

TONY PORTER

Independent Transport Planning Consultant

Professional Summary:

Tony Porter is a transport planner with over 20 years' consultancy experience, including public transport, highway and multi-modal studies. He is an expert modeller using a variety of specialist transport planning packages such as Emme, Cube/Trips and TransCAD. He has also built and worked with complex spreadsheet models and databases and has experience in project management and staff training.

He has been involved in a number of important strategic and multi-modal transport studies including the Tyneside Area Multi-Modal Study, the M4 Common Appraisal Framework Study and the Feasibility Study of Electronic Road Pricing in Hong Kong. He has provided technical advice on local public transport issues to the Department for Transport, including work developing the basis of the Department's "Detailed Guidance on Forecasting Models for Major Public Transport Schemes".

He has undertaken appraisals of major rail schemes including work in Beijing, Dublin, London, Croydon and Manchester. He has worked on studies of toll roads in Jordan, Montenegro, Poland, United Kingdom, United States and Vietnam. He is experienced at audit work, of both road and rail schemes, undertaken for both public and private sector clients.

Tony has significant experience of working outside the United Kingdom, including Australia, China, Hong Kong, Lebanon, Malaysia, the Philippines, Poland, Saudi Arabia and the USA.

He has undertaken work as a freelance transport consultant for Alan Stratford and Associates, Buro Happold, Dar Al-Handasah Consultants, Jacobs Consultancy, Ove Arup & Partners, Peter Brett Associates, Sinclair Knight Merz, and Steer Davies Gleave.

Papers:

"Forecasting of New Train Services for Heathrow Airport". Paper presented to 11th European EMME/2 Users Conference, Madrid, June 2002

Nationality:	British
Year of birth:	1965
Qualifications:	BSc (Hons) Transport with Statistics and Operational Research, Plymouth Polytechnic
Member:	Transport Planning Society
Languages:	English (native), Spanish (good)
Telephone:	+44 (0)20 8741 0644
Mobile:	+44 (0)7779 346288
Website:	www.portertony.co.uk
E-mail:	tony@portertony.co.uk

Employment History:

2003 to present	Tony Porter Consulting Limited Director
1997 to 2002	Ove Arup & Partners, London Senior Transport Planner
1991 to 1997	TecnEcon Limited, London, Sydney and Hong Kong Senior Consultant
1987 to 1991	The MVA Consultancy, London Transport Planner

Project Experience:***Independent Transport Consultant*****Muscat Area Traffic Study, Oman (Dar Al-Handasah Consultants)**

Currently working with Dar on this major multi-modal transport and traffic study, providing advice on strategic model development.

Carlisle Lake District Airport Review of Environmental Statement (Alan Stratford and Associates)

Reviewed the traffic and transport components of the Environmental Statement submitted for a proposed new freight distribution centre and upgraded airport infrastructure at Carlisle Lake District Airport.

KKIA Infrastructure Masterplan, Riyadh (Buro Happold)

Undertook model review and audit of Emme multi-modal strategic transport model. Assessed its fitness for purpose, suggested a series of enhancements and provided ongoing advice on how it could best be used to assess transport and traffic impacts for this very large scale development project in Riyadh, Saudi Arabia.

Fuhai New City (Buro Happold)

Designed and built multi-modal strategic Emme model from scratch to provide guidance on transport capacity issues for this new city planned in northern China.

Mid-Currituck Bridge Study (Ove Arup & Partners)

Provided technical advice on modelling and forecasting issues for this proposed new toll facility in North Carolina, including the specification of a toll choice model using stated preference willingness to pay data. Provided ongoing technical advice to the modelling team.

Amman Ring Road PPP Study (Dar Al-Handasah Consultants)

Enhancement of TransCAD traffic model for toll road modelling including derivation of revenue-maximising and recommended toll levels through an iterative procedure. Study undertaken for the International Finance Corporation, a member of the World Bank, in order to examine the viability of attracting private finance.

Public Transport Modelling Advice (Sinclair Knight Merz)

Provided advice on various public transport demand forecasting projects in London including use of TfL's Railplan model and the Docklands Public Transport Model.

Bar Boljare Toll Road Study (Ove Arup & Partners)

Developed toll road demand choice model using Cube Voyager in order to produce forecasts for this proposed new highway in Montenegro.

Makkah Traffic Study (Dar Al-Handasah Consultants)

Involved in model specification and development for a major multi-modal transport study of Makkah, specifically public transport elements and procedures for modelling park and ride in Emme.

Lagos Rapid Mass Transit Forecasts (Dar Al-Handasah Consultants)

Reviewed and audited previous demand forecast assumptions and methodology and produced new demand estimates for mass transit including extensions to the International Airport and Lagos Island.

Luanda Urban and Infrastructure Structural Plans (Dar Al-Handasah Consultants)

Developed strategic multi-modal transport model using Emme to estimate likely transport requirements taking account of the very large land use and demographic changes forecast as part of this major planning study.

Oakland Airport Connector Technical and Traffic Advisor (Ove Arup & Partners California)

Undertook audit of ridership forecasts for an automated transit system to connect Oakland Airport with the Bay Area Rapid Transit and provided an independent patronage estimate for a private client.

IH 635 Managed Lanes Project (Ove Arup & Partners California)

Developed a traffic model in Emme for this private finance project for an orbital highway in Dallas. Work included cordoning and extracting sub-area data from a regional TransCAD model, developing a multi-class assignment procedure, and the application of variable toll levels.

Olympic Park Transport Assessment (Ove Arup & Partners)

Developed strategic public transport model based upon Railplan for transport assessment of the main site for the London 2012 Olympics, incorporating demand from a variety of sources including Olympic spectator forecasts and new demand derived from local planning data for the Lower Lea Valley.

Dubai World Central Traffic Study (Dar Al-Handasah Consultants, Beirut)

Advised on modelling of public transport services for this proposed new city and airport project in Dubai. Reviewed and recommended sustainable transport measures which would be required for the successful implementation of the scheme.

Restructuring and Enhancement of CTS3 Model (Ove Arup & Partners Hong Kong)

Provided advice on the specification and construction of a fully multi-modal transport model of the complex Hong Kong transport system. Included implementation in EMME/2 of a hierarchical mode choice model, fares modelling and detailed public transport assignment procedures.

Docklands Light Railway London Olympics Demand Forecasting (Sinclair Knight Merz)

Produced a series of forecasts to predict additional traffic on the DLR as a result of the 2012 London Olympics. Included conversion of Railplan forecasts for the AM peak period to DPTM format, and estimates of the inter-peak and PM peak demand.

Croydon Tramlink Extension to Crystal Palace (Ove Arup & Partners)

Involved in specifying methodology for demand forecasts for this proposed extension, using an enhanced version of TfL's Railplan model, and ongoing supervision of the model development and forecasting work.

DLR Business Case (Sinclair Knight Merz)

Set up procedure to undertake a large number of DLR demand and revenue forecasts, for every year to 2016, including extension schemes. Analysed the incremental effects of each scheme for each year.

East Lancashire Model (Peter Brett Associates)

Provided assistance to PBA in their work for the East Lancs Partnership, including the conversion of the EMME/2 East Lancs Model to a new software platform and advice on model development and forecasting requirements for an Annexe E submission.

Reading Traffic Model (Peter Brett Associates)

Specified, developed and built mode choice model, as an enhancement of the existing Reading Traffic Model. This included model design, calibration and implementation in TRIPS.

Lower Don Valley Transport Strategy (Peter Brett Associates)

Developed a complex spreadsheet model to test major development proposals in the Lower Don Valley, and their impact on the local transport network under a range of strategic transport policies and schemes.

South Hampshire Rapid Transit (Steer Davies Gleave)

Undertook an internal audit of SDG's forecasts for SHRT including a review of data sources, model methodology and assumptions, and the construction and operation of their TRIPS forecasting model.

Croydon Tramlink Extensions Project (Steer Davies Gleave)

Provided advice to Steer Davies Gleave on demand and traffic forecasting requirements for this study for Transport for London, including a review of available data and tools and provision of a methodology statement, programme and resource plan for the Inception Phase of the project.

Docklands Public Transport Model Development (Sinclair Knight Merz)

Development of the EMME/2 based DPTM maintained by SKM for DLR. Included specification, construction and validation of a new AM peak model, including the implementation of a crowded assignment, and the development of a variable demand procedure for scheme testing.

New Tyne Crossing Forecasts (Ove Arup & Partners)

Undertook forecasts using a TRIPS highway model, for use in evidence to the New Tyne Crossing public inquiry. Included tests of different toll levels and their impact on the project's viability.

Ove Arup & Partners**PLANET Strategic Model Development (SRA)**

Work to develop a national strategic forecasting model using EMME/2 to be used to appraise the impacts of major rail schemes, including mode and route choice, and responses to crowding and fare levels.

Guidelines on Forecasting Model Assessment (Department for Transport)

Provided advice to the DfT on forecasting models for major public transport schemes. Reviewed existing guidelines, model software and structure, derivation of model parameters, growth forecasts, and generated traffic. Developed a set of guidelines to be used for assessments of light rail schemes.

Tyneside Area Multi-Modal Study (Government Office for the North East)

Responsible for model development work for this major study involving the construction of a multi-modal TRIPS transport model integrated with a land use model. This was used to test a wide range of policies affecting future travel demand and development issues.

M77/ GSO Road Project Due Diligence (Connect)

Advised Arranging Banks on forecasts for the M77/ Glasgow Southern Orbital DBFO Project. Reviewed assumptions and methodology and advised on validity and suitability for purpose.

Review of Luton-Dunstable Translink Major Scheme Appraisal (DTLR)

Advised the DTLR on the Translink proposal for a guided busway in Luton. Reviewed assumptions, model structure and forecasts, and the economic appraisal.

Heathrow New Train Services (SRA)

Project Manager for SRA study using PLANET to assess the impact of new train services to Heathrow Airport, in particular the benefits of these services to domestic rail passengers.

PLANET Modelling Panel (SRA)

Member of the SRA's PLANET Modelling Panel providing advice on the development and use of this EMME/2 based rail demand forecasting model.

Greater Dublin Suburban Rail Strategic Review (Iarnród Éireann)

Developed an EMME/2 model to forecast future rail demand on the Dublin suburban rail network under a range of scenarios. Implemented a congested rail assignment to model the effect of limited rail capacity on forecast demand levels.

Review of Midland Metro Extension (DETR)

Reviewed the economic appraisal of two Midland Metro extensions and provided advice to the DETR on patronage and revenue forecasts and cost benefit analysis.

Review of Bristol and South Gloucestershire Rapid Transit (DETR)

Provided technical advice to the DETR on the appraisal of this rapid transit scheme. Reviewed the forecasting approach, travel demand, growth assumptions and assessment of benefits.

A13 Thames Gateway DBFO Project (Connect)

Provided advice to the Arranging Banks on traffic forecasting issues for this DBFO project in East London, including the likelihood of road pricing and its effect on the scheme.

Assessment of the Funding Application for Manchester Metrolink (DETR)

Provided advice to the DETR on the funding application for 3 proposed Metrolink extensions. Reviewed forecasting approach, mode choice modelling, user and non-user benefits and economic appraisal. Presented findings to DETR and Treasury.

Impact of Thameslink 2000 on London (London Transport)

Study undertaken on secondment to London Transport. Work included analysing the impact of the Thameslink 2000 proposals on other rail services and LUL lines using LT's Railplan model.

M4 Common Appraisal Framework Study (Welsh Office)

Led the demand forecasting aspects of this study of alternative options for the M4 corridor in South Wales. Responsible for developing a multi-modal EMME/2 model to predict changes in travel behaviour under a wide range of scenarios and produce transport, economic and environmental indicators for assessment.

TecnEcon Limited**Feasibility Study of Electronic Road Pricing in Hong Kong (Transport Department)**

Developed a multi-modal EMME/2 based ERP Assessment Model capable of forecasting changes in journey time, car occupancy, mode shift to public transport, park and ride and trip suppression. Involved in stated preference survey design to establish travel behaviour in response to ERP.

Beijing Metro Line 3 (Private Client)

Produced patronage forecasts for proposed new metro line from central Beijing to the Capital Airport. Included a review of the Beijing TRIPS model and an assessment of trips generated by new development.

A4/A12 Motorway Traffic Study, Poland (Motorways Agency)

Designed and implemented a stated preference survey to establish values of time for car drivers and HGVs. Assessed the impact of tolls on motorway traffic forecasts using an EMME/2 multi-class assignment model.

Bai Chay Bridge Feasibility Study, Vietnam (Overseas Development Agency)

Used TRIPS assignment model to assess local and long distance trips using proposed bridge. Undertook economic and financial analyses based on local values of time, vehicle operating costs and proposed tolls.

Border Crossing Preliminary Assessment, Hong Kong (Private Client)

Provided preliminary demand forecasts for a private developer. Included a review of existing forecasts and a pilot survey of potential demand, including an assessment of price sensitivity.

Manila Inland Container Depot Feasibility Study (Private Client)

Study of operating a warehousing and logistics service as a private sector venture including an assessment of existing transport infrastructure, demand forecasts and a financial assessment of the proposed scheme.

Implementation of Bus Priority Measures in Kuala Lumpur City, Malaysia

Study to review and evaluate a range of bus priority measures including interface with the LRT scheme. Work included data specification and analysis, problem identification and liaison.

Dinding Bridge Feasibility Study, Malaysia (Ministry of Public Works)

Feasibility study for a road bridge in Malaysia. Included the development of a traffic model using EMME/2. Produced forecast traffic flows including traffic generated by substantial new developments.

M4 Model Enhancement (Motorway Widening Unit)

Constructed a SATURN simulation model to represent the area between Junction 4 of the M4 at Heathrow Airport to Junction 8(9) at Maidenhead.

DLR Lewisham Extension: Revenue Forecasts and Toll Levels (LDDC)

Produced revenue forecasts for the proposed extension of the DLR to Lewisham using the Docklands Public Transport Model. Examined scope for additional tolls to capture the value to travellers of a new river crossing and forecast an optimum toll level to maximise revenue.

M11 Stansted Airport Slip Roads Study (Highways Agency)

Undertook traffic and economic assessments of various slip road options linking the Airport to the M11 using a CONTRAM model. Produced traffic forecasts incorporating predicted airport use.

Woolwich Rail Crossing Study (London Transport)

Feasibility study of a new rail crossing between the Royal Docks and Woolwich. Reviewed land use projections, predicted likely changes in trip generation and distribution, examined a range of rail crossing options and assessed each option for its economic and financial viability.

Docklands Public Transport Model Calibration (LDDC)

Created a validated model using EMME/2 to represent public transport travel demand within the London Docklands development area.

South London Model Development (London Transport)

Seconded to London Transport to undertake development of LT's Railplan model based using EMME/2. Scenarios were validated against observed data and LTS forecasts.

M4 Widening (Motorway Widening Unit)

Responsible for developing a highway model using TRIPS covering the 45 km long corridor to evaluate a range of options for improving the M4.

The MVA Consultancy

East London Line Extension (London Transport)

Tested a number of options for the proposed extensions to the East London Line. Produced patronage and revenue forecasts and used these as input for a full financial and economic appraisal of each scheme.

Croydon Light Rail Study (London Transport)

Forecast demand for Croydon Light Rail and appraised schemes against a range of engineering, operational and environmental factors, including an assessment of non-user benefits.

Dutch Rail Patronage Forecasts (Nederlandse Spoorwegen)

Developed a model to forecast changes in rail patronage expected as a result of introducing electronic road pricing.

Rail Patronage Forecasts and Rolling Stock Needs (Centro)

Project Manager for study to forecast patronage growth on the West Midlands rail network. Results were used to support a grant application for rolling stock improvements.

Dutch Air Leisure Travel Forecasts (Netherlands Civil Aviation Authority)

Analysed a large air travel database for trends in travel behaviour associated with differing household characteristics. Examined evidence for saturation levels in forecasting the growth in air leisure trips.

Spalding to Peterborough Electrification Feasibility Study (South Holland District Council)

Analyst for this study of the feasibility of electrifying the railway link and the potential for introducing a through commuter service to London.

Greater Manchester LRT Extensions Priority Study (GMPTE)

Large-scale study to rank a number of potential extensions to Phase I of the Greater Manchester Light Rail network. Included network building and analysis, trip assignment and demand forecasting using TRIPS.