany. We will present results of the TIGER model based on a current project in the Benelux.

Keywords: Regional general equilibrium model, new economic geography, passenger transport, commuting, migration