

NEWS & EMERGING TECHNOLOGY

SENSEFLY DRONES HELP MONITOR LAKE WINNIPEG ICE HAZARDS

senseFly fixed-wing drones have been used to track and monitor the formation of lake ice hazards on Lake Winnipeg by **NextGen Environment Research**, a Canadian company based in Winnipeg. The project, conducted as part of the **Canadian Space Agencies Earth Observation Applications Development Program** (EODAP), aimed to identify and monitor the levels of lake ice and detect cracks and pressure ridges to raise awareness among local communities and first responders about the risks of lake ice travel. With studies projecting a reduction in lake ice mass over the coming years, ice safety is becoming a critical consideration for many populations who use the lakes to travel for commercial and leisure activities. The onset of melting ice – which begins in spring – is a critical time for monitoring ice, as it can result in pressure ridges, leads and cracks appearing and expose open water. www.sensefly.com

ESRI ACQUIRES NFRAMES TO ENHANCE ITS 3D CAPABILITIES

Esri, the global provider of location intelligence, announced the acquisition of nFrames, a technology company that develops **SURE**, an imagery and lidar 3D surface reconstruction software. This will enable the fusion of **imagery** with **3D GIS**, allowing nFrames and Esri users to seamlessly capture and analyse 3D data from aerial, drone, and ground-based sensors in an automated end-to-end process. SURE scales 3D data creation to large city and countrywide **airborne image datasets and projects** while giving professional photogrammetry workflows improved precision, speed, and simplicity on premises or in the cloud. Through this acquisition, Esri gains a robust production engine that transforms imagery and lidar data into point clouds, photo-textured 3D meshes, and true orthos. www.esri.com



SCHNEIDER DIGITAL'S 3D PLURAVIEW STEREO MONITOR

There is an increasing demand for improved, high-quality stereo visualization solutions in the growing professional 3D / VR market. The 3D PluraView from Schneider Digital is the **passive 3D-stereo system** with the highest user satisfaction and acceptance of all 3D display systems currently on the market. Launched in 2016, the PluraView monitors have quickly established themselves as the 3D stereo reference with up to 4K resolution, 10-bit color and screen diagonals up to 28". The PluraView 3D-stereo monitor is ideal for all **stereo software applications**, covering a wide range of industries: GIS, mapping, photogrammetry, oil & gas prospecting, molecular research and design, CGI / 3D video editing, CAD & mechanical engineering, crystallography / biochemistry, laser scanning and industrial measuring, simulation & VR training, 3D city model visualization, archaeology, but also Computer Tomography (CT) and Magnetic Resonance Imaging for surgical planning and medical training. www.3d-pluraview.com

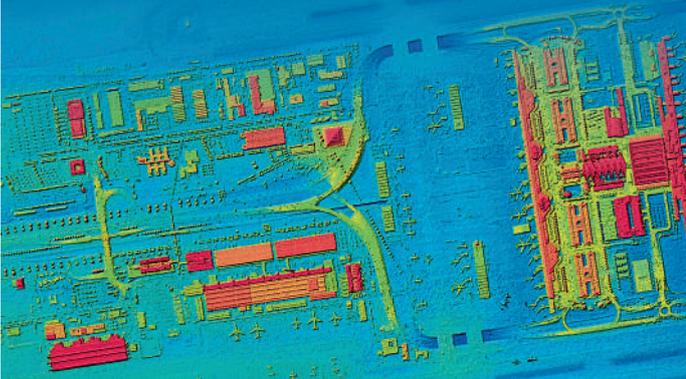
GMV ANNOUNCES THE MERGER OF ITS UK COMPANY AND NSL

GMV Innovating Solutions Limited, the UK aerospace company belonging to the Spanish technology multinational **GMV**, has signed a merger agreement with **Nottingham Scientific Limited** (NSL). GMV trades in the aerospace, defence, ICT and intelligent-transportation-systems markets while NSL is UK leader in **satellite navigation** and **critical applications**. After the agreement GMV becomes sole shareholder of NSL and sets up the company GMV NSL, to be integrated seamlessly into GMV's set of companies. Back in 2013, as part of its international expansion, GMV rolled out a business development strategy in the UK. This involved setting up a new company, which came on stream in late 2014 to join the suite of companies and offices in Spain, USA, Germany, France, Poland, Portugal, Romania, The Netherlands, Malaysia and Colombia. www.gmv.com



FIRST HIGH-RESOLUTION, HOMOGENEOUS DIGITAL SURFACE MODEL (DSM) FOR GERMANY

Hexagon's Geosystems division announced that it has been awarded a contract by the German Federal Agency for Cartography and Geodesy (BKG) to provide a homogeneous, comprehensive digital surface model (DSM) for Germany. The data is provided via the **HxGN Content Program**, a licensed, high-quality geospatial data service from Hexagon. The program was launched in 2014 and is currently available in Europe and North America. The BKG has **data sets with general height information** of the Earth's surface across its entire federal territory. However, these can vary from state to state because they are generated from different source data. An up-to-date, **homogeneous and high-resolution DSM** is required by organizations operating across state borders, such as the Federal Agency for Technical Relief (THW), the German Air Traffic Control, the German Armed Forces Geoinformation Centre and the Federal Office of Civil Protection and Disaster Assistance. www.hexagon.com



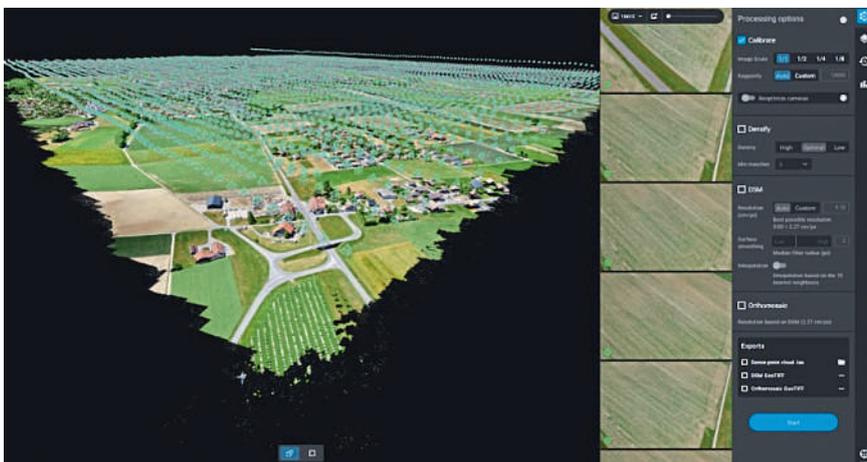
SPACE FLIGHT LABORATORY ANNOUNCES LAUNCH OF ATMOSPHERIC MONITORING AND EARTH OBSERVATION MICROSATELLITES

Space Flight Laboratory (SFL), a developer of 52 distinct microspace missions, announced the successful launch and deployment of the **GHGSat-C1 greenhouse gas monitoring microsatellite** and the Slovenian **NEMO-HD Earth observation microsatellite**. SFL developed the small satellites at its facility in Toronto. Both satellites were in contact with ground control within hours of their launch on September 2, 2020, aboard an Arianespace Vega rocket from the Guiana Space Center in French Guiana, South America. The satellites are healthy and operating as planned. Established at the **University of Toronto Institute for Aerospace Studies (UTIAS)** in 1998, SFL has developed CubeSats, nanosatellites, and microsatellites that have achieved more than 126 cumulative years of operation in orbit. These microspace missions have included SFL's trusted attitude control and, in some cases, formation-flying capabilities. Other core SFL-developed components include modular (scalable) power systems, onboard radios, flight computers, and control software. www.utias-sfl.net



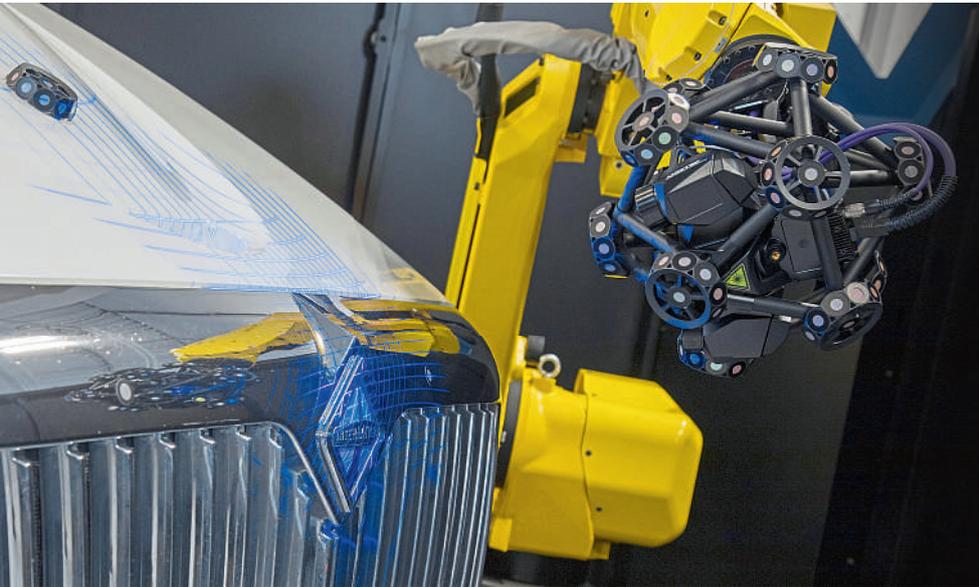
PIX4D ANNOUNCES PIX4DMATIC

Pix4Dmatic has been created to suit an evolving demand as professionals map bigger and bigger areas around the world. Projects that would have previously been mapped by aircraft are now being surveyed with drones. With Pix4Dmatic, these expert projects are made possible and easier. Drone flights beyond the visual line of sight (BVLOS), when permitted by law, are often considered the **next frontier** of drone mapping. Pix4Dmatic now offers support also for the large datasets resulting from multiple flights by easily processing over **10,000 images** without compromising the results' accuracy. This software will potentially open the door to a new era of drone mapping. **Digital photogrammetry** has become an **essential part** of every modern surveyors' toolkit and has inspired hundreds of new drone mapping businesses around the world. Pix4Dmatic is now unlocking another scale in digital photogrammetry by making the processing faster and the experience more intuitive. www.pix4d.com



TELEDYNE DALSA RELEASES POWERFUL SUITE OF IMAGE PROCESSING AND ARTIFICIAL INTELLIGENCE SOFTWARE

Teledyne DALSA, a Teledyne Technologies company and global provider of machine vision, announced SperaTM Vision Software Edition 2020-09 is now available. The latest Spera Vision Software suite includes **Spera Processing** and the new **Astrocyte** graphical application for artificial intelligence (AI). The software suite offers field-proven image processing and artificial intelligence functions to design, develop and deploy high-performance machine vision applications. This latest version of Spera Vision Software includes AstrocyteTM 1.0, a new **AI-based graphical application** dedicated to training neural networks on 2D images for a wide range of applications. Through its highly flexible graphical user interface, users can train neural networks to perform classification, object detection, segmentation and noise reduction on existing images. Astrocyte can then export models to Spera Processing for integration into a final application. www.teledynedalsa.com

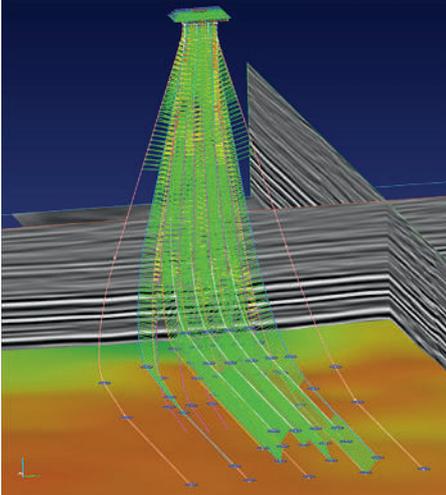


CREAFORM ANNOUNCES NEW AND COMPLETE R-SERIES SUITE OF AUTOMATED DIMENSIONAL QUALITY CONTROL SOLUTIONS

Creaform, a worldwide provider 3D measurement solutions, announced the latest release in its R-Series lineup, including the new **MetraSCAN-R BLACK|Elite** as well as the addition of four different models in the **CUBE-R 3D scanning measuring machine**. Creaform also launched the brand-new **VXscan-R digital twin environment software module**, which completes the company's turnkey automated quality control solution suite. www.creaform3d.com

CGG GEOSOFTWARE LAUNCHES INTERACTIVE WELL PATH PLANNING TECHNOLOGY

CGG GeoSoftware has launched WellPath, a new interactive 3D well path planning solution for optimal well planning in unconventional and fractured reservoirs and offshore development platforms, as part of its **InsightEarth 3D** visualization and interpretation software suite. **WellPath** shows the complexity of the subsurface drilling environment in 3D so that drillers can quickly plan and QC **horizontal wells** on high-density, multi-lateral pads or large offshore platforms. Drilling engineers now have the power to perform interactive directional well path planning while adhering to the constraints of geological targets and engineering design. Drillers can optimize plans based on fractures, facies, geobodies, and reservoir attributes while avoiding hazards, legacy wells, and recent completions prevalent in certain areas, such as the Permian Basin of west Texas. www.cgg.com



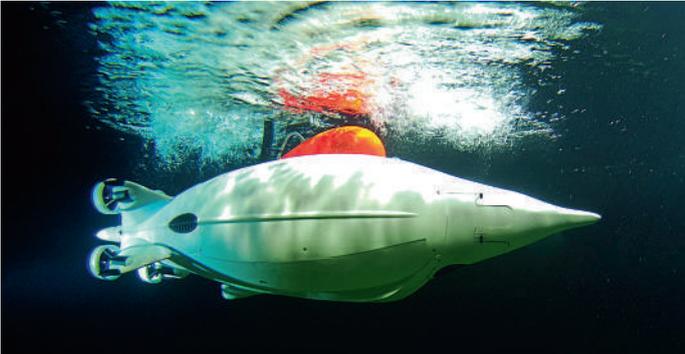
IXBLUE BUILDS CAPACITY FOR SIMULTANEOUS OPERATIONS ON EITHER SIDE OF THE TASMAN

iXblue announced the award of two significant hydrographic charting projects this month. The projects were awarded by the **Australian Government Department of Defence and Land Information New Zealand (LINZ)** under their respective annual survey and charting programs. Despite the challenges posed by the COVID19 pandemic this year, iXblue will be exercising new in-house capabilities to undertake both major projects simultaneously. The LINZ project, part of iXblue's program on the **Hydrographic Suppliers Panel**, will see nearly 2,000 linear nautical miles of high resolution bathymetry data collected in coastal waters off the Coromandel Peninsula – a highly trafficked waterway on the east coast of the North Island. To complete this project, iXblue will employ a 32-metre mothership and the 8-metre DriX – iXblue's specialist Uncrewed Surface Vessel (USV). www.ixblue.com



EAST VIEW GEOSPATIAL PARTNERS WITH ALLSOURCE ANALYSIS

East View Geospatial (EVG) and AllSource Analysis have established a new partnership to bring forward authoritative geospatial intelligence and analytical products. AllSource Analysis is a provider of geospatial intelligence with a worldwide network of expert analysts and access to the most cutting-edge tools and technologies. This partnership combines EVG's **unparalleled data sourcing** and production capabilities with the finished **geospatial intelligence expertise** of AllSource Analysis, enabling clients to make informed decisions with the utmost confidence. With this new partnership, East View Geospatial is able to offer a **full suite of new geospatial intelligence solutions** including but not limited to descriptive and predictive imagery analysis, GEOINT/IMINT reports, country or regional-based foundational inventory of key assets and locations, and automated validation and support. www.geospatial.com

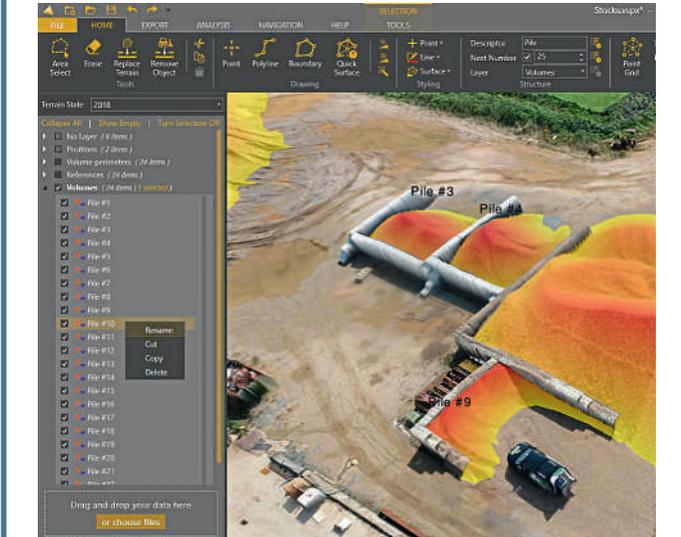


EVOLOGICS PRESENTED THE NEW PINGGUIN AUV

EvoLogics presented the PingGuin, an autonomous underwater vehicle with low-drag bionic design. The vehicle was developed as part of the MUM (“Modifiable Underwater Mothership”) collaborative R&D project and was first demonstrated in Kiel, Germany, in June 2020. Outstanding hydrodynamic properties of a penguin’s body became the starting point for the AUV design within the NavimUM subproject, assigned to EvoLogics. One of the EvoLogics co-founders, **Dr. Rudolph Bannasch** studied Adélie penguins and the effectiveness of their locomotion since the 80s, undertaking several field trips to the Antarctic and performing numerous **wind tunnel and water tank experiments** in Berlin. This research demonstrated that spindle-shaped flow bodies, modelled after penguins, achieve ultra-low drag coefficients in the water. www.evologics.de

VIRTUAL SURVEYOR OFFERS ENHANCED FUNCTIONALITY IN FREE VERSION OF DRONE SURVEYING SOFTWARE

In release 7.4, Virtual Surveyor has added new functionality to the free pricing level of its popular drone surveying software. The “Valley” plan of Virtual Surveyor now allows users to create **engineering CAD models** from drone orthophotos and/or LiDAR data sets. Available under three pricing plans, the Virtual Surveyor software enables surveyors to derive **topographic information** from drone data that engineers need for construction, mining, and other excavation projects. The software has become popular among **surveyors and engineers** because its tools allow them to work effectively with **drone data**. Virtual Surveyor generates an interactive onscreen environment where the surveyor selects survey points and breaklines to create a highly accurate lightweight CAD model for further use in engineering design packages. www.virtual-surveyor.com



PHASEONE

Large Format Aerial Imaging

Phase One 280MP Aerial Camera Solution



Outstanding Productivity and Affordability

- Large coverage with **image width over 20,000 pixels**
- Decreases time to final deliverable
- Reduces number of exposures & flight lines needed
- **High** image capture rate
- Compact & lightweight system
- **Wide Dynamic Range of 83dB** – ability to work in challenging low light conditions
- **Higher ROI** compared with other large format systems

New

Navigate through our new case studies interactive portal and read amazing stories!



ROADCLOUD TO OFFER PREMIUM ROAD DATA ON THE HERE MARKETPLACE

RoadCloud, the connected vehicle data platform that provides real-time information for transportation services and systems, and HERE Technologies, a location data and technology platform, announced that they have teamed up to make RoadCloud **road friction estimates**, **road condition data** and **weather data** available via the HERE Marketplace. As a global location data exchange hub, the HERE Marketplace enables RoadCloud to benefit from its global reach across industries and ecosystems and help the company to broaden its total addressable market and revenue opportunities. By equipping commercial vehicle fleets with **high-fidelity sensors**, RoadCloud continuously collects high quality data on the state of the entire road network, including road pavement quality, black ice and potential aquaplaning scenarios. www.here.com

GLOBALSTAR SATELLITE IOT DEVICE DEPLOYMENTS FOR RELIEF AGENCIES DOUBLE IN 12 MONTHS FOR SPECIALIST RESELLER TRAKSAT

Globalstar Europe Satellite Services Ltd, announces that specialist Value Added Reseller, Traksat, has deployed over **1,200 Globalstar-enabled safety and tracking devices** for humanitarian organisations internationally. Prominent NGO Humanity & Inclusion (HI) is deploying **SPOT Gen3 satellite messengers** and **SmartOne Solar IoT tracking devices** to protect relief workers and support operations in several African nations, as well as in South America. International Rescue Committee, rescue.org, headquartered in New York, uses SPOT Gen3s in numerous African countries to safeguard and track relief workers. ACTED is similarly using SPOT Gen3s in Niger. Traksat reports dramatic uptake of its NGO-centric solution with Globalstar technology as its backbone. The number of Traksat-provided Globalstar devices being used to support humanitarian efforts has doubled in the last 12 months. www.globalstar.com



COVID-19: E-GEOS (TELESPAZIO/ASI) WILL DEVELOP A SOLUTION TO MONITOR THE ECONOMIC RECOVERY

e-GEOS, an ASI (20%) / Telespazio (80%) company, has signed a contract with the European Space Agency (ESA) for the development of a solution capable of integrating and analysing large amounts of both satellite and non-satellite data, to help **monitor the economic recovery** after the COVID-19 outbreak, in particular in the **port, logistics and freight transport sectors**. The project, called "COVID-19 economic impact assessment from Space in Italian Ports and Logistic Centres - Enabling Industry Growth", will be funded in the context of the permanent ESA call "EO Science for Society", aimed at supporting solutions and services using **Earth Observation data** for the benefit of citizens. e-GEOS will lead a team composed of the start-up CherryData, spinoff of the Politecnico di Milano, and the company ExpertLAB, headquartered in Rome. www.e-geos.it

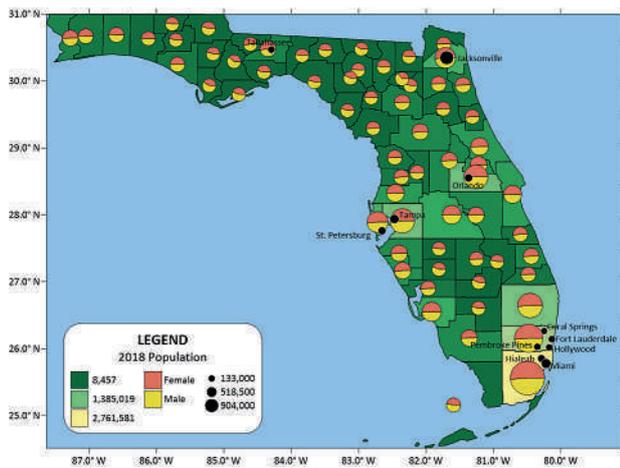
EXACTEARTH ANNOUNCES SUCCESSFUL LAUNCH OF THE ESAIL MICROSATELLITE

exactEarth, a provider of Satellite-AIS data services, announces the successful launch of the ESAIL microsatellite. Developed under ESA's ARTES Partnership Project for global ship tracking, the ESAIL satellite was launched September 3rd onboard the **Arianespace Vega (VV16) flight**, from Europe's spaceport in Kourou, French Guiana. The satellite will undergo commissioning testing over the next few months and then will be brought into service to provide advanced high-performance vessel detection and tracking capability as part of **exactEarth's global constellation** of more than 70 high performance automatic identification system (AIS) satellites providing **real time monitoring of the global shipping fleet**. VV16 is Arianespace's first Vega Small Spacecraft Mission Service (SSMS) rideshare flight that injected a total of 53 satellites into orbit. At approximately 52 minutes after launch, ESAIL was released into a sun-synchronous orbit with Local Time at Descending Node (LTDN) of 10:30 am at an altitude of 515 km. www.exactearth.com

GOLDEN SOFTWARE IMPROVES SURFER FILE HANDLING FOR FASTER MAPPING

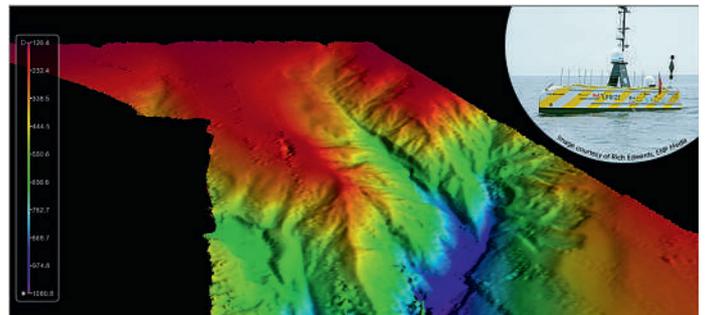
Golden Software, a developer of 2D and 3D scientific modelling packages, has made it faster and easier than ever to create maps in the latest version of its Surfer gridding, contouring, and 3D surface mapping product. Additionally, Surfer users will find it is simpler to **present, share and display their work** with the software package. Surfer has been relied upon for more than 30 years by scientists in numerous disciplines 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



NOVARA GEOSOLUTIONS AWARDED THE ESRI RELEASE READY SPECIALTY DESIGNATION

Novara GeoSolutions, a multi-disciplined organization providing solutions for asset management, compliance, integrity management, operational improvement and other geospatial needs announces it has been awarded the **Esri Release Ready Specialty status**. This significant recognition is given to partners that show innovation with Esri technology, are committed to developing their wide-ranging expertise and offer **expert technical support** for a variety of Esri solutions and products. Novara's enterprise-level technology solutions, off-the-shelf GIS applications, and cloud based platform provide clients with the tools to manage their mission critical operations. The Release Ready Specialty supports not only Novara's mission as an **Esri Gold Partner** to support clients with the newest and most reliable geospatial technology on the market, but it also illustrates its ongoing dedication to deploy solutions on proven platforms that have the flexibility to integrate with external hardware and sensors to enhance the overall results. www.novarageo.com



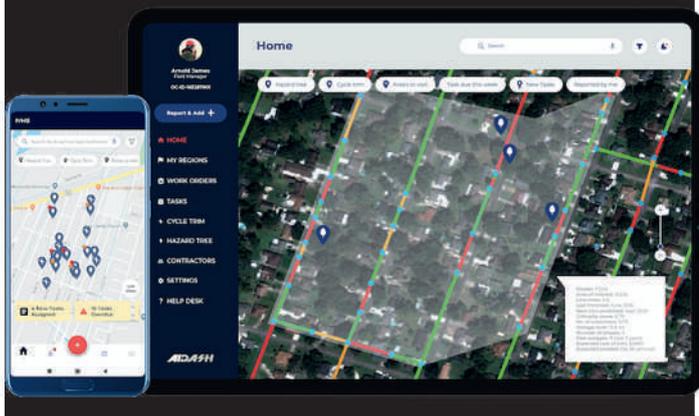
TELEDYNE CARIS AI SOFTWARE ONBOARD SUCCESSFUL UTAS USV MISSION

Teledyne CARIS, a Teledyne Technologies company, was an integral part of the illustrious team involved in the ground-breaking uncrewed offshore survey mission in the Atlantic Ocean. Teledyne CARIS' **Mira AI** and **CARIS Onboard software** were present on the vessel to enable autonomous survey and real-time processing operations. The mission's Uncrewed Surface Vehicle (USV) built by SEA-KIT mapped over 1000 sq kms of the ocean floor in 22 days, while being continuously monitored via satellite communications at its Remote Operations Center in Essex, United Kingdom. A specialized team comprised of the **GEBCO-Nippon Foundation Alumni Team** operated the survey equipment and provided quality control of the data from various 'work-from-home locations' around the world. The SEA-KIT USV surveyed a **predominately unsurveyed area** at the southwestern edge of the UK Continental shelf. The image displays the initial results following a fully automated processing workflow. www.teledynecaris.com

AIDASH TAPS UP42 EARTH OBSERVATION PLATFORM TO CREATE VEGETATION MANAGEMENT SYSTEM FOR ELECTRIC UTILITIES

AiDash, a satellite analytics company based in Santa Clara, Calif., has launched a predictive vegetation management product for utilities that leverages the UP42 Earth observation marketplace. AiDash's satellite-powered **Intelligent Vegetation Management System (IVMS)** has already reduced outages and slashed vegetation management costs for a Fortune 500 electric utility. Keeping vegetation trimmed near **power distribution lines** is an expensive and time-consuming – yet critical – task for electric utilities. Encroachment by bushes and trees can cause widespread outages and spark devastating wildfires. Energy utilities worldwide spend billions of dollars each year to continuously **monitor vegetation** in their powerline corridors from the ground and the sky, often using manned and unmanned aircraft.

www.up42.com



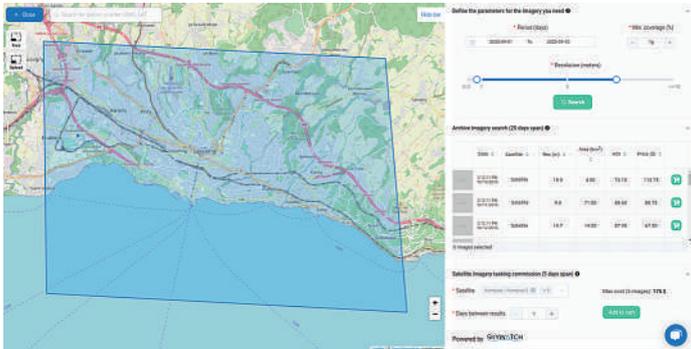
OGC AND ODA ANNOUNCE STRATEGIC PARTNERSHIP

The Open Geospatial Consortium (OGC), the international consortium driving the creation and adoption of open geospatial standards, and **Open Design Alliance (ODA)**, the provider of **CAD and BIM interoperability solutions**, announced a strategic partnership to promote and strengthen the use of open standards for the location and geospatial industries. ODA is a not-for-profit technology consortium that builds Software Development Kits (SDKs) for popular CAD and BIM standards including IFC, .dwg, and Autodesk Revit files. ODA software is used by more than **1000 companies world-wide**, and its solutions are a recognized standard in the industry. OGC's leadership in creating open standards forms a natural synergy with ODA's expertise in standards implementation. The partnership between OGC and ODA is intended to develop and strengthen this synergy to the benefit of both organizations and the broader community. www.ogc.org

EUROGEOGRAPHICS PLEDGES SUPPORT FOR UN-GGIM FOCUS ON AUTHORITATIVE GEOSPATIAL DATA

EuroGeographics has welcomed the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) intention to focus on issues concerning authority, custodianship and legal issues for data for the public good. The Association, which represents **Europe’s National Mapping, Cadastral and Land Registration Authorities**, has pledged to support the UN-GGIM Working Group on Legal and Policy Frameworks in its aim to better understand the definition and importance of authoritative data. It is also offering access to its extensive network to help gather **examples of best practice** and to **facilitate information sharing**. EuroGeographics is an observer on the Working Group, which was formally renamed at the tenth session of UN-GGIM and is now known as the Working Group on Policy and Legal Frameworks for Geospatial Information Management to align with IGF Strategic Pathway 2 – Policy and Legal.

www.eurogeographics.org

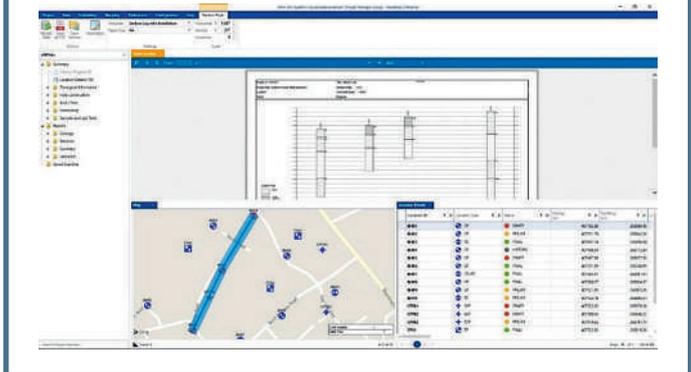


SKYWATCH AND PICTERRA JOIN FORCES TO MAKE GEOSPATIAL INSIGHTS AVAILABLE TO ALL

Picterra announced their partnership and a new unique joint program. SkyWatch is building the infrastructure for the automated distribution of **Earth observation (EO) data**. SkyWatch EarthCache provides developers with the tools they need to cost-effectively add EO data into their applications and workflows. Picterra is an **ML/AI Software-as-a-Service platform** enabling businesses to autonomously extract intelligence & analytics from satellite, aerial, and drone imagery. It comes with a ready-to-use IT infrastructure: in a few clicks, it’s possible to process terabytes of imagery with Picterra’s auto-scaling, GPU-enabled infrastructure. www.skywatch.com

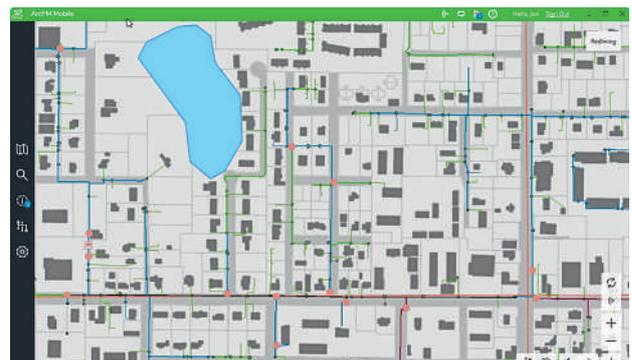
BENTLEY SYSTEMS ANNOUNCES AVAILABILITY OF OPENGROUND CLOUD

Bentley Systems announced the availability of OpenGround Cloud, a new cloud service that enables geotechnical professionals to access reliable geotechnical data for **better engineering decision support** and to **improve collaboration** across the entire supply chain. OpenGround Cloud offers a complete solution for planning, data entry, borehole log production, lab data management, reporting, visualization, and more. The cloud service improves collaboration across multidisciplinary project teams and significantly increases the value of geotechnical data by making it **easily accessible** to key project stakeholders. Now, with OpenGround Cloud, geotechnical engineers can readily access reliable, high-quality current and historical geotechnical data for the modeling, simulation, and analysis of infrastructure projects’ ground conditions. www.bentley.com



SCHNEIDER ELECTRIC RELEASES ARCFM MOBILE 11.2.1

Schneider Electric, a provider of Geographic Information System (GIS) solutions for utilities and communication providers, announced the latest release of ArcFM Mobile XI, the **utility-scale mobile GIS solution** designed for field crews. ArcFM Mobile 11.2.1 now supports a full digital design-construction workflow in the ArcFM XI ecosystem built for **Esri’s Utility Network**. ArcFM Mobile 11.2.1 helps minimize the need for paper construction plans and optimizes as-built data capture with powerful new capabilities. ArcFM Mobile XI is part of the ArcFM Solution XI Series, an ecosystem of applications that streamline the design and construction workflow, enabling utilities to get work done more efficiently. ArcFM Editor XI, ArcFM Web XI, ArcFM Geodatabase Designer XI and ArcFM Designer XI fill out the rest of the ecosystem. www.se.com



TALLYSMAN INTRODUCES A LINE OF EMBEDDED FULL-BAND AND TRIPLE-BAND VEROSTAR GNSS ANTENNAS

Tallysman Wireless announced four new game-changing embedded VeroStar Mini products to its line of antennas. The ultra-compact and lightweight embedded **VeroStar Mini** models offer the same key features as the full-size VeroStar models but in a smaller, lighter package, with either a 90-mm (58 g) or 106-mm (69 g) integrated ground plane, both 32.4 mm in height. The VSM6028, VSM6028L, VSM6328, and VSM6328L embedded VeroStar Mini antennas are designed and crafted for **high-accuracy positioning**. With an exceptionally low roll-off from zenith to the horizon, VeroStar antennas provide the best-in-class tracking of GNSS and L-band correction signals at low elevation angles. Also, the optimized axial ratio at all elevation angles results in excellent multipath rejection, thus enabling accurate and precise code and phase tracking.

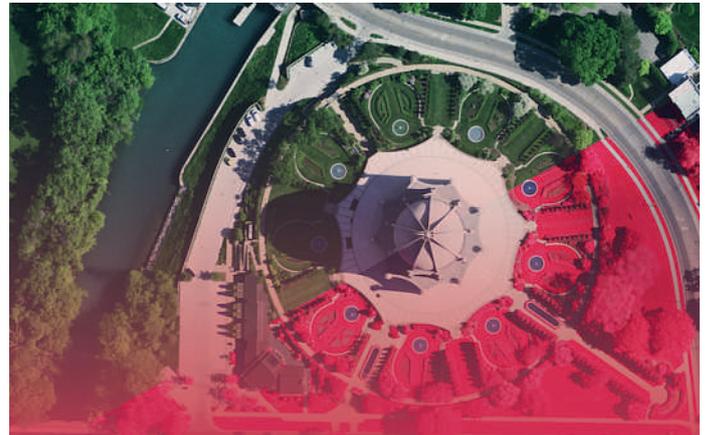


www.tallysman.com



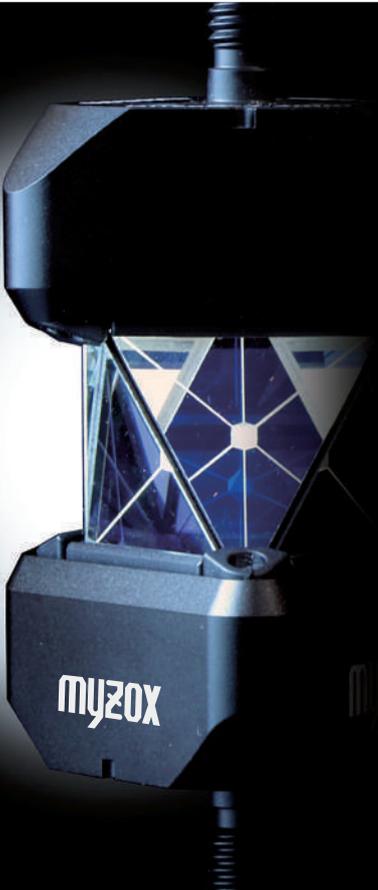
SAPCORDA EXPANDS SAFETY-CRITICAL GNSS AUGMENTATION SERVICES FOR AUTOMOTIVE WITH POWERFUL L-BAND SATELLITE LINKS

Sapcorda Services GmbH announced that testing of its first global navigation satellite system (GNSS) augmentation services for L-band signal is underway in North America and Europe, laying the foundation for its December 1, 2020 launch of the strongest, most reliable GNSS augmentation signal for **safety-critical navigation in autonomous vehicles and machinery**. Available in areas without GSM coverage or mobile internet signal, the new Sapcorda L-band beam solutions from two geostationary satellites provide PPP-RTK data-feed redundancy in real-time by swapping to a second data feed when internet connectivity is not available. This automated swapping significantly improves reliability for life-critical applications such as autonomous cars. www.sapcorda.com



UP42 PARTNERS WITH HEXAGON TO OFFER HXGN CONTENT PROGRAM AERIAL IMAGERY ON GEOSPATIAL MARKETPLACE

High-resolution aerial imagery from the HxGN Content Program is now available on the UP42 developer platform for Earth observation data and analytics. UP42 customers may now choose from nearly 11 million square kilometers of **30 cm orthorectified imagery** for North America and Europe and over 500,000 sq km of 15 cm data for major U.S. cities in the Hexagon aerial image library. UP42 gives users direct access to extensive **Earth observation data sets and advanced processing algorithms** – along with cloud computing power – to create their own geospatial solutions easily and inexpensively. The platform provides all the tools UP42 customers need to develop geospatial workflows, applications, and even commercial products. www.up42.com



360° Reflective Target Prism REV0360

- Replaceable prism
- Prism constant
- R-360 -4.4mm (Leica +30mm)
- Z-220P 0mm (Leica +34.4mm)
- Made in Japan



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www.myzoxjapan.com

TRIMBLE AND BOSTON DYNAMICS ANNOUNCE STRATEGIC ALLIANCE

Trimble and Boston Dynamics announced a strategic alliance to integrate a variety of construction data collection technologies with Boston Dynamics' **Spot robot platform**. The jointly-developed solution will combine the Spot robot's autonomous mobility with Trimble's data collection sensors and field control software to **enable automation of repetitive tasks** such as site scans, surveying and progress monitoring, while taking advantage of the robot's unique capabilities to navigate dynamic and potentially unsafe environments. The relationship gives Trimble exclusivity to sell and support the Spot robot with integrated scanning, total station and GNSS technologies for the construction market. www.trimble.com



ALTEIA ACCELERATES THE DEPLOYMENT OF ITS ENTERPRISE AI SOLUTIONS AND ANNOUNCES GLOBAL ALLIANCES WITH GE DIGITAL AND MICROSOFT

Alteia, the provider of Visual Intelligence for Enterprise, lands two major partnerships with GE Digital and Microsoft. The Alteia platform combines the best of computer vision and artificial intelligence (AI) technologies. It provides developers, data scientists, and business analysts **one common and secure database** for all of their visual data, enabling them to collaborate and rapidly develop, deploy and improve over time **AI based applications**. These alliances will allow customers to streamline the adoption of AI designed to address issues like inventory, energy management, predictive maintenance and equipment reliability. With the combined expertise of GE Digital and Alteia's platform, this alliance is designed to help fast-track the delivery of enterprise-scale industry and domain-specific AI applications, shorten the time to value and accelerate the scaling of mission-critical solutions. www.alteia.com



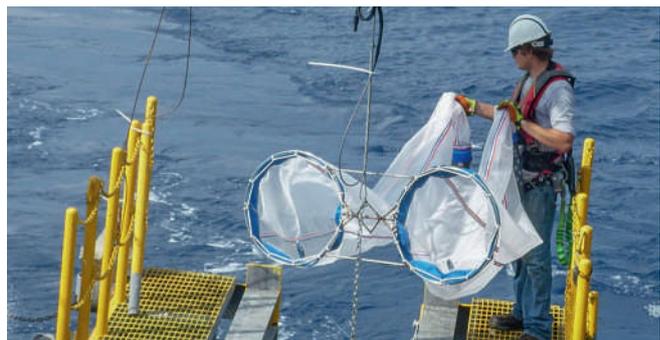
INMARSAT AND COBHAM SATCOM ENABLE MALDIVES FISHERIES SUSTAINABILITY WITH FLEET ONE

Inmarsat, the provider of global mobile satellite communications, and Cobham SATCOM, the provider of radio and satellite communications solutions, have been awarded a new contract to **connect 732 fishing vessels** active in the Maldives Economic Exclusion Zone to Inmarsat's Fleet One maritime broadband services. Cobham's SAILOR Fleet One utilizes the existing Inmarsat-4 satellite constellation to deliver the most reliable global voice calling and internet connectivity via a compact, lightweight antenna, and a simple installation process. The technology's affordability makes it particularly accessible for smaller boats looking to access maritime satellite communications for the first time. www.inmarsat.com



TDI-BROOKS INTERNATIONAL COMPLETES EBS PROGRAM OFFSHORE IVORY COAST

TDI-Brooks International teamed with the French environmental firm Créocéan and Benthic Solutions, has completed an **Environmental Baseline Studies (EBS)** for TOTAL E&P Côte d'Ivoire, Ivory Coast. TDI-Brooks safely and efficiently deployed the R/V Proteus to blocks CI-705 and CI-706 to conduct seawater sampling and profiling (CTD rosette) as well as plankton sampling (bongo net) at 7 stations, sediment sampling (Mega Box Core) at 45 stations and live feed benthic video sled at 24 transects. The two blocks cover an area of approx. **3,200 sq kms**, and present multi-target hydrocarbon prospects in water depths ranging from 1,000 to 2,000 meters. The TDI-Brooks vessel earmarked for this project was the **R/V Proteus**, a multi-use vessel suited for a wide variety of oceanographic research duties. www.tdi-bi.com





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