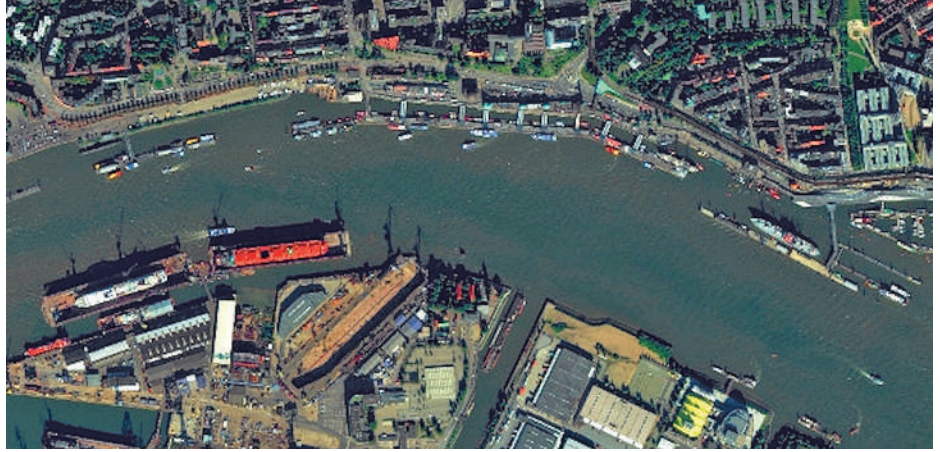


XSENS LAUNCHES ONLINE SUPPORT PLATFORM 'BASE'

Xsens has launched **BASE**, an online support platform with a community forum and a knowledge base on 3D motion tracking technology and products. The primary goal of BASE is to make Xsens customers more successful by providing a platform to exchange information. **Knowledge base (FAQ):** The knowledge base provides best practices, tips and tricks for the use of Xsens' products. It also contains inside information about MEMS sensors, inertial measurement units (IMU), sensor fusion algorithms, body motion tracking and motion capture. **Community forum:** A second section of BASE is the community forum. An online forum with direct access to Xsens' engineers and other Xsens users. www.xsens.com

ICMTGIS PRO MESHES WITH ISXBLUE

Corvallis Microtechnology, Inc. announces that its **iCMTGIS PRO** mapping software can now directly interface with the **iSXBlue Series GNSS** receivers from **Geneq, Inc.** **iCMTGIS PRO** is a professional app for use on the Apple iPad and iPhone devices. When paired with a high-precision GNSS receiver like Geneq's iSXBlue II+ GNSS or the recently launched iSXBlue III+ GNSS, an iPhone or iPad device running **iCMTGIS PRO** becomes part of truly portable GPS/GIS equipment. This system requires no data plan to operate as a GPS data collector, a geographic mapping tool, and an invaluable aid for locating points of interest and property boundaries. In addition, **iCMTGIS PRO** comes with a number of essential office software functions, enabling the field crew to do a complete job from recording field data to editing, analyzing and labeling the data then on to printing the finished map to a PDF file. www.cmtinc.com



MARSAT – SATELLITE SERVICES FOR THE MARITIME INDUSTRY

MARSAT consortium announced it is ready to provide innovative space-based applications using satellite-derived information for the maritime and coastal industry. **MARSAT's** main goal is to create integrated satellite-based services to improve safety and efficiency in shipping, offshore industries, emergency response and rescue operations. "MARSAT is an ambitious project, which brings together competence of specialists in satellite data provision and analysis, IT and the maritime industry. This team will lay the ground for

improved decision making for shipping route optimization, offshore planning and maintenance as well as emergency events", said **Dr. Knut Hartmann, Project Coordinator.** **MARSAT** is a consortium of six German companies, **EOMAP GmbH & Co KG**, **Drift & Noise Polar Services GmbH**, **European Space Imaging GmbH**, **Institute of Shipping Economics and Logistics (ISL)**, **SevenCs GmbH**, **TRENZ AG**, and is funded by **BMW**, the German Federal Ministry for Economic Affairs and Energy. www.euspaceimaging.com

NEW INTEGRATION OF SATELLITE AND TERRESTRIAL TECHNOLOGIES TO MANAGE DISASTER SCENARIOS

The **SPARTACUS** project, "Satellite Based Asset Tracking for Supporting Emergency Management in Crisis Operations" was successfully launched three years ago and achieved the objective of creating an integrated system of spatial and terrestrial technologies to manage emergency and disaster scenarios. The **SPARTACUS** project aims to provide accurate tracking and positioning of target objects, being principally rail vehicles and wagons, vans and trucks used by the emergency teams, and also people helping on the ground during emergency situations. **Roberto Carpaneto, Chief Executive Officer at D'Appolonia S.p.A.**, said, "The key challenge that faced us was integrating the wide variety



of tools, standards and protocols used across what, inevitable is an equally wide range of applications. Tracking vehicles was a key consideration. At **D'Appolonia** we were acutely aware that getting aid and personnel quickly into a disaster location could be the difference between life and death. www.dappolonia.it

AVENZA RELEASES GEOGRAPHIC IMAGER 5.1 FOR ADOBE PHOTOSHOP

Avenza Systems Inc. is pleased to announce the release of **Geographic Imager 5.1 for Adobe Photoshop®**. This latest update includes many new features including full compatibility with the latest **Adobe Photoshop Creative Cloud 2015.5** release. This release also introduces the ability save and export to the **GeoPackage** format, a platform-independent database that can contain raster data. "We're pleased to release **Geographic Imager 5.1** with full compatibility for the latest **Adobe Photoshop CC 2015.5** update,"

said **Ted Florence, President of Avenza.** "We've increased our efforts to make our products compatible with the latest updates to the **Adobe Creative Cloud** platform," he added. "We're committed to providing our users with the best map production tools possible so that they keep creating visually stunning maps." **Geographic Imager 5.1** is immediately available and free of charge to all current **Geographic Imager Maintenance Program** members and at **US\$319** for non-maintenance upgrades. www.avenza.com

BROADBAND CABLE IN THE SEWER – SOLUTIONS FOR CROSS-SECTOR LINE MANAGEMENT

Prior to the summer break, the **German Federal Parliament** (Bundestag) passed the law to facilitate the expansion of digital high-speed networks (DigiNetzG). Accelerating the expansion of fast Internet connections is the objective. However, the **DigiNetzG** also imposes new requirements on network operators in the operation of their distribution networks. How does the sewer get cleaned, inspected or rehabilitated? How does the TV inspector know in what sewer to inspect fibre optics cables? Does the rehabilitation planner know whether fibre optics cables are installed in the network being rehabilitated? The joint administration of control, broadband, fibre optics and energy cables in conjunction with networks in other



sectors, such as sewer networks, has been realised by **BARTHAUER** with the network and infrastructure information system BaSYS by implementing a dedicated cable module. Here the routing of lines is possible through the conduits of the sewer segments in the sewer module. www.barthauer.de

SOKKIA ANNOUNCES FURTHER COMPATIBILITY WITH AUTODESK LAYOUT APPLICATION

Sokkia announces its new **iX robotic total station** series' compatibility with the **Autodesk BIM 360** Layout application. BIM 360 Layout is designed to provide vertical construction contractors the ability to connect the coordinated model to the field layout process, helping to increase job site productivity, while improving the accuracy of staked or installed building components "We are committed to the interoperability between our products and Autodesk software making workflows increasingly simple for common customers," said **Ray Kerwin, director of global surveying products**. "Now operators taking advantage of the iX series' smoothest and most accurate prism tracking ability can



also layout or QA/QC (quality assurance/quality control) with the BIM 360 Layout app." With the addition of the iX series, operators now have a choice of instruments in the Sokkia family with BIM 360 connectivity, including the SX total station series. www.sokkia.com.

SENSEFLY AND MAPTEK SIGN AGREEMENT

Swiss professional drone maker, senseFly, has signed an agreement with **Maptek**, that enables Maptek to offer its customers a full, end-to-end data collection and analysis solution. Under the terms of the agreement, Maptek will begin providing North American customers in mining and aggregates industries with senseFly's professional mapping and inspection drones (eBee, eBee RTK and albris) alongside its popular I-Site Studio 3D modelling software. 'By combining a **senseFly UAV** with our **I-Site Studio 3D** modelling software, customers in the mining industry now have a powerful solution that is driven by survey requirements, as well as the in-depth modelling, change detection and

data output requirements demanded by mining professionals,' said **Todd Packebush, Maptek Director of I-Site Sales & Business Development**. 'By partnering with Maptek we are joining forces with one of the industry's most respected and recognised solution providers' said **Jean-Christophe Zufferey, senseFly CEO**. www.maptek.com www.sensefly.com



GSI DESIGNER NOW AVAILABLE ON IOS

GeoSpatial Innovations, Inc. (GSI) announced the upgrade of **GSI Designer** to support **iOS** devices in the field. GSI Designer is a mobile solution for designing overhead and underground electric lines. With the addition of **iOS** and **Android** as supported platforms, designers can significantly reduce design time in the field through seamless integration and eliminate redundant data entry in the office. GSI Designer is supported on Windows Mobile, Android and iOS. "GSI Designer on iOS and Android is an entirely new way for engineers to work in the field," said **Mike Hamsa, Chief Technology Officer, GeoSpatial Innovations, Inc.** "It runs on familiar platforms that everyone should be able to pick up and start using with very little training. It is easy to install and provides all of your maps, construction units and design standards in a completely disconnected package that can be used without an internet connection anywhere you need to go." www.gsiworks.com

NEW FEDERAL FOCUS ON ADDRESS DATA

An announcement by the **Federal Geographic Data Committee** (FGDC) that it has established a new National Geospatial Data Asset Address Theme to support ongoing work to develop a National Address Database was met with approval by the **National States Geographic Information Council** (NSGIC), the nonprofit that convenes senior geospatial coordinators for states, districts and territories across the United States. "With this shift in policy, we look forward to the work that the named Lead Agencies of the Department of Transportation and Census Bureau will accomplish together, drawing on the strengths of each agency, to build the comprehensive address database through a truly national process," said **NSGIC President Chris Diller**. Addresses in the U.S. are created at the local level, city and county. The new Federal focus on address data can save lives, safeguard resources and improve public services. www.nsgic.com

DAT/EM SYSTEMS INTERNATIONAL RELEASES SOFTWARE VERSION 7.3

DAT/EM Systems International® announces the release of the 7.3 edition of DAT/EM software products. Updated products include **Summit Evolution™ 3D** photogrammetric workstation, **LandScape™ 3D** point cloud viewing and editing software as well as **Capture™**, which links Summit Evolution and LandScape products to third party programs including ArcGIS® and ArcGIS Pro, AutoCAD®, Global Mapper® and MicroStation®. The advances in the 7.3 DAT/EM Photogrammetric Suite represent the latest evolution in technology and are based on customer input and growth within the geospatial industry. "We are very excited about the 7.3 release and are already receiving great feedback from our users," said **Robert Bredlie, Senior Photogrammetric Software Engineer**. "By focusing on two important pillars, performance and integrations, we were able to significantly improve the DAT/EM Photogrammetric Suite."
www.datem.com



EEGEO PARTNERS WITH AMP FOR INTERACTIVE REAL ESTATE 3D MAPPING

eeGeo announced a strategic partnership with **AMP Technologies** to deliver interactive three-dimensional visualizations of interior commercial spaces. The collaboration will see eeGeo's dynamic indoor and outdoor 3D maps integrated with the interactive real time technology from AMP's powerful **Commercial Real Estate Platform**, now agents and industry professionals can visualize any real estate portfolio in a 3D depiction of the real world while gaining a full view of the financial health of their assets. **Ian Hetherington,**

CEO of eeGeo said, "The partnership marks another important milestone in our journey to improve the way data is visualized. Together with AMP, we will be able to provide a compelling solution to help professionals visually keep track of tenant leases, physical occupancy and vacancies whilst monitoring their entire assets." "We are extremely pleased to announce our partnership with eeGeo," said **Neel Naicker, Co-Founder and CEO at AMP Technologies**. www.eegeo.com
www.theamp.com

WÄRTSILÄ INTRODUCES HELICOPTER GUIDANCE SOFTWARE

Wärtsilä announced the launch of its helicopter guidance software technology for marine market applications. Originally developed for military applications, the technology is based on the company's well-known **Nacos Platinum** navigation system. Following increasing demand from the market, **Helicopter Guidance** has been further developed to suit marine applications, notably in the mega yacht and cruise ship segments. This 'plug-in' tool adds a graphic overlay on electronic chart display & information systems (ECDIS) and radar, and shows at a glance whether or not the helicopter is making a correct approach along the right flight path. The "Heli Guidance" feature can be operated and activated manually. To automate this tool, an optional direct connection to an onboard Helicopter Visual Landing Aid (HVLA) system can be provided. For the tracking of fast objects, this can be used in combination with Wärtsilä's temporarily connectible High Speed Radar (HSC) function.
www.wartsila.com

ACCURATE DRONE MAPPING WITHOUT ANY GROUND CONTROL POINTS?

To get highly precise camera coordinates, there are two type of camera positioning systems on the market; real time kinematic (RTK) with corrections from a base station via a radio link while the drone is flying, and **post processed kinematic (PPK)** that doesn't require real time base station data during the flight. **Klau Geomatics Pty Ltd** have developed a plug and play PPK system that works with virtually any drone and any camera. It captures camera exposure events with the GNSS data from a quality Novatel GNSS board. The photo centres are then input into the photogrammetry workflow



with a proven, repeatable accuracy of 0.03m achieved over the entire project area. It is essential to know that the data you produce from your drone is reliable, repeatable and accurate. Klau Geomatics is working to further automate the PPK workflow and streamline precise map production from any drone.
www.geomatics.com.au

NM GROUP BECOME FIRST TO TEST BEYOND-VISUAL-LINE-OF-SIGHT LIDAR UAV

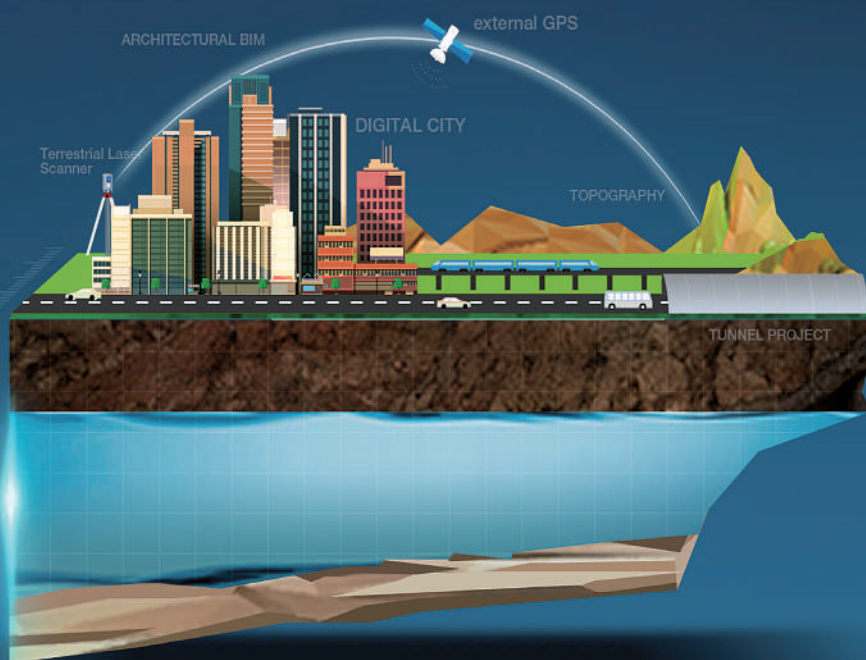
In July 2016, a Midwest utility completed a project with **NM Group** to deploy an **Unmanned Aerial Vehicle (UAV)** with **LiDAR** technology testing its suitability for vegetation compliance analysis. This project was the first time a LiDAR equipped UAV has been tested **Beyond Visual Line of Site (BVLOS)** for a power utility. The project demonstrated the suitability of LiDAR scanning for vegetation management applications, and the capability of the platform to operate in a BVLOS capacity. **Nick Ferguson, Senior Vice President at NM Group** commented "Our client



is paving the way for other utilities by adopting the latest capture methods. This test project demonstrates that LiDAR and UAV technology have huge benefits for vegetation management applications". www.nmgroup.com

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Self-developed software



Easily-extensible
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Fully-autonomous
Intellectual property rights



IP67

HEXAGON SAFETY & INFRASTRUCTURE ACQUIRES GISQUADRAT

Hexagon Safety & Infrastructure has acquired GISQuadrat GmbH of Vienna, Austria. The acquisition will enhance Hexagon's geospatial, cloud and mobile solutions for governments and utility providers in Europe. A Hexagon partner prior to the acquisition, GISQuadrat uses Hexagon software in a cloud environment to provide data capture and management services and applications, including task-specific field solutions for infrastructure networks and public services. GISQuadrat's Data-as-a-Service (DaaS) solutions provide lower total cost of ownership for business-critical data. The company serves more than 300 customers and thousands of users. GISQuadrat's solutions include applications for utility networks and cadastral workflows built on Hexagon software. They also include professional services that support spatial data collection, management and production. Following the acquisition, the company and its employees will continue current operations.
www.hexagonsafetyinfrastructure.com.

DRAMATIC SATELLITE IMAGERY: CANYON FIRE, VANDENBERG AIR FORCE BASE DigitalGlobe has been imaging the Vandenberg area each day since the fires broke out and providing this imagery to response teams on the ground. These super-spectral images were taken with the satellite's **shortwave infrared (SWIR)** sensor, which is uniquely able to pierce through smoke to provide high-fidelity identification of hot spots without the risk of having to fly a plane over an active fire. The fire line, shown in bright orange, was as close as 2.5 km to **Space Launch Complex (SLC)-3E**. The active fires near the launch pad and few hotspots remaining in the Canyon Fire gradually diminished. **SWIR** imagery is a valuable tool for combating wildfires, classifying materials in urban environments, and detecting minerals on earth's surface. However, U.S. regulatory reform is needed to fully leverage this capability, as the permitted SWIR imagery distributed contains only 25% of the information that is captured by the satellite.
www.digitalglobe.com



TRIMBLE LAUNCHES NEW PORTFOLIO OF WIRELESS IOT SENSORS FOR WATER MONITORING

Trimble introduced its **Telog® 41** Series of wireless, battery-powered sensors for water monitoring applications. These new Internet of Things (IoT) sensors use innovative, low-power, Long-Range (LoRa® technology) wireless communications to remotely measure and monitor water, wastewater and groundwater systems including water pressures, flows, levels and rainfall volumes. As part of a smart water infrastructure, the Telog 41 Series wireless sensors work in combination with Telog cloud-hosted and on-premise software to allow

utilities to more easily and economically deploy wireless monitoring. The sensors extend across a utilities existing monitoring programs for better tracking, measurement and reporting of water usage, sanitary and combined-sewer overflows (CSO/SSO) and flooding, leakage and non-revenue water (NRW). The sensors can be deployed to enable utilities to address many of the significant challenges they are facing due to drought and water shortages, storm events and flooding, budget constraints and environmental regulations www.trimblewater.com

ESRI CHOSEN BY MICROSOFT AS ITS GIS SERVICE FOR ENTERPRISE USERS

Esri is collaborating with **Microsoft Corp.** on two new offerings leveraging **Microsoft Power BI** and **Microsoft Azure**. This collaboration makes the power of geospatial analytics available to a much broader audience than ever before. Esri's GIS platform, **ArcGIS**, will be integrated into Power BI, a set of business analytics tools, which enables its enterprise users to create dashboards, reports, and data visualizations through a cloud-based service. Power BI, which has more than five million subscribers, will be able to leverage integrated data and geospatial analytics capabilities from ArcGIS, including interactive

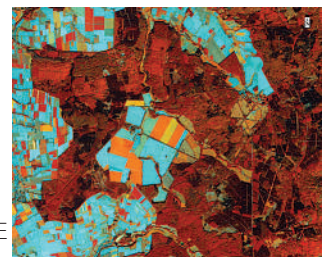
basemaps, US demographics, and secure access to organizational data. "ArcGIS geoenables Power BI with some of the world's leading spatial analytics," said **Dirk Gorter, Esri director of product management**. "We're excited to give Power BI users access to data and enhanced map visualizations so that they can tell compelling stories using spatial and nonspatial data." www.esri.com



EVERY GOOD GIFT IS FROM ABOVE! - JOINT PROJECT AGRO-DE STARTED

For about 45 years earth observation satellites, provide important information about the condition and changes of our environment. In Germany agriculture is by far the largest user of land with approximately 52% of the total area of the country and about 285,000 farms. However, so far the latest information for agriculture from satellite images was mostly available for experts only, since the collection and analysis of data were costly and complicated. On the **Hessian State Domain** farm, the official launch of the joint project **AGRO-DE** was held. The project consortium, including the Julius Kühn-Institut, the German Aerospace Center, **EOMAP** and Hanse-Agro,

can prepare satellite image information throughout Germany for agriculture. The **AGRO-DE** project will create a data and analysis cluster, which allows farmers, agricultural consultants, contractors and service providers, to use preprocessed remote sensing information in a timely manner for integration into their operations.
www.eomap.com





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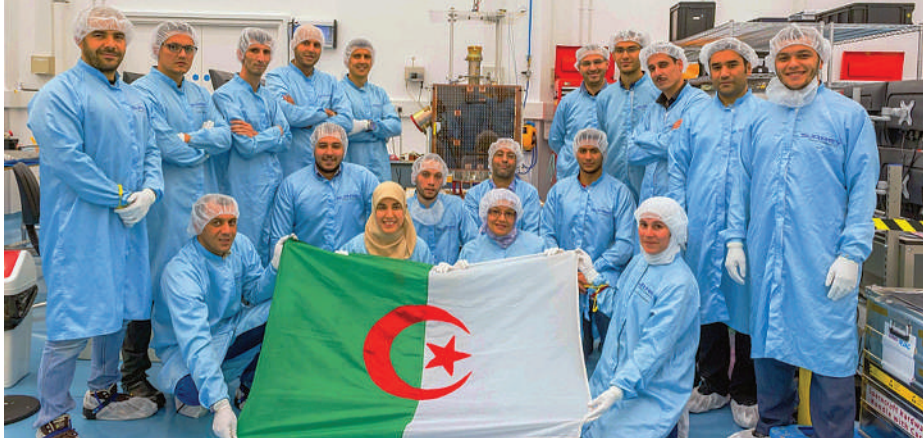
*Performance and coverage availability dependent on user's geographic location, GNSS constellation health, level of multipath and proximity to obstructions such as large trees and buildings.

PSA GROUP PARTNERS WITH MASTERNAUT TO PROVIDE TELEMATICS TO FLEETS OF CONNECTED VEHICLES

The PSA Group and Masternaut have partnered to help businesses run safer, cleaner and more productive fleets. The partnership will see the Masternaut Connect telematics platform become more easily accessible to European Peugeot, Citroën, DS connected cars and light commercial vehicles. Masternaut's services will be available for all PSA Group vehicles through the "Connect Fleet Management" program, using PSA Group telematics technology. Masternaut's services can also be used in fleets comprised of other automotive brands, using Masternaut's nonintrusive, patented CANBus telematics technology. Data from all vehicles is fed back over the air in real-time to the Masternaut Connect online platform. Fleet managers can reduce the total cost of ownership of their fleet through the monitoring of fuel consumption, driver behaviour, emissions or geofencing in a consistent and effective way. www.groupe-psa.com www.masternaut.com

EXPRODAT SOFTWARE REVOLUTIONISES UNCONVENTIONALS PLANNING

Exprodat has released a new version of its Unconventionals Analyst software. The company developed the Unconventionals Analyst extension to ArcGIS Desktop to help oil and gas companies simplify and speed up the processes of optimising unconventional well patterns and managing reserves. Version 222 of Unconventionals Analyst includes a host of new features all of which have been designed to give the user a much greater insight into the efficiency of their field. Supporting the latest versions of Esri's ArcGIS Desktop, the software allows users to create well pads and laterals across sets of contiguous sections; create well sticks from other proposed drill locations; view all results in 3D; and also assess the well sample sizes required to meet sub-Monograph 3 reserve estimation precision. Technical Director for Exprodat, Chris Jepps explains, "Unconventionals Analyst's unique well pattern planning and reserve management algorithms revolutionize many common workflows within the shale oil/gas and CBM domains." www.exprodat.com



SSTL ANNOUNCES THE SUCCESSFUL LAUNCH OF ALSAT-1B

Surrey Satellite Technology Ltd (SSTL) announced the successful launch of **AlSat-1B**, a medium resolution Earth observation satellite for **ASAL**, the Algerian Space Agency. AlSat-1B is a small satellite with a mass of 100kg and was launched into a 670km sun-synchronous orbit on board the PSLV launch vehicle from the Sriharikota launch site in India on 26 September. Following separation from the launch vehicle, SSTL and ASAL are pleased to confirm

successful contact was made with AlSat-1B via SSTL's ground station in Svalbard, and all initial system checks are nominal. A joint team of SSTL and ASAL engineers are undertaking commissioning of the spacecraft from SSTL's Spacecraft Operations Centre in Guildford, UK. After commissioning is complete, daily satellite operations and data downloads will be undertaken from ASAL's Satellite Design Centre at Oran in Algeria. www.sstl.co.uk

MOORSIDE SITE INVESTIGATIONS APPROACH FINAL STAGES

NuGeneration Limited (NuGen) plans to build a nuclear power station of up to 3.8GW* gross capacity at Moorside, close to Sellafield, in West Cumbria. To facilitate the Moorside project, NuGen is undertaking a programme of works and studies to provide information on the Moorside site's characteristics. The objectives are to carry out a geotechnical and geophysical campaign, providing sufficient geological and geotechnical information to inform the detailed design of foundations and ancillary structures and to determine tunnel alignments. Moorside is one of the largest UK site investigations to be let as a single package. Under the contract, **Fugro** is carrying out onshore and offshore site characterisation involving geotechnical,



hydrological, topographical, geophysical and geo-environmental data acquisition. In addition to informing the design and layout of the Moorside site, data will support licensing, planning applications and other consents for the construction of the nuclear power station. www.fugro.com

SLOVENIAN AIRBORNE POLICE JOIN THE BEST EQUIPPED POLICE FORCES IN EUROPE

Airborne Technologies has been awarded the contract to upgrade an EC135 of the **Ministry of Interior** of the **Republic of Slovenia**, with state-of-the-art surveillance technology. This customized solution includes not only a removable tactical workstation, but also a leading-edge **Airborne LINX** package. It also boasts the new enhanced Mission Management Unit control device for all sensors on board. Furthermore the helicopter will feature the new Churchill ATOM Mission Computer, a Wescam MX15Hdi and a Trakka Beam A800 Searchlight. Airborne LINX is a dynamic package that takes into account not only the latest technical developments



but also the customer's requirements. The intention is to keep customers up-to-date and support them as best as possible to carry out their daily work. With this modern surveillance platform Slovenia is ideally prepared to meet the constantly changing future challenges. The helicopter will be delivered this year. www.airbornetechnologies.at