



Jim Duggan

Independent Transportation Consultant
Director: JMDCON Ltd.
Established 1996

Personal Information

Nationality: British
Age: 52

Qualifications

MSc Transport Planning and Management (1994), Westminster University, UK

BA (Hons.) 2(i) Geography (1990), Leeds University, UK

Professional Associations

Chartered Institution of Highways & Transportation (MCIHT)
Chartered Institute of Logistics and Transport (MCIILT)

Contact Details

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Major Clients

World Bank
Asian Development Bank
Arup
WSP/Parsons Brinkerhoff
Jacobs/CH2M/Halcrow
Dar Al Handesah
AECOM/Oscar Faber
PADECO
Buro Happold

Major Projects

London 2012 Olympics, UK
Pathways to Low-Carbon Transport, PRC
Middle East Regional Study, Various
Stansted Airport expansion, UK
M-1 Toll Road, Russia
MSPb Toll Road, Russia
CKAD Toll Road, Russia
Dubai World City, UAE
Bangkok Elevated Rail, Thailand
Indus Highway Study, Pakistan

Locations

UK & Ireland
European Union
PR China
Russia, Uzbekistan, Tajikistan
Egypt, Jordan, Lebanon, Nigeria
India/Pakistan/Nepal
Thailand/Vietnam/Myanmar
UAE/Saudi Arabia/Kuwait/Qatar

Consultant Summary

I am a senior independent transportation planning consultant with over 25 years experience.

I have worked for a variety of private and public sector clients throughout the world and am able to perform a wide variety of both technical and project management tasks within the transportation planning field

My career speciality relates to demand forecasting and transportation model development, and I am an internationally renowned expert using the SATURN software within this field.

I have a keen interest in sustainability within transportation and urban planning, and have been privileged to be involved in a number of master plans enabling best practice to be incorporated in both new city and urban renewal projects throughout the world.

Specialism Summary

Transportation Planning
Demand Forecasting
Highways and Toll Roads modelling
Public Transport modelling
Transportation Mode Choice analysis
Bespoke Spreadsheet modelling
Transportation Master Plans
Sustainable Transportation strategies
Public Transportation strategies
Active Transportation strategies
Traffic Demand Management (TDM)
Transit Oriented Development plans
Low Carbon Strategies
Avoid-Shift-Improve strategies
Transportation & Climate Change strategies
Monitoring and Evaluation Framework
Urban Planning
Transportation Integration
Feasibility Studies
Financial Appraisal
Economic Appraisal/TUBA
Cost Benefit Analysis
Transportation Surveys

Project Experience

JMDCON Ltd 1996 -

Project: TA-6762 NEP: Master Plan for Road Connectivity

Client: Asian Development Bank
Period: Apr22 –
Transportation Specialist responsible for the development of a multi-modal transportation model to support the overall the planning and programming of transport sector investments in Nepal.

Project: EWR Central Section Strategic Highway Model, UK

Client: Arup/Department of Transport UK
Period: Jan21 –
Development of a bespoke highway transportation model (SATURN) within South East England to support the development of an upgraded multi modal corridor

Project: Preparing Integrated Solutions for Liveable Cities, Georgia

Client: Asian Development Bank
Period: May20 – covid-19 suspended
Project lead in the feasibility study urban transport subproject and cost estimates.

Project: Tbilisi Sustainable Urban Mobility Plan, Georgia

Client: Asian Development Bank
Period: Jan20 – Jul 20
The role within the preparation of the overall Sustainable Urban Mobility Plan involved the development of a monitoring and evaluation framework in relation to the SUMP action plan to assess both outcomes and indicators of performance.

Project: Transportation Master Plan for Qatar.

Client: Worley Parsons/MoTC
Period: Apr 19 – Nov 19
Varied role as senior transportation planner to prepare policies and strategies for a sustainable urban multi-modal master plan based upon international best practice



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Project: Strengthening Capacity for Urban Planning, Urban Design, and Investment Planning (Nepal).

Client: Asian Development Bank

Period: Jan 19 – Mar 20

Assessment of transportation requirements for economic corridor, and development of SWOT and transportation intervention strategy.

Project: Comprehensive Hub-Oriented Transportation Strategy for Urumqi Metropolitan Area (PRC).

Client: Asian Development Bank

Period: Jun 18 – Mar 19

Identification and prioritization of hub locations for their potential for transit-oriented development to maximize inter-city linkages, and incorporating this into the development of an overall strategy and policy recommendations for public transport and road network development, along with identifying monitoring and evaluation indicators.

Project: Greater Mekong Subregion Corridor Development Project (Myanmar).

Client: Asian Development Bank

Period: Jan 18 – Aug 18

Development traffic demand and revenue forecasts for the provision of a strategic highway corridor (SATURN). The preparation of sensitivity tests and support for economic, financial and climate change strategies.

Project: Railway Efficiency Improvement Project (Uzbekistan).

Client: Asian Development Bank

Period: Nov 17 – Jan 18

Role as ADB Transport economist including: The construction of traffic forecasts and developing demand analysis; Reviewing macroeconomic and sector contexts; Identifying and comparing project costs and benefits, including additional environmental benefits and project sustainability; and Conducting sensitivity and risk analysis, and Identifying indicators for project performance monitoring.

Project: Ho Chi Minh City Ring Road Project (Vietnam)

Client: Asian Development Bank

Period: Feb 17 – Oct 17

Development traffic demand and revenue forecasts for the provision of a new ring road. (SATURN/Cube). The preparation of

sensitivity tests and support for economic, financial and climate change strategies.

Project: Kathmandu Sustainable Urban Transportation Project, Mass Transit Options and Prioritisation Study (Nepal)

Client: Asian Development Bank

Period: Jan 17 – Mar 17

Review of existing spreadsheet model and development passenger ridership forecasts for the mass transit options, including the development of a sophisticated mode choice to assess the potential impact of new transportation modes.

Project: Ibadan and Epe Masterplans, (Nigeria)

Client: Dar Al Handesah

Period: Nov 16 – Jan 17

The development of traffic demand and revenue forecasting models (SATURN) to support master plan development for Nigerian cities, including support for economic, financial and climate change strategies.

Project: TA-8914 PAK: Preparing the Pakistan CAREC Corridor Investment Program (Pakistan)

Client: Asian Development Bank

Period: Jun 16 – Dec 16 (Intermittent)

Project to enhance regional connectivity and trade via the Central Asia Regional Economic Cooperation (CAREC) Corridors in Pakistan by improving the efficiency of road traffic.

The feasibility assessment involved the development of a regional traffic model and with traffic demand forecasting, economic appraisal and usage of SATURN/HDM4 software. The role also involved the preparation of a full ADB country sector assessment.

Project: Developing LB Barnet Transportation Vision

Client: London Borough of Barnet

Period: Mar 16 – Aug 16

The role required the development of a sustainable transportation strategy using ASI strategies and mitigation of climate change impacts.

Project: TA-8775 PRC: Developing Pathways to Low-Carbon Transport (Ningxia, China)

Client: Asian Development Bank

Period: Jan 16 – Dec 16 (Intermittent)

The project objective was to assist the Government of the Ningxia Hui Autonomous Region in developing a low-carbon transport policy. The Urban Planning role collated information from the planning system and employed the avoid–shift–improve (ASI) paradigm to propose effective inputs into the overall transport planning strategy and an investment plan for BRT.

Project: CKAD Toll road (Russia)

Client: LLC KMC TRANSPROEKT

Period: Aug 15 – Nov 15

Additional traffic demand and financial forecasts for a Toll Road in Russia using previously developed SATURN traffic model.

Project: M-4 motorway, Pakistan

Client: Asian Development Bank

Period: Mar 15 – Jul 15

Development of a highway demand and revenue forecasting model for a new tolled highway.

Project: Axminster Traffic Model, UK

Client: Hydrock Ltd

Period: Jan 15 – Mar 15

Development of a new Traffic model using SATURN to assess housing development proposals in sustainability context.

Project: Shrewsbury Traffic Model, UK

Client: Mouchel

Period: Jul 14 – Dec 14

Development of a new Traffic model for a large town using SATURN to assess a range of sustainable transportation infrastructure proposals to encourage modal shift.

Project: CKAD Toll road (Russia)

Client: LLC KMC TRANSPROEKT

Period: Mar 14 – Jun 14

Production of updated traffic and revenue forecasts for Moscow-St Petersburg Toll Road. (SATURN)

Project: MSPb Toll road (Russia)

Client: LLC KMC TRANSPROEKT

Period: Nov 13 – Mar 14

Production of updated traffic and revenue forecasts for the Moscow orbital motorway Toll Road. (SATURN)

Project: Oxon Link, Shrewsbury, UK

Client: Mouchel

Period: Oct 13 – Nov 13

Review of existing spreadsheet model and development proposals to produce updated Traffic and Economic Forecasts (TUBA)



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Project: Bihar State Master plan, India

Client: Asian Development Bank
Period: Aug 13 – May 14
Development of a strategic highway master plan to connect rural population centres with the national highway for social inclusivity, safety and sustainability objectives. The master plan included a problem statement, long-term visions, medium-term objectives and an immediate action program, within a monitoring and evaluation framework.

Project: King Abdullah City for Atomic and Renewable Energy (Saudi Arabia)

Client: Buro Happold
Period: Feb 13 – May 13
Demand forecasting using activity based modelling and option testing using a VISUM Multi-Modal Model for a sustainable/low carbon transportation master plan.

Project: M1 Toll road model (Russia)

Client: LLC KMC TRANSPROEKT
Period: Feb 13 – Jun 13
Toll Road traffic and financial demand optimisation using SATURN

Project: Sabah Al Ahmed (Saudi Arabia)

Client: Buro Happold
Period: Jan 13 – Feb 13
Demand forecasting using activity based modelling and option testing using a VISUM Multi-Modal Model for a sustainable/low carbon transportation master plan.

Project: King Abdullah Economic City (Saudi Arabia)

Client: Buro Happold
Period: Oct 12 – Dec 12
Demand forecasting using activity based modelling and option testing using a VISUM Multi-Modal Model for a sustainable/low carbon transportation master plan.

Project: Liverpool Permit Scheme

Client: Swift Argent
Period: Jul 12 – Sep 12
Development of a Cost Benefit Analysis spreadsheet model for the Liverpool Single Permit Scheme.

Project: Chard Traffic Model

Client: Key Transport Consultants
Period: Feb 12 – Jun 12
SATURN Traffic model review and client assistance on development proposal

Project: MSPb Toll road (Russia)

Client: LLC KMC TRANSPROEKT
Period: Dec 11 – May 12

Demand forecasting/option testing of Toll Road model and presentation of revenue forecasts in SATURN

Project: Ruwais Transport Impact assessment (Saudi Arabia)

Client: Buro Happold
Period: Oct 11 – May 12
Development of a multi modal model in VISUM for a sustainable/low carbon transportation master plan.

Project: M1 Toll road model (Russia)

Client: LLC KMC TRANSPROEKT
Period: Aug 10 – Oct 11
Development of SATURN traffic model for analysis of Toll Road options and presentation of revenue forecasts. Large scale project involved:

- commissioning and analysis of traffic survey data including willingness to pay information
- development, calibration and validation of highway traffic model in SATURN from first principles
- preparation of traffic and financial forecasts over the project horizon
- Option testing to determine optimum tolling strategies and tariff policy

Project: M1 Junction 28-31 model

Client: Arup Transportation
Period: Mar 10 – Jun 10
Consultation role in the development, validation and option testing of a highway model in SATURN

Project: London 2012 Olympic Transportation model

Client: Arup Transportation
Period: Dec 09 – Feb 10
Demand forecasting/option testing a SATURN highway model

Project: Haven Gateway Multi Modal Model

Client: Mouchel
Period: Jan 09 – Dec 09
Development, validation and option testing of a multi-modal model in CUBE/SATURN to support sustainable transport plan.

Project: Vauxhall/Nine Elms OAPF

Client: Sinclair Knight Merz

Period: May 08 – Jan 09
Development, validation and option testing of a SATURN highway model to support new large scale development in London.

Project: Airtrack Traffic Model

Client: Pell Frischmann
Period: Mar 08 – Aug 08
A preliminary traffic and transport assessment of the development of land west of Bracknell. This included the integration with the proposed Airtrack, comprising a new rail service for access to/from Heathrow's Terminal 5, Waterloo, Reading and Guilford.

Project: Sunderland Central Route Traffic Model

Client: Arup Transportation
Period: Feb 08 – Mar 08
Re-validation and option testing of a highway model in CUBE

Project: Tees Valley Traffic Model

Client: Arup Transportation
Period: Dec 07 – Jan 08
Option testing of a multi-modal model in CUBE

Project: Thames Gateway SERT study

Client: Mouchel
Period: Sept 07 – Dec 07
Option testing of a multi-modal model in OmniTRANS

Project: Jeddah Interim Transport Model, (Saudi Arabia)

Client: Buro Happold
Period: May 07 – Jan 08
Development and validation of a regional SATURN highway model for Jeddah, Saudi Arabia

Project: Kuwait City Traffic Model (Kuwait)

Client: Parsons Brinckerhoff
Period: Apr 07 – May 07
Preparation of report on transport modelling software options for the Kuwait Transport Model and presentation to client

Project: Jeddah Transport Model Review, (Saudi Arabia)

Client: Buro Happold
Period: Dec 06 – Mar 07
Audit of existing model including report presentation to client



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Project: London 2012 Olympic Transportation model

Client: Arup Transportation
Period: Jul 06 – Dec 06

Lead modeller for the development of a strategic highway assessment model as part of the revised planning application transport assessment for the Olympic Park and Legacy. Responsible for the development, validation and option testing of a SATURN highway model and interfacing into the wider transport assessment, client and stakeholder team.

Project Dubai World City Model, (United Arab Emirates)

Client: Dar Al Handasah
Period: Feb 06 – Jul 06

Demand forecasting using activity based modelling and option testing using a VISUM Multi-Modal Model

Project: Stansted Regional Transport Model

Client: Halcrow
Period: Aug 04 – Jan 06

Development, validation and option testing of a regional SATURN highway model

Project: Brighton Transport Model

Client: Halcrow
Period: Jan 04 – Jul 04

Re-validation and option testing of a SATURN/CUBE Multi Modal Model

Project: Dublin Transport Model

Client: Halcrow
Period: Aug 03 – Dec 03

Option testing the Dublin Transport Model

Project: Weymouth Public Transport Model

Client: Dorset County Council
Period: Oct 02 – Aug 03

Development, validation and option testing of a SATURN/CUBE Multi Modal Model

Project: A47 Multi Modal Study

Client: Atkins
Period: Aug 02 – Oct 02

Re-validation and option testing of a SATURN highway model

Project: Bath Multi Modal Study

Client: Bath & North East Somerset County Council

Period: Jul 02 - Aug 02

Audit of B&NES transport strategy

Project: Avon Ring Road Traffic Appraisal

Client: Bath & North East Somerset County Council

Period: May 02 - Jun 02

Development of a spreadsheet model of Avon Ring Road financial and economic performance

Project: Keynsham Traffic Model

Client: Bath & North East Somerset County Council

Period: Apr 02 - May 02

Audit of SATURN Traffic Model

Project: Lowestoft Traffic Model

Client: Oscar Faber/AECOM

Period: Nov 01 - Mar 02

Development, validation and option testing of a SATURN highway model

Project: Cambridge to Huntington Multi Modal Study (CHUMMS)

Client: Oscar Faber/AECOM

Period: Apr 01 - Oct 01

Re-validation and option testing of a SATURN/EMME Multi Modal Model

Project: Broadmead shopping centre development, Bristol

Client: Symonds Group

Period: Feb 01 - Apr 01

Development of a parking demand spreadsheet model

Project: PLANET Model

Client: Jacobs Consulting

Period: Jan 01 - Feb 01

Rail demand forecasting using the EMME/2 PLANET model

Project: Portishead traffic model

Client: Scott Wilson

Period: Sep 00 – Jan 01

Re-validation and option testing of a SATURN/EMME Multi Modal Model

Project: Tyne and Wear Multi Modal Study

Client: Arup Transportation

Period: Jun 00 – Aug 00

Preparation of demand matrices from RSI/PT surveys

Project: Arsenal Stadium

Client: Pell Frischmann

Period: Jan 00 – Jun 00

Production of a Green Travel plan and Transport Impact Assessment

Project: Tyne and Wear Transportation Study

Client: Arup Transportation

Period: Dec 99 - Jan 00

Collation of Public Transport information into a service database.

Project: Dublin Bus Appraisal

Client: Scott Wilson

Period: Oct 99 - Dec 99

Development of 'Quality Bus Corridors' and other bus strategies including location of central interchange.

Project: A36/A46 Corridor Study

Client: Bath & North East Somerset County Council

Period: Aug 99 - Sept 99

Development of a spreadsheet model of Avon Ring Road financial and economic performance

Project: West Wiltshire Multi Modal PFI scheme model

Client: Wiltshire County Council

Period: Jul 98 - Oct 99

Development, validation and option testing of a multi-modal SATURN/SATCHMO model Planning and supervision of Highway and Public Transport Surveys

Project: Walton Bridge TPP Study

Client: Surrey County Council

Period: Jun 98 - Jul 98

Analysis of traffic patterns after the closure of Walton bridge and its impact on the local area.

Project: Appraisal of Cascais/Azembuja Rail services, (Portugal)

Client: Transport Consultants International

Period: Apr 98 - May 98

Preparation of SP surveys and development of a spreadsheet demand model

Project: Channel Tunnel opening impact assessment

Client: Kent County Council

Period: Feb 98 - Mar 98

Comparison of traffic flow on the M2 and M20 before and after the opening of the Channel Tunnel to assess changes in both volume and traffic composition

Project: Bracknell Traffic model

Client: Peter Brett Associates

Period: Dec 97 - Jan 98

Audit and re-validation SATURN highway model



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Project: Colnbrook rail depot assessment

Client: Peter Brett Associates

Period: Nov 97 - Dec 97

Development of a spreadsheet model of the economic benefits of a rail depot

Project: BERTS Study (Thailand)

Client: Arup Transportation

Period: Aug 97 - Oct 97

Auditing and option testing (EMME) multi-model transportation model of the Bangkok urban region

**Project: Middle East Regional
Transportation model (Jordan)**

Period: Oct 96 – Aug 97

Client: Sir Frederick Snow Ltd

Calibration and Validation of a Multi-Modal model (EMME) and preparation of Working Papers on specific aspects of the model

Consultant at MVA Consultancy

Period: 1995/1996

Project: Thames Trains demand forecasting model

Project: Scotrail demand forecasting model

Project: West Coast Mainline demand forecasting model.

Project: London Transportation Study

Consultant at Steer Davies Gleave

Period: 1994/1995

Project: Manchester Metrolink Airport Extension (SATURN)

Project: Merseyside Public Transport Study (SATURN)

Project: Dorking Movement Study.

**Trainee Chartered Accountant at Saffery
Champness**

Period: 1991/1993

Preparation & Auditing of financial information.

Passed Graduate Conversion Course in Accountancy and Business