

SOKKIA ANNOUNCES THE RELEASE OF NEW CX TOTAL STATIONS

Sokkia has released two new editions to its **CX total station** series, with availability in the Americas and Europe, both featuring enhanced reflectorless operation. The new **CX-50** is designed to provide an entry-level option with a fast and powerful EDM. The **CX-100LN** is built to offer a long-range reflectorless EDM. "Surveyors have long enjoyed the easy-to-use, high-precision, rugged and reliable CX series of total stations," said **Ray Kerwin, director of global surveying products**. The Sokkia algorithm reduces the noise associated with non-prism measurements providing an accurate result to most surfaces over longer distance. The CX-50 offers 2 and 5 arc second accuracies, a battery life of up to 15 hours, dual axis compensation, a waterproof design, and a laser pointer. The CX-100LN provides 2 and 5 arc second accuracies, a 36-hour battery life, dual axis compensation, a laser pointer, and Bluetooth® connectivity.
www.sokkia.com

OGC STANDARD THAT MAKES COMPLEX ENVIRONMENTAL DATA EASIER TO USE IN GIS

The membership of the **Open Geospatial Consortium (OGC®)** has approved the **OGC CF-netCDF 3.0** encoding using **GML Coverage Application Schema**, an extension to the OGC CF-netCDF 3.0 encoding standard that has emerged as a widely used and well supported data model and encoding for domains such as atmospheric science, oceanography, climatology, meteorology, and hydrology. It supports multi-dimensional data representing space and time-varying phenomena. The new extension to the OGC CF-netCDF standards suite specifies how CF-netCDF datasets are encoded to conform to "**OGC Implementation Schema for Coverages**." Coverages are data such as the output of weather and climate forecast models, weather station and ocean buoy observations, balloon soundings, ground-base radar, satellite imagery, digital elevation models, and LIDAR point clouds. This extension specifies how these complex multi-dimensional CF-netCDF data are encoded as OGC coverages for use in geographic information systems (GIS) or other geospatial systems.
www.opengeospatial.org



FUGRO PROVIDES SURVEY SERVICES FOR DEEPWATER DEVELOPMENT AT GUYANA OIL DISCOVERY

Fugro has been awarded a contract by **Esso Exploration and Production Guyana Limited**, an ExxonMobil affiliate, for survey services at a deepwater field development offshore Guyana. The contract provides for autonomous underwater vehicle (AUV) geophysical survey and an environmental baseline survey, along with shallow geohazard and geotechnical coring. The discovery of more than 295 feet of high quality, oil-bearing sandstone reservoirs in the **Stabroek Block** of the Liza Field represents a significant

deepwater production find in the **Guyana-Suriname basin**. Fugro will acquire, process and analyse high quality AUV multibeam bathymetry, side scan sonar and sub-bottom profiler data, as well as environmental and geological/geotechnical samples, providing seabed and shallow sub-seabed information to support the initial development of offshore structures in the field. The survey will cover an area of approximately 640 square kilometres in depths reaching 2,800 metres.
www.fugro.com

GEOCUE ANNOUNCES RELEASE OF LP360 2015.1

GeoCue Group is pleased to announce the latest release of **LP360**. Available both as an add-in to **ArcGIS®** and as a standalone 64 bit application, LP360 is the world's most powerful and popular **LIDAR** extension for the ESRI environment. This release (2015.1.76) includes many feature updates as well as new tools aimed at improving our users' ability to derive value from point clouds. This is one of the important releases in the history of LP360. We

fixed more than 380 issues and added significant new features to LP360 product. Feature updates for this release include: updated attribute class flags and filters to ensure robust compliance with the LAS 1.4 specification, new modes and units for volume outputs as well as improved digitizing tools in standalone for creating 3D stockpile toes. Each copy of LP360 includes both a Windows standalone and an ArcGIS extension license. www.GeoCue.com

HERE HD LIVE MAP, CREATES COMMERCIAL PATH TO HIGHLY AUTOMATED DRIVING

HERE has released **HERE HD Live Map**, the world's most advanced cloud-based map asset commercially available for vehicles today. Ready to be deployed in connected vehicles in North America and Western Europe, HD Live Map creates a highly detailed and dynamic representation of the road environment, enabling a vehicle to effectively "see around corners" beyond the reach of its on-board sensors. It is designed to enhance both **Advanced Driver Assistance Systems**

(**ADAS**) and automated driving functionality to make driving more comfortable and enjoyable. HD Live Map includes data such as road construction, traffic and accidents; and analytics data, including speed profile information that informs the vehicle about how to drive based on actual human behavior data. Now, with HD Live Map offered across key regions, HERE is able to support automakers seeking to widen and deepen their automated driving development efforts. <http://360.here.com>.

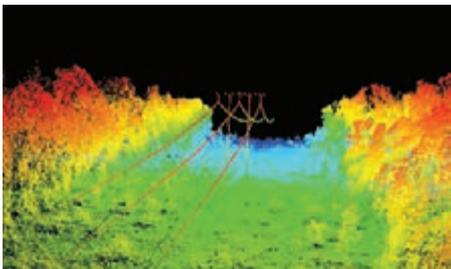
TOMTOM COMPLETES THE MOVE TO THE NEXT GENERATION MAP PLATFORM

TomTom continues to innovate with completing the move to its new transactional-based mapmaking platform. This platform is the first of its kind in the map industry and a leap forward in mapmaking technologies. It furthers TomTom's lead in delivering the highest quality and up-to-date maps optimising crowdsourced data alongside traditional mapmaking methods. This launch represents a significant milestone for the company and is the critical step to bringing real-time maps to customers. "We are the first to deliver a global platform that allows for map updates to be continuously released to users," said **Harold Goddijn, CEO at TomTom**. "The era of map updates in batches is over, now we



can update maps as changes are detected. This puts TomTom in a unique position to start providing the real-time quality and accuracy needed for the future use-cases such as driver assistance applications and highly automated driving." www.tomtom.com

SKY-HIGH SUCCESS WITH NM GROUP'S NEW INNOVATIVE SERVICE – PATROL+



NM Group has announced an innovative new service, **Patrol+**, that is designed to enhance patrol and safety inspection activities undertaken by helicopter. Using the latest imaging systems and lightweight **LiDAR** technology, alongside NM Group's sophisticated processing technology, the service collects geospatially located asset information and enables accurate and cost effective detection of: Vegetation

encroachments/infringements, Hardware defects on wooden poles and steel structures, Safety issues on the line or corridor, Accurate location of structures, and more. The service enhances existing patrols by taking the geospatially located data from the aircraft and exporting it through a series of analyses to provide a simple set of intelligent defect reports. The results are then presented in such a way that they can be actioned via the work management system and integrated into the asset management system. Relevant, functional reporting better informs maintenance teams and improves the efficiency of planned field activities. www.nmgroup.com

ELBIT TO SUPPLY ADVANCED DIRCM SYSTEMS TO AN ASIA-PACIFIC COUNTRY

Elbit Systems was awarded a contract to supply **commercial multi-spectral infrared countermeasures (C-MUSIC™)** systems to be implemented onboard a wide body jet aircraft of a country in the **Asia-Pacific** region. Based on the Elbit Systems' MUSIC family of **Directed Infrared Countermeasure (DIRCM)** systems for fixed-wing aircraft and helicopters, **C-MUSIC** is an advanced countermeasure system that uses fiber laser-directed infrared countermeasure technology to protect mid to large size airliners against heat-seeking shoulder-fired surface-

to-air missiles, also known as man portable air defense systems (**MANPADs**). Elbit Systems MUSIC family of DIRCM system integrated with the advanced **Passive Airborne Warning System (PAWS)** IR based missile warning system has undergone extensive testing with very successful results. "This contract is another major milestone for Elbit Systems, providing evidence of the high quality and reliability of our DIRCM Systems", said **Elad Aharonson, General Manager of Elbit Systems ISTAR Division**. www.elbitsystems.com

GEOGRAPHIC CALCULATOR 2016 NOW AVAILABLE WITH SIGNIFICANT UPGRADES

Blue Marble Geographics has released the **Geographic Calculator 2016**. This major upgrade to the industry's preeminent geodetic toolkit offers a redesigned and intuitive interface tailored to optimize workflow and improve productivity. Noteworthy new functionality includes an all-new Start Page providing easy access to all aspects of the software; a reorganized point database conversion function with a unique interface for each variation of the calculation; and improved memory usage for displaying and processing large point databases. Blue Marble's geospatial data manipulation, visualization and conversion solutions are used worldwide by thousands of GIS analysts at software, oil and gas, mining, civil engineering, surveying, and technology companies, as well as governmental and university organizations. For over two decades, the Geographic Calculator has been widely acclaimed as the foremost tool for addressing and solving the most complex and demanding geodetic challenges. www.bluemarblegeo.com

SKYDRONE SURVEY

UAV Airborne LIDAR System

Our Drones are robust, reliable and can fly in 30mph winds and rain for over 40 minutes.

Ideally suited for aerial surveys.

+44 (0) 333 939 0067

info@skydronesurvey.com www.skydronesurvey.com



CARENZA AND ENVITIA ANNOUNCE JOINT SAAS SOLUTION PARTNERSHIP ON G-CLOUD 7

Carrenza and Envitia have announced a partnership that will see Envitia's **Software-as-a-Service (SaaS)** solution available on the **Government's G-Cloud 7** framework. **Envitia's GeoINT Suite** is now available on Lot 3 of the G-Cloud framework via the **Carrenza Cloud** and will provide public sector organisations with an easy cloud-based way of accessing, managing and analysing vast amounts of geospatial data for the first time. Carrenza and Envitia's geospatial intelligence and data mapping solution will enable public sector users to search, discover and use geospatial information directly from their browsers. Envitia and Carrenza's partnership is built on Carrenza's proven track record of partnering with application providers to enable secure to Official level, highly resilient 'as-a-Service' solutions to both the public and private sectors. The new solution will benefit Envitia's public sector partners, who are keen to use Envitia's unique capabilities in the cloud.

www.carrenza.com www.envitia.com

MAPTITUDE 2016 IS FASTER & EASIER TO USE

Released in the 1st quarter of 2016, **Maptitude 2016** provides the expected business value when investing in mapping software with the most up-to-date and accurate maps, streets, postal data, and demographics. With significant enhancements to map redraw speeds, territory management, and trip plans, Maptitude is the fastest and most intuitive professional mapping application. Maptitude 2016 answers specific operational questions with data driven solutions. With enhanced versions of the features that **Microsoft MapPoint** users are familiar with, Maptitude retains the ease-of-use of the MapPoint tools while providing the functionality that Microsoft users could only wish for. **New Features** include; significant speedups in map display, a hover label tool, circle/radius and line drawing items auto-labelled with distance, metropolitan area and 3-digit ZIP Code area mapping (USA), territory creation tools, route manager and many more improvements.

www.caliper.com



NEW 100 MEGAPIXEL AERIAL CAMERAS FROM PHASE ONE

Phase One Industrial has announced their new **100 MegaPixel** CMOS-based medium format metric cameras available for aerial mapping and other demanding applications. The development of the **Phase One iXU 1000** and the **iXU-R 1000** camera systems marks a shift toward higher value for the aerial data acquisition market. These systems, which are available in either RGB or near infrared (NIR) variants, are distinguished from all other existing medium format aerial camera systems by their combination of higher image

resolution, wider ISO range and faster capture speeds, as fast as 0.85 second per frame, offering large format advantages at medium format prices. At 100 megapixels, the cameras deliver 11,608 pixels cross-track coverage, which is 12 percent greater than previously available medium format aerial camera systems. Flying with an iXU-R 1000 or iXU 1000 enables users more coverage during a flight while maintaining the same ground sample distance.

www.industrial.phaseone.com

10 PRODUCTIVE YEARS IN ORBIT FOR GIOVE-A, GALILEO'S SMALL SATELLITE PATHFINDER

British small satellite manufacturer **Surrey Satellite Technology Ltd (SSTL)** is marking the 10th year of in-orbit operations from its **GIOVE-A satellite**, the pathfinder mission for **Europe's Galileo** satellite navigation programme. Since retirement from its original mission for the European Space Agency, **SSTL** has operated the spacecraft at 23,300km where it provides valuable data about the radiation environment in **Medium Earth Orbit (MEO)**, and an on-board experimental **GPS** receiver is used to map out the antenna patterns of

GPS satellites for use in planning navigation systems for future high altitude missions in **Geostationary orbit (GEO)**, and beyond into deep space. **John Paffett, Director of Telecommunications and Navigation at SSTL**, summed up GIOVE-A's achievements by commenting "GIOVE-A is a milestone mission for SSTL which has demonstrated that our pragmatic approach and innovative, low cost, small satellites can deliver critical mission requirements for landmark space programmes, such as Galileo." www.sstl.co.uk



NEPALI INFRASTRUCTURE FIRM CHOOSES SUPERGIS DESKTOP PROFESSIONAL

With the collaboration of Indian geospatial company, **Satpalda Geospatial Services**, the Nepali infrastructure firm, **Eternal Infrastructure Ltd.**, has selected **SuperGIS Desktop 3.3 Professional** and relevant extensions for analyzing topography. For civil engineering professionals and infrastructure experts at Eternal Infrastructure, **SuperGIS Desktop** offers especially helpful and practical extensions that can simulate and analyze topographical features. Engineers can easily utilize the surface analysis tools from 3D Analyst extension to calculate aspect, slope

and curvature of the surface and create contour and viewshed analyses, which are critical abilities for building infrastructure in mountainous areas of Nepal. To meet additional needs to process digital terrain data or other raster data, the Spatial Analyst extension supports diverse features such as hydrologic analysis and statistical analysis. Civil engineers can take advantage of its built-in LiDAR tools, which allow users to display and manipulate LiDAR data in both 2D and 3D environments with ease.
www.supergeotek.com



MODELLING PUBLIC TRANSPORT IN THE ERA OF INTELLIGENT TRANSPORT SYSTEMS

New technologies for intelligent transport systems constantly appear on the market, but until now it was unclear how these could best be implemented for public transport, especially for planning. **Modelling Public Transport Passenger Flows in the Era of Intelligent Transport Systems** is a textbook edited by Prof. Guido Gentile of the Sapienza University of Rome and Dr. Klaus Nökel, Vice President Product Management & Software Development at PTV Group, that sheds light on the issue for the first time. Under the framework of the **TransITS COST Action Programme**, researchers from 21 European countries investigated which ITS developments could be used to benefit public transport, and how. They examined how modern technologies can be included in transport models to provide decision-makers with reasons for investing in implementation. The results were brought together in an English-language textbook aimed at a broad audience that includes practitioners, decision-makers, researchers and students. www.ptvgroup.com.

Notice Board™

A web mapping application which brings mobile-friendly smart searching to community websites.



What day should we put our green recycling bin out?

Find a vet for Patch

Find out more: cdcp.io/nbd/

Who's our local councillor?

Jack's football Sunday 9.30am - Black Park

Where is it?

Call Highways - yet more potholes!!! ☹️

Where can we recycle our old fridge?

FIELDVIEW RELEASED WITH FIRST EVER CFD 3D PDF EXPORTER

Intelligent Light, the developer of **FieldView 16** and provider of industry leading software and services for **Computational Fluid Dynamics (CFD)** workflows to engineering and research organizations, has joined forces with **Visual Technology Services**, developers of the renowned **PDF3D Report Generation** systems, to produce the first **CFD** tool with built-in **3D PDF** interactive report generation features. The flagship **FieldView** application is the most widely used CFD post-processing software for engineering and research. **FieldView** delivers scalable parallel visualization from laptops to high-performance computing (HPC), including unsteady flows, numerical analysis, extensive solver interfaces and advanced post-processing and visualization techniques. This latest software release allows 3D visuals created in **FieldView** to be converted into the universally, freely accessible 3D PDF format, enabling faster and easier sharing and distribution of reports to any customer, without them having to install specific software to view it. www.ilight.com www.pdf3d.com

1SPATIAL HELPS LONDON FIRE BRIGADE ACHIEVE 95% FASTER PROCESSING OF ROUTE QUERIES WITH FME

1Spatial enabled **London Fire Brigade (LFB)** to create faster, automated routes queries, reducing processing time from 40 working hours to just two. Routing is critical for fire crews and the right appliance must also get to the right location as quickly as possible. LFB streamlined its data management and created a single, authoritative set of geospatial data that could be shared across the organisation. It used **Safe Software's FME** application to support this work. **1Spatial** suggested using **FME** to automate the process of updating inter-station travel times, eliminating the potential for manual errors, as well as saving time and money. As a result, travel times can be updated monthly to reflect the impact of roadworks, changed road layouts etc., ensuring that staff transfers can be managed as efficiently as possible. www.1spatial.com



GARMIN® INTRODUCES DRIVE, A NEW AUTOMOTIVE LINE FOCUSED ON DRIVER AWARENESS

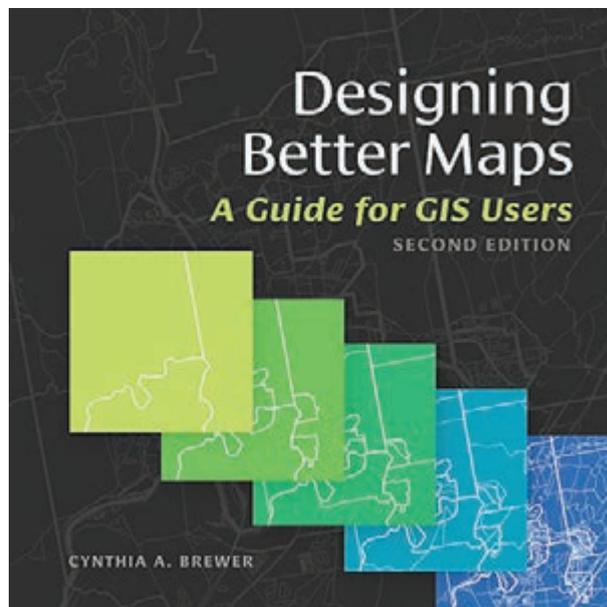
Garmin International Inc. has announced the new easy-to-use **Garmin Drive™** product line specifically designed to help increase driver situational awareness. The launch of this new lineup marks a significant step forward in the evolution of **Portable Navigational Devices (PNDs)** from Garmin with four intuitively named models: **Garmin Drive™**, **Garmin DriveSmart™**, **Garmin DriveAssist™** and **Garmin DriveLuxe™**. The entire **Garmin Drive** lineup boasts a number

of driver alerts to encourage safer driving and situational awareness. This includes warnings for upcoming sharp curves, railway or animal crossings, alerts for users driving the wrong way on a one-way street and more. Drivers also receive red light and speed camera alerts as well as vital timesaving traffic information with fast-approaching traffic jam notifications. For longer routes, a fatigue warning alert suggests potential break times and available rest areas or places to stop. www.garmin.com

NEW ESRI BOOK TEACHES THE PRINCIPLES OF GOOD MAP DESIGN

Cartographer Cynthia A. Brewer's new edition of **Designing Better Maps: A Guide for GIS Users**, published by **Esri**, will guide mapmakers through the process of designing

visually pleasing and easily understandable maps. "This book helps you develop the graphic skills you need for mapmaking," said Brewer, a professor and head of the geography

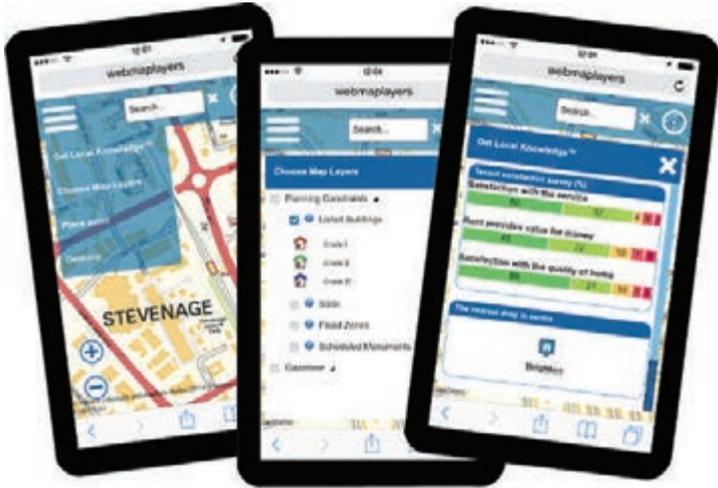


department at **Pennsylvania State University**. In writing the book, Brewer drew on 30 years of experience teaching and working in map design. The book focuses on the basics of cartography, including layout design; working with basemaps, legends, scales, and projections; selecting colors and type; and customizing symbols. In this second edition, Brewer has added a chapter on publishing and sharing maps and devotes a section to her **ColorBrewer** application, an online color selection tool that any mapmaker can use. **ColorBrewer** is now part of the new **Esri ArcGIS Pro** application. www.esri.com/esripress

CADCORP ACCEPTED BY UK GOVERNMENT AS SUPPLIER OF GIS SERVICES UNDER G-CLOUD 7

Cadcorp has won a place on the list of suppliers of **Software as a Service (SaaS)** for three hosted services, as part of the government's **G-Cloud 7 framework**. Acceptance into the **G-Cloud 7 Digital Marketplace** means that the basic terms of Cadcorp's cloud-based services have already been agreed with government following a formal **Official Journal of the European Union (OJEU)** procurement process. The Cadcorp endorsement is for three cloud-based

services. The first service is the provision of **Web Map Layers** as a fully hosted off-the-shelf application for internet and intranet mapping. The second service is the provision of hosted **Ordnance Survey map data** for use within Web Map Layers. The final service is the **Cadcorp INSPIRE Data Publisher** that helps UK local authorities meet their **EU INSPIRE** obligations by publishing data and metadata by allowing customers to upload their metadata to data.gov.uk. www.cadcorp.com



LANDMARK COMPLETES TELEMEDICINE APP FOR THE VIRTUAL DOCTORS CHARITY

Landmark Information Group has completed the development of a new mobile telemedicine application for the **Virtual Doctors** charity. The app will transform the way rural health centres in **Zambia** access vital advice, diagnosis and treatment support from a pool of qualified UK doctors, in order to deliver vital patient care to people located in some of the poorest parts of Africa. Virtual Doctors connects African health clinicians with qualified doctors and specialists in the UK, who donate their time for free to offer diagnosis and treatment advice to some of the world's poorest communities. Developed free of charge by seven members of the Landmark team, in approximately 100 days, the new custom-built VDRs mobile application is used on a Tablet PC and makes it simple for Clinical Officers to be able to share patient data with the pool of doctors. www.virtualdoctors.org www.landmark.co.uk.

NavX-NCS Professional GNSS Simulator



SX3 GNSS Software Receiver



Your Partner for GNSS Test Equipment and Scientific Applications

For Americas

IFEN Inc.
+1 951 739 7331
M.Wilson@ifen.com

IFEN

For EMEA & APAC

IFEN GmbH
+49 8121 22 38 20
sales@ifen.com

IMAJING® MOBILE MAPPING SOLUTIONS DEPLOYED IN RUSSIA

The State Budgetary Institution of Moscow City "Roads" is responsible of the complete maintenance, repairing and paving of roads and streets of Moscow City. **imajing** equipped the State Budgetary Institution of Moscow City "Roads" with 4 **imajbox**® mobile mapping systems through its Russian representative and distributor **Technopole Company**. **imajing mapping and GIS solutions** were studied and compared with other technologies for road surveying usage, in order to digitize borders, sidewalks and pavement of Moscow City. This information then enabled them to rapidly assess all kinds of dimensions and areas of the road environment. **imajbox**® mobile mapping system and **imajview GIS** data production software have now integrated the State Budgetary Institution of Moscow City "Roads" workflow and are part of decision-making process for pre-studying and monitoring Moscow City's road pavement condition. This provides both Technopole Company and **imajing** a promising entry in the Russian market. www.imajing.eu

SCHEDULE OPTIMIZER NOW FEATURES BLOCK MODEL SCHEDULING

Block model scheduling is now a part of **MineSight Schedule Optimizer, (MSSO)** following the release of **MSSO Version 9.3** by **Hexagon Mining**. MSSO is the go-to product for short, medium, and long-term planning. It determines the most productive cut mining sequence to achieve the highest project profitability, and then generates practical schedules. Block model scheduling allows one to import a range of blocks from a block model, and aggregate the blocks into full-bench scheduling units or smaller scheduling units by defining the number of blocks in each direction. Planners can generate schedules by importing blocks from the model and obtain a more accurate cycle time from a block to each destination. Version 9.3 includes a standalone package option, which includes a MineSight Project Viewer for you to visualize the geometries and scheduling results, and select or digitize a ramp, lead line, road, and point, etc. www.hexagonmining.com



CITY OF QUEBEC 9-1-1 CALL CENTER SELECTS HEXAGON SAFETY & INFRASTRUCTURE

The **City of Quebec** has selected an integrated suite of public safety software from **Hexagon Safety & Infrastructure** for its 9-1-1 call center, which supports police, fire and disaster relief. The dispatching, mobile and analytics solution will help improve multi-agency operations, enhance field personnel performance and enable Next Gen 9-1-1 capabilities. The Hexagon solution will expand the 9-1-1 call center's capabilities through more effective and efficient dispatching of closest and best-available units, better management and scheduling of staff and improved resilience

and secure access to operational information anytime, anywhere. Quebec's solution features **Intergraph Computer-Aided Dispatch (I/CAD)**, a suite of industry-leading incident management software, including **Mobile for Public Safety** and **Intergraph Mobile Responder**, which extend critical applications and information to field personnel on laptops, smartphones and tablets. It also includes **Business Intelligence for Public Safety**, and **EdgeFrontier**, an integration platform for rapid, affordable interface development. www.hexagon.com

SENSEFLY COMMERCIAL FAA EXEMPTIONS REACH 100 AND COUNTING...

Over 100 organisations in the U.S. have now been granted Section 333 commercial exemptions by the FAA to fly **senseFly drones**, confirming the **eBee** as the country's most exempted fixed-wing **UAS** and senseFly as the second most exempted UAS brand overall. Such exemptions permit these companies to use senseFly drones for paid work, providing they also hold the requisite Certificate of Waiver or Authorization (COA). Nine of these 110 organisations hold exemptions that apply

to multiple models of senseFly drone. "We are delighted to see professional senseFly drones being so well accepted, both by the FAA and the market in general," said **senseFly CEO Jean-Christophe Zufferey**. "This exemption achievement really comes down to the inherent safety of our lightweight, intelligent systems. We now look forward to more operators being able to benefit from these products as longer term UAS regulations are put in place." www.sensefly.com

