



TTC Capability Statement

Transport Technology Consultants Limited (TTC Ltd) is a leading independent technical advisor, established in 1996 to deliver policy advisory; strategy development; interim management; and scheme design services in the field of Intelligent Transport Systems (ITS). Our clients include public and private sector organisations that wish to exploit ITS and road-user charging policies.

TTC has been providing services to clients globally for over 15 years and since 2010, recognising the exciting development of the Asia Pacific region, TTC has been headquartered in Hong Kong.

Areas of expertise

- Scheme feasibility assessment—the application of ITS and electronic toll collection systems in urban and inter-urban contexts
- Investment case appraisal
- Complexity reduction
- Business case development
- Procurement strategy development
- Operations risk analysis and due diligence
- Policy development and oversight
- Translating application requirements to system requirements
- System engineering
- Technical, commercial and contract negotiation
- Programme and project management
- Enforcement strategy development—resourcing and specification of evidential capture technologies
- Development of legislation, regulations and ordinances
- Vendor due diligence
- Expert witness services

Clients

- South African National Roads Agency (Pretoria, South Africa)
- Indonesia Transportation Society (Jakarta, Indonesia)
- Tate's Cairn Tunnel (HK SAR)
- Shenzhen Customs (Shenzhen, PRC)
- Land Transport Authority (Singapore)
- Department for Transport (London, UK)
- Transport for London (London, UK)
- Ministry of Public Works (Den Haag, The Netherlands)
- Shah Alam Expressway (Kuala Lumpur, Malaysia)
- US Department for Transport (Washington, USA)
- Transport Scotland (Edinburgh, UK)
- IWT-Vlaanderen (Government of Flanders, Belgium)
- Bakwena Platinum Corridor Concessionaire (Johannesburg, South Africa)
- Rapp Trans AG (Basle, Switzerland)
- Australia-headquartered road operator
- United Kingdom Society of Intelligent Transport Systems (London, UK)
- South African Society for Intelligent Transport Systems (Johannesburg, South Africa)
- University of Newcastle (Newcastle, UK)

Track record

- Development of specifications and a performance management regime for 11 regional and national ITS services in South Africa including, Freeway Management, Incident Management Systems (IMS), Fleet Management, Law Enforcement Support, Toll Agency Operations Monitoring, Automatic Traveller Information System (ATIS) and Asset Management (2009–ongoing). Currently a permanent member of SANRAL’s performance management committee (2010–ongoing).
- Chair of the UK Department for Transport’s Interoperability Forum Technical Committee (IFTEC) to lead the development of a suite of interoperability specifications by 30 public and private organisations.
- Project manager for Electronic Toll Collection (ETC) trials at Tate’s Cairn Tunnel and Eastern Harbour Crossing pilot ETC systems (Hong Kong).
- Technical and policy advisor to the Indonesia Transport Society (MTI).
- Independent advisor to an investment bank regarding the financing of a European infrastructure project.
- Expert witness services in a patent law suit.
- Independent Engineer for the migration of a private South African road operator scheme to align with South Africa’s national ETC scheme (2009–ongoing).
- Evaluator of ITS grant applications to the Flanders government (Belgium).
- Project management of several initiatives within Transport for London (TfL), including Dedicated Short Range Communication (DSRC) trials management and evidential strategy development based on Electronic Registration Information (ERI), and representative to Thames Gateway Bridge project team.
- Concluded technology due diligence for an Australian road operator of a European developer of novel sensor technologies for vehicle occupancy measurement.
- Tolling Specialist and Integration Manager for a potential DSRC upgrade to the Central London Congestion Charging Zone and Western Extension Zone charging scheme.
- Expert Practitioner in Universal On Board Unit (UOBU) feasibility study project awarded by the European Commission.
- Project and Contracts Manager for a programme aimed at the development and validation of simulation models for the Dutch Rekening Rijden initiative. Managed the development of models of all roadside system elements for a Multi Lane Free Flow (MLFF) system, then finally assembled to demonstrate end-to-end whole system performance.
- System Design Authority (SDA) as part of the UK’s Lorry Road User Charging Scheme, focused on a comprehensive review of technology options for charging and enforcement, and leadership of a group of technology experts.
- Project manager to two independent trial system deployments for Florida Department of Transport (FDOT) charging technology trials, as part of FDOT’s Sunpass programme.
- Conceived, designed, developed and deployed the UK’s first electronic charging scheme at Dartford Thurrock Crossing in 1989.

Contact information

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