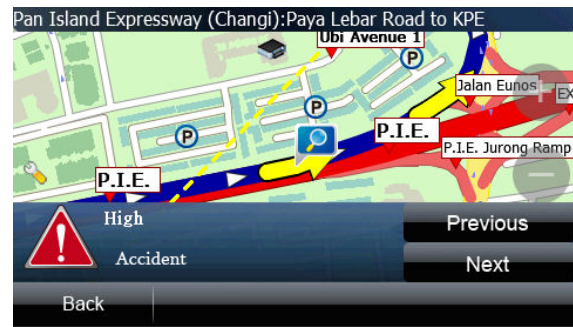


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## QUANTUM INVENTIONS LAUNCHES GALACTIO! REAL-TIME TRAFFIC INFORMATION SERVICES A FIRST IN SINGAPORE ONLINE AND ON RDS-TMC

QI announces the launch of **Galactio! Real-time Traffic Information Services** on the web and on RDS-TMC - a first in Singapore!

### GALACTIO PAPAGO! REAL-TIME NAVIGATION SOFTWARE



Quantum Inventions Private Limited (QI), in partnership with Maction Technologies Inc and EastGear Pte. Ltd. will be launching the **Galactio! Real-time Traffic Information Services** on **Galactio PAPAGO! X3 TMC** Real Time Navigation Software at COMEX 2009 – the first time in Singapore that Real Time Dynamic Navigation is provided to motorists over RDS-TMC.

Currently, the available navigation systems in the market only allow motorists to pin point their location on a map, plan driving routes, and in some systems, also show traffic information in graphic format. This means that the route chosen by these systems does not reflect the actual real time traffic conditions, hence, motorists are left without knowledge on road condition ahead nor alternative choice of route in event of a traffic jam ahead. These systems, unfortunately, also do navigate the motorists right smack into such traffic jams.

With **Galactio PAPAGO! X3 TMC** Real Time Navigation Software, all the above will change. Motorists will now be able to receive actual real time traffic information from Traffic Information Platform (TRIP), a platform developed by Land Transport Authority (LTA) in partnership with Quantum Inventions Pte Ltd (QI), through RDS-TMC. TRIP converts raw

traffic data from LTA and processes them into traffic information in accordance to International Standards.

RDS or Radio Data Systems is a broadcast mechanism for FM transmission. TMC or Traffic Message Channel is a standard developed under TC204, an ISO technical committee that develops standards for Intelligent Transport Systems (ITS) at a global level.

RDS-TMC is the same technology that is very popular for traffic based navigation in places like Europe and now motorists in Singapore can receive and benefit from such processed traffic information from TRIP over RDS-TMC in their **Galactio PAPAGO!** systems. Motorists will now enjoy real-time dynamic navigation where actual traffic conditions are made aware to them without incurring recurring GPRS or 3G data costs.

Unlike other systems, **Galactio PAPAGO!** is the first and only PND software to use TRIP which updates the PND every minute as compared to 5 minutes on other systems.

Typically, a driver with a **Galactio PND!** would be driving according to the route chosen by **Galactio PAPAGO!** When an incident occurs ahead while en-route, a pop-up message will appear and offer the driver the option to detour away from that incident. A new route would be planned to avoid that incident if the driver chooses to detour.

## GALACTIO ONLINE!

For users who prefer to use online services, Quantum Inventions has also launched **Galactio Online!** at [www.qi.com.sg](http://www.qi.com.sg)

The screenshot shows the 'QUIT TRAFFIC.SG' website interface. At the top, there's a red and white striped banner with the text 'QUIT TRAFFIC.SG'. Below the banner, there's a 'Home Feedback' link. The main content area is divided into two sections. On the left, there's a map of Singapore with a blue route highlighted. The route starts at '1 NANYANG WALK (837616)' and ends at 'BURGER KING - HOLLAND VILLAGE 243 HOLLAND AVENUE (278597)'. The map shows various roads and landmarks. On the right, there's a 'Route Search Result: Incidents' panel. It displays the route details: 'Shortest' route, '16 km in 22 mins', and 'ERP \$0 | \$0 | \$0'. Below this, there's a list of route instructions: 'Drive to NANYANG WALK (0.15km)', 'Turn left onto NANYANG DRIVE (0.36km)', 'Turn left onto NO NAME (0.03km)', 'Turn right onto NO NAME (0.02km)', 'Turn left onto NANYANG DRIVE (0.68km)', 'Turn left onto NANYANG CRESCENT (0.3km)', 'Turn right onto PIONEER ROAD NORTH (0.7km)', 'Turn left onto JURONG WEST AVENUE 5 (0.23km)', 'Turn right onto JURONG WEST STREET 71 (0.01km)', and 'Turn right onto JURONG WEST STREET 71 (0.24km)'. At the bottom of the map, there's a copyright notice: 'Copyrights © 2009 - 2010 Quantum Inventions.'

Online users can use the services at [www.qi.com.sg](http://www.qi.com.sg), where routing on origin and destinations selected by users is done on the basis of current traffic conditions in real-time. The portal at [www.qi.com.sg](http://www.qi.com.sg) also provides the user with the option to route based on ERP aware routes so that the user can economize on the ERP charges.

**Galactio Online!** also uses TRIP as the core technology along with Quantum Online Routing System (QORS) to facilitate the routing services. This portal will be the face of interaction with the users and will evolve over the next few months to provide services useful to road users and motorists based on QI's roadmap and the feedback received.

### **TRAFFIC INFORMATION PLATFORM (TRIP)**

Quantum Inventions Private Limited is proud to have partnered with the Land Transport Authority (LTA) to develop the Traffic Information Platform (TRIP) that produces processed traffic information which can be used with various routing and navigation systems. And TRIP provides information on incidents on the road on a per minute basis. This research project is co-funded by the LTA through its Land Transport Innovation Fund, launched in March last year for collaborations and joint research with industry partners and academic institutions to catalyse innovation in land transport development.

To facilitate and to receive raw traffic data from LTA for processing, Quantum Inventions' internal system is directly connected to LTA's data centre at River Valley Road. Under the joint development, the Traffic Information Platform further processes the raw data into processed traffic information and prepares it for use on different systems through ISO standards or custom integration.

The Traffic Information is made available as a service, and is aligned to both TMC and TPEG standards. TMC and TPEG are both international standards published under the Intelligent Transport Systems technical committee (TC204) of the International Standards Organization (ISO).

"Quantum Inventions is pleased to announce the launch of real-time traffic information services based on the Traffic Information Platform (TRIP). Some of the services enabled are: online based, and RDS-TMC based traffic aware routing and navigation, a first in Singapore and the region. As QI's commitment to consumers, we are pleased to have played a part in advancing navigation technology for the conveniences of motorists as well as enabling navigation application partners to launch real-time traffic based services in Singapore. We look forward to this exciting advent of real-time services in routing, navigation and dynamic information for businesses and consumers" said Saurav Bhattacharyya, Executive Director and Co-Founder of Quantum Inventions.

"The LTA is pleased that the collaboration with Quantum Invention on the use of traffic data has successfully contributed to the launch of innovative services and product offerings that provide motorists on-the-go with real time traffic information for their journey planning needs. This will potentially lead to time savings for motorists," said Dr. Chin Kian Keong, Chief Engineer for Transportation, LTA.

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