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# Don Wignall

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**PROFESSION:** **Transport Consultant**

**QUALIFICATIONS:** **Master of Science**; Transportation and Traffic Planning; University of Birmingham (UK)  
*Member Chartered Institute of Logistics and Transport*  
**Master of Civic Design**; Town Planning; University of Liverpool (UK)  
*Member of the Royal Town Planning Institute*

## Experience Summary

Senior consultancy roles for government ministries, national agencies, regional organisations, territorial authorities, transport operators and consultants on a range of project types, including.

- Transport studies and proposal development
- Economic, environmental and social evaluation.
- Modelling and analysis.
- Policy review and strategy development.
- Programming and funding analysis
- Expert witness.

## 2003 – Date: Independent Transport Consultant (New Zealand)

### Transport studies and proposal development

- Expressway transport consultant, reviewing the four Wellington Roads of National Significance (RoNS) Projects through Kapiti District (KCDC 2010-13)
- Preparation of scheme assessment report (SAR) for the Kapiti Road / Milne /Te Roto intersection upgrade including economic analysis and funding application (KCDC, 2012)
- Road Maintenance Task Force, survey of maintenance organisations, analysis and reporting (NZTA 2011/12)
- Consultancy panel membership (Wellington City Council 2011/13)
- Post Implementation Review of the Northern Busway (NZTA, 2011/12)
- Reviews of major investment packages, including: Ngauranga to Airport Corridor, Auckland Road Pricing Evaluation, Auckland Eastern Corridor, Mount Roskill SH20, Wellington Inner City Bypass (Land Transport NZ, 2004-2008)
- Review of innovative non-network policy options for the Auckland Regional Land Transport Strategy (ARC 2008)
- Detailed involvement with a variety of regional land transport strategies, and the development and selection of strategic options, including: public transport, travel demand management and highway network improvements (Land Transport NZ, 2003-2009)
- Peer review of Regional Public Transport Plan Guidelines (Land Transport NZ/NZTA, 2007/8)
- Review of Auckland Regional Land Transport Strategy forecast and targets - including freight, public transport, other modes, safety and emissions – up to 2040 (Auckland Regional Council, 2008)
- Review of regional commuter bus potential for major strategic corridor (bus operator, 2008)
- Review of national / regional rail network development potential (rail operator, 2008)
- Review of rural travel demand management potential (Northland RC, 2006)
- Joint facilitator/director of Horizons Regional Land Transport Strategy review (Horizons RC, 2005/6)
- Detailed participation in the Auckland Regional Land Transport Strategy review process, involving detailed involvement on the ARLTS Technical Advisory Committee, covering topics such as, travel demand management, public transport, highways, safety and funding (Transfund / Land Transport NZ, 2004/5)

- Leadership of assessment and technical review of six major projects suspended from the 2003/4 national programme applying the policy context of the new allocation process (Transfund, 2003)

#### Economic, environmental and social evaluation

- Research into the implications of road investments (NZTA, 2009-12)
- Scoping study for the review of public transport economic evaluation procedures (NZTA, 2012)
- Inputs to social severance research (KCDC/NZTA, 2012)
- Post implementation review of the Auckland Northern Busway (NZTA, 2012)
- Research into public transport option values (NZTA, 2010-12)
- Research into regional transport targets (NZTA/MoT, 2008/9)
- Peer review of research proposals on: integrated land use and transport planning, development of a bus policy model, public transport elasticities, economic evaluation of public transport services (NZTA, 2008-13)
- Evaluation of regional rail service feasibility including economic evaluation (Kiwirail/NZTA/Environment Waikato RC, Horizons RC, 2007- 2012)
- Evaluation of the impact of alternative road networks on traffic flow and the viability of the planned Takanini centre (Papakura DC, 2006-9)
- Examination of potential for the application of strategic environmental assessment to NZ (Transfund / Land Transport NZ, 2006)
- Evaluation of Wellington RLTS development (Land Transport NZ, 2007)
- Peer reviewer for Sustainable Transport Plan (ARTA, 2006)
- Regionalisation of national government policy statement (GPS) transport targets (for NZTA, 2008)
- Land use and transport integration research project (Land Transport NZ/NZTA, 2007)
- Joint designer and facilitator for workshops to develop working definitions and applications of sustainability (Land Transport NZ, 2007)
- Evaluator for various research proposals (Transfund/Land Transport NZ, 2004-6)

#### Modelling and analysis

- Modelling review of the impact of the proposed 'Road of National Significance' through Kapiti District (KCDC, 2010-13) involving testing alternative networks and demand matrices for negotiation and preparation of evidence for Board of Inquiry purposes. Operation and interrogation of SATURN models for the MtPP, PPTO and TG Wellington RoNS sub-projects.
- Development of modelling techniques for public transport economic evaluation (Kiwirail/NZTA 2007- 2013)
- Development and application of local network and junction models, SPARAMICS, SIDRA, TRANSYT and LINSIG (KCDC 2010-2013)
- Development and application of elasticity based multi-modal **Strategy Review Model** (LTNZ/NZTA, MoT and ARC 2007-2009) and associated web based SRM Communications Model [http://www.transportfutures.net/CommunicationsModelDemo V 1.html](http://www.transportfutures.net/CommunicationsModelDemo_V_1.html) (NZTA, 2008-13)
- Assessment of major modelling proposals, including Auckland ATM2, Christchurch CTM, Waikato, North Shore, Rodney, Bay of Plenty and associated reviews of modelling/forecasting techniques (Land Transport NZ, 2005-10)
- SATURN model interrogation for Takanini Structure Plan Review, TRANSYT/LINSIG analysis, Urban Form Study in support of land transport programme investigations and funding applications (Papakura DC, 2006-9)
- Development of predictive techniques for strategy and package assessment (Land Transport NZ, 2007)
- Scoping study for the development of a national assessment and modelling capability (Land Transport NZ, 2006/7)

#### Policy review and strategy development

- Research, on the implications of road Investment, option values, public transport evaluation procedures, land use and transport integration (for NZTA 2006-2012)
- Review of NZ PT evaluation procedures, involving literature review, analysis, reporting and presentation of results (for NZTA 2012).
- Review of potential for efficiencies in current road maintenance practice, involving analysis, interpretation and reporting of a nation-wide survey of maintenance organisations (NZTA and Road Maintenance Task Force 2011/12).

- Advisor and peer reviewer for the Bay of Plenty 'Transport Futures Study' (2009/10)
- Auckland Road Pricing Study representative (LTNZ, 2007/8)
- Research on rail network planning (for Toll/KiwiRail 2006-2011).
- Consultant to the Implementation of the New Zealand Transport Strategy Project, including the development of forecasting and scenario testing capabilities (Ministry of Transport, 2007/9)
- National review of Land Transport Programmes to assess performance against LTMA requirements and authorship of document "Towards better practice in land transport programmes" (Land Transport NZ, 2007)
- Transport Sector Strategic Directions: Integrated Approach to Planning project, researching multi-modal and inter-modal transport integration and land use integration with transport. Literature review and associated analysis (Transit/Ministry of Transport, Ministry for the Environment, 2006)
- Development of national guidelines for the preparation of Regional Land Transport Strategies within the new national policy context (Land Transport NZ, 2005)
- Design of assessment, prioritisation and decision making methodology used for the development of the National Land Transport Programme (Transfund, 2004)
- Waikato Joint Officer Group technical representative (MoT 2006)
- National Land Transport Strategy review and development (MoT 2007-9)
- Review of road costs (Ministerial Advisory Group 2006)
- Funding allocation policy review and development (NZTA and predecessors 2003/7)
- Review of major NZ transport models, application of regional and national models test alternative policy initiatives (MoT and NZTA 2007/11)

#### Programming and funding analysis

- Stocktake of national funding allocation process (TRL/Land Transport NZ, 2008)
- Regional Land Transport Programme guidelines (NZTA, 2008)
- Review of state highway costs (Ministerial Advisory Group, 2006)
- Identification of examples of good practice and to further develop potential 'packages' of measures to optimise investments (Transfund, 2004/5)
- Leadership of project, to revise the national funding allocation process (TAP) on a multi-modal basis, to comply with the Land Transport Management Act, involving the design of new six stage process, namely; formulation, assessment, prioritisation, programming, approval and monitoring (Transfund 2003)

#### Expert witness

- Transmission Gully Motorway, Board of Inquiry <http://www.epa.govt.nz/Publications/Submitter%2023%20Evidence%20-%20Road%20design%20and%20Local%20resilience%20-%202021%20Dec%202011.pdf> (2011/12)
- Bunnings warehouse development, Hearing (2012) traffic and transportation evidence.
- MtPP Expressway, Board of Inquiry <http://www.kapiticoast.govt.nz/Documents/Downloads/Expressway/Submissions/Evidence/Traffic-evidence.pdf> (2012/13)
- Paraparamu Town Centre (PC72A), Hearing (2013 forthcoming) traffic and transportation evidence.

### **1996-Date: Transportation Planning Partnership, Partner (UK)**

- Assessment of a number of corridor, route management and multi-modal studies throughout the UK. The work on route management strategies for the Highways Agency included the preparation of corridor specific policies on land use and development planning, to strike a balance between the strategic role of the route and regional economic development needs/aspirations.
- Review and design of 'integral' demand management proposals for South and West Yorkshire Multi-modal Study and detailed interaction with several multi-modal studies (including SWARMMS, JETS, HUMMS and SWYMMS) and their implications for regional highway network planning.
- Transportation team leader for the first route management strategy undertaken in the UK, the 200km Liverpool to Hull (M62). Including multi-modal considerations, traffic analysis using a purpose designed operational model, future traffic growth projections, strategic safety assessments and the testing of alternative strategies and options. Important elements of the project included the development of route performance indicators and extensive public consultation.

- Transportation team leader for major corridor transport assessments, including; M6 (Warrington to Scottish Border); M1 (Chesterfield to Leeds); A64 (A1 to Scarborough); A30/A31/A35 (Southampton to Exeter), A46 (Leicester to Lincoln), M60 Greater Manchester, A556 (M6–M56 Link). Issues reviewed during the work included a number of new or inherited improvement proposals and development of strategic safety, reliability, delay, level of service assessment techniques for the Highways Agency.
- Transportation team leader responsible studies of a number of urban regeneration and economic development projects for local authorities.
- Public transport planning for; bus networks, guided bus systems, light rail, other rapid transit systems, heavy rail and people mover systems, including advice, research and representation for private and public sector clients (e.g. research into light rail and road traffic interaction to model joint street running potential for GMPTe).
- Representation of clients and presentations at meetings, public consultation, planning appeals, Transport and Works Act inquiries, local plan inquiries. Design of consultation material, expert witness statements and evidence.

### **1988 – 1996: Allott Transportation (UK) Technical Director**

- Regional transportation research study, involving analytical and consultative work and encompassing road, rail, sea and air modes. Future infrastructure investment to assist economic development was proposed and approved by the client group as a result of this project.
- Regional economic growth study: a review of linkages between transport investment and economic performance: Greater Manchester (AGMA).
- Technical Director responsible for traffic modelling and assessment work for several major highway schemes in the North West and Midlands.
- Three year Highways Agency/Department of Transport NNMD regional traffic term commission, extending throughout the North of England (Midlands to Scottish Border) reviewing the traffic impact of major planning and development proposals on the trunk road and motorway network.
- Project Manager of four year engineering term commission for Merseyside Development Corporation. Work included: transportation and modelling studies in support of an area development framework, involving multi-modal analysis of development, regeneration, economic investment and urban design proposals.
- Airport Access Study: review of Manchester Airport access proposals for the development of the Second Runway (on behalf of Trafford Metropolitan Borough Council)
- Freight Studies; including technical direction of: Trafford Park Intermodal Terminal study (road and rail) and Ferrybridge Power Station Study (involving consideration of road, rail, canal and pipeline modes for materials delivery)
- Ministry of Defence Studies, in the UK and Germany.

### **1986 – 1988: City of Birmingham (UK) Transportation Policy Team Leader**

Review of transport policy affecting Birmingham, the theme of the work was directing transport expenditure towards wider regeneration, economic development, environmental and urban design objectives.

### **1978 – 1986: Merseyside County Council (UK) Principal Officer**

Responsible for developing strategic aspects of the regional transportation policies, central urban area regeneration centre plans, industrial improvement areas and multi-modal studies.

### **1976 – 1978: Brian Colquhoun & Partners (UK) Transport Planner**

Area wide studies for public transport priority, selective vehicle detection, bus lane design and associated traffic management. Organisation and supervision of public transport and traffic surveys, computer analysis, economic appraisal and environmental scheme assessment.

### **Other Appointments**

Transport / Rail Users Consultative Committee for North West England (1982 - 94) appointed by the Department of Trade, involving membership of several tribunals, including the Settle to Carlisle closure hearings.

Royal Town Planning Institute; National Transport Panel Member; (1995 - 99) Expert Advisor (1999 – 2005)

## Publications/Papers

- **Implications of Road Investment**, NZTA Research Report 507, <http://www.nzta.govt.nz/resources/research/reports/507/> November 2012
- **Northern Busway Review**, NZTA, <http://www.nzta.govt.nz/planning/monitoring/audits/docs/northern-busway-review-report.pdf> May 2012
- **The value of public transport – option values and non-use values**, NZTA Research Report 471, <http://www.nzta.govt.nz/resources/research/reports/471/> January 2012
- **Regional transport targets for sustainable transportation in New Zealand**, NZTA Research Report 385, <http://www.nzta.govt.nz/resources/research/reports/385/> November 2009
- **National Transport Model Development: Relating transport forecasts to economic performance**, Australasian Transport Research Forum, [http://www.atrf.info/papers/2009/2009\\_Furnish\\_Wignall.pdf](http://www.atrf.info/papers/2009/2009_Furnish_Wignall.pdf) September 2009
- **Identifying the Economic Value of Rail Services: Issues in Transport Assessment and Evaluation**: Australasian Transport Research Forum, [http://www.atrf.info/papers/2009/2009\\_Boulter\\_Wignall.pdf](http://www.atrf.info/papers/2009/2009_Boulter_Wignall.pdf) September 2009
- **Making the most of models: The use of modelling to support the development of more effective transport policies and strategies**, VTPI, [http://www.vtpi.org/FerWig\\_Modelling.pdf](http://www.vtpi.org/FerWig_Modelling.pdf) July 2009
- **Big picture transport planning: When precision fails and approximation succeeds**: Operational Research Conference, Victoria University, November 2008
- **Strategic modelling choices: The role of policy modelling in New Zealand**: IPENZ Model User Group Meeting, October 2008.
- **Identifying the value of long distance rail services: Current issues in assessment and evaluation**: VTPI, [http://www.vtpi.org/rail\\_evaluation.pdf](http://www.vtpi.org/rail_evaluation.pdf) May 2008
- **Role of land use planning in shaping our transport system**: Christchurch Conference (NZ); July 2007
- **Better practice in land transport programmes**; Planning quarterly (NZ): March 2007
- **Potential For High Occupancy Vehicle Priority In the UK**; TRB Conference, Dallas (US): August 2000
- **The A565 Atlantic Avenue; A Regeneration Corridor**; Highways and Transportation (UK): February 1996
- **How Public Transport Can Influence Development Location**: Aston University Development Conference (UK): May 1995.
- **Sustainable and Attractive Industrial Development**: Estates Times Industrial Review (UK): February 1995.
- **B1 Public Transport Access Strategies**; Planning Report Journal (UK): October 1995.
- **Completing the Terminal Network for European Inter-modal Traffic**: Freight Conference: September 1991.
- **Trafford Park Rail Terminals; Results of a Freight Development Study**: Municipal Engineer (UK); October, 1990
- **Manchester Phoenix Regeneration Study**: Municipal Engineer (UK), June 1990