



Car Free Development and New Street Design

Recommended Reading and Links

June 2009

Preface

The idea of Car Free Development is gaining increasing attention around the globe. Designing streets for people, not just cars, is considered to be a key issue in efforts aimed at reducing car dependency and promoting low carbon mobility. Moreover, recent concepts summarised under the term New Street Design help to reconcile car traffic movement with the needs of pedestrians and the desire for attractive public spaces. These concepts significantly improve conditions for non-motorised transport where completely blocking access for vehicles is impossible or undesirable.

In many developing and newly industrialised countries the level of car ownership still remains low compared to Western European or US standards. These conditions provide a unique opportunity to foster non-motorised transport, to improve accessibility and to maintain economic viability. Avoiding the erroneous trend of car oriented city development pursued for many years in Western countries will benefit the vast majority of city dwellers in developing countries. In addition, it will contribute significantly to meet climate related CO₂ mitigation targets.

This document aims at providing the reader with an overview of the latest available literature on Car Free Development and New Street Design. Moreover, it includes links to a wide range of related organisations and projects. We hope the information provided here will be useful for anybody interested in the subject.

For more information on our work, please see the last page of this document.

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General Resources

GTZ: ***Sustainable Transport: A Sourcebook for Policy-makers in Developing Cities, Module 3e: Car-Free Development***. Author: Lloyd Wright (2005)
Available online (after quick registration) at www.sutp.org

Together with more than 25 other modules of the SUTP Sourcebook, *Car-Free Development* is intended as a resource document for local government officials and political leaders. It aims at summarising the myriad of activities and lessons learned from cities seeking an alternative to motorised transport.

Content:

- The car society
- Defining car-free development
- Project development
- Design
- Promotion
- Evaluation
- Information resources
- Epilogue
- References

168 pages, fully illustrated

Victoria Transport Policy Institute (2008/2009): ***Online TDM Encyclopedia***
Available online at www.vtpi.org/tdm

The well established VTPI *Online TDM Encyclopedia* offers one of the most comprehensive resources on all aspects of Transport Demand Management (TDM). Several of its chapters provide useful information as well as further references on issues of Car-Free Development and street designs and traffic calming. Among them are the following:

Walking and Cycling

www.vtpi.org/documents/walking.php

Car Free Planning

www.vtpi.org/tdm/tdm6.htm

Streetscape Improvement

www.vtpi.org/tdm/tdm122.htm

Road Space Reallocation

www.vtpi.org/tdm/tdm56.htm

Reduced and Restricted Vehicle Parking

www.vtpi.org/tdm/tdm28.htm

Literature – Car-Free Zones

Crawford (2008): ***Carfree Design Manual***

Available for purchase via www.kagi.com

Carfree Design Manual starts from the urban planning principles established in Carfree Cities and shows how to design beautiful carfree districts that are places to build a satisfying and sustainable life (600 pages, hardcover, colour images throughout).

DfT (2005): ***Home Zones: Challenging the future of our streets***

Available online at:

www.dft.gov.uk/pgr/sustainable/homezones/cfos/zoneschallengingthefuture5739.pdf

The UK Department for Transport (DfT) Home Zones Challenge programme has demonstrated what benefits can be delivered and highlighted issues to be considered when developing Home Zones, which are residential streets designed as places for people, not just vehicles. The document summarises the results. It aims to disseminate good practice in Home Zone design and scheme development.

DfT (2006): ***Making In Town, Without My Car! Work - A Good Practice Guide***

Available online at:

www.dft.gov.uk/pgr/sustainable/awareness/itwmc/coll_intownwithoutmycargoodpractice/wnwithoutmycargoodpracti5725.pdf

The good practice examples included in this guide were chosen from the 95 UK towns and cities that participated in 2004 and/or 2005 *In Town, Without My Car!* Events. The intention is to provide examples from a range of locations around the UK that can be replicated elsewhere.

Scheurer/ISTP (2000): ***Car-Free Housing in European Cities - A Survey of Sustainable Residential Development Projects***

Available online at

<http://www.istp.murdoch.edu.au/publications/projects/carfree/carfree.html>

This research on carfree and car-lite housing development was part of a PhD project investigating the contribution urban ecology, community and mobility management innovations in residential neighbourhoods can make towards the sustainable transformation of our cities. The paper looks at projects in Amsterdam, Edinburgh, Hamburg, Vienna, Freiburg and Cologne

Literature – Shared Spaces, Traffic Calming & New Street Design

ARTISTS (2004): ***Arterial Streets for People (final report)***

Available online at

www.eukn.org/binaries/urbanmatrix/documents/research/2007/artists---guidance.pdf

The ARTISTS project integrated urban place functions and through traffic to improve the design and management of arterial streets in European cities. It ran between December 2001 and November 2004. The project and its final report drew on all relevant city and traffic planning literature, as well as the experience and research from the European Commission project ARTISTS (Arterial Streets Towards Sustainability). The final report is aimed primarily at city authorities and other policy makers, practitioners and consultants with responsibility for the design and management of streets. It gives general guidance on concepts and techniques, which may be adapted to fit the relevant national or city context.

ASTRA (2003): ***innerorts Verkehrsberuhigung***

Available online at

www.mobilitaet21.de/projekte/dokumente/StadtBallungsraum/Begegnungszonen/ASTRA-Innerorts-Verkehrsberuhigung.pdf

This brochure of the Swiss Federal Road Agency (ASTRA) summarises recommendations for municipal stakeholders for traffic calming measures and new street designs which take better care of the needs of pedestrians and bicyclists. The document is in German language.

Barter (2009): ***Earning a Public Space Dividend in the Streets***

Available online at

www.ltaacademy.gov.sg/doc/IS02-p32%20Public%20Space%20Dividend.pdf

This article provides a quick review of promising new ways to reconcile movement, access and place-making within urban rights of way. It also outlines the historical process in which different new approaches to street design developed, and is thus highly recommended for anyone looking for a quick introduction to the issue.

Clarke (2006): ***Shared Space – the alternative approach to calming traffic***. Interview with H. Monderman and B. Hamilton-Baillie.

TEC September 2006

Available online at www.hamilton-baillie.co.uk/files/publications/18-1.pdf

It is 30 years since Hans Monderman took the first steps towards creating an alternative approach to traffic calming. Today, the Shared Space concept is gaining

acceptance across the globe. Emma Clarke talks to Hans Monderman and to Ben Hamilton-Baillie, an urban design and movement specialist leading the development of the concept in the UK.

CSE (2009): ***Footfalls - Obstacle Course To Livable Cities***

Available online at www.cseindia.org/campaign/apc/pdf/Walkability.pdf

The Centre for Science and Environment (CSE) is a public interest research and advocacy organisation based in New Delhi, promoting development that is both sustainable and equitable. The comprehensive report prepared by CSE summarizes the current situation encountered by most pedestrians in Indian cities, and proposes measures to be taken to achieve a more pedestrian-friendly environment.

DfT (2005): ***Traffic Calming Bibliography***

Available online at

www.dft.gov.uk/pgr/roads/tpm/tal/trafficmanagement/ficadvisoryleaflet205tra4124.pdf

This highly recommended leaflet lists the main items of published advice on traffic calming features from the UK Department for Transport and TRL Limited, and a selection from other sources.

DfT/TSO (2007): ***Traffic Calming***

Available online at

www.dft.gov.uk/pgr/roads/tpm/ltnotes/pdf/ltn0107trafficalm.pdf

This Local Transport Note (LTN) brings together in one comprehensive document a summary of the research commissioned by the Department for Transport (DfT), together with research from external sources, to provide advice on the use of traffic calming measures today. It covers relevant legislation and the design, effectiveness and installation (including signing and lighting) of measures

DfT (2007): ***Manual for Streets***

Available online at

www.dft.gov.uk/pgr/sustainable/manforstreets/pdfmanforstreets.pdf

The comprehensive Manual for Streets provides guidance for practitioners involved in the planning, design, provision and approval of new residential streets, and modifications to existing ones. It aims to increase the quality of life through good design which creates more people-orientated streets.

DSSW (2008): ***Geschäftsstraßenraumgestaltung: Erhöhung der Funktionalität, Attraktivität und Effizienz durch Reduktion.***

Available online at

www.dssw.de/fileadmin/repository_redakteure/downloads/DSSW-Materialien/2008/2008-gestaltung-begriffe.pdf

This paper in German language takes a closer look at new approaches to revitalise central business and shopping streets.

English Heritage (2008): ***Streets for All - Practical Case Studies : A Summary. Practical case study 5: Traffic Calming.***

Available online at www.english-heritage.org.uk/server/show/nav.8680

Forming part of the overarching Streets for All document, this short paper outlines basic principles of current traffic calming methods in the UK context, supplemented by a case study.

Engwicht: ***Intrigue & Uncertainty - Towards New Traffic-Taming Tools***

Available online at www.creative-communities.com

This document is made available by Creative Communities International (see also in the section on NGOs in this literature review). The goal of the book is to give cities and residents new tools to tame traffic, particularly around schools and in neighbourhoods.

Ewing / Brown (2009): ***U.S. Traffic Calming Manual***

Available for purchase via www.asce.org

This book provides practical guidance on establishing an effective program, deciding which traffic-calming device to choose for a given problem, and properly designing a selected device to achieve a desired outcome. Numerous case studies from across the USA suggest the most effective measures in various circumstances, and hundreds of color photographs illustrate specific traffic-calming treatments.

Federal Highway Administration (2008): ***A Resident's Guide for Creating Safe and Walkable Communities***

Available online at

http://safety.fhwa.dot.gov/ped_bike/ped/ped_transguide/transit_guide.pdf

This guide is intended to assist residents, parents, community association members, and others in getting involved in making communities safer for pedestrians. The guide includes facts, ideas, and resources to help residents learn about traffic problems that affect pedestrians and find ways to help address these problems and promote pedestrian safety. The guide includes information on identifying problems,

taking action to address pedestrian concerns, finding solutions to improve pedestrian safety, and resources to get additional information

Hamilton-Baillie (2008): ***Shared Space: Reconciling People, Places and Traffic***

Available online at www.hamilton-baillie.co.uk/files/publications/25-1.pdf

The paper considers the potential for shared space principles to prompt a new approach to the design, management and maintenance of streets and public spaces in cities, towns and villages. Drawing on well-established examples from a variety of countries, the author examines the outcomes of schemes that deliberately integrate traffic into the social and cultural protocols that govern the rest of public life.

Hamilton-Baillie, Jones (2005): ***Improving traffic behaviour and safety through urban design***. Proceedings of ICE, Civil Engineering 158, May 2005, p. 39–47.

Available online at www.hamilton-baillie.co.uk/files/publications/17-1.pdf

This paper reports on the results of experiments in Europe on removing the traditional separation between traffic and people in urban areas. It also provides a quick historical background on the concept of shared spaces.

Hass-Klau (1990): ***The Pedestrian and City Traffic***. Belhaven Press, London

Available only as hardcopy for purchase.

This book reviews the urban planning responses to motor transport in British, America and German cities and shows how a combination of enormous misjudgements of private vehicle-growth and a neglect of opportunities to develop public transport, still largely a 19th-century infrastructure, has brought modern cities to the point of economic and environmental collapse, with the prospect of a grim future. Dr Hass-Klau, a planning practitioner, has produced an analysis of where transport planners have gone wrong and how traffic calming can be applied.

IHT (2005): ***Traffic Calming Techniques***

Offered for sale at www.iht.org/en/publications/#TCT

This book published by the Institution of Highways & Transportation outlines the purposes for which traffic calming can be used, both as an approach in itself or as part of a wider and more holistic approach to traffic management. It highlights best practice and provides advice on the development and implementation of schemes as well as giving pointers on how traffic calming may develop in the future. It also includes over 80 case studies which take a look at both how older schemes have stood the test of time as well as more recent approaches.

ITE (2006): ***Context Sensitive Solutions in Designing Major Urban Thoroughfares for Walkable Communities.***

Available online at <http://ite.org/bookstore/RP036.pdf>

This comprehensive report prepared by the Institute of Transportation Engineers provides guidance for practitioners and stakeholders and demonstrates how CSS concepts and principles may be applied in roadway improvement projects, especially in the planning and design of major urban thoroughfares for walkable communities. CSS is a process of balancing the competing needs of many stakeholders (e.g. drivers, pedestrians, communities, ...) starting in the earliest stages of project development.

Litman/VTPI (2004): ***Whose Roads? Defining Bicyclists' and Pedestrians' Right to Use Public Roadways***

Available online at www.vtpi.org/whoserd.pdf

Many people believe that nonmotorized modes (walking, cycling, and their Variations) have an inferior right to use public roads compared with motor vehicles. This reflects the belief that motor vehicles are more important to society than nonmotorized modes, and that roads are funded by motorists. This paper investigates these assumptions. It finds that nonmotorized modes have the legal right to use public roads, that nonmotorized modes provide significant transportation benefits, and pedestrians and cyclists pay a significant share of roadway costs

Oregon Metro Regional Government (2002): ***Designing streets for people***

Further information at: www.oregonmetro.gov/index.cfm/go/by.web/id=26334

The second edition of the handbook describes how communities can design streets to be people friendly and includes detailed illustrations of designs that integrate streets with nearby land uses.

Rashidi, CARFREE Project (2005): ***Carfree China Initiative Report***

Available online at

www.healthbridge.ca/assets/images/pdf/Ecocities/China%20rept%20JanMar05.pdf

An informal Report of the director of the Car Free China program on the preliminary results of the program.

Shared Space Project (2008): ***Shared Space - From project to process: A task for everybody.***

Available online at www.shared-space.org/download.asp?link='/files/18445/Opmaak_boekShEngels2007_def.pdf'&linkID=164679

Shared Space is a spatial development project that was launched early in 2004 under the European INTERREG IIIB programme (see also the *Project* section in this literature review). The comprehensive document summarises the lessons that learnt, and devises a staged plan for carrying out a *Shared Space* process. The document is available in five languages.

Shared Space Project (2008): ***Final Evaluation and Results.***

Available online at: www.shared-space.org/files/11276/Def.Final_Evaation31_akt.pdf

The final report on the EU *Shared Space* project, summarising the project outcomes.

TGM (2003): ***Street Design Basics***

Available online at <http://web.pdx.edu/~jdill/Street%20Design.pdf>

Developed by graduate students of Portland State University, this short paper summarises actions to be taken towards the goal of more liveable streets.

UBA: ***Flächenhafte Verkehrsberuhigung***

Available online at www.umweltdaten.de/verkehr/downloads/zielefvb.pdf

This short paper prepared by the German Umweltbundesamt (UBA) gives an overview of the history of traffic calming in the German context.

UBA (2006): ***Modellvorhaben "Fußgänger- und fahrradfreundliche Stadt" - Chancen des Fuß- und Radverkehrs als Beitrag zur Umweltentlastung.***

Available online at www.umweltbundesamt.de

From June 2001 until October 2003 the model project "Walking and cycling friendly city" ran in the three German cities of Lingen (Ems), Plauen (Vogtland) and the Luthertown Wittenberg. The aim of the project was the creation of a positive climate towards walking and cycling through a long term promotion of these traffic forms, by forming equal rights in planing decisions and to strength its position in the planning institutions. The conclusions summarised in this paper offer recommendations for the strategic promotion of walking and cycling programs for local administrations. The paper is available in German language only.

URBAN DESIGN *International* Special Issue (2008): ***An international review of liveable street thinking and practice***. Volume 13, No 2, Summer 2008.

This issue contains eight articles from different authors on liveable streets. While the complete issue is not available online for free, one of the papers can be downloaded from B. Hamilton-Baillie's homepage:

Hamilton-Baillie (2008), ***Towards shared space***. The paper outlines the background and principles underpinning shared space, and describes some of the significant examples in the UK and mainland Europe.

Available online at www.hamilton-baillie.co.uk/files/publications/30-1.pdf

Voigt, Steinman (2003): ***Design Changes for Livable Urban Streets***. Paper submitted for presentation at the Transportation Research Board 2nd Urban Street Symposium, Anaheim 2003.

Available online at

www.urbanstreet.info/2nd_sym_proceedings/Volume%202/Voigt.pdf

A short paper presenting the new guidelines adopted by the City of Charlotte, North Carolina, to better accommodate the mobility needs not only of drivers, but also of pedestrians and bicyclists.

(Official) Project and Program websites

Begegnungszonen

www.begegnungszonen.ch/home/index.aspx

This Swiss homepage offers information in German and French language on "Begegnungszonen", the Swiss term for the shared spaces concept.

Carfree Cities Conference

www.worldcarfree.net/conference/

www.slideshare.net/TCC08/slideshows (for presentations from the 2008 Carfree Cities Conference)

The goal of the Towards Carfree Cities conference series is to bring together people from around the world who are promoting practical alternatives to car dependence - walking, cycling and public transport, and ultimately the transformation of cities, towns and villages into human-scaled environments rich in public space and community life. The focus is on strategy, collaboration and exchange, assisting the practical work of conference participants. Date and place for the 2009 conference are due to be announced at the above cited website.

CIVITAS Initiative

www.civitas-initiative.org

Closely related to the ELTIS database (see below), the EU-sponsored CIVITAS Initiative offers information on activities in numerous European cities to establish more efficient and cleaner urban transport systems. Several of these project activities are related to improving conditions for pedestrians (and other NMT). See below for an example.

- **Car-free zone, extension of strolling-zone and bicycle road network**
www.civitas-initiative.org/measure_sheet.phtml?related=1&id=315

A car-free zone in the centre of Pécs around the UNESCO protected monuments accompanied by a limited access area in the buffer-zone of the city-centre and a zone-model parking system.

DfT - Traffic advisory leaflets

www.dft.gov.uk/pgr/roads/tpm/tal/

This website maintained by the UK Department for Transport offers a wide range of brochures on different traffic-related subjects, many of them associated with pedestrian issues.

ELTIS

www.eltis.org

The ELTIS homepage offers a wide range of case studies of urban transport projects. Many of these are related to improving conditions for pedestrians. Several of the projects covered are situated in Middle and Eastern European Countries. Below are selected examples of activities related to Car Free Development and Traffic Calming.

- **The Streets Belong to Us - Istanbul/Turkey**
www.eltis.org/study_sheet.phtml?study_id=2127&lang1=en

In four separate events in 2007, a selected residential street in Istanbul was closed to motorised traffic on a Sunday for 4 to 5 hours to demonstrate benefits of carfree living and carfree environments, and to show the residents how they can benefit from their streets as a safe open urban space.

- **Walking 10 000 steps towards sustainable and healthy city of Tartu (Estonia)**
www.eltis.org/study_sheet.phtml?study_id=1813&lang1=en

During the International Car-free day (22.09.2007) 76 volunteers in the city of Tartu were handed pedometers with the aim during next three months walk at least 10 000 steps per day. The project aimed at current car users belonging to different gender and age groups.

- **Creation of a pedestrian area at Republicii street in Oradea, Romania**
www.eltis.org/study_sheet.phtml?study_id=1923&lang1=en

The purpose of the project is to create a large pedestrian area that will cover most of the historical part of the city. The first part of the project was the rehabilitation of Republicii Street, a pedestrian area that had lost its purpose and architectural value.

ITE – Traffic Calming

www.ite.org/traffic/

This Traffic Calming Web site was developed by the Institute of Transportation Engineers with financial support from the Federal Highway Administration in the interest of information exchange. It offers a wealth of information and downloads on the issue of traffic calming.

Local Government Commission (LGC) – Street Design

www.lgc.org/issues/water/street_design.html

The US-based Local Government Commission has developed several guidebooks that discuss how to design or retrofit streets and neighbourhoods to make them more supportive of walking and bicycling. It also offers an online introduction on the issue of street design from a US perspective.

Mobilität 21

www.mobilitaet21.de/index.php

This site, which is sponsored by the German Federal Ministry of Transport, Building and Urban Affairs (BMVBS), aims at providing information especially on results of publicly funded research projects in the field of urban mobility and other related topics.

Shared Space Institute

www.sharedspace.eu/en/home

Shared Space Institute is an international knowledge institute, dedicated to knowledge creation, knowledge transfer and knowledge implementation in the field of *Shared Space*. As of June 2009, the project and its website had just been initiated.

Traffic Calming

www.trafficcalming.org/

Developed by Fehr&Peers consultants, this site serves as a practical guide to traffic calming and neighborhood traffic management, including international and US history, a toolbox of calming devices and current programs around the world.

Non-Governmental Organisations working in the field of Car-Free / Car-Light Development

Many grass root organisations in both developed and developing countries around the world are working towards an improvement of urban quality of life. Regaining the streets for non-motorised use features prominently among the goals pursued by these NGOs, often combined with improved public transport options. Below is a short, not exhaustive list of some of the most important organisations.

Autofrei Wohnen

www.autofrei-wohnen.de/ (German only)

This German NGO actively promotes residential areas for people living without a car. It has successfully demonstrated the concept at a project site in Berlin, and is working towards extending the scheme.

Ciudad Viva

www.ciudadviva.cl/ (Spanish only)

The Chilean NGO “Ciudad Viva” actively promotes a more social and sustainable use of public spaces in cities. Its members are mainly associated with the Faculty of Social Sciences at the Universidad de Chile.

Ciudad Humana

www.ciudadhumana.org/ (Spanish only)

This Colombian NGO brings together specialists from different academic and professional disciplines, from students to professionals with many years of working experience in the field of improving urban quality of life.

Critical Mass

www.critical-mass.org/

Critical Mass is not an organisation, but a movement promoting the use of bicycles in the streets. Accordingly, there is no official Critical Mass web page, but critical-mass.org contains a large number of links to unofficial web pages associated with the movement world wide. Several of these can be found in developing countries.

EcoMobility

www.ecomobility.org/

The Global Alliance for EcoMobility internationally advocates EcoMobility systems that meet local accessibility needs and improve health, safety, security, air quality and social inclusion, and reduce road congestion and noise levels, resource and energy consumption and greenhouse gas emissions. The EcoMobility Alliance consists of leading global and regional-level organizations, businesses and individuals.

ECOPOLITICS

www.ecopolitics.ca/transport/cfz/index.php

This Toronto-based website was created to raise public awareness of topics related to an improved quality of urban life. It aims at motivating the public to become active and assertive participants in ecopolitical issues. One of the issues covered are Car Free Zones.

Firefly Brigade

www.fireflybrigade.org/

The Firefly Brigade is a citizen's volunteer action group which works for clean air and a habitable, people-friendly environment in Philippine cities.

FiT Roads

www.fitroads.org/Home

FiT Roads supports the right of all road-users to use commonsense and common courtesy on roads instead of using traffic controls such as traffic lights and signs.

Great Streets

www.greatstreets.org/

The purpose of this site is to provide information for advocates of good design who want to make a difference in their community. It provides case studies where great streets have been the centrepiece of a renewed main street or downtown.

LivableStreets Alliance

www.livablestreets.info/

LivableStreets Alliance is a Boston-based non-profit organization promoting safe, convenient, and affordable transportation for all users in urban Boston. Among its activities are sharing of best practices, building partnerships with other advocacy groups, and providing practical knowledge to neighbourhood communities. Associated with their homepage is the recommended **StreetsWiki**, a community-created, online encyclopedia for transportation, urban environmental, and public space issues. It is intended as a place for ordinary people, planners, and academics to write and read about cities and how to make them more liveable.

Street Reclaiming (Creative Communities International)

www.lesstraffic.com/Programs/SR/SR.htm

This site offers advice for residents and city officials how to use street reclaiming techniques to calm traffic on any type of street. It is one of several webpages maintained by Creative Communities International aimed at building the capacity of communities to be more creative in the way they tackle a broad range of issues.

Walkable Communities

www.walkable.org/

Walkable Communities offers a variety of services to help communities with diverse needs. The core mission of Walkable Communities is to promote walkability as the cornerstone of a successful, vibrant community.

WBB Trust

www.wbbtrust.org/index.php?option=com_content&task=view&id=18&Itemid=1

This Bangladesh NGO is working towards a better co-ordination of urban planning and transport policies, which should emphasise access over mobility. Providing sufficient space for recreation and other needs of a city's inhabitants are among the main goals the WBB Trust is lobbying for.

World CarFree.net

www.worldcarfree.net/

Worldcarfree.net describes itself as the hub of the global carfree movement. It is intended as a clearinghouse of information from around the world on how to revitalise our towns and cities and create a sustainable future. In addition to serving the carfree movement, Worldcarfree.net offers resources for architects, planners, teachers/professors, students, decision-makers and engaged citizens

GTZ – Sustainable Urban Transport Project (SUTP)

Based on more than 25 years of practical experiences, GTZ hosts the “Sustainable Transport: A Sourcebook for Policy-Makers in Developing Cities” (www.sutp.org) with a wealth of information and knowledge on appropriate solutions, inter alia on tackling climate change in the transport sector. Through training and advisory services, decision makers in the transport sector are better informed about transport options, mode choices, mobility management and transport related emissions and their impact on our climate. This may lead to improved urban transport systems, less traffic and better alternatives to using cars or motorised two-wheelers.

This flagship publication compiles most international practices and provides access to numerous other resources. It is complemented by training courses targeted to policymakers, planners or engineers in cities, regional entities and federal governments.

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Cover photo:

Lloyd Wright
Car-Free street in Oyumino, Japan, 2005

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www.sutp.org
www.gtz.de/fuelprices
www.gtz.de/transport

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