

ASIAN SPOTLIGHT

THE LATEST NEWS AND PRODUCTS FROM ASIA



SINO-UK JOINT VENTURE

A NEW SINO-UK GEOSPATIAL ENGINEERING CENTRE HAS BEEN FORMALLY LAUNCHED IN BEIJING

It will be run jointly by **NASMG**, China's National Administration for Survey, Mapping and Geoinformation – through its academic arm, the **Chinese Academy of Survey and Mapping (CASM)** – and The University of Nottingham. Its main site is at the China Surveying and Mapping Innovation Base in Beijing and a UK presence is being prepared at the University of Nottingham's Geospatial Building. The venture will promote innovation and technology transfer, leadership training, and staff and student exchange. It will explore funding opportunities and new project work, integrating resources to support long-term collaboration; and it will act as a world-

leading incubation centre to realise beneficial combinations of research and development, production and commercialisation. For the full story visit www.nottingham.ac.uk/news/pressreleases/2011/december/uk-and-chinese-geospatial-experts-launch-new-joint-centre.aspx

Pictured above inaugurating the new centre: Li Pengde Deputy Director-General, NASMG; Chen Linhao, Deputy Director, Department of International Cooperation, Ministry of Science and Technology (MST); Li Deren, Academician of CAS and CAE; Zhang Jixian, President of CASM, and Chris Rudd, Pro-Vice-Chancellor for Business Engagement and Knowledge Transfer at The University of Nottingham

NEW OFFICES FOR CHARTWORLD



To meet growing global demand for ECDIS and ECDIS data services and enhance its support for both international and regional customers, ChartWorld International, has opened a new office in Singapore (pictured) to serve the Asia Pacific region, as well as one in Limassol, Cyprus, to serve the Mediterranean region. According to Singapore-based Sales and Marketing Director, Steven van de Schootbrugge, the move reinforces the company's status as a top ten digital data provider for maritime applications. www.chartworld.com

SAFETY AWARD FOR FRANCO-JAPANESE DEVELOPMENT

In December, Tokyo-based interactive 3D simulation experts **FORUM8** and engineering consultancy **BMIA** of Le Bouscat in France scooped a prestigious award for GVAL, their jointly-developed Tunnel Management & Operator Training software. The 'Safety Initiative 2011' prize, bestowed at the NCE International Tunnelling Awards in Hong Kong, recognised the value of the SCADA-driven tool in training operators how to manage emergency situations across a broad spectrum of Intelligent Transport System scenarios.

www.forum8.com

www.bmia.fr



Pictured here collecting the award are Katsumi Matsuda, Sales Group Manager of FORUM8 and Philippe Marsaud, Technical Director of BMIA

IMPROVING PUBLIC HEALTH IN TAIWAN

A web map service with which citizens can query public health information has been launched by the **Public Health Bureau of Miaoli County** in western Taiwan. The "Miaoli Health Resource Web" provides three types of information: health information query, interactive personal health evaluation and health education. SuperWebGIS from **SuperGeo Technologies** of Taipei acts as the map server software while the supported spatial databases include Personal Geodatabase (MDB), Microsoft SQL Server and Oracle Spatial.

www.supergeotek.com



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HELPING WITH ENQUIRIES

A CHINESE FOREIGN AID PROJECT FOR THE REPUBLIC OF MAURITIUS EMPLOYS GIS TO HELP LOCAL LAW ENFORCERS REDUCE CRIME AND THE FEAR OF CRIME

Although overall crime levels in the Republic (pop. 1.2 million) have declined in recent years, the Mauritius Police Force (MPF) has been tackling a surge in opportunistic offences, culminating in last January's widely-publicised murder of an Irish visitor while on honeymoon.

To help restore confidence in the island as a top holiday destination, the MPF has implemented a customised GIS application (MPGIS) as part of a Closed Circuit Television installation covering the capital, Port Louis, and the major tourist resort of Grand Baie. Delivered as part of a Chinese Foreign Aid

project, the 340-camera system was officially launched in November of last year by the Prime Minister, Dr. Navinchandra Ramgoolan, and is expected to be extended further across the island.

The MPGIS element from SuperMap Software of Beijing, China, comprises a web map Client System and an Admin Tool (Fig.1). The Client System provides basic GIS functions such as place name searching, map browsing, layer controlling, distance and area measuring, etc., and some advanced police-oriented functions such as crime editing, crime querying, crime mapping, etc.

Its integration with the CCTV system supports the 'live' viewing of camera images superimposed on maps, and further integration with the Wireless Trunking System keeps track of officers on duty, all of whom are equipped with GPS terminals, so that senior officers can make quicker and smarter decisions when emergencies arise. In the main, the Admin Tool helps system administrators manage the map layers, statistical data, searchable layers, GPS terminals, security policies etc. for the Client System.



is used for customising the client side while, on the server side, GIS services are published by SuperMap IS .NET. The system can display both raster maps and vector layers quickly and interactively, again, greatly improving the user experience.

- As the system is in daily use by officers, none of whom are GIS professionals, the design of the Web Client enshrines the principle of "user-friendly interface, easy to use" (Fig.2). For example, the search function supports auto complete input. This feature makes a fuzzy search against the input of more than two letters to query a place name and lists the matched results automatically from which the user can select.
- Police-related data can be visualised via thematic map layers to help investigators establish crime trends and variations, or to evaluate the performance of different police stations. For example, a Pie Chart map displays the percentage of day/night larceny offences in specific locations (Fig.3), while time-series heat maps show the temporal pattern of crime across the island as a whole (Fig.4).

Features and Benefits

- A Rich Internet Applications (RIA) development approach has been adopted to improve the user experience. In this context, SuperMap iClient for Silverlight

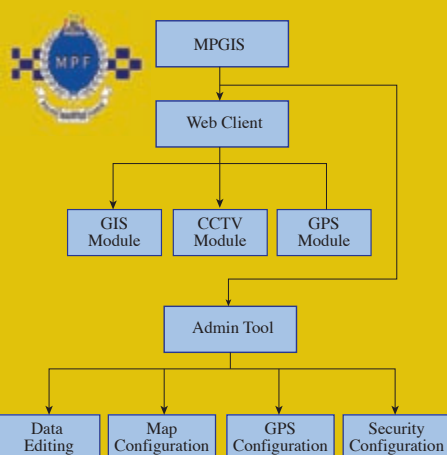


Fig.1: Functional structure of the MPGIS



- Thanks to its close integration with the CCTV system, all camera locations are positioned on the map and investigators can search a group of specific cameras and view live images superimposed on the map. Archived footage can also be displayed to help track a criminal's activity or probable location and lead to a more speedy arrest (Figs.5 & 6).
- The system's GPS tracking capability (Fig.8) operates in real-time to locate officers, to dispatch units to where they are needed, and to provide a daily or periodic reviews for operational planning purposes.
- The Admin Tool is designed and developed to meet evolving needs. As such, the system administrator can easily configure and manage statistical data, background maps, thematic maps, display styles, layers and GPS terminals without further programming. Not least, the tool encapsulates the security policy for the whole system.

The result

Since its deployment, the MPGIS has gained wide acceptance among users for its stability and practical functionality, simple operation and flexible configuration. By fully employing the latest technical developments from SuperMap, the system complements the CCTV system in greatly enhancing the decision-making ability and efficiency of the Mauritius Police Force.

www.supermap.com



Fig.4: Example of time-series map



Fig.5: Single window multi-image monitoring



Fig.2: Interface example of the Client System



Fig.6: Multi-windows Monitoring

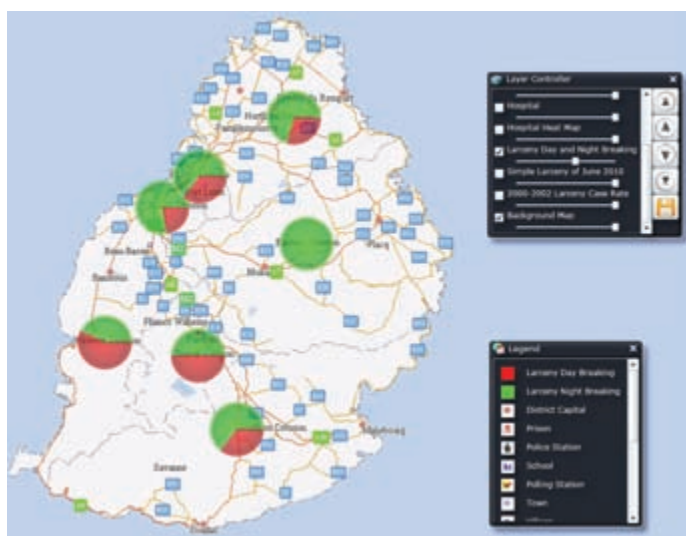


Fig.3: Example of Pie chart map



Fig.7: GPS tracking