Quantum Inventions launches Intelligent Navigation with Galactio!

Press Release

26th August, 2010

Issued By

QUANTUM INVENTIONS PRIVATE LIMITED

Quantum Inventions Pte Ltd is pleased to announce the launch of Singapore's most advanced real-time navigation system Galactio V8 and Galactio V8-HD with its partner EastGear Pte Ltd at COMEX 2010.

Designed and built completely in Singapore, the Galactio V8 and Galactio V8-HD provide numerous advanced live information services including traffic, parking availability, flood information and weather information that are crucial to local drivers, while still adhering to international standards – this is the first in Singapore, and in South East Asia.

QI is a spin-off company from the Centre for High Performance Embedded Systems at the Nanyang Technological University (NTU). The core routing technology for dynamic navigation was developed at CHiPES over many years of research and development. QI's responsive real-time navigation software platform powers the cutting-edge Galactio V8 and the Galactio V8-HD to provide class leading innovative features in addition to currently available features in navigation systems.

Galactio V8 and Galactio V8-HD receive real-time information from Quantum Inventions' RDS-TMC service – Singapore's most advanced RDS-TMC service and powered by the nationwide Traffic Information Platform (TRIP). QI has been running RDS-TMC services over Mediacorp's radio channel since November 2009 and now provides richer information inclusive of Traffic, Parking Availability, Flood Information and Weather.

By combining traffic information, roads information, parking availability information, ERP rates, flood information, road closures and weather forecast information in a single system that does not require users to pay recurring data charges, QI has enabled users to avoid congestion and other conditions on the fly, but without needing to pay extra for it.

The Traffic Information Platform (TRIP), providing live traffic information to Galactio V8 and Galactio V8-HD, was co-developed with Land Transport Authority. Land Transport Authority and Quantum Inventions Private Limited have partnered to develop a Traffic Information Platform (TRIP) that allows systems to receive and process live traffic information in a form that is useful for motorists as well as systems.

The TRIP today provides incident information, traffic alerts, traffic flow information, ERP prices, road flood information when available, parking availability for selected carparks, and weather information. Customers of data from TRIP include Google for Google Maps and SingTel for its TrafficLIVE services. Most recently the traffic information was also used in the management of the transportation for the Youth Olympic Games.

"Leveraging on technology to optimise the road network has been a key lever in ensuring smooth flowing roads in Singapore. Armed with the real time information, it empowers motorists with the

ability to make an informed decision when planning their routes," said Dr. Chin Kian Keong, Chief Engineer for Transportation, Land Transport Authority.

Galactio V8 enables the user's dynamic lifestyle by seamlessly integrating with the LiveTraffic.SG portal (currently qi.com.sg) to be launched in conjunction with COMEX 2010. The lifestyle portal provides additional features such as *NaviSync* for the first time on Navigation systems in Singapore. *NaviSync* features include synchronization of the on-device calendar with Google Calendar so that the user does not have to re-enter the destination for appointments. Due to the addition of user settings, a single family or a group of office workers can share a single navigation system while maintaining their own favorites, routes and calendars. These features are provided for free to owners of the Galactio V8 and Galactio V8-HD.

QI has won numerous awards in the recent years: QI won the Young Innovator Awards category under the Land Transport Excellence Award (2010); QI CEO was awarded the Standards Council Merit Award (2009); QI was a Merit award winner at Singapore Infocomm Technology Federation (SiTF) Awards (2009)

For enquiries, please contact:

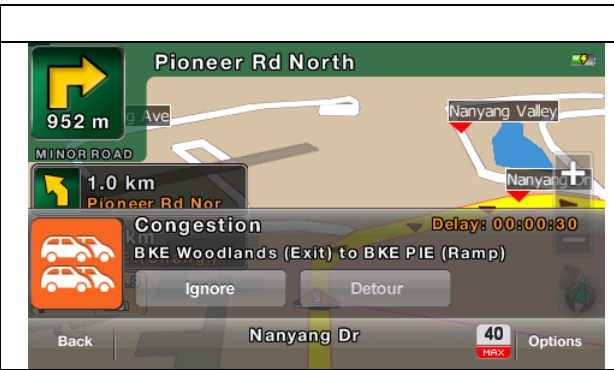|	
Saurav Bhattacharyya, CEO **Quantum Inventions** Tel : 6794 2591 / 9760 6500 Email : saurav@qi.sg	**Matthew Chua, Director** **EastGear Private Limited** Tel : 9654 6929 Email : matthew@eastgear.com

THE MAIN FEATURES OF THE GALACTIO V8 AND GALATIO V8-HD:

- Smart & Fast Routing for Instant Navigation
- Comes bundled with Singapore's first commercial and most advanced RDS-TMC service, provided by Singapore's leading traffic data provider and based on the most comprehensive certified TMC Location Table for Singapore
- **Integrated with Traffic**
  - Real-time traffic conditions disseminated over RDS-TMC (no recurring data charges)
  - Colour-coded traffic map with display of traffic incidents
  - List of real-time traffic incidents
  - Warning/ pop-up of incidents along route
  - Manual or automatic detour around traffic incidents/ congestion
  - Automatically avoid areas with traffic, floods, roads closed, etc.
- **Integrated with ERP**
  - Calculates and shows ERP cost for trip
  - ERP Gantry Warning
  - ERP-minimization routing tries to reduce ERP cost paid by driver (first in Singapore!)
- **Advanced Information on RDS-TMC (first in south-east Asia!)**
  - **Real-time parking availability** helps you decide which parking lots are full
  - **Weather forecast** information
  - **Road Closure** Information
  - **Floods** Information
- **Intuitive user-friendly Interface**
  - Full Screen Junction View for Precise Guidance
  - Lane Keeping Assistance Images and Speech
  - Intelligent Keyboard with Incremental Text Search
  - Detailed map with POI icons, 3D Buildings and Block Numbers
  - Alerts for speed cameras, speeding, ERP gantries, red light cameras and traffic
  - *Speaks Your Language:* multi-language User Interface and Voice Guidance
  - English text-to-speech to read road names and advice
- **High-quality Information Sources**
  - **Singapore Land Authority** database for full Singapore postal code information
  - Processed real-time traffic information from **Singapore Nationwide Traffic Information Platform (TRIP)**, developed in technical collaboration with LTA
  - Weather Information from **National Environment Agency** (NEA)
  - Parking Availability Information from **Land Transport Information** (LTA)
  - Restaurant data from **ShowNearby**
- **Multiple Routing Types – to suit everyone**
  - Shortest distance, fastest time without considering traffic conditions, fastest time considering Traffic Conditions and minimum cost, considering ERP costs
- **Integrated with Personalization Services** from **LiveTraffic.SG**
  - Search places online and save to personal favourites or temporary locations
  - Integrated with Google Calendar for access to personal schedule
  - **Synchronize Galactio V8 and V8-HD with LiveTraffic.SG** to route to places in your calendar, online favourites and so on (through PC or in connected systems)
  - Supports multiple users on the same system
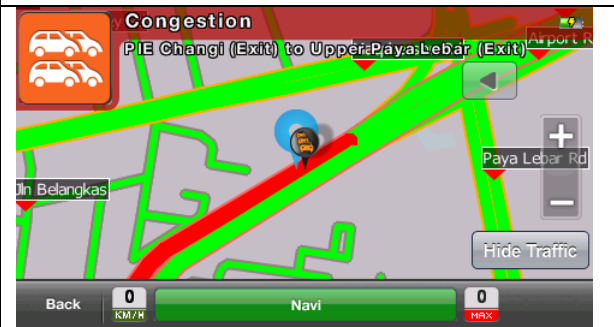
SCREENSHOTS OF THE SYSTEM

Real-time traffic conditions disseminated over RDS-TMC (no recurring data charges)

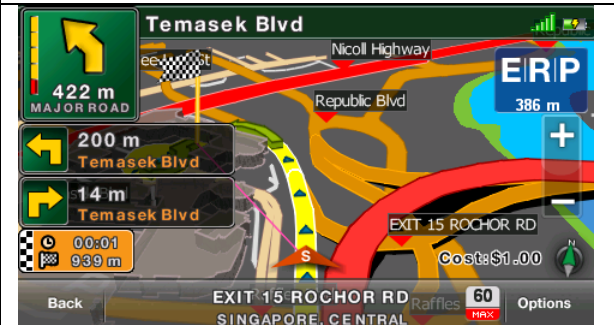Manual or Automatic detour traffic incidents/congestion
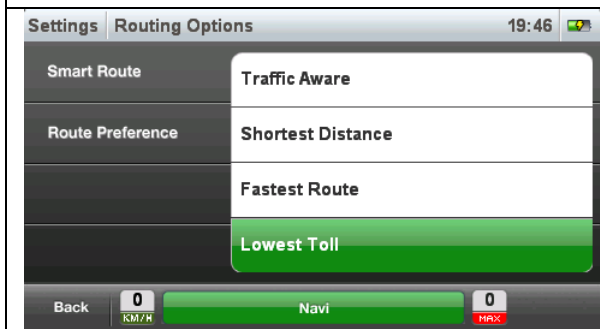

List of real-time incidents

Colour-coded traffic map with display of traffic incidents

Color Coded Traffic Map

ERP Gantry Warning

ERP-minimization routing tries to reduce ERP cost paid by driver
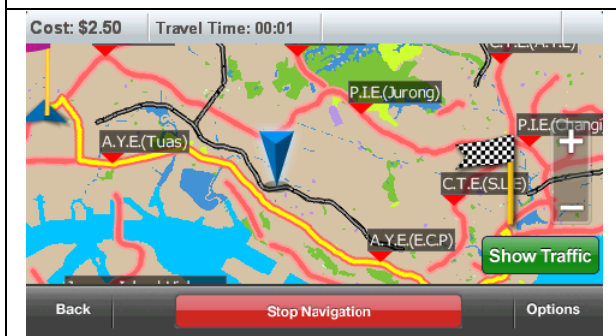

Intelligent Keyboard with incremental Text Search

Multi-Language User Interface and voice Guidance

Online Synchronization for Personalization

Road Closure Information

Calculates and shows ERP cost for Trip

Lane Keeping assistance Images and Speech

Lane keeping assistance

Full screen junction view for precise guidance

Weather Forecast information from NEA	Detailed Map with POI icons, 3D buildings and Block Numbers