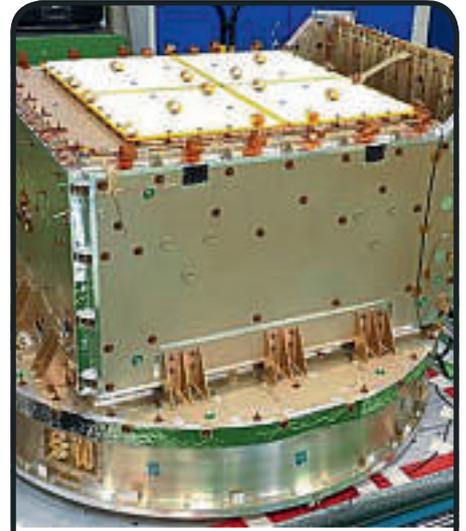


NEWS & EMERGING TECHNOLOGY

FUGRO AWARDED LARGE GEOTECHNICAL INVESTIGATION

Airport Authority Hong Kong (AAHK) has awarded **Fugro** another significant land site investigation contract as part of the HKD 141.5 billion three-runway system (3RS) project for the expansion of Hong Kong International Airport. Fugro will perform geotechnical drilling and cone penetration tests on newly reclaimed land, and provide laboratory testing to acquire

geotechnical data for the new passenger building and related infrastructure. The 3RS project comprises a 650-hectare land formation programme for the construction of a new runway, passenger building and related infrastructure. Upon completion of the 3RS, the airport will be able to serve an additional 30 million passengers annually. www.fugro.com



AIRBUS PRESENTS TECHNOLOGY FOR EUTELSAT QUANTUM

Airbus' **ELSA+** (ELelectronically Steerable Antenna+) is a first for commercial satellite communications in Europe. The versatility of its performance represents a step change for communications satellites with a spacecraft able for the first time to adapt to the customers' business cases as and when needed by means of software control. The electronically steerable reception antenna, works in Ku-band with eight independent reconfigurable beams. This inherent flexibility enables the operator to reconfigure the radio frequency beams over the coverage zone, allowing for an unprecedented flexibility in multimedia and broadcasting services. In addition, these capabilities can be implemented on each beam either independently or simultaneously including hop up to several tens of predefined different configurations per beam (beam hopping). Another new feature is the capability of the antenna to mitigate possible interference, intended or not, thanks to its ability to GEO locate any interference and null them. www.airbus.com

LEICA GEOSYSTEMS LAUNCHES BLK3D WEB, INTEGRATES WITH AUTODESK

Leica Geosystems, part of Hexagon, announced **BLK3D Web**, an online collaboration workflow that extends the **Leica BLK3D imager** by enabling users to share 3D measurable images with anyone, anywhere online. Leica Geosystems announces BLK3D Web, an online collaboration workflow that extends the Leica BLK3D imager by enabling users to share 3D measurable images with anyone, anywhere online, and the integration with **Autodesk BIM 360 Docs**. The BLK3D device allows users to take precise, 3D measurements directly in the images it creates. Now, with a BLK3D Publisher license, those 3D image files can be easily and securely uploaded to the cloud. Once published, the 3D image files can be viewed and measured with BLK3D Web via a shared link, a simple and powerful tool used across major collaboration platforms today. www.leica-geosystems.com



RIEGL INTRODUCES NEW LIDAR INSTRUMENT

The **RIEGL VQ-1560 II** dual channel waveform processing airborne LiDAR scanning system provides further increased performance, based on a laser pulse repetition rate of up to 4MHz, resulting in more than 2.66 million measurements per second on the ground. Offering highly efficient data acquisition at a wide range of point densities, the VQ-1560 II provides mission results with further increased productivity for both high point density mapping and ultra-wide area mapping. www.riegl.com



DON'T MISS THE NATION'S PREMIER GEOSPATIAL INTELLIGENCE EVENT

USGIF
geoint 2020
SYMPOSIUM

April 26-29
Tampa, Florida

NEW DECADE CHALLENGES STRATEGIES



*Learn from 50+
hours of training and
education courses*

*Network with
more than 4,000
geospatial intelligence
professionals*

*Engage with the latest
technology, services,
and solutions from
200+ exhibitors*

GEOINT2020.com

GETMAPPING PARTNERS WITH 3D VISUALISATION TECHNOLOGY PROVIDER

Getmapping has recently signed an agreement with advanced technology company **Euclidean** to distribute their **Holographics** hardware and software in the UK. Euclidean is a pioneer in the field of 3D visualisation technology. As a provider of holographic devices and visualisation experiences, their solutions enable customers to use data in completely new and exciting ways. Euclidean's hardware offering includes a state of the art holographic table, which enables immersive viewing of all types of 3D data. Users can upload scenes derived from Getmapping's aerial and terrestrial survey capture programmes, third party data sources such as cityscapes, as well as objects from scans and CAD models. In addition, real time external data sources, including IoT, can be brought into the scene as animated objects and tracked in real time. www.getmapping.com



SALESFORCE SELECTS ESRI AS KEY GEOSPATIAL PARTNER

Esri announced that **Salesforce** has selected Esri as the key geospatial partner for Salesforce Maps. Salesforce is integrating Esri's **ArcGIS Living Atlas**, the foremost collection of global geographic data and basemaps. Salesforce Maps users will be able to access Esri's **ArcGIS Online**, the leading geospatial cloud, giving businesses the ability to analyze and visualize massive amounts of geographic and demographic data. Salesforce Maps will bring a geographic context to the enterprise for categorizing and understanding the customer and business needs. By integrating demographic, economic, and behavioral data from Esri, businesses can gain unique insight into new market opportunities. www.esri.com

EUROSENSE EXPANDS ITS MAPPING CAPABILITIES

Investing in the **Riegl VQ-1560 II 4MHz LiDAR scanning system** with the **Phase One iXM-RS150F camera** and also in the high-end **Vexcel Imaging UltraCam Eagle Mark 3 large format aerial camera**, **EUROSENSE** made important steps towards increasing its production capacity to serve its clients with the highest quality geodata. Furthermore, EUROSENSE built a new and appropriate IT capacity, and enhanced its streamlined production workflows to seamlessly process the increased amount of data acquired with the new sensors. With the installation of the new sensors on its efficient airplanes, EUROSENSE is in a unique position to offer

very high resolution images and extremely dense LiDAR point cloud data over large areas in a short period of time. www.eurosense.com



OGC ADOPTS TWO DIMENSIONAL TILE MATRIX SET STANDARD

The membership of the Open Geospatial Consortium (OGC) has approved the **Two Dimensional Tile Matrix Set standard** for adoption as an OGC standard. The OGC Two Dimensional Tile Matrix Set standard defines the rules and requirements for a two dimensional tile matrix set as a way to index space using a set of regular grids defining a domain (tile matrix) for a limited list of scales in a Coordinate Reference System (CRS), as defined in OGC Abstract Specification Topic 2: Spatial Referencing by Coordinates. The standard includes the concepts of a tile matrix set and tile matrix set limits as well as their implementation in 2D space and describes an XML and JSON encoding. The standard also contains a new library of eight global tile matrix set definitions that are expected to be widely used, improving easy tile overlay in visualization clients. Used in combination with tile matrix set limits, this reduces the need for user defined tile matrix sets. www.ogc.org

UAVOS AND POLYNESIAN EXPLORATION UP TO CREATING AUTONOMOUS SOLUTION FOR 3D MAPPING

The light unmanned helicopter **UVH -25EL** powered by UAVOS's autopilot is an ideal platform for a long-distance autonomous solution for 3D mapping. The UVH-25EL has increased performance with a carrying capacity, a flying range, and an extended temperature range. Take-off and landing as well as missions are carried out automatically. The **POLYSCANNER** is an integrated payload solution for **Aerial HD Mapping** and **Surveying**. The system features a choice of LiDARs, a global shutter camera and dual frequency RTK GNSS/INS with centimetre-level accuracy, as well as a high level of integration and sensor fusion software. The system is capable of creating accurate colorized 3D models in a point cloud format. www.uavos.com



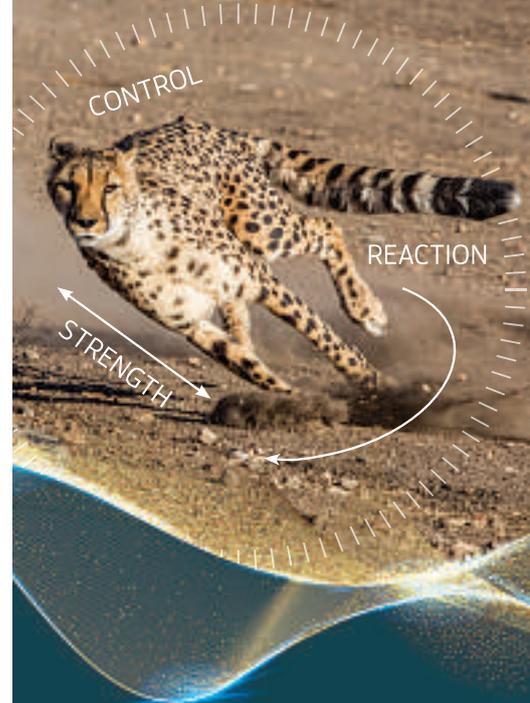
AIRMAP BRINGS UTM SERVICES TO ENTERPRISES WITH DRONE OPERATIONS CENTER

AirMap's Enterprise Operations Management (EOM) Center allows enterprises, in particular those with infrastructure assets such as oil and gas, energy, telecommunication, transportation, and construction companies, to create customized drone operation zones and assign them company-specific geo-spatial and operational rules. Enterprise drone operations managers can then use AirMap's EOM Center to create **airspace zones** and **geo-fences** to map their assets, monitor and authorize enterprise drone operation requests, and track and report missions in real time. The rules they choose to set can range from operational procedures (e.g., 'flights over the refinery require additional clearance from the operations manager on duty') to restrictions ('no flights are allowed over the staff parking lot'). By using the AirMap platform, enterprises can ensure they are in compliance with all public airspace regulations while safely completing their organization's mission.

www.airmap.com

THURAYA'S LANDMARK TRACKING AND MONITORING SOLUTION ENHANCED WITH NEW CAPABILITIES

Thuraya Telecommunications Company, the mobile satellite services subsidiary of the Al Yah Satellite Communications Company (Yahsat), unveiled its highly versatile **T2M-DUAL IoT/M2M** solution with enhanced capabilities. Operating on both satellite M2M and cellular networks, Thuraya T2M-DUAL is the world's only dual-mode tracking and monitoring solution with the widest choice of connectivity over Satellite, including Satellite Messaging, GmPRS IP Data and Circuit Switched 9.6 data. It enables smarter, more streamlined and automated data capture from multiple sources, including fixed and mobile assets. Thuraya T2M-DUAL brings unprecedented ease of integration to applications that are traditionally more complex to monitor and manage. The terminal's robust system and interoperability make it the best-in-class solution for largescale mobile operations in sectors like transportation, government, energy and utilities, agri-tech, hydro environment and mining. www.thuraya.com



Need performance wherever you operate?

MEMS-based motion sensors and systems for precision performance in harsh real-world environments.



Motion Sensing Solved

siliconsensing.com

#motionevolution

Oceanology
International
Stand
A307

SILICON SENSING

SUPERIOR SENSORS



BENTLEY SYSTEMS ACQUIRES CITILABS AND ORBIT GEOSPATIAL TECHNOLOGIES

Bentley Systems announced the acquisitions of global mobility simulation (CUBE) and analytics (Streetlytics) software provider **Citilabs**, and global provider of 3D and mobile mapping software, **Orbit Geospatial Technologies** (Orbit GT). The newly acquired technologies, in conjunction with Bentley's existing design integration and digital cities offerings, enable engineering-based mobility digital twins. Road mobility digital twins converge cities' digital context (including 4D surveying facilitated by Orbit GT for drone- and vehicle-mounted mobile mapping), and digital components (including from Bentley's OpenRoads engineering applications) with CUBE simulations—to model and assure real-world throughput capacity for proposed and existing roadway assets. Streetlytics traffic data will become increasingly available through Bentley's cloud services to calibrate and validate mobility digital twins. www.bentley.com

NEW RELEASE OF ARCFM DESIGNER XI

Schneider Electric announced the release of **ArcFM Designer 11.1.4**. This release is at the forefront of new ArcGIS platform capabilities with its support of the Utility Network, as well as the Utility and Pipeline Data Model (UPDM). ArcFM Designer 11.1.4 is the next generation of Graphic Work Design, providing engineers with a purpose-built application that supports the entire design lifecycle with simplicity, efficiency and intelligence. Release 11.1.4 is the first to support gas networks with functionality that seamlessly adjusts based on the user's design. Users can now efficiently sketch new gas assets, abandon existing assets, generate material lists and update the GIS with new design information without needing to redraw. www.se.com



UNESCO WORLD HERITAGE SITES' VERIFIED PHOTOMONTAGES

Verified photomontage is an important planning tool to envision how proposed surrounding development plans would affect **UNESCO World heritage sites**. Verified photomontage demands the best accuracy for the best visualization to determine what a development may look like to a person standing at the photographic viewpoint. For **MS Environmental (MSE)**, selected to provide verified photomontage for multiple UNESCO World Heritage sites, including in the UK Royal Botanical Gardens at Kew and the City of Bath, the **Spectra Geospatial SP80 GNSS receiver** has emerged as the receiver of choice to achieve the highest quality visualization. www.spectrageospatial.com

BLUESKY LAUNCHES METROVISTA 3D CITY MAPPING SERVICE IN US

SimActive, Aerial mapping company **Bluesky International** has launched a new **3D data capture programme** in the US. The MetroVista product suite sees high resolution imagery, both vertical and oblique, captured simultaneously with high accuracy, wide scale 3D data using an advanced **Leica camera**. Described as the world's first hybrid sensor, Bluesky has been operating the **Leica CityMapper camera** commercially for two flying seasons in Europe. Bluesky was the first aerial survey operator in Europe to deploy the new camera and has already captured MetroVista data for cities across the UK including London, Manchester, Newcastle and Bristol. The CityMapper sensor will be based at Bluesky's American headquarters in North Adams, Massachusetts and will be available for deployment across the north eastern United States. www.bluesky-world.com



GERMAN FEDERAL FOREIGN OFFICE AND MAPACTION PARTNER

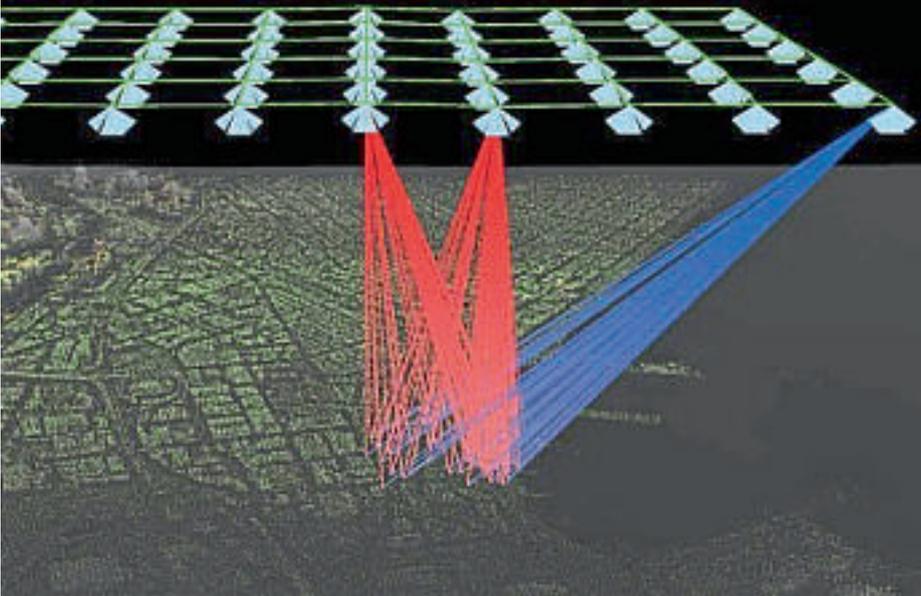
Humanitarian mapping and information management charity **MapAction** and the **German Federal Foreign Office** have formed a new partnership to help improve the use of technology and data in humanitarian decision making. As part of the broad-ranging programme, MapAction is working on greatly reducing the time and effort required to create maps and data products needed in many emergencies, by automating repeat processes. It is also extending its capacity to have specialist personnel in emergency situations for longer periods to support information management and decision-making processes, and placing a data scientist in the **Centre for Humanitarian Data** in The Hague to facilitate knowledge sharing. www.mapaction.org

CESIUM AND UBER OPEN-SOURCE COLLABORATION

A new open-source initiative by **Cesium**, a provider of streaming 3D geospatial technology will address the need to visualize, analyse, and share the world's vast and ever-growing collection of **3D geospatial data**. Engineering teams from Cesium are working with **Uber** to add support for 3D Tiles to loaders.gl and deck.gl, two of Uber's **open source geospatial visualization frameworks**. Support for 3D Tiles, an open-standard format originally created by Cesium, will enable deck.gl and engines like it to stream city-level, massive 3D geospatial datasets and point clouds in real-time on any platform. The collaboration with Cesium supports **Uber Air**, Uber's aerial ridesharing initiative. The implementation of the 3D Tiles feature allows Uber to achieve an unprecedented level of geospatial detail within urban environments. www.cesium.com

VEXCEL RELEASES ULTRAMAP V4.5

Vexcel Imaging announced the release of its **UltraMap photogrammetric workflow software version 4.5**. With the introduction of **oblique AT**, a new **camera modeling procedure** and a custom-developed **earth curvature correction**, the UltraMap team realizes its vision of optimal aerial geometry. The new release includes substantially improved tie points for obliques and a full photogrammetric bundle adjustment for all viewing directions through targeted use of selected nadir and oblique images for AT. This also allows for a more robust treatment of specific cases such as missing tie points in nadir. Additionally, the newly introduced Accurate Camera Modeling (ACM), based upon the Temperature Dependent Modeling (TDM), further improves the geometry for all 3rd generation UltraCam systems. Another step leading to optimal geometry is the implementation of a refined process for earth curvature corrections with a significantly positive effect on oblique image accuracy. Finally, UltraMap 4.5 comes with a new option for tie point thinning allowing for the reduction of tie points. www.vexcel-imaging.com



GEOSEER RELEASES LICENSED DATABASE OF SPATIAL WEB SERVICES

GeoSeer unveiled a licensed version of the database that sits behind their search engine. The licensed content allows organisations and businesses to integrate GeoSeer's database of spatial web services directly into their own applications, products, or services. This can improve end-user workflows, make discovery of third-party data and services much easier, and help organisations realise some of vast economic benefits Open Data presents. GeoSeer is a search engine for spatial web services, with over 1.9 million datasets from more 210,000 public web services hosted across 92 countries. GeoSeer Licensed complements the **GeoSeer API** by providing an in-house option for organisations seeking to build on the GeoSeer database. The two GeoSeer Licensed products provide a database of current, extracted, pre-cleaned, and pre-processed service and dataset metadata in a single convenient, regularly updated package. www.geoseer.net

NEW HYPERSPECTRAL REMOTE-SENSING CENTRE IN EUROPE

Headwall BVBA, Belgium and **geo-konzept** of Germany announced the formation of a **Center for Hyperspectral Remote Sensing Europe (CHRSE)**. The Headwall CHRSE will be located at geo-konzept's headquarters in Adelschlag, Germany. The new centre will support the implementation and utilization of hyperspectral imaging technology combined with other sensor technology such as LiDAR and high-precision GPS focusing on agriculture, mining, environmental monitoring and infrastructure inspection applications. The facility features large areas for unmanned drone flights and certified unmanned aerial vehicle (UAV) pilots available to test and demonstrate hyperspectral imaging technology in application-specific environments and to train the next generation of UAV operators. The centre also offers indoor meeting areas to develop applications together with researchers and users and to train data analysts utilizing hyperspectral imaging technology to come to better, fact-based decisions to manage their applications. www.headwallphotonics.com



UNDERGROUND INFRASTRUCTURE MAPPING SOLUTION FOR COLLECTOR FOR ARCGIS

Eos Positioning Systems (Eos), manufacturer of high-accuracy Arrow GNSS receivers — announced the release of its highly anticipated underground utility asset-mapping solution: **Eos Locate for Collector** for ArcGIS. Eos Locate for Collector combines three core technologies: **Eos Arrow GNSS receivers**, **Esri Collector**, and the **Vivax-Metrotech vLoc Series** of locator devices. With Eos Locate for Collector, one field worker can collect both GNSS locations and locator data (e.g., depth below cover) for any buried asset including water, sewer, electric, cable, gas, fiber infrastructure and more. They can do so quickly, accurately and without the need for any additional field or office support. Eos Locate for Collector not only streamlines underground-asset mapping, but also improves office production times. It eliminates the need to manually combine datasets from the locator and GPS devices within ArcGIS. www.eos-gnss.com



CHC NAVIGATION INTRODUCES NEW GNSS RTK TABLET

CHC Navigation announced the availability of the **LT700H RTK Android tablet** designed to increase efficiency and productivity of mobile field workforce in any applications requiring centimetre to decimetre positioning accuracy. Portable, rugged and versatile, the LT700H enables precision GIS data collection, forensic mapping, construction site layout, environmental surveys, landscaping and earthmoving jobs. Powered by 184-channel high performance GPS, Glonass, Galileo and BeiDou module and superior tracking GNSS helical antenna, the LT700H provides best in class position availability in demanding environments. Its integrated 4G modem ensures seamless communication from field-to-office and robust connectivity to GNSS RTK networks corrections. Combined with CHCNAV Landstar 7 field data collection software, the LT700H vibrant 8" IPS sunlight-viewable screen perfectly displays any GIS data tables, vector and raster maps or high-resolution pictures. The LT700H Google GMS certification guarantees compatibility with any common GIS and mapping Android applications. www.chcnav.com

BRINGING UNMATCHED PRECISION AND POSITIONING TO AGRICULTURE MARKET

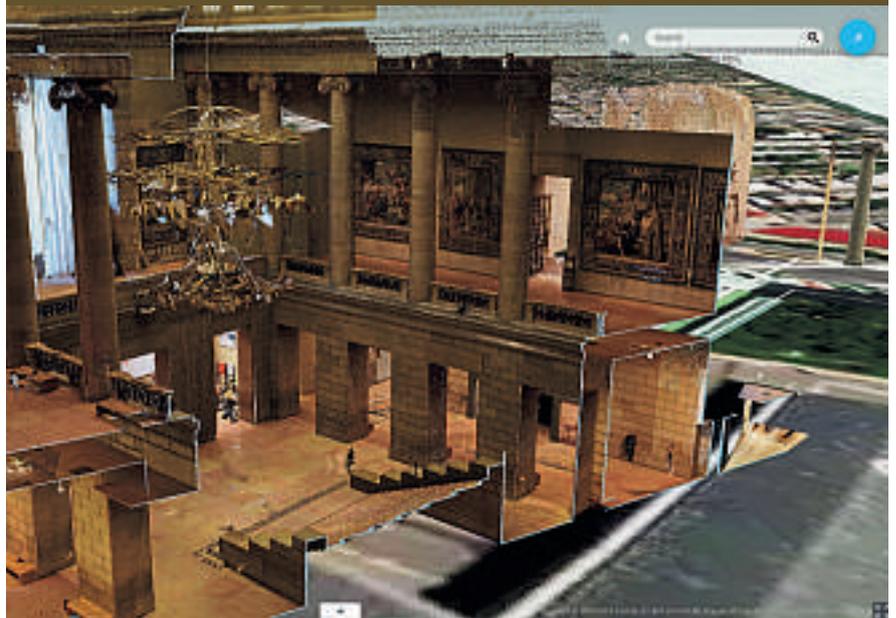
Hemisphere GNSS recently debuted its all-new **Phantom** and **Vega positioning and heading OEM boards** powered by next-generation Lyra II digital ASIC, Aquila wideband RF ASIC, and Cygnus interference mitigation technology platforms for the global agriculture market. Delivering multi-frequency, multi-GNSS signal support and tracking for every available constellation, the Phantom and Vega series offer flexible and scalable accuracy and reliability for a wide array of demanding precision agriculture applications.

The Lyra II digital ASIC and Aquila wideband RF ASIC designs improve performance and track over 800 channels for position-only (Phantom series boards) and over 1,100 channels for position and heading (Vega series boards). This new ASIC technology provides access to every modern and planned GNSS constellation and signal, including GPS, GLONASS, Galileo, BeiDou, QZSS, IRNSS, SBAS, and Hemisphere's Atlas L-band correction service. Signal support and tracking for L5, AltBOC and BS-ACEBOC, BeiDou phase 2 and 3, and QZSS/L6 (L6-D and L6-E) are also available.

www.hgnss.com

TRIMBLE CLARITY NOW OFFERED AS WEB APPLICATION

Trimble announced that **Trimble Clarity** is available as a stand-alone web application that simplifies the visualization and navigation of **3D data**. With this major update, Trimble Clarity enables geospatial professionals to view, use and share 3D point cloud data, models and meshes with engineers, architects, city planners and other project stakeholders via a web browser, which can be viewed on desktop and mobile devices. The ability to easily use and share 3D data with clients or project stakeholders extends the value of rich 3D data, promotes services and generates new revenue streams. Users can generate private or public web links to share project information, providing secure control over access to the data. www.trimble.com



BLUE MARINE FOUNDATION'S "BIG MARINE DATA PROJECT"

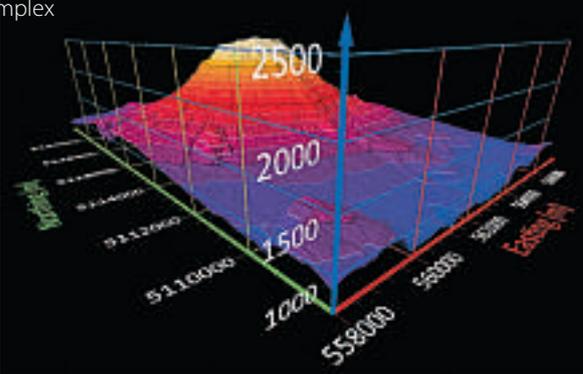
The **Blue Marine Foundation**, a charity dedicated to creating marine reserves and establishing sustainable models of fishing, has completed a "Big Data" project which sought to investigate how data can be used to support safety in inshore waters. The focus of the project "has been the current lack of collated and integrated data to effectively inform safety and risk at the coast and inshore waters". **OceanWise**, who are marine data experts and provide a range of intelligent marine data (mapping) products have provided the mapping data for situational awareness and to allow multiple sources of data to be integrated using location as the common link. The assembly of disparate datasets into a 'spatial data infrastructure' will inform safety and risk assessments and allow preventative measures to be established and resources used in emergency response to be more effective.

www.oceanwise.eu



GOLDEN SOFTWARE STREAMLINES GRIDDING FUNCTIONALITY IN SURFER

Golden Software, a developer of affordable 2D and 3D scientific modelling packages, has enhanced Gridding and other key workflows in the latest release of its Surfer software. Used by 100,000 clients worldwide, Surfer is a **gridding, contouring and 3D surface mapping application** used in environmental consulting, mining, oil & gas exploration and extraction, engineering, geospatial applications, and applied science. Surfer has been relied upon for more than 30 years by geologists, environmental consultants, geospatial professionals, and many other scientists to easily visualize and interpret complex data sets. Known for its fast and powerful contouring algorithms that regularly outperform more expensive packages, Surfer enables users to model data sets, apply an array of advanced analytics tools, and graphically communicate the results in ways anyone can understand. www.goldensoftware.com

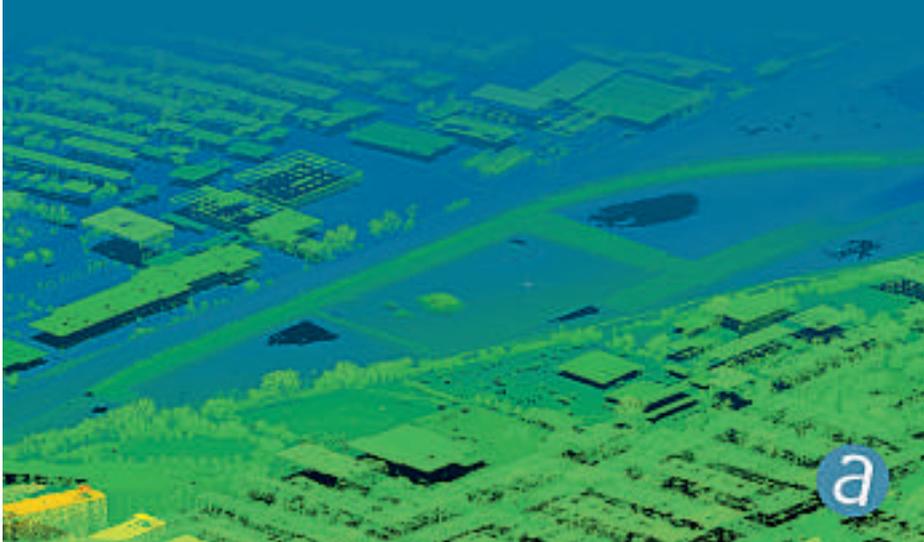


PARROT ANNOUNCES NEW SDK PARTNER PROGRAM

Parrot, the European drone group, announces a new way to work with enterprise partners. Its new **SDK Partner program** expands its offerings to help both enterprise and start-ups create new applications, software and hardware to seamlessly integrate with **Parrot ANAFI** and **ANAFI Thermal** drones. Parrot's SDK program currently allows developers to create their own iOS and Android applications and service programs for ANAFI and ANAFI Thermal drones. Now, industry partners will gain access to both hardware and software support, along with go-to-market strategy support to business partners across the globe. As the drone industry landscape continues to change rapidly, Parrot's SDK Partner Program seeks to support the development of an ecosystem of solutions specifically developed for the unique needs of Parrot's professional users in first response. www.developer.parrot.com

SIMACTIVE INTRODUCES NEW LIDAR WORKFLOW

SimActive, a developer of photogrammetry software, announces a new **LiDAR workflow** integrated in its **Correlator3D** product. The capability allows to import a point cloud in the software and to perform registration with an image dataset. Using LiDAR as control eliminates the need for traditional ground control points (GCPs) when processing the photos. The registration occurs during aerial triangulation, leading to a precise alignment of imagery with the LiDAR data. Following this, Correlator3D can output colored point clouds as well as seamless orthomosaics. www.simactive.com



SUCCESSFULLY COMPLETED TESTS OF PIONEERING SATELLITE IOT TECHNOLOGY

Thuraya, the mobile satellite services subsidiary of the Al Yah Satellite Communications Company (Yahsat), the UAE-based global satellite operator, and **eSAT Global**, a pioneer in low cost Satellite IoT connectivity, announced the completion of successful tests validating eSAT's revolutionary **Global LPWAN (Low Power Wide Area Network) communications technology** over Thuraya's satellite system. As a provider of mobile satellite services (MSS) over its geostationary (GEO) satellites, Thuraya offers an expanding range of compelling voice, broadband data, and M2M/IoT capabilities for land, maritime and aeronautical applications. To date, only modest consideration has been given to the use of direct links to GEO MSS satellites for LPWAN connectivity for Internet of Things (IoT) applications. eSAT's tests of its breakthrough technology over Thuraya's robust GEO MSS system reveal that this approach is practical as well as highly advantageous, and that low latency, low-cost LPWAN connectivity is about to become a reality with the use of Thuraya's cutting-edge technology. www.thuraya.com

SEPTENTRIO PPK GETS A BOOST WITH BASEFINDER

Septentrio has released a key upgrade for their **GPS post-processing software**. Both GeoTagZ and PP-SDK now feature **BaseFinder**, a tool that speeds up survey workflow by automatically finding reference data needed for augmenting GNSS logs with sub-centimetre accuracy. BaseFinder accesses an online database of reference networks and extracts the most suitable corrections available. BaseFinder is available via an App or via an API and can be incorporated into any existing software. The new release of this GNSS post-processing software also includes **two additional GNSS constellations**: European Galileo and Chinese BeiDou. Having access to all the signals from all GNSS constellations improves reference network compatibility. It also improves positioning availability in difficult environments. This is particularly important when working in areas of low satellite visibility such as near tall structures or under foliage. www.septentrio.com

DIGEPLAN INTEGRATES ELECTRONIC PLAN REVIEW TO CITYWORKS PLATFORM

DigEplan, an integrated electronic plan review solution, and GIS-centric public asset management solution firm, **Cityworks** have worked to combine platforms, bringing Cityworks customers the powerful functionality of an integrated tool for electronic plan review. Cityworks is a powerful, flexible and **affordable GIS-centric public asset management solution** for local government and utility agencies. Supporting more than 700 organizations in the USA and globally, Cityworks enables public sector departments to work smarter. DigEplan is fully integrated into the Cityworks platform. This enables planning and building departments to eradicate paper, enhance collaboration, and streamline the plan review processes directly from Cityworks screens and workflows. www.digeplan.com



COSTAIN AND CREATEC DEVELOP NUCLEAR DECOMMISSIONING TECHNOLOGY

Collaborative efforts between smart infrastructure solutions company **Costain** and technology researchers **Createc** have resulted in innovative measurement technology for analysing radiation in contaminated structures, a move which could revolutionise nuclear decommissioning. During decommissioning of concrete structures, operators need to be able to work out accurately and rapidly exactly where the waste classification boundary sits in order to devise a decommissioning strategy to minimise the volume of waste. The **D:EEP (Estimating Entrained Product)** development programme enables clients to measure radioactive contaminants within concrete structures, allowing operators to understand what depth they need to go to remove any contamination, improving safety and accuracy as well as saving considerable time and money. Using a combination of modelling and spectral analysis techniques D:EEP is a flexible system designed to give the nuclear industry the capability to overcome these challenges and provide intelligence led decisions, removing risk. www.costain.com

BIRD AEROSYSTEMS UNVEIL THE AEROSHIELD(M)

BIRD Aerosystems, developer of Airborne Missile Protection Systems (AMPS) and Special Mission Aircraft Solutions (ASIO), introduces the **AeroShield(M)**: a compact version of its combat-proven all-in-one AeroShield pod. Equipped with BIRD's field-proven AMPS solution, AeroShield is an all-in-one Pod solution for protection of narrow and wide-body aircraft. The AeroShield pod offers the most comprehensive anti-missile protection by uniquely using both BIRD's SPREOS DIRCM and Flares and enabling customers to fly fully protected in the most challenging theaters. AeroShield(M) is a compact and lightweight version of the AeroShield Pod. AeroShield(M) is tailored to support the installation of BIRD's AMPS on medium size VIP jets such as the Falcon and Gulfstream. Easily installed, the compact AeroShield(M) POD integrates Missile Launch Detection Sensors (MILDS) and Flare Dispensers, and can incorporate either the MACS sensor or SPREOS DIRCM – according to the specific needs of each customer. www.birdaero.com



POINTFUSE AND U.S. CAD ANNOUNCE PARTNERSHIP

Pointfuse has signed a reseller agreement with one of the largest Autodesk and Leica Geosystems distributors in the US. California-based **U.S. CAD** is an AEC technology consultant with twenty years' experience in combining BIM content creation and 3D modelling with application development and configuration services. The addition of Pointfuse advanced point cloud processing software to U.S. CAD's product portfolio will release the power of laser scanning and photogrammetry for a range of digital construction, facilities management and virtual design workflows. Pointfuse software converts the millions of individual measurements captured by laser scanning and photogrammetry into useable 3D mesh models. The unique ability to classify objects within Pointfuse, both automatically and manually, has already had a huge impact on how as-built data is used within design and construction workflows. www.pointfuse.com

