

# **LAND USE AND TRANSPORT**

## **Related Emerald Books**

*Integrated Land-use and Transportation Models*

Martin Lee-Gosselin and Sean Doherty

*Urban Transport and the Environment: An International Perspective*

World Conference on Transport Research Society (Lyon, France) and the Institute for Transport Policy Studies (Tokyo, Japan)

*Logistics Systems for Sustainable Cities: Proceedings of the 3rd International Conference on City Logistics (Madeira, Portugal, 25–27 June, 2003)*

Eiichi Taniguchi and R. G. Thompson

*Handbook of Transport Strategy, Policy & Institutions* (Handbooks in Transport 6)

Kenneth J. Button and David A. Hensher

*Handbook of Transport Geography and Spatial Systems* (Handbooks in Transport 5)

David A. Hensher, Kenneth J. Button, Kingsley E. Haynes, and Peter Stopher

# **LAND USE AND TRANSPORT**

## **European Research Towards Integrated Policies**

Edited by

**STEPHEN MARSHALL**  
Bartlett School of Planning,  
University College London,  
London, UK

**DAVID BANISTER**  
Transport Studies Unit,  
Oxford University Centre for the Environment,  
Oxford, UK



United Kingdom – North America – Japan –  
India – Malaysia – China

Emerald Group Publishing Limited  
Howard House, Wagon Lane, Bingley BD16 1WA, UK

First edition 2007.

Copyright © 2008 Emerald Group Publishing Limited

**Reprints and permission service**

Contact: [books@emeraldinsight.com](mailto:books@emeraldinsight.com)

No part of this book may be reproduced, stored in a retrieval system, transmitted in any form or by any means electronic, mechanical, photocopying, recording or otherwise without either the prior written permission of the publisher or a licence permitting restricted copying issued in the UK by The Copyright Licensing Agency and in the USA by The Copyright Clearance Center. No responsibility is accepted for the accuracy of information contained in the text, illustrations or advertisements. The opinions expressed in these chapters are not necessarily those of the Editor or the publisher.

**British Library Cataloguing in Publication Data**

A catalogue record for this book is available from the British Library

ISBN: 978-0-0805-4991-0

Printed and bound in Great Britain by  
CPI Antony Rowe, Chippenham and Eastbourne



Awarded in recognition of  
Emerald's production  
department's adherence to  
quality systems and processes  
when preparing scholarly  
journals for print



INVESTOR IN PEOPLE

# CONTRIBUTORS

DAVID BANISTER	Transport Studies Unit, Oxford University Centre for the Environment, Oxford, OX1 3QY
DAVID BLACKLEDGE	Transport and Travel Research Ltd (TTR), Minster House, Minster Pool Walk, Lichfield, Staffordshire, WS13 6QT, UK
HUGUES DUCHÂTEAU	STRATEC s.a. Avenue A. Lacomblé, 69-71 B-1030 Brussels, Belgium
JUDITH DE GROOT	University of Groningen, Experimental and Work Psychology, Grote Kruisstraat 2/1, 9712 TS Groningen, The Netherlands
SONJA FORWARD	Swedish Road and Transport Research Institute, 581 95 Linköping, Sweden
PHILINE GAFFRON	Hamburg University of Technology, AB 1-10 Transportation and Logistics, Schwarzenbergstr. 95, 21071 Hamburg, Germany
SYLVIE GAYDA	STRATEC s.a. Avenue Adolphe Lacomblé, 69-71 B-1030 Brussels, Belgium
ANN JOPSON	Institute for Transport Studies, University of Leeds, Leeds, LS2 9JT
CLEMENS KAUFMANN	FACTUM OHG, Danhausergasse 6/4, A-1040 Wien, Austria
SANDER KOOIJMAN	BUITEN Consultancy, Economy & Environment, Achter St. Pieter 160, 3512 HT Utrecht, The Netherlands
KARI LAUTSO	WSP LT Consultants, Heikkiläntie 7, 00210 Helsinki, Finland
STEPHEN MARSHALL	Bartlett School of Planning, University College London, Wates House, 22 Gordon Street, London WC1H 0QB, UK
LUCIA MARTINCIGH	DiPSA-Dipartimento di Progettazione e Studio dell'Architettura, Facoltà di Architettura - Università degli Studi Roma Tre, P.zza della Repubblica, 10 - 00185 Roma, Italy
BRYAN MATTHEWS	Institute for Transport Studies, University of Leeds, 38 University Road, Leeds LS2 9JT, UK
ANTHONY D MAY	Institute for Transport Studies, University of Leeds, Leeds LS2 9JT, UK
ERIC MONAMI	STRATEC s.a. Avenue A. Lacomblé, 69-71, box 8 B-1030 Brussels, Belgium
EMANUELE NEGRENTI	ENEA – ENE – TEC, C. R. CASACCIA , Via Anguillarese 301, S. Maria di Galeria - 00060, Rome, Italy
KARI RAUHALA	Asematie 14 B 9, FIN-02700 Kauniainen, Finland
RALF RISSER	FACTUM OHG, Danhausergasse 6/4, A-1040 Wien, Austria
KAREL SCHMEIDLER	Head of Social and Human Aspects of Transport Section, Transport Research Centre – CDV, Vinohrady 10, Brno CZ – 639 00, Czech Republic
UWE SCHUBERT	Institute for Regional Development and Environment, Department for Social Sciences, Vienna University of Economics and Business Administration, Nordbergstrasse 15, B/4 A-1090, Vienna

viii *Contributors*

- CARLO SESSA  
Institute of Studies for the Integration of Systems, Via Flaminia  
21, 00196 Rome, Italy
- FRANZ SKALA  
Institute for Regional Development and Environment, Vienna  
University of Economics and Business Administration,  
Nordbergstrasse 15, B/4 A-1090, Vienna
- LINDA STEG  
University of Groningen, Department of Psychology, Grote  
Kruisstraat 2/1, 9712 TS Groningen, The Netherlands
- ÅSE SVENSSON  
Department of Technology and Society, Lund University,  
Box 118, SE-22100 LUND, Sweden
- LUCA URBANI  
IBV – Willi Hüsler Ag, Olgastrasse 4, CH-8001 Zurich,  
Switzerland
- PASCAL J.W. VAN DEN  
NOORT  
Velo Mondial, Kleine-Gartmanplantsoen 20, 1017 RR  
Amsterdam, The Netherlands
- TINA WAGNER  
Hamburg University of Technology, AB 1-10 Transportation and  
Logistics, Schwarzenbergstr. 95, 21071 Hamburg, Germany
- MICHAEL WEGENER  
Spiekermann & Wegener, Urban and Regional Research (S&W),  
Lindemannstrasse 10, 44137 Dortmund, Germany

# BIOGRAPHIES

**David Banister** is Professor of Transport Studies at the Oxford University Centre for the Environment. Until recently he was Professor of Transport Planning at University College London. He has also been Research Fellow at the Warren Centre in the University of Sydney (2001–2002) on the Sustainable Transport for a Sustainable City project and was Visiting VSB Professor at the Tinbergen Institute in Amsterdam (1994–1997). He will be a visiting Professor at the University of Bodenkultur in Vienna in 2007. He is a Trustee of the Civic Trust and Chair of their Policy Committee (2005–2009). Prof. Banister has authored and edited 18 books that summarise his own research and some of the international projects that he has been involved with. He has also authored (or co-authored) more than 100 papers in international refereed journals, together with a similar number of other papers in journals or as contributions to books.

**David Blackledge** is Corporate Director of Transport & Travel Research Ltd, UK. He is a transport economist with more than 30 years experience in public transport planning and economics. He has worked with many local authorities in UK, providing advice and managing projects involving strategic planning, concessionary fares, alternative fuels, advanced vehicle technologies, personal security, and passenger information. He has directed a number of projects for the UK Department for Transport including research into information systems, Accessible Coaches and Kneeling Buses. He has also directed a number of collaborative research and demonstration projects involving cities across Europe, including CATCH (transport and environment), EDICT (evaluation and demonstration of Personal Rapid Transit) and PLUME (land-use and transport planning).

**Hugues Duchâteau** is Chief Executive Officer of STRATEC, Brussels. He graduated in Civil Engineering from the Faculté Polytechnique de Mons and has almost 30 years of experience in leading transportation planning, travel behaviour studies, land use and regional planning, and environmental assessment of projects in Belgium as well as abroad. He started his career in the Department of Public Economy Studies at the *Société d'Economie et de Mathématique Appliquée* (SOBEMAP), which he left in 1984 to found STRATEC.

**Judith de Groot** is a PhD candidate in Department of Psychology at the University of Groningen, the Netherlands. Her main fields of expertise are social, traffic and environmental psychology. She has conducted several studies on car use, and more generally, sustainable transportation. Her dissertation focuses on the relationship between values, attitudes and prosocial and proenvironmental behaviour. Judith de Groot is interested in applied as well as fundamental research.

**Sonja Forward** is a Director of Research at The Swedish National Road and Transport Research Institute. She is Deputy Chairperson at the Swedish pedestrian association and a member of TRB's Pedestrian committee. Her main research interest includes the use

of psychological models to predict modal choice and traffic violations but also how to modify deviant behaviours.

**Philine Gaffron** is working as a senior researcher at the Transportation and Logistics Group of the Hamburg University of Technology, Germany. She has moved from a degree in ecology via a postgraduate qualification as a landscape designer to a dissertation in transport planning. She has gathered research experience in national and international projects on implementation issues in (integrated) urban transport planning, interdependencies and evaluation of transport and space as well as infrastructure financing. She is also involved in teaching engineering and town planning students and is a member of the German association for regional and town planning (SRL). Homepage: [http://www.vsl.tu-harburg.de/vsl\\_2/1arbeitsbereich/i\\_mitarbeiterx?welche\\_id=4&liste=0](http://www.vsl.tu-harburg.de/vsl_2/1arbeitsbereich/i_mitarbeiterx?welche_id=4&liste=0).

**Sylvie Gayda** is Senior Project Manager in the consultancy company STRATEC based in Brussels, specialised in transport planning and urban/regional development. She has more than 15 years experience in the field of trip demand modelling and demand management policies. She has developed a thorough expertise in two fields: first, stated preference surveys and discrete choice models ; secondly, land-use/transport modelling and planning. In relation with stated preference, she led among others several studies on traffic forecasts for new High Speed Lines in France, the mode choice modelling for the future Seine North Europe canal and the demand forecast study for the future Charles de Gaulle Express (dedicated rail service between the CDG airport and Paris – Gare de l'Est). On the other hand, she took part in many European research projects, among other projects in relation with land-use/transport (ESTEEM, TRACE, PROPOLIS, SCATTER). In particular, she was coordinator of the SCATTER project.

Dr **Ann Jopson** is a Research Fellow at the Institute for Transport Studies, University of Leeds. Her research interests are in travel behaviour psychology, transport marketing, planning and policy (including land-use transport interactions), with emphasis on attitudinal and behavioural measures, and social aspects of transport. Specifically, her expertise are in the role of social psychology in enhancing our understanding of human reactions to land-use and transport policies, and appraisal of qualitative policy objectives, with regard to improving effectiveness of sustainability measures. She has worked on European and UK research projects for the European Commission, UK Department for Transport and research councils.

**Clemens Kaufmann** studied Sociology at the University of Vienna. From 1998 to 1999, he was a freelancer at FACTUM, and since 1999, he is an employee of FACTUM. He is involved in several national and international projects (e.g. communication strategies for increased motorcyclist safety, alternative public transport in Austria, Assess implementation in the frame of Cities of Tomorrow, implementation work in Vienna, etc.), specialist on qualitative survey techniques like in-depth interviews, behaviour observation (Wiener Fahrprobe) and workshops. He is secretary of the International Co-operation on Theories and Concepts in Traffic Safety.



**Sander Kooijman**, after his study of Spatial Planning at Nijmegen University, joined Buck Consultants International (BCI), a Dutch consultancy in the fields of economy, freight transport and regional development in 1989. In 1994, Sander took the position of Senior Consultant Economics, Spatial Planning, Transport and Infrastructure at BCI. He conducted and co-ordinated numerous studies in the field of freight transport, both at a national and international level. From 2004 to 2005, Sander acted as chairman of the ELITE-network, a professional network of renowned European consultancies in the fields of logistics, infrastructure and transport. At the end of 2005, Sander became partner and (co) managing director in BUITEN Consultancy for Economy & Environment, Utrecht, The Netherlands, where he is responsible for project management and co-ordination, product development and general management tasks.

**Kari Lautso** is an urban and transport research and planning specialist with extensive experience of transport-related research and planning on international, national and local levels. At WSP LT-Consultants Ltd. he is Member of Board and Deputy CEO in charge of international operations of the company's research activities. In addition to consulting, Mr. Lautso has been employed by Helsinki University of Technology as laboratory engineer, leader of postgraduate courses and associate professor (traffic and transport planning). He has worked on several national and international projects involving integrated land-use and transport planning research, including the EC projects SPARTACUS and PROPOLIS that he co-ordinated. Other EC projects include SCATTER, CITY FREIGHT and PLUME. In Finland, he has worked for Rail and Road Administrations and the Helsinki Metropolitan area Council in several strategic transport research and planning projects. Mr. Lautso has published about 70 conference papers in national and international conferences.

**Stephen Marshall** is Senior Lecturer at the Bartlett School of Planning, University College London, UK. Dr Marshall has 15 years' experience in transport and planning fields. He has worked on several UK and international projects involving integrated land use and transport planning research, including the EC projects TRANSLAND, TRANSPUS, ARTISTS and PLUME; and the UK project SOLUTIONS (Sustainability Of Land Use and Transport In Outer Neighbourhoods). He has several publications encompassing urban design, planning and transport fields, and has authored or contributed to seven books, including *Encouraging Transport Alternatives* and *Streets and Patterns*.

**Lucia Martincigh** is an architect, Associate Professor of Technology of Architecture at the University of Roma Tre, Rome, Italy. She is a lecturer at Doctorate and Post graduation national and international courses and also a National Delegate in various Actions of the EC Cost Program. Lucia Martincigh is responsible for Italian and European researches on sustainable mobility and urban upgrading and design, including PROMISING, PROMT and SIZE. She is also a scientific co-ordinator, chairperson and lecturer at several national and international conferences and exhibitions. Her works include articles in specialized magazines, essays and books at national and international level. She is also a co-ordinator of interdisciplinary groups in DiPSA for the elaboration Pilot Projects.

**Bryan Matthews** is a Senior Research Fellow at the Institute for Transport Studies at the University of Leeds, UK. He has 10 years research and consultancy experience focused

on transport economics. Much of his work has been on international research projects, including the EC projects PROSPECTS, ASTRAL and PLUME; and the international Knowledgebase on Sustainable Land-Use and Transport (KonSULT). He has several publications encompassing transport economics and planning, and served as contributor and co-editor (with Chris Nash) for volume 14 of the Research in Transport Economics series on “Measuring the Marginal Social Cost of Transport” (2005).

**Tony May** has over 35 years’ experience in transport planning and traffic engineering. His principal research interests at Leeds have focused on urban transport and sustainability. He has served as Director of ITS, Dean of the Faculty of Engineering and Pro Vice Chancellor for Research. He was elected to Fellowship of the Royal Academy of Engineering in 1995 and awarded the OBE for services to transport engineering in 2004. Between 1985 and 2001, he maintained a link between research and teaching at Leeds and practical experience in consultancy with MVA Ltd, of which he was a director.

**Eric Monami**, during his 15 years as researcher, consultant and ministerial advisor in transport and environment, he has contributed to or co-ordinated several projects for the European Commission, the American Transportation Research Board and a number of ministries and businesses in Belgium. His work has centred mainly on contracting mechanisms and service quality and environmental impacts assessments in both freight and passenger transports. Dr Monami has been an advisor to the Belgian Minister of Mobility and Transport, the Walloon Minister of Transport and the Brussels Minister for the Environment. He is the author of several articles on European railway reforms.

**Emanuele Negrenti** is Project Manager at ENEA, the Italian Agency for Energy, Environment and Innovative Technologies. Dr Negrenti has 14 experiences in transport impacts and planning fields. He has worked on several Italian and international projects involving transport planning, transport impacts, pollutant emissions modelling, evaluation of transport and transport telematic systems. The European experience is based on FP3 QUARTET and KITE Projects, THERMIE JUPITER Project, COST319 and COST 346 Actions, FP4 COMMUTE, ESTEEM, CAPITALS and CAPITALS PLUS Projects, FP5 ISHTAR (Co-ordinator), HEARTS, INTEGAIRE, ASTRAL and PLUME Projects. He has several international publications on transport impacts fields.

**Kari Rauhala** is architect, lately Senior Research Scientist at VTT (Technical Research Centre of Finland) Building and Transport. Kari Rauhala worked at VTT from 1974 until his retirement in summer 2005. His specialities have been urban planning economics, urban energy consumption, climate and housing, urban quality, environmental impacts, urban shape and transport, pedestrian environment as well as design methods and principles. He has participated in several EC projects, the latest being PROMPT (New Means to Promote Pedestrian Traffic in Cities) and ECOCITY (Urban development towards Appropriate Structures for Sustainable Transport). He was the co-ordinator of the PROMPT project. He has written several publications and articles as well as papers on national and international conferences.

**Ralf Risser** is an Assistant Professor and Lecturer at the University of Vienna and at the Technical University of Vienna. He is visiting professor at the Institute of Technology

and Society, Technical University Lund, Sweden. He works in several EU Projects. Secretary International Co-operation on Theories and Concepts in Traffic safety; Chairing committee member of the NORBIT group (Nordic Organisation for Behaviour in Traffic). His work involves attitude and acceptance, marketing and motive research as a basis for social management. He is a specialist on qualitative survey techniques, behaviour observation (Developer of the Wiener Fahrprobe and derivatives), heuristic procedures like workshops etc., and group-dynamics-based creative and training measures.

**Karel Schmeidler** is Senior Researcher and Head of the S15 Department at CDV – Transport Research Centre and Associated Professor for Urban Design and Planning at the Faculty of Architecture, Technical University Brno, Czech Republic. Dr Schmeidler has 30 years' experience in transport and planning fields. He has worked on several national and international research projects involving architecture, design, urban planning, integrated land-use and transport planning research, including the EC projects SIZE, ASI, ADVISORS, COST 616 CITIAIR, COST 349, COST 352 and COST 355 projects, Central European University Fellowships (Soros Foundation Projects) and HUMANIST Centre of Excellence and many important national CZ projects funded by the Czech Grant Agency and some Czech ministries and universities. He has dozens of publications encompassing architecture, urban design, urban sociology, planning and transport fields, and has authored or contributed to several books, including *Sociologie v architektonicke a urbanisticke tvorbe* (Brno 1997 and reprinted 2001).

**Uwe Schubert** studied law and economics in Vienna and San Diego, California. Until 2006, he was chairman of the Institute of Economic Geography, Regional Development and the Environment at the Vienna University of Economics and Business Administration. He held the chair in Environmental Economics and Management. His main research fields are urban development and environmental economics and policy. Since 1975, he has been active in comparative development research. He served as co-ordinator of several national as well as European projects (e.g. ENVINNO, EASY-ECO, ECOCITY). Now he is Professor Emeritus.

**Carlo Sessa** was in charge of the co-ordination of the European research project TRANSPLUS – Transport Planning Land Use and Sustainability. He is president of ISIS – Institute of Studies for the Integration of Systems of Rome. Before joining ISIS in 1983, he has conducted research at NYU, where he worked with Nobel Prize winner Wassily Leontieff. He was project co-ordinator or partner in several EU research projects, including ACT-VILL and ESTEEM for DGXII, and recently the RAISE Citizens Conference on EU research for the City of Tomorrow and Cultural Heritage.

**Franz Skala** studied civil engineering at the Technical University Vienna (not completed); he is co-author of publications in the field of transport and environment – for example, *Flexibility in Public Transportation* (Flexibler Oeffentlicher Verkehr, VCOE Verkehrsclub Oesterreich 1996), co-operated in projects (e.g. Study for a pilot project for integrated transport in rural areas for the region Waidhofen an der Thaya) and initiated the multi-disciplinary association “Institute of Ecological Urban Development”. For the

ECOCITY–project, he was employed at the Department of Environmental Economics and Management of the Vienna University of Economics and Business Administration.

**Linda Steg** is lecturer in Environmental Psychology at the University of Groningen. She conducted many studies within the field of Environmental and Traffic Psychology, and is particularly interested in studying individual and corporate behaviour related to sustainable development from a multidisciplinary perspective. Her research focuses on measuring, understanding and changing environmentally significant behaviour, like household energy use and car use. Steg is president-elect of Division 4 ‘Environmental Psychology’, and treasurer of Division 13 ‘Traffic Transportation Psychology’ of the international Association of Applied Psychology (IAAP). Furthermore, she coordinates the sustainability network of the International Association of People-Environment Studies (IAPS).

**Åse Svensson** is Senior Lecturer at the Department of Technology and Society, Lund University, Sweden. Dr Svensson’s main background is in the area of traffic safety research, validation of the Swedish Traffic Conflicts Technique and further development of the concept towards general severity rating of interactive behaviour. She was coordinator of EC project ARTISTS and is now project leader of a doctoral student project with the aim of adapting and developing ARTISTS concepts to Swedish conditions. She is also heading a doctoral student project in the area of developing and utilising cognitive vision for studies and analysis of road user behaviour.

**Luca Urbani** is expert in the field of transport planning, transport infrastructures and traffic safety, now by IBV – Ingenieurbüro für Verkehrplanung – Zurich. Luca Urbani has almost 10 years of research experience in the field of traffic safety with particular regard to behavioural patterns and vulnerable road users. He has worked in several Italian and international research projects, including the EC founded PROMISING – Promoting of Measures for vulnerable road users (1997), PROMPT – New means to PROMote Pedestrian Traffic in cities (2003) and ASI – Assessing Implementation (2005) as external senior researcher within the Department of Design and Study of Architecture, Faculty of Architecture, University Roma Tre. On these and other topics. Dr Urbani has several publications presented at international conferences.

**Pascal J.W. van den Noort** is Executive Director of Master Plan BV and of Velo Mondial and Velo.Info. He has vast experience in founding (inter)national and global organizations, projects, conferences and events. He was the founder and Executive Director of the Dutch Aids Foundation and of the Global Network of People Living with HIV/AIDS (GNP+). For Master Plan BV, he is involved in the setting up of research projects that promote sustainable urban development and specializes in making information for sustainability better available. For Velo Mondial and Velo.Info, he initiates, promotes and organizes innovative developments with passion.

**Tina Wagner** is working as a researcher at the Transportation and Logistics Group of the Hamburg University of Technology, Germany. Tina Wager is a younger transport planner with experiences in research and consulting on the European, national and regional level. Her research focus is on integrated planning. She has worked on several

projects involving sustainable land use and transportation (e.g. ECOCITY), integration of transport infrastructure into urban environments, air traffic and commercial and goods traffic.

**Michael Wegener** was until 2003, Director of the Institute of Spatial Planning and Professor at the Faculty of Spatial Planning of the University of Dortmund, Germany. Since 2003, he is a partner in Spiekermann & Wegener, Urban and Regional Research in Dortmund. His main research fields are planning theory, urban and regional development, European urban systems and trans-European networks. His specialisation is urban and regional modelling, in particular of the land-use transport interface in cities and regions and of the regional impacts of European large transport infrastructure projects.

*The Projects and Initiatives Featured in This Book*

LUTR Land Use and Transport Research (cluster of projects)  
(<http://www.lutr.net/>)

PLUME PLanning and Urban Mobility in Europe (network)  
(<http://www.lutr.net/>)

*Individual Projects*

ARTISTS Arterial Streets Towards Sustainability  
(<http://www.tft.lth.se/Artists>)

ASI Assess Implementations in the frame of the Cities of Tomorrow Programme  
([www.factum.at/asi](http://www.factum.at/asi))

CITYFREIGHT Inter- and Intra- CityFreight Distribution Networks  
(<http://www.cityfreight.eu/>)

ECOCITY Urban Development Towards Appropriate Structures for Sustainable Transport  
(<http://www.ecocityprojects.net>)

ISHTAR Integrated Software for Health, Transport Efficiency and Artistic Heritage Recovery  
(<http://www.ishtar-fp5-eu.com/>)

PROMPT New Means to Promote Pedestrian Traffic in Cities  
(<http://prompt.vtt.fi>)

PROPOLIS Planning and Research for Land Use and Transport for Increasing Urban Sustainability  
(<http://www.ltcon.fi/propolis>)

PROSPECTS Procedures for Recommending Optimal Sustainable Planning of European City Transport Systems  
(<http://www-ivv.tuwien.ac.at/projects/prospects.html>)

SCATTER Sprawling Cities and Transport: from Evaluation to Recommendations  
(<http://scatter.stratec.be>)

SUTRA Sustainable Urban Transportation  
(<http://www.ess.co.at/SUTRA>)

TRANSPLUS Transport Planning, Land Use and Sustainability  
(<http://www.transplus.net/>)

VELOINFO The European Network for Cycling Expertise  
(<http://www.velo.info/>)