

Philippines: Managing truck overloading in the Philippines

Transport economist: appraisal of the costs and benefits of enforcing axle load limits, using HDM4 to evaluate changes in vehicle operating costs.

Client: Dept of Public Works and Highways and AusAid (project RA009-1)

Nigeria: Port Harcourt Ring Road

Financial analysis and economic review of proposal to construct a ring road around Port Harcourt using private finance.

Client: Roughton International (for Africa Finance Corporation)

Uganda: Rukungiri-Ishasha and Kyenjojo-Hoima-Kigumba roads (lot D)

Transport economist: economic assessment of proposals to upgrade approx 300km of gravel roads in western Uganda.

Client: Uganda National Roads Administration

Georgia: Ajara bypass roads development project

Transport economist and financial analyst on ADB PPTA project: economic appraisal, traffic projections, diversion modelling, toll evaluation, highway funding, financial projections.

Client: ADB (PPTA 7059-GEO)

Mozambique: Liberdade financial assessment

Financial assessment of a proposal by EMA, a Mozambican enterprise, to take over water supply responsibilities in Bairro da Liberdade, Maputo.

Client: WSUP

UK: Audit of Bristol Water's and Severn Trent's PR09 CBAs

Economist: audit of Bristol Water's and Severn Trent's cost benefit analyses undertaken for PR09.

Client: Bristol Water/Severn Trent Water

UK: Draft regulatory impact assessments

Economist: review of consultants' draft regulatory impact assessments for the water framework directive.

Client: Environment Agency

Ghana: Accra bus rapid transit pilot project

Transport economist: economic and financial appraisal of proposed BRT project.

Client: Department of Urban Roads/World Bank

Ghana: Transport sector planning and integration plan

Financial analyst assessing transport costs and sector financing.

Client: Ghana Ministry of Finance and Economic Planning

Nepal: Capacity building in road feasibility study

Transport economist: workshops, training and case study using HDM4, RED etc.

Client: ADB (TA-4825 NEP)

Dubai: Axle loading and relevant economic impacts

Assessment of the economic impacts of enforcing axle load limits in Dubai.

Client: Dubai Roads & Transport Authority

UAE: Due diligence of Metito Holdings Ltd

Review of business plan, financial projections and competitive position of MHL, a supplier and operator of desalination plants.

Client: IFC

India: Financial analyst supporting small town WSS

Short term consultancy supporting business planning in small town water utilities.

Client: World Bank (WSP)

1996-2006

Halcrow Group Limited - Associate

China: Western Guangxi roads development project

Transport economist and financial analyst on ADB PPTA project: economic appraisal, traffic projections, diversion modelling, toll evaluation, highway funding, rural road evaluation, poverty impact, financial projections

Client: ADB (PPTA 4792-PRC)

UK: Northern Ireland Water Services - review of costing methodology

Review of costing methodology and application of UK Treasury "optimism bias" estimates in run up to corporatisation of NIWS in 2007.

Client: NIWS

Bangladesh: Dhaka eastern bypass and flood control embankment multipurpose project - updating and upgrading of 1998 study

Economist: appraisal of transport and flood defence benefits and financial appraisal of gains in land values.

Client: Bangladesh Water Development Board

Jordan: PSP strategy and poverty issues

Financial expert: strategy papers were drafted on international and local trends in water PSP, and on access to services by the poor. Conclusions were drawn and recommendations made on the future direction to be taken.

Client: European Commission

UK: Economics support to TE2100

Cost benefit analysis advice to team preparing high level options for flood defence in the Thames estuary, London.

Client: Environment Agency

Pakistan: Capacity building for environmental management in Sindh (ADB TA 4432-PAK)

Financial economist, advising on international best practice on water, sanitation and solid waste management tariffs and practical implementation in Sindh.

Client: ADB (TA 4432-PAK)

China: Tolled highway study

Financial modelling advisor during study of market entry strategies for a Korean company considering investment in the Chinese toll road market.

Client: SK Group (Korea)

Jordan: Financial benchmarking, Amman

Financial expert: a financial review of Aqaba Water Company and recommendations on financial indicators as part of a benchmarking exercise.

Client: European Commission

Bulgaria: Remediation of existing landfill in Rousse

Financial and economic appraisal as part of an ISPA application for a solid waste management project. Economic appraisal in accordance with EU CBA guidance.

Client: Ministry of Environment and Water

Latvia: Riga stormwater project

Cohesion Fund application: financial and cost benefit analysis of the storm water sewerage system in Latvia's capital city, population c 700 000.

Client: Riga Municipality Traffic Department

UK: Harrington marina-based regeneration study

Financial and economic appraisal of a proposed marina on the Cumbrian coast: marina market supply and demand analysis, net employment generation, environmental benefits.

Client: Allerdale Borough Council

India and Tanzania: Small towns water supply

International financial advisor working with a small team to produce business planning guidance for small towns.

Client: World Bank

Ireland: Evaluation of water services investment

Specialist advisor to Fitzpatrick Associates during an evaluation of water sector investment in Ireland from 2000-2006.

Client: Fitzpatrick Associates (for NDP/CSF evaluation unit)

Estonia: East-Harju and Keila-Vasalemma Cohesion Fund water protection project

Leader of financial and economics team undertaking financial modelling and investment appraisals of water and wastewater improvements in ten towns in Estonia, for EU grant applications. Tariff design and affordability were analysed.

Client: Estonian Environmental Investment Centre (KIK)

China: Central Sichuan road development project

Transport economist and financial analyst on ADB PPTA project: economic appraisal, traffic projections, diversion modelling, highway funding, rural road evaluation, poverty impact, financial projections, corporatisation (PSP) proposals

Client: ADB (PPTA 4274-PRC)

Romania: Small towns infrastructure development (SAMTID)

Role as advisor role on financial modelling and municipal creditworthiness.

Client: Ministry of European Integration

Romania: TA for the preparation of Baia Mare ISPA application

Financial, economic and regulatory appraisal of Baia Mare water supply as part of EU ISPA fund application process. Financial modelling, tariff design, affordability issues.

Client: Ministry of Public Finance

Albania: Transaction advice for Berat-Kucova concession

Financial analyst/water economist undertaking assessment and potentially concession (PSP) design for Berat and Kucova. Tariff design and affordability issues addressed.

Client: OSH/KfW

Yemen: Amran-Aden Road: section 2 from Dhamar to Taiz

Economic appraisal of proposed 156km highway using HDM4: road user benefits, accident savings.

Client: Ministry of Public Works and Urban Development/Saudi Fund for Development

Malaysia: Management of toll roads

Toll policy study including a review of Malaysian concession (PSP) agreements, comparison of toll practice and affordability in Malaysia with international best practice and recommendations for future policy.

Client: Malaysian Highway Authority

Latvia: River Basins of Eastern Latvia

Financial, economic and regulatory appraisals of four towns as part of EU ISPA fund application process and financial and economic team leader for all twelve towns in application. Financial modelling. Affordability, tariff design issues addressed.

Client: Ministry of Environmental Protection

Kenya: Kisumu PSP options study

Financial projections for private sector participation in the Kisumu water sector. Review of corporate structure, affordability based on a willingness to pay survey; tariff issues.

Client: PPIAF

UK: London Gateway port appraisal review

Review of economic appraisal of proposed new port development.

Client: P&O

Jordan: Northern Governorates management contract

Financial projections for compensation design as part of a PSP transaction advisory assignment. Drafting of relevant parts of RFP documentation. Affordability, tariff issues.

Client: KfW (Germany) & Water Authority of Jordan

Turkmenistan: Revision of Economic Instrument

Analysis and recommendations for a revised wastewater charge.

Client: TACIS

Romania: Braila master plan

Appraisal of financial position of Braila water utility and the implications of a new wastewater treatment facility. Review of ability to comply with lenders' covenants, affordability issues.

Client: EU-ISPA

UK: Thames Trains, financial projections

Financial projections as part of train operator's application for a franchise extension

Client: Thames Trains Ltd

Bulgaria: Concession/ISPA co-finance advice

Analysis of price setting under the Sofia PSP concession in order to advise EU-ISPA of commercial impact of ISPA co-finance.

Client: DFID, Ministry of Environment and Water

Latvia: Four big cities study - financial projections and economic appraisals

Financial, economic and regulatory appraisals of Riga Water as part of EU ISPA fund application process: tariff design, affordability.

Client: Ministry of Environmental Protection

Romania: TA for the preparation of local and regional infrastructure projects to be financed under the Phare 2000 programme

Cost benefit analyses of local energy and infrastructure projects in accordance with EU guidance.

Client: Ministry of Regional Development and Prognosis

Latvia: Four towns study - financial projections and economic appraisals

Financial projections to satisfy EU ISPA requirements for grant application for water and wastewater projects in four towns

Client: Ministry of Environmental Protection

China: Southern Sichuan road development project

Financial analyst on ADB PPTA project: financial evaluation and modelling, highway funding, financial projections, corporatisation (PSP) proposals.

Client: ADB (PPTA 3546-PRC)

UK: Tariffs for the poor

Working paper for best practice guide on water tariff design, especially in PSP contracts, for the poor.

Client: WEDC/DFID

Romania: Pascani ISPA application - financial projections

Financial projections to satisfy EU and EIB requirements for grant application for water and wastewater project

Client: DAC Pascani

Latvia: Three basins study - financial projections and economic appraisals

Leader of a team undertaking financial and economic investment appraisals of water and wastewater projects in 19 towns to satisfy EU ISPA requirements for grant application. Tariff design and affordability issues addressed.

Client: Latvia Ministry of Environmental Protection

Guyana: Water and sanitation sector services

Appraisal of merger of two water utilities: financial modelling of the merged entity, retained for subsequent tariff advice during transition to a PSP arrangement.

Client: DFID

Sri Lanka: Greater Negombo transaction advice

Financial analyst for preparation of transaction studies. Financial modelling, financing plans, tariff design, willingness to pay and affordability were all considered.

Client: Private Sector Infrastructure Development Company/World Bank

China: Guangxi highway development project

Transport economist and financial analyst on ADB PPTA project: economic appraisal of expressway to Vietnamese border, border trade issues, toll evaluation, highway funding, rural road evaluation, poverty impact, financial projections

Client: ADB (PPTA 3220-PRC)

Romania: Iasi/Pascani ISPA applications

Financial and economic investment appraisals of water and wastewater projects in two towns in NE Romania to satisfy EU ISPA requirements for grant application. Tariff design and affordability issues addressed.

Client: National Agency for Regional Development

Korea: Advice on PSP in transport infrastructure

Assessment of five road and port projects for presentation to investors. Financial reviews by sector and project and investors' summaries drafted.

Client: PICKO

Iran: ParSEEZone infrastructure

Financial analysis of infrastructure to support shore based industry dependent on the Southern Pars gas field.

Client: Iranian National Oil Company

South Africa: Durban Metro Water Services - strategic advice

Financial modelling of restructuring options for water and sanitation services in the unicity of Durban. Major issues were financing terms and tariffs for the poor.

Client: DMWS

South Africa: Johannesburg water utility project

Financial modelling advisor.

Client: Johannesburg Municipal Council

Hungary: Flood control project

Economist: topic leader for cost benefit analysis and cost recovery studies for proposals to change flood control arrangements on the Danube and Tisza rivers

Client: Hungarian NWA and MTCWM/World Bank

UK: Rye harbour economic benefits

Economist: assessment of the transport and fisheries benefits of not allowing the harbour's terminal groynes to fall into disrepair.

Client: Environment Agency

Poland: Bardo treatment works study

Financing and affordability assessment of a proposal to complete a wastewater treatment works damaged by flood waters.

Client: World Bank

Philippines: Ft Bonifacio water supply concession

Review of PSP concessionaire's financial model and proposals on behalf of purchaser and sponsor

Client: Fort Bonifacio Development Corporation

UK: Water industry periodic review

Review of financial components of companies' business plans prior to regulator's price review

Client: Water companies and Office of Water Services

Bulgaria: Water law approximation (BUL 110)

Economist: estimates of costs of complying with EU water and waste water directives. Tariff implications were highlighted.

Client: EU PHARE

Latvia: Training in economic appraisal techniques

Training given to officers of ministry of environment in appraisal techniques recommended by the EU.

Client: UK Know How Fund

Sri Lanka: PSP assessment of Sri Lankan water sector

Financial analyst, modelling PSP options in five cities in Sri Lanka (Galle, Kandy, Negombo, Kalutera, Colombo wastewater). Recommendations made on which should be considered for detailed appraisal.

Client: World Bank

Barbados: Coastal conservation plan

Economist: cost recovery proposals for planned coastal defences. Various payment vehicles considered (admission charges, departure taxes, general taxation) and their institutional implications.

Client: Inter-American Development Bank

Malaysia: Sungai Kenerong hydroelectric project

Financial model review for lenders

Client: Projass/Malaya Banking Berhad

UK: Appraisal methodology for Thames tidal defences

Development of a risk based investment appraisal method for capital programmes on the tidal Thames, in accordance with UK Treasury guidance.

Client: Environment Agency

Trinidad & Tobago: WASA mid term review of Interim Operating Arrangement

Business performance expert, reviewing WASA's progress under the IOA (a PSP arrangement) against business plan objectives.

Client: World Bank

Bangladesh: Strategy study to mobilise finance and increase efficiency in the Dhaka water sector

Financial analyst and team leader on a PSP options study. Financial modelling of the utility under various PSP options, constrained by affordability. A "road map" for reform was developed and presented at a stakeholders' workshop.

Client: World Bank and Dhaka WASA

Vietnam: Provincial water supply and sanitation

Financial specialist: financial models of six towns' water operations as part of ADB loan conditions. A major issue was ability to comply with loan covenants.

Client: ADB (loan)

Russia, Ukraine & Turkmenistan: TACIS environmental support facility

Workshops on project development and presentation for aspiring project sponsors in the CIS

Client: EU Tacis

Philippines: Transport strategy study (PTSS)

Transport economist undertaking prioritisation of highway, port and airport projects for investment planning.

Client: ADB (TA 2487-PHI) and NEDA

UK: Worcester Woods Project

Financial analysis of proposed new leisure project for those with special needs

Client: Hereford and Worcester County Council

1992-1996

TecnEcon Limited, London - Associate director

UK: PFI revenue model for Bangor/Kinnegar treatment works

Simulation of monthly payments to concession (PSP) company under conditions of uncertainty.

Client: Coastal Clearwater Ltd

Czech Republic: Training in environmental economics Week of training in environmental economics techniques

Client: UK Know How Fund

UK: Tidal Thames appraisal advice

Economic appraisal advice

Client: Thames region of Environment Agency

Hong Kong: port operations benchmarking study

Review of port performance indicators

Client: Asia Infrastructure Fund

Vietnam: Binh and Bai Chay road bridges

Financial projections of proposed tolled bridge crossings. Affordability of tolls relative to perceived user benefits was considered in the analysis.

Client: DFID

UK: Project Heron

Competitor analysis for water company

Client: Welsh Water plc

Greece: Psyttalia sewage treatment works

Tariff review as part of application for Cohesion Fund support.

Client: Greek Ministry of Public Works

Thailand: Chachoengsao water privatisation

Financial appraisal of options for PSP in a rapidly growing provincial town east of Bangkok. Tariff issues and financing alternatives were reviewed.

Client: Provincial Waterworks Authority

Thailand: Appraisal of rescue vessel

Economic appraisal of case for a rescue and environmental protection vessel by Royal Thai Navy. The benefits included reduction of damage to mangrove areas, shrimp farms and tourism.

Client: Danida

Turkey: South West coast environmental project

Development of new institutional and financial arrangements for water supply management in Marmaris and Cesme

Client: World Bank

China: Jiangyin road bridge

Financial projections of a proposed tolled bridge across the Yangtze. Affordability of tolls relative to perceived user benefits was considered in the analysis.

Client: DFID

Thailand: Port planning and financing seminar

Lectures on financial and institutional issues to Asean port managers, Bangkok.

Client: EU DGI

UK: Revenue sensitivity of PFI road schemes

Client: Sponsors

OU: summer school corporate finance lecturer

UK: Post project evaluations of coastal defence projects

Ex post evaluations of seven flood, sea defence and coast protection projects

Client: Department for Environment, Food & Rural Affairs

Oman: Financial analysis of BOT wastewater projects

Sponsors' investigations

Client: Sponsors

Vietnam: Noi Bai airport appraisal

Financial appraisals of proposed new terminal buildings

Client: DFID

UK: Sludge disposal options

Monte Carlo modelling of alternative sludge disposal options

Client: Yorkshire Water

UK: Intangible benefits of flood defence

Scoping study of alternative approaches to assessment of the intangible (principally health) benefits of flood protection. Stated preference techniques were recommended.

Client: Department for Environment, Food and Rural Affairs

Pakistan: Re-use of saline drainage water

Project preparation mission involving a review of researchers' proposals in Punjab and Sindh provinces.

Client: EU DGI

Baltic States: TA to the Baltic States' social sector programme

General coordinator of a ECU 4m TA in the fields of unemployment benefits, work search etc. Strategies were put forward for interventions suited to transitional economies.

Client: EU PHARE

UK: Economic appraisals of tidal defence strategies

Three economic appraisals on the tidal Severn and the Trent rivers Project preparation mission

Client: Environment Agency

Ireland: Environmental programme evaluation

Evaluation of EU funded water and waste water projects and development of an appraisal approach

Client: Department of the Environment & EU DGXVI

Turkey: Appraisal of financing proposals

Appraisal of bidders' financing proposals for a US\$650m waste water treatment works

Client: ISKI

<p>UK: Trafford Park manufacturing institute Study of the market, involving site interviews with senior manufacturing staff, for a manufacturing institute. Client: TPDC</p> <p>Russia: Civilian product strategy, Leningradsky Severny Zavod Options for conversion of a defence factory to civilian output. Client: LSZ</p> <p>Vietnam: Export processing zone Market study of a proposed EPZ in the Haiphong area for a Malaysian client Client: Renong Sdn Bhd</p> <p>UK: Project appraisal guidance Final draft of economic appraisal guidance for flood and coastal defence projects Client: Department for Environment, Food and Rural Affairs</p> <p>UK: West Twin coal handling project, Belfast Economic and financial appraisal for ERDF grant funding to Treasury Green Book standards. Client: Belfast Harbour Commissioners</p>	
1989-1992	<i>Department for Environment, Food and Rural Affairs (Defra), London - Principal</i>
1987-1989	Commonwealth Development Corporation, London
1985-1989	UK: Howard Humphreys & Partners, Leatherhead
1979-1984	UK: Binnie & Partners, London
1975-1979	Swaziland: Commonwealth Development Corporation
1974-1975	UK: Hydraulics Research
1972-1974	UK: Southampton University
1969-1971	Malawi: Voluntary Service Overseas
<p>Publications <i>Depreciation: the hidden force behind costs and charges:</i> paper to EWA conference, Munich, May 2002</p>	