

Intelligent Transport Management & Telematics Project References

- ST Electronics (Info-Comm Systems) was awarded a contract to provide consultancy expertise for an Integrated Transport Platform (ITP) project which is part of an integrated transport system master plan for a major city in the western part of China. The consultancy includes the design of an ITP for subsystems such as CCTV, licence plate recognition, automated incident detection, dynamic messaging and parking guidance, traffic signal controls and enforcement system, control centre and expert systems.
- ST Electronics was awarded a contract to provide an Automatic Fare Collection System and a Digital Trunking Radio System for the Silom Line Extension (S9 to S12 stations) in Bangkok, Thailand.
- ST Electronics (Info-Comm Systems) is to design and implement Phase 1 of Singapore's Intelligent Energy System Pilot Project in partnership with Accenture. The first phase, focusing on the advanced metering infrastructure, will take place up to 2012. The second, on smart grid applications, will be carried out from 2012 to 2013.
- ST Electronics (Info-Comm Systems) was awarded a US\$21.5m (about S\$29m) contract by Arad Technologies Ltd (Arad) to supply Automatic Meter Reading (AMR) radio transceivers for Arad's DIALOG 3G@ AMR solutions.
- Ituran Location and Control Ltd (Ituran) awarded a US\$8m (about S\$10.9m) contract and an option worth US\$2m (about S\$2.7m) to ST Electronics (Info-Comm Systems) to provide SMART vehicle and asset tracking devices (SMART) for the recovery of stolen vehicles and goods. Part of iTWatch, a highly advanced terrestrial location and security system developed by Telematics Wireless, it presently serves more than 600,000 users in Europe and South America.
- ST Electronics and its subsidiary, ST Electronics (Info-Comm Systems), were awarded two S\$4.6m contracts to provide Trainborne Passenger Information Systems for Concessao Metroviaria Do Rio de Janeiro SA. These are to be implemented in the Rio de Janeiro metro for the outskirts and in the city.
- ST Electronics was awarded a contract to provide an Automatic Fare Collection System for the Sukhumvit Line Extension from E10 to E14 stations.
- ST Electronics won a contract for Trainborne Public Address System (Communications System) for Bangkok Metro Public Company Limited (BMCL).
- ST Electronics was awarded a contract to provide a Digital Trunking Radio System for the Sukhumvit Line Extension from E10 to E14 stations
- CSR Zhuzhou Electric Locomotive Co., Ltd awarded ST Electronics a contract to provide Trainborne Communications System for the Izmir Light Rapid Transit, Turkey.
- ST Electronics was contracted to provide Comprehensive Maintenance for Sentosa Access Control & Ticketing System (Automatic Fare Collection System).

- ST Electronics won a contract to implement an Automatic Fare Collection System for the Bus Rapid Transit Chongnonsee for its Ratchapruck Route in Thailand.
- ST Electronics won a S\$28m contract for the Signalling System Installation on the Singapore Downtown Line (DTL) from Invensys Rail Limited (Invensys Rail) (formerly known as Westinghouse Brake and Signalling Holdings Limited)
- ST Electronics won a contract (Contract 1592B) to implement Platform Screen Doors for the Singapore North-South Line Extension.
- ST Electronics won a contract to implement Platform Screen Door System for Taipei MRT Songshan & Xinyi Lines in Taiwan.
- ST Electronics won a Downtown Line Sub-Contract contract for Trainborne Communications System (73 Electrical Moving Units) in Singapore.
- ST Electronics won a contract Contract QX10-07 for the Singapore Mass Rapid Transit (SMRT) Comprehensive Maintenance Contract (Maintenance Management System) in Singapore.
- ST Electronics was awarded contracts worth about RMB58.8m (about S\$12.8m) by Changchun Railway Vehicles Co Ltd (CRC) of China to provide Passenger Information Systems (PIS) and Security Monitoring Systems for its project in the Saudi Mashaaer Mass Rapid Transit (MRT) Line in Saudi Arabia, and a PIS for an MRT Line in China.
- Singapore's Land Transport Authority awarded ST Electronics (Info-Comm Systems) a S\$40m contract to provide the Expressway Monitoring & Advisory System (EMAS) on major arterial roads in Singapore.
- ST Electronics provides Communications System for Taipei's MRT Hsinchuang, Luchou & NangKang Lines Eastern Extension Supplementary Agreement in Taiwan.
- ST Electronics was awarded a contract (Contract 8341) for Singapore's Circle Line Stages 1 to 5 to provide Trainborne Video Surveillance System.
- ST Electronics implemented Platform Screen Door System and an Integrated Supervisory Control System for the Guangzhou to Guangfo Suburban Rail Line in **China**.
- Hong Kong Mass Transit Rapid Corporation Limited awarded a contract to ST Electronics for a Trainborne Communications System.
- ST Electronics provided a Video Surveillance System (Contract 1290) for Singapore's Boon Lay MRT Extension.
- ST Electronics was awarded a contract to provide a Passenger Information Display System (Contract ESR No.00096) for Chaloen Ratchamongkhon (Blue Line) **in Thailand**.
- ST Electronics provided an Automatic Fare Collection System for for Silom Line Extension from S7 to S8 in Thailand.
- ST Electronics was awarded a contract (Contract QX09-18) for the Interface of MAXIMO, Singapore Mass Rapid Transit's (SMRT) Maintenance Management System, with SMRT's Office Automation Local Area Network and in-house applications.

- ST Electronics provided consultancy services for Seoul Metropolitan Rapid Transit Corporation Line 5 (Platform Screen Door System) in Korea.
- ST Electronics (Info-Comm Systems) was awarded a contract worth US\$8m (about S\$12m) to provide an Advanced Taxi Despatch and Management System for Sharjah Public Transport Corporation in Sharjah, United Arab Emirates.
- ST Electronics was awarded a contract (Contract 956) for Singapore's Downtown Lines 1 to 3 to provide a Maintenance Management System.
- ST Electronics was awarded a contract (Contract 961) for Singapore's Downtown Lines 1, 2 & 3 to provide Facility for Commercial Info-Communications Services.
- ST Electronics was awarded a contract (Contract 955) for Singapore's Downtown Line, Integrated Supervisory Control System.
- ST Electronics was awarded a contract (Contract 1596) to provide a Communication System for Jurong East Modification Project & North South Line in Singapore.
- ST Electronics was awarded a contract (Contract 960) for Singapore's Downtown Lines 1, 2 & 3 Communications System.
- The Marina Coastal Expressway (Communications System) Contract 466 was awarded to ST Electronics.
- ST Electronics won a contract for the Silom Line MRT Extension from S7 to S8 for the Transmission of Train Alarm (Digital Trunking Radio System) in Thailand.
- ST Electronics was awarded a contract (Contract 1320) for North-South & East-West Elevated MRT Stations for the implantation of Half Height Platform Screen Doors Systems in Singapore.
- The Bangkok Mass Transit System Public Company Limited awarded ST Electronics a contract to implement Gates (Automatic Fare Collection System) in Thailand.
- ST Electronics won a contract for Bangkok Mass Transit System Public Company Limited's Touch Panel Ticket Issuing Machine (Automatic Fare Collection System) in Thailand.
- ST Electronics was awarded a contract for an Automatic Fare Collection System for the Guangzhou Metro Line 3 North Extension in China.
- ST Electronics was awarded a contract (Contract 830A) for Marina Bay Extension's Commercial Telecommunication Facilities System in Singapore.
- ST Electronics was awarded a contract to provide a Digital Trunking Radio System for Silom Line Extension from S7 to S8 in Thailand.
- ST Electronics was awarded a contract from Bangkok Mass Transit System Public Company Limited for an On-Train Public Address System.
- ST Electronics won the 2nd LCX Cable Project to implement Communications System for the Changi Airport Line in Singapore.
- ST Electronics was awarded a contract (Contract 830A) for the Marina Bay Extension - Full Fit out of Marina Bay Station in Singapore, providing Electrical & Mechanical Systems.

- The General Traffic Directorate / Ministry of Interior (MOI) for the Kingdom of Saudi Arabia awarded ST Electronics (Info-Comm Systems) a S\$60m contract to provide Integrated Traffic Management and Security Systems for the Automated Traffic Violations Administering and Monitoring (ATVAM).
- The contract for Communications Systems for Taipei MRT Songshan & Xinyi Lines in Taiwan was awarded to ST Electronics.
- ST Electronics won the Palm Jumeriah Monorail Project and provided a Passenger Information Display System in Dubai, United Arab Emirates.
- ST Electronics won a contract to provide a Passenger Information System for China's Nanjing Metro Line 2.
- ST Electronics was awarded a contract for an Electronic Access System (Automatic Fare Collection System) for Sentosa Development Corporation in Singapore.
- ST Electronics won a contract for Shenzhen Metro Line 1 Extension and provided a Passenger Information System.
- The Land Transport Authority awarded ST Electronics a contract (Contract RD119) for its Unified Maintenance Hub (Maintenance Management System) for road systems in Singapore.
- The implementation of a Communications System for the Singapore Sengkang Town Centre LRT (Contract 8112) was awarded to ST Electronics.
- ST Electronics won a contract for Taipei Taoyuan Airport Access MRT (Platform Screen Door, Supervisory Control & Data Acquisition, Maintenance Management & Communications System) in Taiwan.
- ST Electronics (Info-Comm Systems) was awarded a \$13.6m contract by Comfort Transportation for a new wireless GPRS-based in-vehicle Taxi Telematics System and to integrate the new system into the latest Integrated Transport Management System (ITMS) for its taxi subsidiary, CityCab, in Singapore.
- ST Electronics implemented Beijing's first Mass Transit Network Management & Support Project (Traffic Control Centre System) in time for the 2008 Beijing Olympics in China.
- ST Electronics was awarded the contract for an Automatic Fare Collection System for Guangzhou Metro line 2, 4 & 8 Extension in China.
- ST Electronics was awarded the contract for an Automatic Fare Collection System Guangzhou Metro Line 4 Extension, in China.
- The contract for the Temporary Communications System for Singapore's Circle Line Stages 3 to 5 (Contract 830) was awarded to ST Electronics.
- ST Electronics was awarded a contract (Contract CU401) for Taipei & Zhongxiao Fuxing Stations to provide Platform Screen Door Systems in Taiwan.
- Thailand's Silom & Sukhumvit Lines Upgrade to Contactless SMART Cards (Automatic Fare Collection System) was implemented by ST Electronics.

- ST Electronics was awarded a contract (Contract 1290) for Boon Lay Extension (Communications System) in Singapore.
- The Contract 830 Sub Contract for Singapore's Circle Line Stage 1 to 2 (Temporary Communications System) was awarded to ST Electronics.
- ST Electronics was awarded a contract (Contract 8322C) for North-East Line HarbourFront Station & Tunnel (Addition & Alteration Works) in Singapore.
- ST Electronics was awarded a contract (Contract ER162) for Trail Test (Trainway Intrusion Detection System) in Singapore.
- ST Electronics won a contract to provide Platform Screen Door Systems for Taipei MRT Mucha Extension Line in Taiwan.
- Singapore's Contract SDC/21.4.40/04 for Sentosa Express' Half Height Automatic Platform Screen Door was awarded to ST Electronics.
- ST Electronics provided an upgraded Traffic Monitoring and Control System for Adelaide Expressway in Australia.
- ST Electronics implemented a Traffic Monitoring and Control System for the Rawang-Bukit Lanjan and New Klang Valley Expressways, in Malaysia.
- ST Electronics was awarded the contract for the Guangzhou Metro Line 1 & 2 Supplementary Project (Train Radio System) in China.
- ST Electronics won a contract for Taipei MRT Hsinchuang, Luchou & Nankang Line Eastern Extension (Communications System) in Taiwan.
- ST Electronics was awarded a contract (Contract 8312B) for Singapore's Serangoon North-East Line Station (Addition & Alteration Works).
- ST Electronics implemented a Trainborne Passenger Information Display System for Guangzhou's Metro Line 3 in China.
- ST Electronics (Info-Comm Systems) was awarded a S\$23m contract by CityCab Pte Ltd to provide a new generation Integrated Transport Management System (ITMS) in Singapore.
- ST Electronics was awarded a contract (Contract 830) for Circle Line Stages 4 to 5 (Facility for Commercial Info-Communications Services) in Singapore.
- ST Electronics implemented a Traffic Control & Surveillance System for the Kajang Traffic Dispersal Ring Road in Kuala Lumpur, Malaysia.
- The Contract 830 for Singapore's Circle Line Stage 3 (Facility for Commercial Info-Communications Services) was awarded to ST Electronics.
- ST Electronics won the contract for Kaohsiung Rapid Transit Corporation Red & Orange Lines (Communications & Supervisory Control and Data Acquisition System) in Taiwan.
- ST Electronics (Info-Comm Systems) was awarded a S\$13.3m contract by Singapore's Land Transport Authority to implement an Intelligent Transport Systems, i-Transport.

- ST Electronics was awarded a contract by Civil Aviation Authority of Singapore (CAAS) for the maintenance services of an Automated Air Traffic Control System (LORADS III ATC System), Long range and Approach Surveillance Radar Systems.
- ST Electronics was awarded a contract by Thales ATM for the provision of systems and services for LORADS III Air Traffic Control System.
- ST Electronics undertook Consultancy Service for an Automatic Fare Collection System for Melbourne MRT, Australia.
- The Contract for Kaohsiung Rapid Transit Corporation Red & Orange Lines (Platform Screen Door System) was awarded to ST Electronics.
- ST Electronics was the Supply Controller for Taipei Rapid Transit Corporation Train 321 type (Vehicle Passenger Information System) in Taiwan.
- When Typhoon Nari struck Taiwan in April 2001, the quick recovery for Nankang, Panchiao & Chungho Lines' Communications System was carried out by ST Electronics.
- ST Electronics was the Supply Controller for Taipei Rapid Transit Corporation Train 301 type (Vehicle Passenger Information System) in Taiwan.
- The Contract 830 for Singapore's Circle Line Stages 3 to 5 (Electrical & Mechanical Systems) was implemented by ST Electronics.
- ST Electronics was awarded a contract (Contract 830) for the Circle Line Stages 1 to 2 (Facility for Commercial Info-Communications Services) in Singapore.
- ST Electronics (Info-Comm Systems) was awarded a contract by the Land Transport Authority to provide an advanced Expressway Monitoring and Advisory System (EMAS) for the Central Expressway in Singapore.
- THI Consultants Inc., awarded ST Electronics (Info-Comm Systems) a NT\$202m (about S\$10m) contract for an Advanced Fleet Management System for 2000 taxis in Taiwan.
- ST Electronics (Info-Comm Systems) was awarded a S\$6.4m contract by the Land Transport Authority (LTA) to provide a Junction Electronic Eyes System (J-Eyes) in Singapore.
- ST Electronics implemented the Nankang & Panchiao Line Upgrade (Communications System) in Taipei, Taiwan.
- The Singapore Mass Rapid Transit's Contract (QX01-18) for the North-South & East-West Lines Wide Gates (Automatic Fare Collection System) was awarded to ST Electronics.
- ST Electronics was awarded a contract (Contract 830) for Singapore's Circle Line Stage 2 (Electrical & Mechanical Systems).
- ST Electronics was awarded a contract for the City of Manchester (Automatic Fare Collection System) in the United Kingdom.
- ST Electronics won a contract for Sunderland City Council Smart Card System (Automatic Fare Collection System) in United Kingdom.

- The Adelaide Southern Expressway (Traffic Control & Surveillance System) in Australia was implemented by ST Electronics.
- ST Electronics (Info-Comm Systems) was awarded a S\$5.9m contract by Suzhou Public Security Bureau to provide a Traffic Control Management System in Suzhou, China.
- The Electronic System for Manila Light Rail Transit 2 (Automatic Fare Collection, Telecommunication, Supervisory Control and Data Acquisition & Maintenance Information System) was implemented by ST Electronics.
- ST Electronics won a contract (Contract 830) for Circle Line Stage 1 (Electrical & Mechanical Systems) in Singapore.
- ST Electronics won a contract (Contract CD315) for Taipei's MRT Tucheng Line & Panchiao Extension Line (Communications System) in Taiwan.
- The Consultancy Service in Multiple Application SMART Card System for San Francisco Bay Area's TransLink® Project (Automatic Fare Collection System) in the USA was provided by ST Electronics.
- Contract 1266 for Bukit Panjang Light Rail Transit, Sengkang Punggol Light Rail Transit, and C751A & C751B 21 Vehicles (Visual Passenger Information System) were implemented by ST Electronics.
- The Perth Traffic Control Centre (Traffic Management and Control System) in Australia was implemented by ST Electronics.
- The Development of Central Authority Software for the Rome Metrebus Project (Automatic Fare Collection System) in Italy was implemented by ST Electronics.
- ST Electronics won a contract (Contract 1232) for the Dover MRT Station (Communications System) in Singapore.
- The Supervisory Control System (Contract 1228) for Singapore's Dover MRT Station was implemented by ST Electronics.
- ST Electronics won a contract (Contract 1256) for Dover Station & Changi Airport Line stations (Automatic Fare Collection System) in Singapore.
- ST Electronics implemented an Electronic Identification System for Primer Movers Entering/Leaving PSA Pasir Panjang Terminal Gate in Singapore.
- ST Electronics was awarded a contract (Contract 560) Supplementary Agreement by Singapore Telecom (SingTel) Services to provide coverage for all of SingTel's underground network system.
- ST Electronics was awarded a contract (Contract 1252) for North-South, East-West & North East MRT Lines (Passenger Service Machines) in Singapore.
- The Contract 3538 for the Island-Wide Supply and Retrofitting of Traffic Light Junctions (Light Emitting Diode Traffic Signals) in Singapore was awarded to ST Electronics.
- ST Electronics implemented an Integrated Toll System for four bridges and one tunnel in Guangzhou, China.

- ST Electronics was awarded a contract (Contract 4313) for an Expressway Monitoring & Advisory System in Singapore.
- The Contract 810 for Singapore's Sengkang & Punggol LRT Lines' Communications System was awarded to ST Electronics.
- ST Electronics won a contract (Contract 1225A) for MRT Stations at Changi, Expo, Dover & LTA Office @ North Bridge Road (Automatic Fare Collection System) in Singapore.
- ST Electronics was awarded a contract (Contract 1225) for an Automatic Fare Collection System in Singapore by the Land Transport Authority.
- Contract 7507 for North East MRT Line (Security Access Management System) in Singapore was awarded to ST Electronics.
- Australia's Melbourne Citylink Central Computer Control System was implemented by ST Electronics
- ST Electronics was awarded a contract (Contract 755) for Singapore's North East MRT Line (Integrated Supervisory Control System).
- The Supervisory Control System for Contract 555 of Singapore's Changi Airport Line was implemented by ST Electronics.
- The Communications System for Contract 560 of Singapore's Changi Airport Line was implemented by ST Electronics.
- ST Electronics was awarded a contract (Contract 752) for Singapore's North East MRT Line (Signalling & Platform Screen Doors System).
- The Supervisory Control System (Contract 6559) for Singapore's Changi Airport Line was implemented by ST Electronics.
- ST Electronics provided consultancy for the Public Bus Transportation (Automatic Fare Collection System) in Malaysia.
- The Expressway Monitoring & Advisory System (Contract 4301) for Singapore Central Tunnel Expressway was implemented by ST Electronics.
- The Hong Kong "Octopus" (card system) for Mass Transit Railway Corporation & Kowloon Canton Railway Corporation (Automatic Fare Collection System) projects were awarded to ST Electronics.
- ST Electronics was awarded the contract for the Singapore Electronic Road Pricing (ERP) Project - Automatic Vehicle Identification/Detection System & Enforcement Camera System.
- ST Electronics was awarded the contract (Contract CC365) for Taipei MRT Chung Ho Line (Communications System) in Taiwan.
- ST Electronics was awarded the contract (Contract 335/345) for Taipei MRT Nankang & Panchiao Lines (Communications System) in Taiwan.
- ST Electronics was awarded the contract (Contract 655) for Woodlands Extension Line (Supervisory Control System) in Singapore.

- ST Electronics was awarded the contract (Contract 660) for Singapore's Woodlands Extension Line (Integrated Communications System).
- ST Electronics was awarded the contract (Contract 160) for Singapore's Boon Lay Extension Line (Integrated Communications System).
- ST Electronics was awarded the contract (Contract 155) for North-South, East-West & Boon Lay Extension Lines (Supervisory Control System) in Singapore.
- ST Electronics was awarded the contract (Contract 160) for North-South & East-West Lines (Integrated Communications System).