

International Conference on Regional and Urban Modelling

Brussels, Free University of Brussels
1-2 June 2006

Global Economic Modelling Network (EcoMod)

PROGRAM

Sponsored by
DULBEA
Department of Applied Economics
of the Free University of Brussels

Conference Timetable

Session	Session A	Session B	Session C	Session D	Session E
Room	H 1.301	H 1.302	H 1.308	H 1.309	H 2.213
Thursday, June 1st					
09:00 - 09:15	Registration				
09:15 - 09:30	Welcome and Opening Session (H 1.309)				
09:30 - 10:30	Plenary Session				
10:30 - 11:00	Refreshment Break (Grand Hall, Building H)				
11:00 - 12:30	Agriculture, fisheries, and rural development	CGE and IO Modelling	Labour markets	Urban issues	
12:30 - 14:00	Lunch Break				
14:00 - 15:30	Energy, environment, water and natural resources	Infrastructure, transportation, and communication	Labour markets	Housing, real estate, urban land use	Income distribution
15:30 - 16:00	Refreshment Break (Grand Hall, Building H)				
16:00 - 18:00	EU Regional Policy	Infrastructure, transportation, and communication	Tourism	Education	Growth
18:00 - 20:00	Welcome Reception				
Friday, June 2nd					
09:00 - 10:30	Energy, environment, water and natural resources	CGE and IO models	Labour markets	Location of activities	
10:30 - 11:00	Refreshment Break (Grand Hall, Building H)				
11:00 - 12:30	Agriculture, fisheries, and rural development	CGE and IO models	Public finance, fiscal federalism, and governance	Labour Markets	R&D, innovation and technology
12:30 - 14:00	Lunch Break				
14:00 - 15:30	Energy, environment, water and natural resources	CGE and IO models	Public finance, fiscal federalism, and governance	Population dynamics, migration and commuting	Housing, real estate, urban land use
15:30 - 16:00	Refreshment Break (Grand Hall, Building H)				
16:00 - 18:00	Energy, environment, water and natural resources	Econometric modelling	Location of activities	Urban issues	Infrastructure, transportation, and communication
20:00 - 23:00	Cocktail & Gala Dinner				

Thursday, 1st of June

9:00 – 9:15 Registration

9:15 – 9:30 Welcome and Opening Session (Room: H 1.309)

Ali BAYAR , President, EcoMod Network

9:30 – 10:30 Plenary Session I: Energy and environmental modelling
(Room: H 1.309)

Chair: Eduardo HADDAD, University of São Paulo

Ian SUE WING

Limiting CO2 Emissions in a Federal System: Understanding and Mitigating the Cost of U.S. Climate Policy at the State Level

Ali BAYAR, Frédéric DRAMAIS, Cristina MOHORA, Masudi OPESE
GreenMod: A Multi-Region, Multi-Sector Dynamic General Equilibrium Model for Energy and Environmental Policy Analysis

10:30 – 11:00 Refreshment Break (Grand Hall, Building H)

11:00 – 12:30 Parallel Sessions

Session A: Agriculture, fisheries, and rural development (Room: H 1.301)

Chair: Makena COFFMAN

Frantisek STRELECEK

Selected Problems of Small Municipalities Financing from SAPARD Scheme

Alberto PIRANI, Anna GAVIGLIO, Luca RIGAMONTI, Martina LICITRA
PEDOL

Territorial Analysis in Support of Policy-Making: A Conceptual and Methodological model

Makena COFFMAN, Karl KIM

Estimating the Impacts of Banning Commercial Bottomfish Fishing in the Northwest Hawaiian Islands

Session B: CGE and IO Modelling (Room: H 1.302)

Chair: Mario FORTUNA

Eduardo HADDAD, Geoffrey HEWINGS, Raul DOS SANTOS
Port Efficiency and Regional Development

Hannu TÖRMÄ
*Regional Macro, Employment, Allocation and Welfare Effects of Lapua
Town's Simpsiö and NovaPark Development Projects – A CGE RegFin Model
Application*

Mario FORTUNA, Ali BAYAR, Cristina MOHORA, Suat SISIK
A Multi-Sector General Equilibrium Model for the Azores Islands

Session C: Labour Markets (Room: H 1.308)

Chair: Olga ALONSO-VILLAR

Sabrina DI ADDARIO
Job Search in Thick Markets

Uwe BLIEN, Friedrich GRAEF
*The Estimation of Flows on Regional Labour Markets by Using the ADETON
Procedure*

Olga ALONSO-VILLAR, Coral DEL RIO
*The Geographical Concentration of Unemployment: A Male-Female
Comparison in Spain*

Session D: Urban Issues (Room: H 1.309)

Chair: Alpay FILIZTEKIN

Mustafa VAR, Emrah YALCINALP
*The Effects of Natural and Cultural Degradations in Trabzon Karadag High
Plateau-Tourism Center, Turkey, on Eco-tourism Activities and Some Solution
Proposals*

Ebru KERIMOGLU, Hale CIRACI
The Spatial Distribution of Service Firms in Istanbul Metropolitan Area

Alpay FILIZTEKIN
Urban Dynamics in Turkey

12:30 – 14:00 Lunch Break

14:00 – 15:30 Parallel Sessions

Session A: Energy, environment, water and natural resources (Room: H 1.301)

Chair: M. Alejandro CARDENETE

Ritu PALIWAL, Prateek SHARMA
Application of QUAL2E for the River Yamuna: to Assess the Impact of Point Loads and to Recommend Measures to Improve Water Quality of the River

M. Ejaz QURESHI, Wendy PROCTOR, M. KIRBY
Economic Assessment of Water Trade Restrictions in the Murray Darling Basin

Esther VELÁZQUEZ, M. Alejandro CARDENETE, Geoffrey J.D. HEWINGS
Water Price and Water Relocation in Andalusia. A Computable General Equilibrium Approach

Session B: Infrastructure, transportation, and communication (Room: H 1.302)

Chair: Knud MUNK

S. Srinidhi, N.R. Srinivasa RAGHAVAN, R. Srinivasan
Modeling Urban Traffic Planning through Strategic Decisions - A Case from Bangalore, India

Karl STEININGER, Brigitte GEBETSROITHER, Olivia KOLAND, Christoph SCHMID, Gerold ZAKARIAS
New Primary Road Transport Infrastructure and the Development of Spatial Distribution of Growth: A SCGE Analysis for an Eastern Austrian Border Region

Knud MUNK
Assessment of the Introduction of Road Pricing Using a Computable General Equilibrium Model

Session C: Labour markets (Room: H 1.308)

Chair: Olivia KOLAND

Natalia PRESMAN, Arie ARNON
Commuting Patterns in Israel

Morten Marott LARSEN
Endogenous Location and Commuting Choice in a Labour-Market Search Model

Olivia KOLAND, Birgit FRIEDL
Urban Sprawl, Car-Related Pollution and Settlement Structure: Insights from a Two-Region General Equilibrium Model

Session D: Housing, real estate, urban land use (Room: H 1.309)

Chair: Alexandra PETERMANN REIFSCHNEIDER

Karolien DE BRUYNE, Jan VAN HOVE
Explaining Spatial Variation in Housing Prices: an Economic Geography Approach

Jean-Marie HALLEUX
Modelling the Spatial Structure of Land Markets: Application to Belgium and its New Residential Developments

Alexandra PETERMANN REIFSCHNEIDER, Felipe MORANDÉ, Miguel VARGAS
The Determinants of Vacant Land Inside Cities: the Case of Santiago de Chile

Session E: Income Distribution (Room: H 2.213)

Chair: German RIOS

Carlos AZZONI, Fernando G. DA SILVEIRA, Alexandre IWATA, Antonio IBARRA
Estimating Regional Poverty Lines with Scarce Data: an Application to Brazilian Regions

Maarten BOSKER
The Spatial Evolution of Regional GDP Disparities in the 'Old' and the 'New' Europe

German RIOS, Jennifer ARENCIBIA
Social Capital and Household Welfare in Venezuela

15:30 – 16:00 Refreshment Break (Grand Hall, Building H)

16:00 – 18:00 Parallel Sessions

Session A: EU Regional Policy (Room: H 1.301)

Chair: Sandy DALL'ERBA

Petr HALAMEK
Shadow Prices for Costs and Benefits in the Regional Development Projects

Sandy DALL'ERBA, Julie LE GALLO
The Impact of EU Regional Policy Revisited

Jesús LÓPEZ-RODRÍGUEZ, J. Andres FAINA MEDIN
Regional Income Disparities in Europe: What Role for Location?

Sandy DALL'ERBA, DE GROOT
A Meta-Analysis of Thirty Years of EU Regional Development Evaluation

Session B: Infrastructure, transportation, and communication (Room: H 1.302)

Chair: Mert CUBUKCU

Rickard BERGQVIST, Jonas TORNBERG
The Process of Evaluating Intermodal Transport Terminal Locations

Frank VAN GEIRT, Erik NUYTS
Cross-Sectional Accident Models on Flemish Motorways Based on Infrastructural Design

Mert CUBUKCU
Cost of Urban Bus Transit Operations and Geography of Service Territory

Session C: Tourism (Room: H 1.308)

Chair: Isabel PROENÇA

Ebru KERIMOGLU, Hale CIRACI
The Evaluation of Relation between Spatial Distribution of Hotels and Business Services with Respect to Spatial Development of Istanbul

Juha-Pekka KONTTINEN
Regional Tourism Satellite Account (RTSA) and Economic Effects in Finnish Regions

Jasmina OSMANKOVIC, Jasminko MULAOMEROVIC, Nermana BICAKCIC
The Caves of Bosnia and Herzegovina as a Basis for Tourism and Regional Development

Isabel PROENÇA, Isabel MENES
Measuring the Average Per Day net benefit of non-consumptive Wildlife – Associated Recreation for a National Park: A Count-Data Travel Cost Approach

Session D: Education (Room: H 1.309)

Chair: Jouko KINNUNEN

Mehmet ULUBASOGLU, Buly CARDAK
International Comparisons of Rural-Urban Educational Attainment: Data and Determinants

Cassio ROLIM, Ricardo KURESKI
Short-Run Economic Impact of State Universities in Parana

Jouko KINNUNEN, Richard PALMER
Future Demand of Labour and the Need of Education in the Åland Islands

Session E: Growth (Room: H 2.213)

Chair: Oleg LUGOVOY

Waldo KRUGELL, Maarten BOSKER
Convergence or Divergence of South African Cities and Towns?

Jose PINEDA
Convergence Dynamics in the Andean Community

Tiiu PAAS, Andres VÖRK, Andres KUUSK, Friso SCHLITTE
Modeling Regional Income Convergence in EU-25

Oleg LUGOVOY, Evgeny POLYAKOV, Vladimir DASHKEYEV,
Ilya MAZAYEV, Denis FOMCHENKO
Determinants of Growth of Russian Regions

18:00 Welcome Reception at the Free University of Brussels

Friday, June 2nd

9:00 – 10:30 Parallel Sessions

Session A: Energy, environment, water and natural resources (Room: H 1.301)

Chair: Laura-Oana PETROV

Anna JONSSON

Mapping of PM10 Contribution from Domestic Heating Sector in Rotorua

Lovisa BLOMQVIST, Bengt HILLRING

Landuse and Potential for Bioenergy Production

Laura-Oana PETROV, Carlo LAVALLE, Valentina SAGRIS, Jose BARREDO,
Marjo KASANKO, Niall MCCORMICK

*Simulating Urban and Regional Evolutions: Scenarios of Development in
Three Study Cases: Algrave Province (Portugal), Dresden-Prague Transport
Corridor (Germany-Czech Republic), and Friuli-Venezia Giulia Region*

Session B: CGE and IO models (Room: H 1.302)

Chair: Bjarne MADSEN

Yong CAO, Michael LI ZHI-FENG

Economic Impact of Trade Exhibitions on the City-State Singapore Economy

Bjarne MADSEN, Chris JENSEN-BUTLER

The General Interregional Quantity Model

Bjarne MADSEN, Chris JENSEN-BUTLER

The General Interregional Price Model

Session C: Labour markets (Room: H 1. 308)

Chair: Eugene VERKADE

Matteo LANZAFAME

The Nature of Regional Unemployment in Italy

Roberto PATUELLI, Aura REGGIANI, Peter NIJKAMP

*The Development of Regional Employment in Germany: Results from Neural
Network Experiments*

Eugene VERKADE, W. VERMEULEN

*The CPB Regional Labour Market Model. A Tool for Long Term Scenario
Construction*

Session D: Location of activities (Room: H 1.309)

Chair: Karl STEININGER

Sevkiye Sence TURK, Lale BERKOZ
Modelling the Intra-Metropolitan Location of Foreign Investment Firms in Istanbul

Marianne MATTHEE, W.A. NAUDÉ, W.F. KRUGELL
Domestic Transport Costs and the Location of Export-Oriented Manufacturing Firms in South Africa: A Cubic-Spline Density Function Approach

Karl STEININGER, Birgit FRIEDL, Christoph SCHMID
Circular Causality in Spatial Environmental Quality and Commuting: A Spatial CGE Analysis within a NUTS III region

10:30 – 11:00 Refreshment Break (Grand Hall, Building H)

11:00 – 12:30 Parallel Sessions

Session A: Agriculture, fisheries, and rural development (Room: H 1.301)

Chair: Holger BERGMANN

Martin HENSELER, Alexander WIRSIG, Tatjana KRIMLY
An Agro-Economic Regional Model for the Neckar River Basin – First Results of Politic Scenario Calculations

Marcel ADENÄUER, Torbjörn JANSSON
Estimating Parameters of a Constrained Non-Linear Optimization Model Using Multiple Observations

Holger BERGMANN
Data Based Uncertainty in Regional Input-Output-Analysis – Some Model Calculations About the Importance of Agriculture in the “Alte Land”

Session B: CGE and IO models (Room: H 1.302)

Chair: Angela DRUCKMAN

Joao LOPES, J. F. AMARAL, J. DIAS
Scale and Structure Effects of Final Demand Shocks: Measuring Inter Industry Linkages in National and Regional Economies

Sergio SANTOS, João A. SILVA
Using Input-Output Analysis to Estimate the Regional Economic Impact of Universities: A Case Study

Angela DRUCKMAN, T. JACKSON, E. PAPATHANASOPOULOU, P. BRADLEY
Attributing Carbon Emissions to Functional Household Needs: a Pilot Framework for the UK

Session C: Public finance, fiscal federalism, and governance (Room: H 1.308)

Chair: Ana BARREIRA

Heikki LOIKKANEN, Ilkka SUSILUOTO
Cost Efficiency of Finnish Municipalities in Basic Service Provision 1994-2002

Federica BARZI
Finance and Growth: a Micro-Founded Approach

Ana BARREIRA, Rui Nuno BALEIRAS
Cycles on Public Expenditure Composition within the European Union

Session D: Labour markets (Room: H 1.309)

Chair: Andrew HUNT

Jesús LÓPEZ-RODRÍGUEZ, J. Andres FAINA MEDIN
Human Capital Accumulation and Geography: Empirical Evidence in the European Union

Joerg HEINING, Joerg LINGENS
Social Interaction in Regional Labour Markets

Andrew HUNT
Assessing Contribution of the North East of England's Higher Education Sector to the Regional Economy.

Session E: R&D, innovation and technology (Room: H 2.213)

Chair: Lamia BEN HAMIDA

Milan VITURKA

Innovative Potential Regional Evaluation in the Czech Republic

Mikel BUESA, Thomas BAUMERT, Joost HEIJS, Mónica Martínez
PELLITERO

*New Techniques for Analysing Regional Innovation Systems: An Integrating
Econometric Approach.*

Lamia BEN HAMIDA

*Multinational Firms, Spillovers, and Productivity Growth: An Evolutionary
Model*

12:30 – 14:00 Lunch Break

14:00 – 15:30 Parallel Sessions

Session A: Energy, environment, water and natural resources (Room: H 1.301)

Chair: Claudia RAVE

Mahamadou BELEM, Sansan YOUL, Raphaël MANLAY, Bruno BARBIER,
Christophe LEPAGE, Jean-Luc CHOTTE

*MIROT: A Multi-Agent System Model for the Simulation of the Dynamics of
Carbon Resources of West-African Village Territory*

Albert LESSOUA

*Evaluating the Relationship between Household Income and Atmospheric
Pollution: Reconsidering the Environmental Kuznets Curve in Region of
Haute Normandie*

Claudia RAVE, Ricardo A. SMITH, Angela I.CADENA, Juan M. ALZATE,
Juan. D. VÁSQUEZ

*Integrated Energy-Environment-Economy Evaluation of the Energy Sector in
the Metropolitan Area of the Aburrá Valley (Colombia) for Sustainable
Development*

Session B: CGE and IO models (Room: H 1.302)

Chair: Stefania LOVO

Gerald DOEKSEN

The Changing Face of Economic Development: Health Care as an Economic Engine

Guido FERRARI, Anna MANCA

ESAM Based Regional Economic Policy

Stefania LOVO, Paola DE AGOSTINI, Francesco PECCI, Federico PERALI, Michele BAGGIO

Analyzing the Impact of Alternative Management Scenarios for Natural Areas using a Local SAM

Session C: Public finance, fiscal federalism, and governance (Room: H 1.308)

Chair: Alexandra PETERMANN REIFSCHNEIDER

Bernardino BENITO, Francisco BASTIDA-ALBALADEJO, José Antonio GARCÍA

The Determinants of Efficiency in Municipal Governments

Fadeyibi ISAAC OLUGBENGA, Oyedeji OLUWASANMI

Restructuring Fiscal System in Developing Countries: Rationale, Strategies and Policies.

Stefan VAN PARYS, Tom VERBEKE

Tax Competition Among Belgian Municipalities: a Multidimensional Battle?

Alexandra PETERMANN REIFSCHNEIDER

Competition in the Provision of Local Public Goods

Session D: Population dynamics, migration and commuting (Room: H 1.309)

Chair: Sirin SARACOGLU

Eveline VAN LEEUWEN, Sandy DALL'ERBA

Does Agricultural Employment Benefit From EU Support?

Stelios ZIMERAS, Cleon TSIMBOS

Modeling the Spatial Distribution of Immigrant Population in Greece

Sirin SARACOGLU, Murat G. KIRDAR

Does Internal Migration Lead to Faster Regional Convergence in Turkey?: An Empirical Investigation

Session E: Housing, real estate, urban land use (Room: H 2.213)

Chair: Patricia ABELAIRAS

Ugur YANKAYA, H. Murat ÇELİK
Modeling the Impacts of Rail Transit Investment on the Values of Residential Property: A Hedonic Price Approach in the Case of Izmir Subway, Turkey

Oliver HOLTEMÖLLER, Rainer SCHULZ
Apartment House Prices and the Macroeconomy: Theoretical Analysis and Empirical Evidence

Christian VON MALOTTKI, Michael NADLER
Added Values of geographic information systems in the real estate life cycle

Patricia ABELAIRAS, Inmaculada Astorquiza IKAZURIAGA, Ana Ferrero RODRIGUEZ
The Price of the Rustic Land in a Protected Natural Space: Econometric Analysis in the Case of the Urdaibai Biosphere Reserve

15:30 – 16:00 Refreshment Break (Grand Hall, Building H)

16:00 – 18:00 Parallel Sessions

Session A: Energy, environment, water and natural resources (Room: H 1.301)

Chair: Cristina MOHORA

Vincent LINDERHOF, Heleen BARTELINGS
Effective Landfill Taxation: A Case Study for the Netherlands

José A. SCARAMUCCI, Marcelo PEREIRA DA CUNHA
The construction of an Updated Economic Database for Energy Studies: an Application to the Brazilian Sugarcane Agroindustry

Lars BOHLIN
Energy Taxation in Sweden before the European Emission Trading System

Ali BAYAR, Frédéric DRAMAIS, Cristina MOHORA, Masudi OPESE
Regional and Sectoral Effects of Environmental Voluntary Agreements

Session B: Econometric modelling (Room: H 1.302)

Chair: Kirstin HUBRICH

Torbjörn JANSSON

Estimating Prices and Excess Demand and Trade Costs in a Spatial Price Equilibrium Model

Dieter PENNERSTORFER

Spatial Price Competition in the Austrian Retail Gasoline Market: The Influence of Unbranded Stations on Competition and Prices

Ana SARGENTO

Empirical Examination of the Gravity Model in two Different Contexts: Estimation and explanation

Kirstin HUBRICH, Guenter BECK, Massimiliano MARCELLINO

Regional Inflation Dynamics within and Across Euro Area Countries and a Comparison with the US

Session C: Location of activities (Room: H 1.308)

Chair: Sevkiye Sence TURK

Mert KOMPIL, H. Murat ÇELİK

Modelling the Spatial Consequences of Retail Structure Change of Izmir-Turkey: a Quasi-Empirical Application of Spatial Interaction Model

Markus KEMPEN, Thomas HECKELEI, Wolfgang BRITZ

Validation of Spatially Explicit Land Use Choices Based on Probabilistic Theory

James FOREMAN-PECK, Laurian LUNGU, Patrick MINFORD

Fiscal Devolution in a Small Open Regional Economy

Sevkiye Sence TURK, Lale BERKOZ

Locational Determinants of Foreign Investment Firms in Turkey

Session D: Urban issues (Room: H 1.309)

Chair: Carlos LEITE

Aleid BROUWER, A. VAN WITTELOOSTUIJN, C. BOONE
The Dynamics of Economic Performance and Organizational Diversity

Basil SHARP, Michael KRAUSSE
Measuring Environmental Effects on Property Values: Analysis of Spatially Variable Relationships

Wim NAUDÉ, Stephanié ROSSOUW, Waldo KRUGELL
The Quality of Metropolitan City Life in South Africa

Carlos LEITE
Urban Clusters as Strategy for Productive Restructuring and Urban Regeneration: from San Francisco Mission Bay to Sao Paulo Railroad Brownfield

Session E: Infrastructure, transportation, and communication (Room: H 2. 213)

Chair: Robert VERHAEGHE

Guido SIGNORINO
Policy Mistakes, Wrong Solutions and the Collapse of Functional Equilibrium in the Urban Space

Wendy PROCTOR, Ejaz QURESHI, Glyn WITTWER, Mike YOUNG
A Participatory Approach to Water Management in the Face of Climate Change

Juan Manuel ALZATE, Luis Alejandro BUILES, Ricardo A. SMITH, Angela CADENA, Claudia C. RAVE
Integrated Evaluation Environment-Energy-Economy for the Sustainable Urban Planning at a Local Scale Application Case: Transportation Sector – Urban Region of the Aburrá's Valley

Robert VERHAEGHE
Modelling for Integrated Planning of Space, Mobility and Water

20:00 Cocktail & Gala Dinner