

GLOSSARY

This is the first draft of the glossary. Readers are encouraged to email a.koh@its.leeds.ac.uk if they have suggestions or comments to improve it.

Acceptability - prospective judgement of measures to be introduced in the future, the target groups will not have experienced any of these measures, making "acceptability" an attitude construct subject to strong situational and temporal factors.

Acceptance - involves respondents' attitudes including their behavioural reactions after the introduction of a measure. Generally, the construct can be conveniently described by questioning "acceptance of what, through whom and under which conditions and circumstances".

Agglomeration – A clustering of activity in one concentrated area which facilitates a good interaction between firms and individuals in these close environments to share knowledge and develop new ideas.

Air quality - The condition of the air in the surrounding environment.

Area Licensing Scheme (ALS) – Road pricing scheme requiring the motorist to purchase a license for use of the highway within a defined area (e.g. in London).

Appraisal - Assessing the relative merits of road pricing schemes against the objectives *before* they are implemented (see also Evaluation)

Carbon dioxide (CO₂) - A colourless, odourless and non-poisonous gas formed by combustion of carbon and in the respiration of living organisms and is considered a greenhouse gas.

Central Business District (CBD) – The area of a town or city centre which is clustered mainly of businesses.

Cost-benefit analysis (CBA) Appraisal of the economic efficiency of a strategy, by weighing the costs of a strategy against the benefits it might bring, over a number of years into the future

Cordon Pricing Scheme – Road pricing scheme requiring the motorist to pay a toll to cross a designated boundary (e.g. in Stockholm).

Back office – IT equipment and software that is centrally located or hosted that provides connectivity and centrally controlled applications to a network of users. Typical examples are firewalls, network switches, servers, Enterprise applications, etc.

Chart of Accounts - A listing of Accounts in a financial system generally using alpha numeric characters to designate the transactions that comprise the Balance Sheet and Income Statement. The chart of accounts is used as the basis for preparing financial reports from an accounting system.

Core application – the software application, normally an Enterprise application, that runs, controls, and manages business processes like financial transactions, customer relationship management process, information management processes, etc

Decentralise – The process of shifting control or affairs away from a central-based institution, such as a government, to a more locally based organisation.

Distance-based charges – Charges that vary according to the distance travelled.

Dose-response - The relationship between exposure to pollution as a cause and specific outcomes as an effect.

eBusiness – shortened notation for Electronic Business, may be defined broadly as any business process that relies on an automated information system. Today, this is mostly done with Web-based technologies

eGovernment – shortened notation for electronic government (also known as e-gov, digital government, online government or in a certain context transformational government) refers to government's use of information technology to exchange information and services with citizens, businesses, and other arms of government

Economic Efficiency – Maximising the economic benefits which users can gain from the transport system, after taking account of the costs or provision and operation of the system.

Environment - Environmental impacts include noise, air pollution, vibration, visual intrusion, severance, intimidation, and the loss of flora, fauna and historic buildings

Enterprise (in the context of Business Systems) – Covering the primary processes of a medium to large business to meet its business, fiscal, and statutory requirements So, in this context, an Enterprise solution would be an offering that is geared to meeting these needs

Environment - The environmental impacts of concern to transport include noise, atmospheric pollution, vibration, visual intrusion, severance, fear and intimidation, and the loss of flora and fauna, ancient monuments and historic buildings through the consumption of land.

Emission - The discharge of pollutants into the atmosphere from stationary sources such as smokestacks, other vents, surface areas of commercial or industrial facilities and mobile sources, for example, motor vehicles, locomotives and aircraft.

Equity - Equality, especially between different groups in society, in opportunities to travel, costs of travel and environmental and safety impacts of travel

Externalities – Costs arising from an activity/transaction that are incurred by society, or benefits that are received by them, but not considered by the parties to the activity/transaction.

Evaluation - Evaluation is work that is carried out *after* implementation to find out what the actual impacts of the policy have been.

Flat rate tax – A uniform charge or levy that impacts differently upon different groups of people.

Front end applications – general umbrella term covering the items used to capture source information. So, in transport, this may be tag detectors, number plate recorders, etc.

Front office – IT equipment and software that are used, located, or reside with the user. Typical examples include Personal Computers (PCs), printers, software installed on PCs and so on.

Green cars – Cars that meet certain environmental standards concerning for example fuel efficiency, emissions of CO₂ and other environmental/health detrimental pollutants.

Greenhouse gas (GHG) - Any of the atmospheric gases that contribute to the greenhouse effect by absorbing infrared radiation produced by solar warming of the Earth's surface. They include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (NO₂), and water vapour.

Horizontal equity – (also referred to as spatial or territorial equity) – Concerns the impact on people residing in different areas or making different types of journey.

Immission - The reception of material, such as pollutants, by the environment and from any source.

Kyoto Protocol - An agreement made under the United Nations Framework Convention on Climate Change (UNFCCC). Countries that ratify this protocol commit to reduce their emissions of carbon dioxide and five other greenhouse gases (GHG), or engage in emissions trading if they maintain or increase emissions of these gases.

Land use - The function of a given area of land. Examples of types of land use include: residential, industrial, commercial, agricultural and recreational

Merchant Acquirer – a financial institution, or agents acting on their behalf who perform four key functions

- (1) signing up and underwriting merchants to accept network-branded cards
- (2) providing the means to authorize valid card transactions at client merchant locations
- (3) facilitating the clearing and settlement of the transactions through the payment network, and
- (4) providing other relevant information services, such as sending out statements

Model - A (mathematical) representation of the relationships within the land use / transport system; widely used to predict the outcomes of transport strategies

Middleware – The translation layer or ‘glue’ that allows front end applications to interact with a core application

Multi-criteria appraisal - Appraisal against more than one objective

Nitrogen oxides (NOx) - Any of several oxides of nitrogen formed by the action of nitric acid on oxidizable materials; present in car exhausts.

Objective – A broad statement of the improvements which a city is seeking. Objectives specify the directions for improvement, but not the means of achieving it

Optimal Road Toll – A toll that performs best against its objectives.

Particulate Matter (PM) - A generic term used to describe a complex group of air pollutants that vary in size and composition, depending upon the location and time of its source. PM₁₀ comprises particles with an aerodynamic diameter less than or equal to a nominal 10 microns.

Pricing - The way in which users are charged for using the transport system. Road pricing is a pricing system where motorists pay directly for using the roads

Platforms – generic term for any specified hardware and software combination that provides the service to which it relates, e.g. an ERP platform is the hardware and software combination that provides the Enterprise Resource Planning service to its users

Predict and Provide – A government transport strategy that sought to solve problems of increasing road congestion by meeting the demand by increasing the network capacity.

Regressive – A (charge) that takes a larger percentage from the income of low-income people than the income of high-income people.

Reliability - For the road system, reliability means little daily variation in travel time. For the public transport system, it means that vehicles depart on time and arrive at stops on schedule

Revenue - Income from transport pricing

Social Welfare – The total benefit that accrues to society as the result of a scheme or policy.

Spatial Equity Impact – The different impacts on equity across different spaces or areas.

Tag – Electronic identification unit that can be detected by remote sensors, used in transport for detecting a vehicle’s location together with the precise time of the detection primarily for RUC purposes.

Tag and Beacon – (see Tag)

Technology Roadmap – the forward looking technology plan for how a business will maintain and develop its technology (either across the business or in relation to a specific core application) to meet its ongoing and future needs.

Urban quality- The condition of the urban environment such as townscape and liveability.

Vertical equity – Concerned with the distribution of impacts by income and socio-economic characteristics.

Workplace Parking Levy – A scheme which attempts to address congestion generally applied to an area with a high concentration of businesses, where large numbers of employees are travelling to work in private vehicles.

FURTHER READING

This is the first draft further reading list where readers of this report can find more detailed information on the material covered in each of the chapters. Please provide comments and suggestions and how this list might be further expanded to a.koh@its.leeds.ac.uk

The United Kingdom's Department of Transport Guidance Documents on modelling of road pricing schemes <http://www.webtag.org.uk> This serves as further reading for **Chapter 3: Scheme Design**, **Chapter 6: Prediction** as well as **Chapter 7: Appraisal and Evaluation**

Other material which broadly cover the scope of the content of the other chapters in this report are given below:

Chapter 4: Technology

Pickford, A. and Blythe, P. (2006) *Road User Charging and Electronic Toll Collection*, London, Artech House

Chapter 5: Business Systems

Kalakota R, Robinson M (2000) *E-Business 2.0: Roadmap for Success*, Addison-Wesley

Further guidance on the functional overview for road pricing in UK cities can be found at <http://www.dft.gov.uk/pgr/roads/roadpricing/multitibuscase> . This was prepared by the UK Department for Transport for TIF authorities and was published in February 2007.

Chapter 6: Prediction

Ortuzar J., Willumsen L., (1998), *Modelling Transport*, Wiley: Chichester

Chapter 9: Environment

EEA (European Environment Agency) *Technical report 8/2005 - Market-based instruments for environmental policy in Europe*.
http://reports.eea.europa.eu/technical_report_2005_8/en/EEA_technical_report_8_2005.pdf

EEA (European Environment Agency), 2008:1, *Climate for a transport change. TERM 2007: indicators tracking transport and environment in the European Union*.
http://reports.eea.europa.eu/eea_report_2008_1/en/EEA_report_1_2008_TERM.PDF

OECD (Organisation for economic co-operation and development), 2008, *Environmental Outlook to 2030*.
http://www.oecd.org/document/20/0,3343,en_2649_37465_39676628_1_1_1_37465,00.html

Chapter 11: Acceptability

Schade, J. and Schlag, B. (Eds.) ,(2003) *Acceptability of transport pricing strategies*. Amsterdam, Oxford: Elsevier

Chapter 12: Transferability

Rose R., (2001). "Ten steps in learning lessons from abroad" Future Governance Lessons from *Comparative Public Policy Discussion Paper 1* Available at <http://www.hull.ac.uk/futgov/Papers/PubPapers/RRPaper1.pdf>, accessed April 2007

LIST OF ACRONYMS

PROJECT ACRONYMS

AFFORD – Acceptability of Fiscal and Financial measures and Organisational Requirements for Demand management

CIVITAS – City-VITALity-Sustainability

DANTE – Designs to Avoid the Need to Travel in Europe

CUPID - Coordinating Urban Pricing Integrated Demonstrations

DESIRE – DESigns for Inter urban Road pricing schemes In Europe

EUROTOLL- EUROpean project for TOLL effects and pricing strategies

EUROPRICE - EUROpean urban road pricing network

FATIMA - Financial Assistance for Transport Integration in Metropolitan Areas

HEATCO - developing Harmonised European Approaches for Transport COsting and project assessment

IMPRINT-EUROPE - Implementing Pricing Reform in Transport - Effective Use of Research on Pricing in Europe

METEOR - Monitoring and Evaluation of Transport and Energy Oriented Radical strategies for clean urban transport

OPTIMA - Optimisation of Policies for Transport Integration in Metropolitan Areas

REVENUE – REVENUE Use from Transport Pricing

PROGRESS – Pricing Road Use fOr Greater Responsibility, Efficiency and Sustainability in cities

SOFTWARE RELATED ACRONYMS

DELTA/START – Strategic Land Use Transportation Model by David Simmons Consultancy

EMME/2 – (Equilibre Multimodal, Multimodal Equilibrium) a traffic assignment software package developed at the Centre de Recherche sur les Transports at the University of Montreal, Canada

MARS - Metropolitan Activity Relocation Simulator

MEPLAN – Land Use and Transport Planning Tool developed by Marcial Echenique and Partners

SATURN – Simulation and Assignment of Traffic to Urban Road Networks (a traffic assignment package developed at the Institute for Transport Studies, University of Leeds, UK)

STM - Strategic Transport Model developed by Transport Research Laboratory in the UK

TEMMS- Traffic Emission Modelling and Mapping Suite, a suite of programs for modelling and mapping traffic emission from road networks in urban areas.

TRENEN - Models for TRansport ENvironment and ENergy

MISCELLANEOUS ACRONYMS

ANPR – Automatic Number Plate Recognition

CAPEX – Capital Expenditures

DSRC – Dedicated Short Range Communication

GALILEO – European Satellite Navigation System

GNSS – Gloal Navigation Satellite System

GPRS – General Packet Radio Service

GPS - Global Positioning System

GSM – Global System for Mobile Communications

KPI(s) – Key Performance Indicators

OBU - On Board Unit

OCR – Optical Character Recognition

UNAQ – the CURACAO User Needs Assessment Questionnaire

WebTAG – United Kingdom Department for Transport's Transport Analysis Guidance for England and Wales available on the internet (Web) at <http://www.webtag.org.uk>

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