

LANDSCAN 2014 GLOBAL POPULATION DATABASE RELEASED BY EAST VIEW

East View is pleased to announce the worldwide release of the **LandScan 2014 Global Population Database**. LandScan is developed by the **Oak Ridge National Laboratory** for the **United States Department of Defense**. Annually updated since the year 2000, this represents the 16th version of LandScan. This award-winning database provides the ambient population distribution at a high resolution of one square kilometer covering all inhabited land mass on Earth. For this new release, very special attention was given to Ukraine and the Middle East where ongoing conflict has presented significant challenges for calculating the population distribution values. East View is the exclusive worldwide distributor of LandScan, fulfilling the population data needs of individual researchers, academic institutions, government agencies, humanitarian organizations and businesses around the world. www.eastview.com

U.S. FOREST SERVICE SELECTS INTERGRAPH

Intergraph Government Solutions (IGS), a wholly-owned subsidiary of **Intergraph Corporation** serving the U.S. federal market, was awarded a contract by the **U.S. Department of Agriculture** (USDA) U.S. Forest Service to provide image processing software across the U.S. Forest Service enterprise. IGS will provide capabilities for core image processing and photogrammetry through **Hexagon Geospatial's Power Portfolio**, including **ERDAS IMAGINE**® for remote sensing and **IMAGINE Photogrammetry**. Integration of these products into the organization allows the **U.S. Forest Service** to perform mission-critical image processing and analysis on nearly 200 million acres of land for objectives such as forest restoration and emergency response to wildfires. As part of the selection process, the U.S. Forest Service required live demonstrations of the proposed workflow technologies with government-provided datasets and rigorous requirements related to multiple areas of need in their business mission. www.intergraphgovsolutions.com.



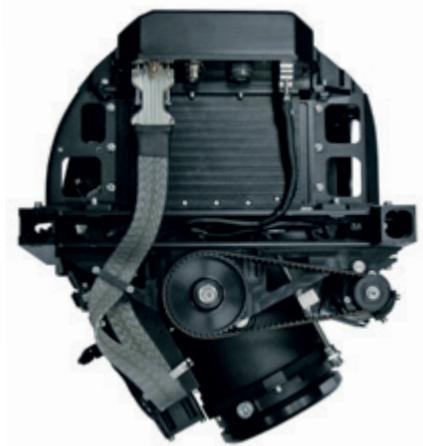
DRONES AND CULTURAL HERITAGE IN MEDELLÍN (BADAJOZ, SPAIN).

Earlier this year at the castle of **Medellín**, province of Badajoz (Region in the West of Spain close to Portugal), an outstanding project took place with a collection of technologies supplied by three Spanish companies: **Aerodron**, who supplied the UAVs (drones) and were supported by **Recursos Técnicos Madrid, S.L. (RTM)** who managed and digitized the 3D images collected by the drone, and **TYOSA** a surveying company who monitored and managed the workings of the

GPS. **Miguel Ángel Hacar, Senior Consultant at RTM** reported the details of the case study: "The photographs taken by Aerodron's multirrotor UAV, are used to create a 3D model that is managed by several software applications such as CAD, GIS and surveying control. The 3D model is the starting point to re-create a virtual museum. Any information not collected by the drone is added with the use of a ground based LIDAR scanner." www.rtm.es

VISIONMAP THERMAL AIRBORNE IMAGING SYSTEM MAPS GERMAN PIPELINES

VisionMap has announced that its thermal airborne imaging system, **MIST**, was recently used to map and monitor pipeline infrastructure in Herten, Germany. The survey was commissioned by **GEOCART**, a leading German supplier of photogrammetric products and services. VisionMap's system demonstrated its exceptional efficiency, high resolution, and high thermal sensitivity. The highly efficient MIST camera not only covers the area quickly, but also collects vertical and oblique images of the pipelines in the same flight. The camera is able to fly at high altitudes without compromising on resolution thanks to its long, 300 mm focal length; this ability is significant in urban areas, where residents may be disturbed by the noise of low-flying aircraft. VisionMap's system automatically processes the captured images producing AT, orthophoto, DSM, 3D



models, and geo-referenced vertical and oblique images on which measurements can be taken. www.visionmap.com.



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SEPTENTRIO NAMES NEW DEALER FOR UAV MARKET

Septentrio has appointed **Unmanned Systems Source** as an authorized dealer for **GNSS** positioning products in the **UAV market**. Earlier this year, Septentrio introduced its **AsteRx-m UAS high-accuracy GNSS receivers** and **GeoTagZ software** suite designed specifically for drone applications. Unmanned Systems Source based in Tucson, Arizona, is an online warehouse with the fastest growing selection of parts, components and systems for the unmanned marketplace. It is positioned as a single source of supply and information serving commercial, governmental and public sectors. "At Unmanned Systems Source, our concept is to provide our customers a true one-stop shopping experience for the full range of UAS products and systems through distribution agreements with industry-leading companies like Septentrio," said **Jennifer Jerrick, CEO of Unmanned Systems Source**. "Septentrio's powerful GNSS receiver and complementary software are important additions to our product lines." www.septentrio.com.

MISO LAUNCHES A BRAND NEW APPROACH TO PROCESSING DATA

The new **miso DataFlow** service works in a similar way to an app store - simple solutions to common business problems are brought together in the form of 'apps', known as **Workflows**. These Workflows are available to browse, purchase and download through the DataFlow Store. Once downloaded, each of the Workflows can be launched in the **DataFlow Player**, enabling the user to begin processing their data in minutes. The service is community-led, with users coming together to share their experiences and discuss their challenges. The first released Workflow is the **AddressBase Premium Optimiser**, which automates the conversion of AddressBase Premium data into more useable formats. Both DataFlow and the AddressBase Premium Optimiser have initially been launched to current users of miso's **InterpOSe** software. This release is the first of many, with more data processing Workflows due to be launched in the coming months. www.misoportal.com



MDA EXPANDS IMAGING MODES FOR RADARSAT-2 FOR OCEAN APPLICATIONS

MDA's Information Systems group has released two new **RADARSAT-2** imaging modes for commercial use. These modes are designed specifically for maritime monitoring and will enhance the capabilities of the RADARSAT-2 satellite: **The Ship Detection mode**. A mode that provides superior ship detection capability for ships 25 meters in length or greater. The Ship Detection mode is ideal for applications such as monitoring illegal fishing and sovereignty protection. **The Ocean Surveillance mode**. A mode that

provides maritime monitoring capabilities for a variety of maritime applications. The Ocean Surveillance mode can image areas as large as 530 kilometers x 500 kilometers in a single scene. This mode also delivers ship detection capability, but includes monitoring of other ocean features such as detecting oil on water, ice and wind analysis and wake detection. This versatility makes RADARSAT-2 a reliable source of information in multi-faceted intelligence surveillance and monitoring programs. www.mdacorporation.com

ARBORISTS WHITTLE AWAY TIME AND MONEY ON MAPPING WITH MGISS!

Tree safety surveys used to take weeks of work and plotting only to be repeated from scratch on the next occasion. Those days may sound like the Dark Ages now as we live in the world of GNSS technology but **Brian Crane and Associates**, an arboricultural consultancy practice based in Hertford, uses geospatial technology solutions provided by **MGISS** to carry out their tree surveys. The company specialises in matters related to tree resource management to ensure conservation and architectural heritage. Brian Crane has been carrying out the arboricultural safety surveys on 1200 trees in the grounds of **Old Warden Park** for many years, a job that used to take several weeks is now completed in just five



days. **MGISS** is a leading supplier of field data capture solutions to arborists and have spent a lot of time developing efficient workflows and cost effective hardware solutions for the industry. www.mgiss.co.uk

TOPCON'S MASS DATA COLLECTION RANGE TAKES OFF WITH NEW UAS

Topcon GB & Ireland has added a new unmanned aerial system (UAS) to its product range to give customers greater precision and flexibility for survey and mapping applications. The **Falcon 8** has been created to offer a versatile system that is capable of both inspection and survey tasks in challenging environments. With its rotary-wing system and robust design, the UAS can take off and land in almost any location and is fully operational in extreme weather conditions. It is also resistant to temperature variations and will make automatic compensations in heavy winds, reducing the need for pilot corrections.



With two models available, the **GeoEXPERT** and the **InspectionPRO**, the Falcon 8 can be used for a wide range of applications including geodata capture, agricultural projects and structural inspection and monitoring. www.topconpositioning.co.uk

CLEAREDGE3D AND GEXCEL ANNOUNCE SOFTWARE MARKETING PARTNERSHIP

Gexcel and **ClearEdge3D** have jointly announced a software marketing and sales partnership that will offer a complete automated registration and modeling solution for the BIM and industrial plant industries. The agreement combines Gexcel's innovative, target-free scan registration software called **LineUp Pro** with ClearEdge3D's automated as-built modeling software **EdgeWise 5.0** to offer the fastest field-to-finish workflow for capturing data without targets. **LineUp Pro** registers individual laser scans in a fully

automatic fashion without the need for survey targets, saving time and creating a more accurate point cloud. **EdgeWise** uses highly advanced algorithms to automatically extract and model objects from point cloud data. The software is widely regarded as the fastest and most accurate way to create as-built BIMs and facility models. Under the agreement, Gexcel and ClearEdge3D will market and sell each other's software as a single bundled offering in addition to selling the products individually. www.gexcel.it www.clearedge3d.com

AIBOT X6 VERSION 2 FIRST UAS WITH RTK - HIGH PRECISION GNSS AS A SERIAL PRODUCT

At INTERGEO 2015 **Aibotix GmbH** presented a new solution for high-precision surveying with Version 2 of its tried and tested **hexacopter Aibot[®]: High Precision GNSS**. This makes Aibotix GmbH the first company to offer a serial-production solution for high-precision GNSS for surveying UAVs. The close collaboration of several development teams made it possible to adapt the new technology so rapidly and develop it further for use in a surveying hexacopter. The precision and quality of the surveying data can be significantly improved by using RTK technology on the basis of the **SmartNet** (Leica Geosystems



AG) correction data service. Post-processing is also a possible alternative. This new flexibility not only saves users a lot of time, but also offers them more scope for adapting their activities to a specific operational situation. www.aibotix.com.

EARTH-I ANNOUNCES FORTHCOMING OPERATIONAL DATA SERVICES FROM THE DMC3/TRIPLESAT CONSTELLATION

Earth-i are offering full operational imaging and data services from the **DMC3/TripleSat** constellation placing specific focus on fast, easy and convenient access for data users. Three identical <1m resolution optical satellites make up the DMC3/TripleSat constellation. The orbital position of the three satellites means the constellation is able to target any point on the earth's surface at least once per day providing reliable and

consistent information to data users, particularly useful for a wide range of applications including change detection. The unique combination of high spatial and temporal resolution, along with industry-leading technical specifications, will serve data users and support a wide range of applications in market sectors including oil and gas, security and defence, agriculture and construction. www.earthi.space

SPACEMETRIC AND ÅAC MICROTEC PARTNER ON SMART DOWNLINKING OF EARTH OBSERVATION DATA

Spacemetric and **ÅAC Microtec** have announced their partnership on innovative technologies for smart downlinking of satellite Earth observation data. The new **Bluestone** technology will optimise the downlink of imagery from satellites to ground stations addressing the problem of handling the ever increasing volumes of data generated in space. **Mikael Stern, Spacemetric's CEO**, commented "Bluestone is a critical enabler as constellations of imaging satellites face the challenge of getting high-value data back to Earth at a sustainable cost". The collaboration between the two companies sees ÅAC Microtec providing expertise in onboard systems while Spacemetric brings long experience in ground-based image data management and processing. "This innovation is a solution that bridges the traditional gap between space segment and ground segment systems", noted **Mikael Andersson, CEO of ÅAC Microtec**. www.spacemetric.com www.aacmicrotec.com

RED CROSS OFFERS INTERACTIVE TOOL TO ACCESS AND TRACK LIVE, WILDFIRE INFORMATION

The American Red Cross has launched an interactive online map that consolidates multiple sources of disaster data into a real-time, interactive tool to get information and updates about the Western Wildfires. The tool is a high-tech, user-friendly visual database for media and the public to learn the size and scope of current disasters and locate services such as Red Cross shelters. **The Red Cross "Map Journal"** pulls together in one location multiple layers of Geographic Information System (GIS) data from the Red Cross and government sources. Members of the public can use the maps to access services. Red Cross workers can use the maps to help in their plans to deliver their services. The Map Journal leverages the power of **Esri's ArcGIS Online Technology** to create a customizable web mapping application that is also mobile friendly. maps.redcross.org

DIGITAL ELEMENT'S IP GEOLOCATION TECHNOLOGY HELPS MBR WITH MARKETING

Digital Element has announced that **mbr targeting** is deploying its **NetAcuity Edge** IP geolocation technology to enable more granular targeting across regional advertising. As a **Demand Side Platform (DSP)**, mbr targeting uses IP geolocation technology to add location as an advertising targeting criterion. The accuracy of the location data available is vital to ensuring effective geotargeting and reducing wasted impressions, while improving ROI. In the automotive industry the company works with a nationwide network of car retailers offering central advertising packages that authorised dealers can opt into. These booked impressions are then delivered using location data from the highly accurate geolocation solution, **NetAcuity Edge**. Digital Element's technology was selected following a rigorous testing process, in which IP address data was compared with known locations, to benchmark the accuracy of the various geotargeting solutions on the market. www.digitalelement.com

VSTEP INTRODUCES ADVANCED FIRE FIGHTING SIMULATOR FOR SHIPBOARD INCIDENTS

Following an extensive trial period and pilot sessions with professional AFF instructors and crews, **VSTEP** officially launches its **Advanced Fire Fighting Simulator (AFF)** for shipboard incidents. The AFF simulator enables participants to experience and train any incident on board a ship first-hand and is built to fully support and comply to the **STCW Advanced Fire Fighting courses**. The **RescueSim Advanced Fire Fighting Simulator** includes functionality, environments, emergency equipment and objects that are common to specific types of shipboard incidents and essential for STCW compliant AFF Training, including watertight doors, fire flaps, and many more. During simulator training, the participants in the simulator assess the situation and determine the best response strategy. They then implement it and immediately observe the consequences of their decisions in real-time in the simulator. The simulator allows users to try out different response strategies for an incident in a safe, controlled environment. www.vstepsimulation.com



FUGRO INTEGRATES AND REBRANDS UK BASED GEOTECHNICAL SPECIALISTS

The renaming completes the integration of key UK specialists - **Fugro Seacore, Fugro Engineering Services, EM Drilling, Fugro Loadtest, Fugro Instrumentation & Monitoring** and **Fugro Aperio**. Renamed to reflect the depth and diversity of its offering, **Fugro GeoServices Ltd** employs close to 600 staff and undertakes seven key activities: nearshore geotechnical, offshore geotechnical, marine installation, onshore ground investigation, cone penetration testing, geophysics and instrumentation and monitoring. The company also

has geotechnical laboratories and carries out a range of built environment surveys and testing. The restructure is in line with Fugro's continued integration of its global capabilities 'without boundaries' to deliver world class multi-service projects more efficiently in challenging market conditions. The company works offshore and on land providing engineering and geotechnical services for clients in the energy, infrastructure and mining sectors worldwide. Significant UK projects include Shard and Thames Tideway projects in London. www.fugro.com

IDV SOLUTIONS LAUNCHES VISUAL COMMAND CENTER 4.5

IDV Solutions, LLC, has launched the latest release of its command centre software, **Visual Command Center® 4.5**. The new version of the market-leading enterprise risk awareness and response platform includes enhancements that will help command centres rapidly assess operational risk events and take action to minimize their impact on employees, facilities, supply chain, and operations. Visual Command Center 4.5 includes enhanced command centre and executive reporting capabilities, new e-mail alert notification templates,

additional wildfire risk visualization, and more. It unites information on global sources of risk, like weather, terrorism, and natural disasters, with information from an organization's internal data stores and physical security systems on an interactive map and timeline. When a risk is detected near an asset or employee location, Visual Command Center automatically generates an alert and provides tools to assess whether the risk is a threat and take immediate action to mitigate the impact of the threat. www.idvsolutions.com

INTERGRAPH® PRESENTS THE FIRST TRULY GREEN GIS

By reducing storage requirements and energy costs, more efficient data centers are also more environmentally friendly. **Intergraph®** aims to make a contribution to these efforts with its new **Green GIS** initiative in Europe, which offers a more energy-efficient and therefore climate-friendly IT process. With the patented **ECW (Enhanced Compressed Wavelet)** data compression format, in combination with the new version of the **ERDAS APOLLO** application, **Intergraph** and its **Hexagon Geospatial** software offer a solution package that

drastically reduces the volume of raster data and point clouds. This minimises demands on storage capacity and the associated operating and cooling power requirements. **ERDAS APOLLO** also minimises the demand for servers, computing power and data transfer rates. Here, Intergraph's Green GIS initiative is pioneering in terms of climate-friendly geospatial solutions and therefore represents the first true green GIS available on the market. Intergraph has been nominated for the Wichmann Innovation Award 2015. www.intergraph.com



PLANETOBSERVER CONTINUES PRODUCTION OF PLANETSAT 15 L8 IMAGERY BASE MAP

PlanetObserver has announced the coverage of more than 50 Mill. sq km with **PlanetSAT 15 L8** base map. Processed from **Landsat 8** imagery, PlanetSAT 15 L8 base map offers detailed and seamless geographic information at 15m resolution. Key benefits of PlanetSAT 15 L8 base map are: **Base map produced with fresh data** from 2013-2015, **Cloudless data**, **Natural colour imagery processing**. PlanetSAT 15 L8 imagery base map already covers more than 50 Mill. sq km. Areas available stretch from North Africa to all Middle-East countries, Central Asia countries and a large part of India. By the end of 2015, all India, China and Australia will also be covered. Available off-the-shelf in different standard formats, PlanetSAT 15 L8 base map is perfect for many projects: GIS software, visualization and simulation solutions for commercial or military applications, graphic tools for the broadcasting industry, etc. www.planetobserver.com.

ELSEVIER AND THE AMERICAN GEOPHYSICAL UNION COLLABORATE

Elsevier announced that select content from some of the **American Geophysical Union's** (AGU) leading journals is now available in **Geofacets**. This addition of 80,000 maps will further increase the amount of essential geological information in the database, helping geoscientists make more informed interpretations and gain greater confidence in their recommendations and decisions regarding investments in new exploration opportunities. Content to be added to Geofacets includes maps from around the globe, ranging from geologic to those with more specialized

disciplines, such as tectonics, geophysics, geochemistry and oceanography. Geofacets is a geoscience solution that enables comprehensive, in-depth research of subsurface geology. By providing georeferenced maps from trusted scientific sources that can be seamlessly integrated into GIS, modelling and presentation software, geoscientists will be able to enhance their geologic knowledge and insight. This integration will increase Geofacets' content portfolio to more than 550,000 maps by the end of 2015. <http://sites.agu.org>
www.elsevier.com

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SENSEFLY EXOM DRONE PROVED CAPABLE OF PRODUCING MILLIMETRE ACCURATE 3D DATA

While professional drones are commonly used today in land surveying and GIS applications, it is unusual to see UAVs (or UAS) employed on construction sites for highly accurate survey work. The **senseFly** white paper, named **Generating highly accurate 3D data using a senseFly eXom drone**, presents the results of two photogrammetric land surveys of a construction site. The project was completed using two **senseFly eXom** close mapping and inspection drones. The results demonstrate that 3D point clouds produced with an eXom quadcopter can reach a global precision comparable to that of a total station survey and, as such, meet the typical accuracy requirements of construction projects. All the flights were completed using the drone's **Interactive ScreenFly** flight mode, and controlled using a handheld ScreenFly controller connected to **senseFly's eMotion X** flight planning and control software. www.sensefly.com

SPECIM RELEASES FIRST PROFESSIONAL QUALITY HYPERSPECTRAL SENSOR RANGE

AisaKESTREL pushbrooming hyperspectral sensor systems are built to the same strictest data quality requirements as **SPECIM's** world renowned **AisaEAGLE** and **AisaFENIX** sensors, using the experience gathered through 20 years of track record in airborne hyperspectral remote sensing. **AisaKESTREL** provides the detection of vegetation, water or soil attributes of minute spectral differences. There are no alternatives in the market compared to the radiometrically and spectrally stable data and high signal-to-noise ratio, provided by **AisaKESTREL** in variable real world remote sensing conditions. Aircraft mounted **AISA** sensors brought GSD's to 0.5-1m level. Now in this decade of UAV's, the GSD barrier has broken down to 5-10cm level for the first time with professional data quality. Through **SPECIM's CaliGeoPRO** preprocessing software, all image pixels are automatically georectified into true-orthoimagery with more than 380 spectral bands. www.specim.fi

FUGRO BEGINS FINAL GEOTECHNICAL INVESTIGATIONS IN BORSSELE OFFSHORE WIND AREA

Fugro has been awarded the geotechnical investigation contract for Sites III and IV at the Borssele wind area, off the Zeeland coast. The work is being undertaken on behalf of the **Netherlands Enterprise Agency**, part of the **Ministry of Economic Affairs**, and constitutes the final investigation at the Borssele wind farm sites before the final tender bidding rounds begin. This contract follows the previous geotechnical, geophysical and metocean investigations at the Borssele development. **Fugro** will execute boreholes with various in situ testing programmes and seabed cone penetration testing. Its experienced geoconsultancy engineers and geologists will provide an integrated geological ground model, which



will provide objective and high quality data for the developers preparing to submit tenders. The programme will entail a large advanced testing programme at **Fugro's** specialised laboratory in Wallingford. www.fugro.com

UNAVCO NAMES SEPTENTRIO AS PREFERRED VENDOR FOR GNSS REFERENCE STATIONS



UNAVCO has selected **Septentrio** to be the preferred vendor of next-generation **GNSS** reference stations for the **Geodesy Advancing Geosciences and EarthScope (GAGE)** Facility. The selection of **Septentrio** was made following a rigorous competitive selection process. Under the agreement, **Septentrio** will supply **GNSS** reference stations to upgrade

and expand the continuous **GNSS** reference station networks operated by **UNAVCO**. **UNAVCO** is a non-profit university-governed consortium that facilitates geosciences research and education using geodesy. **UNAVCO's GAGE** Facility includes more than 2,000 continuously operating **GPS/GNSS** reference stations around the world. **UNAVCO**-supported networks include **EarthScope's Plate Boundary Observatory (PBO)**, the **Continuously Operating Caribbean GPS Observational Network (COCONet)**, the **Trans-Boundary Land and Atmosphere Long-Term Observational and Collaboration Network (TLALOCNet)** and the **Polar Earth Observational Network (POLENet)**. This Preferred Vendor relationship gives **UNAVCO** a unique opportunity to provide technical input during the ongoing development process of **Septentrio's** next-generation **PolarRx-series GNSS receivers** www.septentrio.com.

FLIR INTRODUCES NEW PROFESSIONAL-GRADE THERMAL CAMERA FOR COMMERCIAL DRONES

FLIR Systems, Inc. announced the newest member of **FLIR Vue™** thermal imaging camera series for unmanned aircraft, the **FLIR Vue Pro**. Following the introduction of the popular **FLIR Vue** earlier in 2015, the new **FLIR Vue Pro** delivers expanded capabilities to sUAS operators by delivering precision thermal imaging, enhanced data collection capabilities, in-flight control of a variety of camera functions, and easy set-up with mobile apps. In addition to providing the same easy power-in/analog video-out connection that has been so popular on the **FLIR Vue**, the **FLIR Vue Pro** records digital thermal video, along with thermal still images, to an on-board micro-SD card. For applications such as electrical inspection, infrastructure assessment, and precision map-



ping, this on-board recording allows operators to capture thermal data for later analysis. www.flir.com/flirvue.