

CURRICULUM VITAE – TERENCE WHITEMAN

1. **Name:** : Terence Michael Whiteman
2. **Expertise** : International Transport Economist/Financial Specialist/Project Leader
3. **Nationality** : Australian
4. **Email** : Email: whiteman.terry@gmail.com
5. **Date of Birth** : November 25, 1952
6. **Education** :
 - Cash Flow Valuation Competency (Postgrad), Queensland University of Technology 2004
 - Bachelor of Economics, University of Sydney 1975
7. **Memberships and accreditations:**
 - International Consulting Economists Association (ICEA)
 - Australian Government Baseline Security Clearance

8 Other training:

All MS Office products; Hostile Awareness Training (HEAT); Cost Benefit Analysis (CBA) modelling; Multi Criteria Analysis (MCA); design and conduct of socio-economic surveys; and public expenditure assessment and sustainability analysis.

9. Countries of work experience:

Australia, Brunei Darussalam, Indonesia, Malaysia, Pakistan, Thailand, Bangladesh and Kenya.

10. Languages:

Competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
English	1	1	1
French	5	5	5
Bahasa	5	5	5

11. Employment record:

From/to: 2014 to current
Location: Brisbane, Australia
Employer: Self employed
Position Held: International Transport Economist and Financial Expert
Description: Provided economics and financial advisory skills for BRT and urban transport Pre-Feasibility Studies in Surabaya and Yogyakarta (client was CDIA/GIZ), Denpasar (KfW), Palembang (GIZ), Banda Aceh (ADB/CDIA), Jakarta (IndII/ADB), Peshawar (ADB/CDIA), Dhaka (ADB/Bangladesh Government) and Nairobi (European Union).

From/to: 2000 to end 2013
Location: Brisbane, Australia
Employer: Aurecon Australia Group Ltd
Position Held: Associate/Lead Economist
Description: Provision of project advisory and economic services, in particular strategy development and cost benefit analysis for assessing the direct and indirect impacts for major infrastructure and services projects in Australia and internationally; and project leader on land transport and master planning studies. Major economic evaluations done in South East Queensland, Australia, include:

- Northern Busway RBWH to Kedron/Stafford (Brisbane)
- Eastern Busway (Brisbane)
- Chermiside Bus Station Upgrade (Brisbane)
- Cross River Rail (Brisbane)
- Connecting Heavy Rail to Light Rail (Gold Coast)
- Robina to Varsity Lakes Gold Coast Rail (Gold Coast)

- Gateway Bridge Duplication (Brisbane)
- Gateway Motorway South (Brisbane)
- Airport Link Toll PPP (Brisbane)
- Legacy Way Toll PPP (Brisbane)

From/to: 1989 to 2000
Location: Brisbane, Australia
Employer: Queensland Transport
Position Held: Senior Policy Adviser to Acting Director (Rail Ports and Freight Division)
Description: Provision of policy advice and planning services in the fields of rail, ports, aviation and freight logistics. Queensland government representative on national Australian forums including Integrated Logistics Network (ILN), Standing Committee on Transport (SCOT), Aviation Working Group and the National Transport Statistics User Group.

From/to: 1987 to 1989
Location: Brisbane, Australia
Employer: Queensland Department of Employment and Industrial Affairs
Position Held: Senior Executive Officer (Employment and Training Division)
Description: Provision of policy advice on employment and training issues and implementation of the government's youth employment program.

From/to: 1982 to 1987
Location: Canberra, Australia
Employer: Australian Bureau of Statistics (ABS)
Position Held: Assistant Supervisor (Register Administration Services Section)
Description: Designed and managed large national ABS statistical surveys in the transport, construction and small business sectors.

From: 1980 to 1982
Location: Canberra, Australia
Employer: Commonwealth Department of Industry & Commerce | Canberra
Position Held: Principal Research Officer (Tourist Industry Branch)
Description: Provision of policy advice services for the Australian tourism sector comprising tourism operators, accommodation facilities and transport providers.

From: 1975 to 1980
Location: Canberra, Australia
Employer: Australian Bureau of Statistics | Canberra
Position Held: Graduate Clerk to Research Officer (Foreign Investment Section and National Accounts)
Description: Preparation of input / output national accounts and the conduct of national surveys.

12. Detailed tasks assigned

Assignment 1:
Name of project: Peshawar Sustainable Bus Rapid Transit Corridor Project - Project Design Advance: Project Management, Co-ordination and Capacity Building (PMCCB)
Location: Peshawar/Islamabad, Pakistan
Year: 2017 (current and due to finish end 2017)
Client: ADB
Referee: Nadir Ehsan +44 7437 443344 (nadir.ehsan@theurbanpractice.uk)
Position Held: Budget and Cost Control Specialist
Major features/activities performed:
 The Peshawar Sustainable BRT Corridor Project has an estimated construction cost of USD550m and will contribute to developing a sustainable UTS in Peshawar focusing on providing major improvements to peoples' accessibility and mobility. The PMCCB team is responsible for project management, co-ordination, and institutional strengthening of organizations responsible for managing the BRT System. Specific tasks allocated include:

- Conducting a Financial Management Assessment (FMA) of key implementation agencies of the Peshawar Development Authority (PDA) and KP government's Transport and Mass Transit Department

- Establishing an Enterprise Resource Planning (ERP) system for TransPeshawar that integrates financial (budget and cost control), contract management (for service providers) and human resources into the one system.
- Training TransPeshawar personnel on the functionality and use of the ERP system.

Assignment 2:

Name of project: *Feasibility and Detailed Design of a Corridor of a Bus Rapid Transit in Nairobi*
Location: Nairobi, Kenya
Year: 2016 -2017 (current and due to finish end November 2017)
Client: European Union
Referee: Peter Turner +61 7 3379 2385 (peter@ptconsulting.com.au)
Position Held: International Transport Economist/Financial Expert

Major features/activities performed:

Completed financial and economic evaluation (FEA) of two proposed major BRT corridors in Nairobi namely Line 3 covering 25 km with an estimated capital cost of EUR 647 million and Line 4 West covering 8 km costing EUR 201 million. Subsequently completed an FEA for the shortened Line 3 BRT with a capital cost of EUR315 million. Other tasks included a fare/revenue assessment, sensitivity analysis of capital and passenger growth forecasts options, preparing a financing plan for the project and presenting to key stakeholders including NaMaTA, KURA and European financing institutions.

Assignment 3:

Name of project: *TA-6293 Managing the Cities in Asia - Banda Aceh Bus Rapid Transit Network Improvement*
Location: Banda Aceh, Indonesia
Year: Oct 2016 to Feb 2017
Client: ADB/CDIA
Referee: Peter Turner +61 7 3379 2385 (peter@ptconsulting.com.au)
Position Held: Transport Economist

Major features/activities performed:

This pre-feasibility study assessed the proposed BRT line from the city to the University of Syiah Kuala that was served by Trans Koetaradja. The principal aim of the study was met by producing a detailed strategy to support the effective implementation of a public transport network in Banda Aceh with the BRT system as the central feature of such a network. Financial and economic assessment were conducted of the USD15 million BRT line. Other public investment work included an assessment of provincial and municipal governments' financial capacity to fund the project and also the potential for bank and IFI funding at commercial rates.

Assignment 4:

Name of project: *Network Development Master Plan (NDMP)*
Location: Jakarta, Indonesia
Year: Feb 2016 to end Dec 2016
Client: Aurecon contracted to Indll (Australia aid program to Indonesia)
Referee: Steve Richards +61 412142875 (stever4221@gmail.com)
Position Held: Economist

Major features/activities performed:

Economist in the team that delivered Implementation Framework Volume 2 as part of the Indll's Network Development Master Plan (NDMP) to improve Indonesia's inter-regional road connectivity of the next 20 years. To implement the proposed NDMP, the Implementation Framework provided recommended targeted policy actions to Directorate General of Highways (DGH) and BPJT (Toll Regulatory Agency) for the financing including PPPs, institutional and regulatory processes that will be required to deliver the schedule of road projects over the next 20 years. The scope consisted of toll roads, expressways and highways standard roads totalling 5,177km linking key economic and international trade gateways and their delivery through PPP options. Client was Indll and funding was provided by the Australian Government

Assignment 5:

Name of project: *Preliminary Study of 2 BRT Corridors*
Location: Palembang, Indonesia
Year: 2016
Client: GIZ
Referees: Peter Turner +61 7 3379 2385 (peter@ptconsulting.com.au)
Position Held: International Transport Economist

Major features/activities performed:

This study was conducted at the pre-feasibility level to develop two (2) BRT corridors for implementation in Palembang over the next five years. Corridor A was 8.4km in length with an estimated capital cost of EUR 29M while Corridor B was 6.3km in length with an estimated capital cost of EUR 13M. Financial and economic assessments of both Corridors were prepared using Cost Benefit Analysis (CBA) to prioritise investment.

Assignment 6:

Name of project: *Pre-Feasibility Study in Public Transport, Denpasar,*
Location: **Denpasar, Indonesia**
Year: **2015**
Client: **KfW**
Referee: **Peter Turner +61 7 3379 2385 (peter@ptconsulting.com.au)**
Position Held: **International Transport Economist**

Major features/activities performed:

International Transport Economist for this PFS funded by KfW and managed by Bappenas. The PFS developed an achievable 5-year Public Transport Strategy, a pilot school bus program (as part of the broader public transport network) and a system of feeder bus services to help reduce urban congestion levels in Denpasar. The PFS provided a staged program to improve human capacity at the government level to develop and manage of contracts. My role was to prepare the economic/financial modelling as part of the business case for USD4 million in priority investment projects including an assessment of sources of financing.

Assignment 7:

Name of project: *TA-6293: Managing the Cities in Asia - Urban Transport Pre-Feasibility Study in Peshawar, Pakistan (39185-012)*
Location: **Pakistan**
Year: **2014**
Client: **ADB/CDIA**
Referee: **Peter Turner +61 7 3379 2385 (peter@ptconsulting.com.au)**
Position Held: **International Transport Economist**

Major features/activities performed:

Public transport emerged as a key priority for Peshawar city and provincial leadership through Urban Policy Unit (UPU) in the Khyber Pakhtunkhwa (KPK) Planning and Development Department. The PFS team provided the experience and technical basis to assess the best operational, economic and financial MRT investment option to serve Peshawar. Key tasks that were performed included:

- Provided an overview of the significance of MRT investment to the Peshawar economy
- Reviewed KPK Provincial government annual Budget Statements over past 4 years to determine the financial capacity of the Provincial government to fund/so-fund a major MRT infrastructure project
- Identified PPP opportunities with the MRT
- Undertook economic analysis including fare structure options of 4 BRT project options and 3 LRT project options using Cost benefit analysis and Multi-criteria analysis.

Assignment 8:

Name of project: *Pre-feasibility Study in Urban Transport, Surabaya*
Year: **2012**
Location: **Indonesia**
Client: **Cities Development Initiative for Asia (CDIA)**
Referee: **Peter Turner +61 7 3379 2385 (peter@ptconsulting.com.au)**
Position Held: **Urban Economist/Financial Expert (International)**

Major features/activities performed:

Responsible for conducting the cost benefit analysis and providing specialist economic advice on the provision of complementary infrastructure investment package costing over \$110 million to support the proposed light rail and monorail mass rapid transit (MRT) systems in Surabaya. These investments targeted angkot and city bus services covering the City of Surabaya and were segmented into the following three areas:

- System wide investments for trunk and feeder bus services to improve transport efficiency and journey time reliability for the community and operators
- Corridor infrastructure improvements for bus trunk routes that were prioritised by government agencies
- System wide investment for angkot services to improve the functioning of this public transport mode particularly for the transport disadvantaged and socio-economic marginalised areas of Surabaya.

Assignment 9:

Name of project: *Pre-feasibility Study in Urban Transport, Yogyakarta*
Year: 2012
Location: Indonesia
Client: Cities Development Initiative for Asia (CDIA)
Referee: Peter Turner +61 7 3379 2385 (peter@ptconsulting.com.au)
Position Held: Urban Economist/Financial Expert (International)

Major features/activities performed:

Prepared on behalf of Cities Development Initiative for Asia (CDIA) the updated status report for the three-staged implementation of the proposed Bus Rapid Transit (BRT) system in Yogyakarta. This Status Report covered the revised investment projects and identified 9 BRT corridors and related infrastructure that seeks to optimise the potential of the BRT system for both passengers and operators and to generate a modal shift from the private motor vehicle to bus transport. When fully constructed, the BRT network will have 104km of dedicated BRT infrastructure, 153 BRT shelters, 6 bus depots, an integrated ticketing system and a 149 city buses carrying estimated 40 million passengers annually.

Assignment 10:

Name of project: *Northern Busway Project*
Year: 2006
Location: Brisbane, Australia
Client: Queensland Government
Position Held: Economics Leader

Major features/activities performed:

Project leader for the economic impact analysis of the AUD536 million Northern Busway Project linking Herston with Kedron/Stafford on Brisbane's inner north side. This analysis included the cost benefit analysis modelling of public transport and road user benefits including modal transfers, whole of life costs assessment and the Computable General Equilibrium (CGE) modelling.

Assignment 11:

Name of project: *Institutional Development Consultancy Services for Dhaka Mass Rapid Transit Development Project*
Location: Dhaka, Bangladesh
Year: 2015
Client: SMEC (Bangladesh)
Referee: Raquib Hasan (raquib04@yahoo.com)
Position Held: Business Administration Expert

Major features/activities performed:

Member of the Institutional Development Consulting ("IDC") team that formulated an institutional framework of the Dhaka Mass Rapid Transit Development Project (Line 6) to provide the safe, economic and smooth transportation operation. Tasks included prepare the inventory system; the management systems that was clearly defined by policy, planning, implementation and feedback improvement; and the operations management system for key performance Indicator, customer satisfaction, Plan-Do-Check-Action and quality control

Assignment 12:

Name of project: *Southern Sydney Access Investigation*
Location: Sydney, Australia
Year: 2015
Client: Transport for New South Wales
Referee: Brian Griffiths +61 2 9465 5599 (brian.griffiths@aurecongroup.com)
Position Held: Project Director

Major features/activities performed:

Project Director for the major Southern Sydney Access Investigation (SSAI) that provided advice, assessment and recommendations on transport network improvement options up to AUD3 billion including possible new toll motorway and bus infrastructure initiatives in a study area covering a population of approximately 400,000 people in southern Sydney, Australia. The investigation developed an integrated transport scheme that delivered on both road transport and public transport outcomes in the broader study area. The Pre-feasibility Assessment was the first major deliverable for the SSAI and the resulting report informed the updated state of New South Wales State Infrastructure Strategy (SIS) released in November 2014.