

NEWS & EMERGING TECHNOLOGY



THE NEW JCB FASTRAC ICON FEATURES THE HEXAGON | NOVATEL SMART7 GNSS RECEIVER

JCB launched their new Fastrac iCON tractor to the public. It features the Hexagon | NovAtel's SMART7 GNSS receiver and optional TerraStar Correction Services driving the iCONNECT precision technology package and offering operators an easy-to-use customisable experience. The SMART7-I included in the new Fastrac iCON tractor is a rugged, waterproof, all-in-one **GNSS SMART Antenna** designed and tested specifically for the agriculture industry. Connectivity is made easy with Wi-Fi and Ethernet support. TerraStar and RTK corrections provide the **centimetre-level accuracy** required for any farming application. With multi-constellation and multi-frequency capabilities, it is a dependable solution for farms with treelines and obstructions that may impede satellite signals. www.hexagon.com

XMAP CLOUD GIS JOINS-UP SERVICE DELIVERY FOR SOUTH SOMERSET

South Somerset District Council (SSDC) has deployed XMAP, the new generation Geographic Information System (GIS) platform, to join-up service delivery, engage with communities and develop stronger relationships with town and parish councils. Implemented to support the Council's **Digital Transformation Strategy** as it works alongside four other **Somerset Councils** to create a new, single authority in 2023, XMAP has transformed the way geospatial intelligence is stored, accessed and shared, both within the Council and with other government organisations. XMAP is a cloud-based data and software service from **Geosphere** and is providing a robust platform for future digital transformations at SSDC. It has also facilitated the sharing of real-time updates and service delivery information with residents and businesses via the Council's website. www.xmap.geosphere.com



RIEGL USA CONTINUES TO PROVIDE MOBILE LIDAR SOLUTIONS TO WGI

WGI, a design and professional services firm in technology-based solutions for the construction of public infrastructure and real estate development, continues its investments in the latest cutting-edge technologies with the addition of the **RIEGL VMY-2** to the Geospatial Team's Mobile LiDAR collection. This comes after successful implementation of the **RIEGL VMX-2HA** into their mobile portfolio at the beginning of 2022. WGI's acquisition of the RIEGL VMY-2 Mobile system allows for a **further increase in efficiency** in capturing data within their varied projects. This system is compact and well suited for a variety of mobile mapping applications. The measuring head is equipped with two **RIEGL miniVUX-Series LiDAR sensors** and mounted in the well proven angled orientation as known from the RIEGL VMX Mobile Mapping Systems. www.riegl.com



EOS POSITIONING SYSTEMS ANNOUNCES EOS LASER MAPPING FOR ANDROID

Eos Positioning Systems (Eos) announced its release of its popular Eos Laser Mapping for ArcGIS solution on Android devices. Previously the free solution, which allows mobile crews to capture asset locations from a distance with **survey-grade accuracy**, was available only on iOS. The solution combines market-leading technology from geographic information system (GIS) provider Esri, laser rangefinders from **Laser Tech (LTI)**, and Eos' own popular **Arrow Series GNSS receivers**. The Eos Laser Mapping release on Android currently supports three workflows, or mapping methodologies: Standard Laser Offset (sometimes called Range-Azimuth), Range-Range (or Range-Intersect), and Range-Backsight (a total station-like method). www.eos-gnss.com



TRIMBLE ANNOUNCES NEW DEPLOYMENT OF APPLANIX'S POS LV TO ENABLE BROADER AUTONOMY CAPABILITIES FOR IHI CORPORATION

Trimble announced the first deployment of its map-based localization system for land-based autonomous vehicle applications. IHI Corporation, a heavy industry manufacturer based in **Japan**, will retrofit its existing container and haulage trucks with a customized Applanix POS LV system as part of its broader autonomy capabilities for the transport of goods around industrial facilities. Map-based localization provides **precise positioning** and **orientation estimation**, augmenting GNSS/inertial data, which is critical for safe and efficient autonomous vehicle operations. The ability to provide IHI Corporation a full workflow and real-time data ensures seamless integration into IHI's truck design. www.trimble.com



BEDFORDSHIRE FIRE AND RESCUE SERVICE SELECT CADCORP GIS FOR CUSTOMER INSIGHT PROJECT

Bedfordshire Fire and Rescue Service (BFRS) has selected Cadcorp SIS as its Geographic Information System (GIS). The project includes desktop GIS, fire modelling applications, cloud hosted web mapping, consultancy services and training. The Bedfordshire Fire and Rescue Authority had a requirement for an application to support their customer insight led model for targeted prevention. **Cadcorp Risk Modeller** was selected as it provided the best technical fit with the fire authority requirements and is widely used by UK fire services for similar initiatives. Risk Modeller can create **multiple risk maps**

based on historical data, projected data, and demographics as well as changes to population distribution and transport links. Having a customer insight tool integrated within a GIS allows BFRS to view their risk model in the context of related mapping overlays. www.cadcorp.com



PHASE ONE ANNOUNCES NEXT-GENERATION AERIAL SOLUTIONS ENHANCED WITH NEAR INFRARED CAPABILITIES

Phase One, a developer of digital imaging technologies, announced its next-generation aerial mapping solutions. The Phase One PAS 880 oblique and PAS 280 nadir systems have been enhanced with **150MP near-infrared (NIR) sensors** and the most productive workflow with the launch of the latest iX Suite SW solution. The new PAS 880i offers the same outstanding image quality and unsurpassed image capture rate (2 frames/second) that gained its forerunner a reputation for reliability and productivity. The PAS 880i covers a wide swath across-track: more than **20,000 pixels** in nadir and **14,000 pixels** in each of the obliques, operated at a variety of airspeeds, altitudes, and lighting conditions. www.phaseone.com



1SPATIAL FIRST CONTRACT WITH THE STATE OF NEW YORK

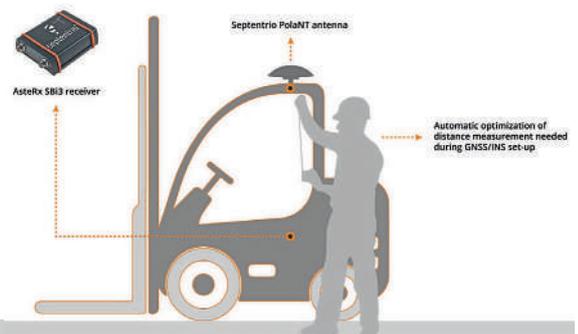
1Spatial, a global provider of Location Master Data Management (LMDM) software and solutions, announce it has secured an initial contract with the **New York State Office of Internal Technical Services**, for the use of 1Integrate software and services. This is the first contract with the State of New York, which, given its population density, provides a gateway to considerable further expansion opportunities. With **20.2 million residents** and **240,000 lane miles of road**, the State of New York is the fourth most populous state in the United States. 1Integrate will be used to automate the updating of data received from numerous government entities within state-wide Address and Roads databases, replacing a time-consuming, manual process. This is just one of several data automation and conflation projects currently being considered by the State. www.1spatial.com

ESRI UK LAUNCHES CAREERS RESOURCES TO INSPIRE MORE STUDENTS TO STUDY GEOGRAPHY AND GIS

Esri UK announced a new Careers with GIS website, designed to inspire more students to study geography and GIS at GCSE, A-level and degree level, by highlighting the **rewarding and exciting careers** that these subjects unlock. Containing stories from real professionals working with GIS, from drone pilots and engineers to those tackling **climate change** or conserving wildlife, the website aims to dispel the outdated stereotypes about which careers are open to those with geography qualifications. The rich variety of jobs included demonstrates how geospatial technology skills are currently in growing demand across many different sectors, particularly within the sustainability and environmental industries. www.esriuk.com

SEPTENTRIO AND COMPOTEK ANNOUNCE COLLABORATION

Septentrio is strengthening its market reach for high precision GNSS modules by signing a distribution partnership with CompoTEK for **Germany, Austria and Switzerland**. With over a decade of experience as a distributor of modules and semiconductors, CompoTEK support its customers during the purchasing and sourcing process, works closely with them during the design-in phase, and also offers long-term product support. The mosaic high-accuracy RTK module makes use of all available GNSS constellations and signals for **maximum positioning availability** even in challenging environments. Its small form factor and low power consumption makes it ideal for high volume applications and assembly lines. The built-in AIM+ Advanced Interference Mitigation technology ensures resilience to GNSS jamming and spoofing, making mosaic a reliable positioning component in any robotic, drone or machine control system. www.septentrio.com



PROMOTION OF FIG CONGRESS 2022 AT THE GEOSPATIAL WORLD FORUM

Geospatial World Forum was back again with a face-to-face event. The well organised conference with the overall theme “Geography & Humanity” was divided into one day of plenary sessions at the main conference and two days of technical and special sessions and various pre-events and training programmes. An exhibition took place in parallel. FIG was represented by **FIG President Rudolf Staiger** and **Director Louise Friis-Hansen** who met with representatives from sister organisations, corporate members, representatives from Dutch Kadaster and several other participants. The Local Organisers for the Congress 2022 were represented by **Tomasz Malinowski**. Tomasz had two very active days and had the chance to talk with many exhibitors in the exhibition area. www.fig.net

HERE POWERS BMW MAPS WITH PREDICTIVE ROUTING

HERE Technologies, the location data and technology platform, announced its latest predictive routing capabilities are powering the innovative “Learning Navigation” feature of **BMW Maps** as part of the **BMW Operating System 8**. HERE Predictive Routing gives in-car navigation an individual touch. The functionality learns an individual driver’s mobility patterns to improve and personalize the driving experience. The system applies the lessons learned from **analysing mobility patterns** to generate predictions for upcoming journeys, departure times, destinations, and routes. HERE Predictive Routing also actively **monitors traffic conditions** along regularly taken routes. Based on the up-to-date road conditions and traffic environment, it will automatically offer alternative routes or departure times. www.here.com

HAWKEYE 360 RELEASES MARITIME ANALYTICS TO ENHANCE DARK SHIP DETECTION

HawkEye 360, a commercial provider of space-based Radio Frequency (RF) data and analytics, released a new maritime association analytics capability which analyses **RF signal geolocations** and **third-party global AIS maritime geolocations** to provide insight into potential dark activity in key areas of interest (AOI) across the world. The maritime insights enable organizations to understand anomalies in the maritime domain and more effectively employ other collection and surveillance modalities to gather intelligence. This capability will allow global coast guards, navies, law enforcement, fisheries, and non-profit organizations to increase maritime domain awareness and quickly identify RF activity that cannot be attributed to publicly identifiable maritime activity. www.he360.com

GLOBAL MARKET OVERVIEW OF STEREOSCOPIC SOFTWARE SOLUTIONS

After two years of intensive research and in cooperation with leading software manufacturers, the company Schneider Digital, recognized for its professional **4K/8K and VR/AR hardware solutions**, has now published for the first time a global market overview of all 3D-stereo software solutions. More than **300 applications** are currently listed and linked together with their creators in a monthly updated **community-based database**. Schneider Digital first checks the individual applications for their basic 3D-stereo functionality in order to then certify them individually for plug & play operation with its 3D monitors or the smart VR wall. The overview provides an open platform for users and software manufacturers, on which they can quickly and easily find stereoscopic software solutions tailored to their requirements. www.3D-PluraVIEW.com



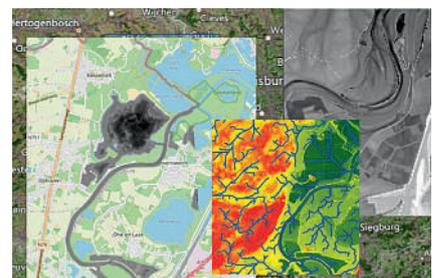
PRESTIGIOUS NOMINATION FOR KOREC CEO, ALAN BROWNE

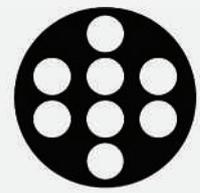
KOREC Group CEO, Alan Browne, has been named on the EY Entrepreneur of the Year shortlist for 2022. Alan’s nomination is for ‘Established Entrepreneur’, one of three categories that also include ‘Emerging Entrepreneur’ and ‘International Entrepreneur’. Following judging of the shortlist the overall winner for Ireland, who will also be a global finalist, will be announced in November. EY Entrepreneur Of The Year is a unique global programme running in more than **60 countries** that recognises entrepreneurial achievement among individuals and companies that demonstrate vision, leadership and success. All finalists will be invited to join the EY networking event in Austin, Texas. www.korecgroup.com



RASDAMAN VALIDATED AS INSPIRE COMPLIANT WCS

rasdaman WCS is the first product to be validated as an INSPIRE complaint Download Service, fully following the requirements laid down for INSPIRE Download Services in both the COMMISSION REGULATION (EU) No 1088/2010 of 23 November 2010 amending Regulation (EC) No 976/2009 as regards download services and transformation services as well as the Technical Guidance for the implementation of **INSPIRE Download Services** using **Web Coverage Services (WCS)**. These developments are fully in line with the work done under the INSPIRE Good Practice OGC compliant INSPIRE Coverage data and service implementation, finally enabling the provision of gridded data under the INSPIRE Themes Elevation (EL), Geology (GE), Land cover (LC), Land use (LU), Natural risk zones (NZ), Orthoimagery (OI), Soil (SO) and Energy resources (ER). www.rasdaman.com





VEXCEL
IMAGING

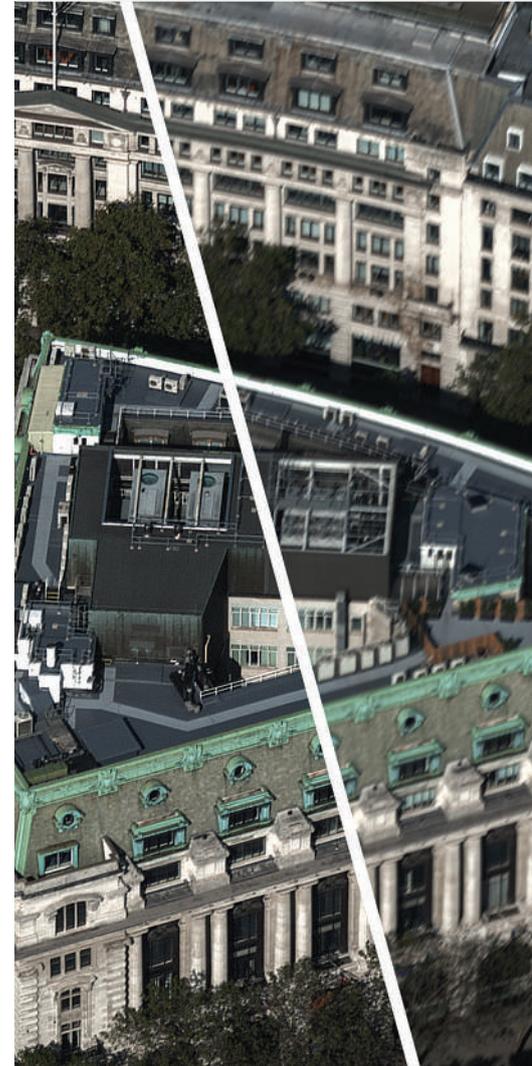
NANOAVIONICS RECORDS FIRST EVER 4K RESOLUTION FULL SATELLITE SELFIE IN SPACE

NanoAvionics have used an off-the-shelf consumer camera, mounted on a selfie stick, to take the first ever 4K resolution full satellite selfie in space with an immersive view of Earth. The 12-megapixel photos and 4K video clips, taken with a GoPro Hero 7, show the company's **MP42 microsatellite** flying 550 km above the **Coral Sea** and the **Great Barrier Reef** – the only living structure visible from space – along the North-East limb of Australia. In addition to the stunning imagery, NanoAvionics used the camera to test and verify satellite operations and their new payload controller, designed to optimise downlink for applications that require onboard processing of huge data packages. The company anticipates more future usages of real satellite footage, live and recorded, such as deployment confirmation, fault detection, micro-meteorite impacts and educational purposes. www.nanoavionics.com



METOP-SG-B WEATHER SATELLITE: SCATTEROMETER FLIES THROUGH TESTS

The flight model of the Scatterometer Antenna Subsystem (SAS) of the MetOp Second Generation meteorological satellites has been officially delivered after four months of extensive testing at the Airbus facility in Madrid. It will now be transferred to Airbus in **Friedrichshafen (Germany)** where it will be integrated into the satellite along with the other instruments. The SAS protoflight model underwent a lengthy test campaign where it was subjected to the **extreme conditions** that it will encounter during launch and in-orbit operation. These tests included: antenna deployment, thermal cycling, mechanical vibrations and acoustic environment. The first launch of the **MetOp-SG mission** is scheduled for 2024 after completion of integration and satellite level testing. The nominal operational lifetime of each of the three MetOp-SG satellites is 7.5 years, ensuring full operational coverage over a 21-year period. www.airbus.com



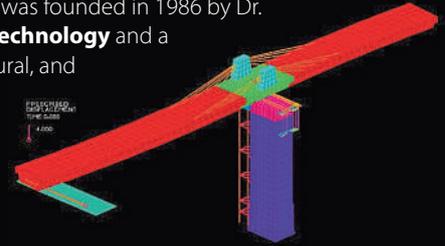
ADAPTIVE MOTION COMPENSATION

The game-changing
approach to
multi-directional
image blur correction



BENTLEY SYSTEMS ANNOUNCES ACQUISITION OF ADINA

Bentley Systems announced it has acquired Watertown, Massachusetts-based ADINA R & D, a developer of **finite element analysis software applications** used in a comprehensively diverse range of engineering fields. ADINA was founded in 1986 by Dr. Klaus-Jürgen Bathe, professor of mechanical engineering at the **Massachusetts Institute of Technology** and a world-renowned provider in the field of finite element analysis and its applications. Civil, structural, and mechanical engineers choose ADINA software for its **authoritative veracity**, including in analysis of buildings, bridges, stadiums, pressure vessels, dams, and tunnels. By virtue of the ADINA System's integral robustness across disciplines, materials, and simulation domains (structures, mechanical, fluids, thermal, electromagnetic, and multi-physics), engineers use it to perform comprehensive safety and performance studies where reliability and resilience are of critical importance. www.bentley.com



TREE PEST AND DISEASE MONITORING SYSTEM USES BLUESKY'S UK TREE MAP

A system to provide early warning of pest or disease attacks on the UK treescape is being developed by Fera Science Ltd. Funded by **Natural Environment Research Council (NERC)** and using tree location data from aerial mapping company Bluesky, a network of wireless sensors is being deployed at three trial sites in Norfolk. These sensors monitor the condition of tree canopies, movement of water, tree growth and the motion of the trunk. Combined with visual observations

by voluntary '**citizen scientists**', and images from drones and satellites, these measurements will identify a 'sentinel' system of changes in tree health. Fera are using data from **Bluesky's National Tree Map (NTM)** which is a unique database of height and crown spread for trees 3m and over. The NTM is updated on a rolling three-year programme to ensure it is accurate and up to date and allows for tracking of tree canopy cover over time. www.bluesky-world.com



UP42 PARTNERS WITH NEARMAP TO OFFER HIGH-RESOLUTION AERIAL IMAGERY OF U.S., CANADA, AUSTRALIA, AND NEW ZEALAND

Nearmap's high-resolution aerial imagery of major urban areas in the United States, Canada, Australia, and New Zealand will soon be available through UP42. The initial offering will include the Nearmap vertical imagery, which is updated multiple times each year at **5.5- to 7.5-cm (2.2" to 3") spatial resolution** for more over **1740 urban areas** in the **US** and over 100 in **Australia**. With global headquarters in Sydney, Australia, vertical imagery from Nearmap provides an orthogonal imagery base layer that offers consistent clarity, precision, and spatial detail for cities and their surrounding areas. In the United States alone, coverage includes more than 80% of its population with **308,000 unique square miles** – including some of the most rapidly growing municipalities – surveyed each year. www.up42.com



EDGYBEES SATELLITE SOFTWARE BRINGS UNPRECEDENTED ACCURACY TO SATELLITE IMAGERY

Edgybees, the global provider of georegistration software, announced the release of its Satellite Software to enhance the accuracy of satellite imagery. Edgybees Satellite Software aligns electro-optical satellite imagery to ground truth, within two to three meters of accuracy, in **less than 15 seconds**. The software vastly reduces discrepancies and provides clear and concise context to consumers of satellite imagery across industries. Since its founding in 2017, Edgybees has been helping first responders and the military through **georegistration of full-motion video streams via drones**. Recognizing satellite technology as an invaluable resource across industries, Edgybees is combining artificial intelligence and georegistration technology to create a solution that aligns satellite imagery with ground truth – enabling improved, accurate decision-making in an infinite amount of use cases. www.edgybees.com

TALLYSMAN ADDS EXTENDED FILTERING TO THE FULL LINE OF VEROSTAR PRECISION GNSS ANTENNAS

Tallysman Wireless announced that it has added eXtended Filtering (XF) to the full line of VeroStar housed and embedded precision GNSS antennas. Tallysman has designed the XF feature to **mitigate interference** from all near-band signals and ensure that the antenna provides the purest GNSS signals. The radio frequency spectrum has become **congested worldwide** as many new LTE bands have been activated, and their signals or harmonic frequencies can affect GNSS antennas and receivers. In North America, the planned **Ligado service**, which will broadcast in the frequency range of 1526 to 1536 MHz, can affect GNSS antennas that receive space-based L-band correction service signals (1539 – 1559 MHz). New LTE signals in Europe [Band 32 (1452 – 1496 MHz)] and Japan [Bands 11 and 21 (1476 – 1511 MHz)] have also affected GNSS signals. www.tallysman.com



VSP6037L



VSS6037L



VSM6028L

KLEOS SUCCESSFULLY LAUNCHES PATROL MISSION SATELLITES

Kleos Space S.A, a space-powered Radio Frequency Reconnaissance data-as-a-service (DaaS) company, successfully launched its third satellite cluster, the Patrol Mission on 01 April 2022 onboard the **Transporter-4 SpaceX mission**. The D-Orbit Orbital Transfer Vehicle carrying the four Patrol Mission satellites has been successfully deployed into a **500km Sun Synchronous orbit** after being launched from Cape Canaveral in Florida. After the deployment of the Kleos satellites from the Orbital Transfer Vehicle, satellite builder, **Innovative Solutions In Space (ISISPACE)**, will assist with Launch and Early Operation Phase (LEOP) support, including in-orbit system commissioning and final manoeuvring of the satellites into their operational formation. www.kleos.space



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Supreme reliability



Unmatched productivity



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01.



02.



01 - PAS 880i
02 - PAS 280i

PHASEONE

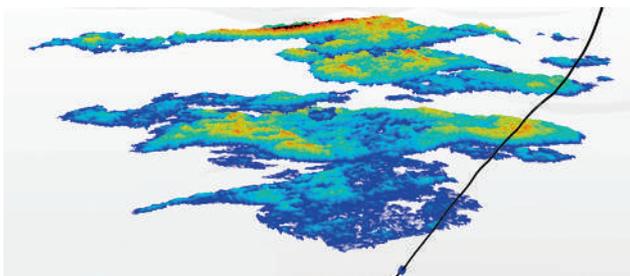
TOPCON REPRESENTS CONSTRUCTION INDUSTRY IN “CAMPUSOS” 5G RESEARCH PROJECT

Topcon Positioning Germany is one of 22 partners involved in CampusOS; a research project with the goal of developing a modular ecosystem for open 5G campus networks based on **open radio technologies** and **interoperable network components**. As part of the German technology program titled “Campus networks based on 5G communication technologies,” innovative solutions for open 5G networks are being developed and tested in conjunction with the **German Federal Ministry for Economic Affairs and Climate Protection**. The program was launched at the beginning of 2022 and will run through 2025. The use of artificial intelligence in the operation of autonomous plants and construction machinery requires the highest level of digital sovereignty. www.topconpositioning.com



CGG JOINS NORWAY’S CENTRE FOR GEOPHYSICAL FORECASTING

CGG has become a member of the Centre for Geophysical Forecasting, a research and innovation consortium based in the Norwegian University of Science and Technology (NTNU). The Centre for Geophysical Forecasting aims to leverage the combined expertise of its 15 members from a wide range of business sectors, both private and public, to “catalyse a new wave of **geophysical capabilities**, applying **disruptive new technologies** to novel enterprises that will be game-changers” in the energy transition. CGG will bring its expertise in seismic modelling and imaging to the work of the consortium. More specifically, it will contribute to the development, modelling, implementation and field testing of a new subsurface imaging and monitoring system designed to support a range of energy transition activities. www.cgg.com



ECOPIA AI AND AIRBUS EXPAND PARTNERSHIP TO ENABLE GLOBAL 3D VECTOR MAPPING

Ecopia AI announced the expansion of its partnership with Airbus, pairing Ecopia’s large-scale 3D vector mapping technology with Airbus’ global satellite imaging capability. This partnership will enable the creation of a **high-precision three-dimensional vector representation of the real world**, created and maintained with unprecedented speed. As part of this expanded relationship, Ecopia will also be joining Airbus’ certified reseller network - further providing the ability for Ecopia to resell Airbus imagery as part of their product suite. Through this continued partnership, Ecopia will leverage Airbus’ global very high-resolution 30cm imagery from **Pléiades Neo** and 50cm imagery from **Pléiades**, which will serve as an input for Ecopia’s AI-based 3D mapping systems. These 3D maps will offer a digital foundation for applications across sectors including government, insurance, telecommunications, and consumer applications. www.ecopiatech.com

UK SPACE COMMAND CONTRACTS WITH SSTL FOR CARBONITE+ SATELLITE

Surrey Satellite Technology Ltd (SSTL) has signed a £22m contract with Defence Equipment and Support on behalf of UK Space Command for a **150kg satellite** based on SSTL’s Carbonite+. Project TYCHE is the first satellite procurement for the MINERVA programme which is a key enabler in the development of the foundation for a UK **Space-based Intelligence Surveillance & Reconnaissance (ISR)** constellation under programme ISTARI. Delivered under a three year build programme, the TYCHE mission will be compatible with both horizontal as well as vertical launch. TYCHE will be operated from SSTL’s Spacecraft Operations Centre in **Guildford**. The key outcome of project TYCHE will be a robust understanding and analysis of the integration activities, test environments and interfaces required to establish and maintain UK MOD rights to freely operate a space based Intelligence Surveillance and Reconnaissance (ISR) capability. www.sstl.co.uk



CLIRIO LAUNCHES WORLD'S FIRST END-TO-END HOLOGRAPHIC SCAN AND REVIEW APPS

Clirio announces a software solution for field data capture that builds on the company's previous success in geospatial data visualization. The new application, branded simply as 'Clirio', uniquely combines **mobile LiDAR 3D scanning** with smart remote collaboration tools to offer teams an end-to-end 3D solution to capture, organize, share, and problem-solve. This is all based on **real-time field observations** and **data**, whether team members are on site or a continent away. Clirio is a set of mobile, web, and VR/AR apps for instantly capturing, sharing, reviewing, and resolving worksite field observations, issues, or updates.

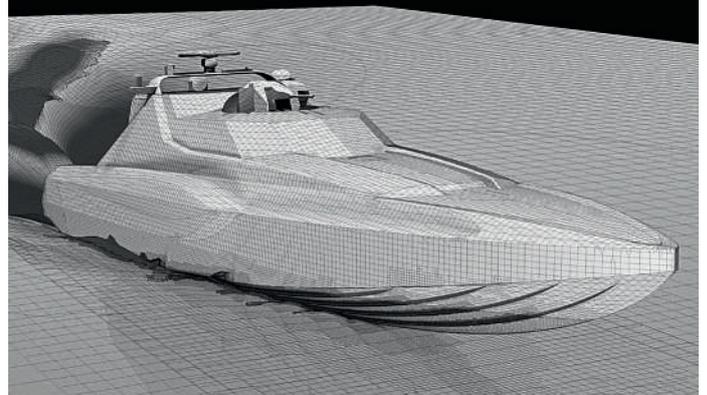
www.clir.io



KRAKEN SECURES FURTHER INVESTMENT FOR MARITIME PRECISION ENGAGEMENT PLATFORM

Early-stage British maritime technology company Kraken Technology Group (KTG) announced that it has completed a further private funding round to support development of its **Kraken K50 precision engagement craft**, prior to an anticipated priced investment round later this year. The Kraken K50 is designed specifically to meet the growing global requirement for fast-response precision engagement, coastal interdiction and the protection of critical offshore infrastructure. The K50 will push the boundaries of technical and operational performance with response speeds in excess of **65 knots** and optional use of advanced electric powertrain technology to extend key range and performance parameters, all housed within a unique composite design and structure.

www.krakentechnology.com





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11-15 SEPTEMBER 2022
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for a better living*

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- Explore Warsaw and Poland

www.fig.net/fig2022



AERIS PROVIDES FLEXIBLE SIM MANAGEMENT TO ACCELERATE VISIONTRACK'S GLOBAL GO-TO-MARKET STRATEGY

Aeris, the global Internet of Things (IoT) Solutions provider, announced a partnership to deliver a flexible SIM management solution for VisionTrack, the global provider of **AI video telematics** and **connected fleet data solutions**.

Through this partnership, VisionTrack can expedite their go-to market strategy and offer customer trials of the VisionTrack solution with minimal risk. In addition, Aeris provides customers, including VisionTrack, with the freedom to move their devices from one rate plan to another without incurring any penalties, via a single global pooled rate plan delivering cost optimisation. VisionTrack is further exploring the use of Aeris' **Intelligent eSIM technology** for the next phase of their global expansion to facilitate a faster, more reliable and cost-effective global rollout while also providing a consistent quality of service for their customers wherever they are in the world.

www.visiontrack.com

PRECISELY EXTENDS DATA INTEGRITY LEADERSHIP WITH NEW GEO ADDRESSING INNOVATIONS

Precisely, the global provider of data integrity, announced new geo addressing capabilities to easily verify, cleanse, and geocode address data in enterprise business systems such as CRM, Billing, ERP, Workforce Management, and more. New geo addressing innovations launching from Precisely include enhanced **address autocompletion**, sophisticated **matching algorithms**, and new **metadata options**. The global reach of these capabilities is also being expanded through availability of Master Location Data in the UK, Ireland, France, Belgium, the Netherlands, Luxembourg, Sweden, and Finland – joining existing coverage in the US and Canada. Further expansion is planned throughout the year.

www.precisely.com

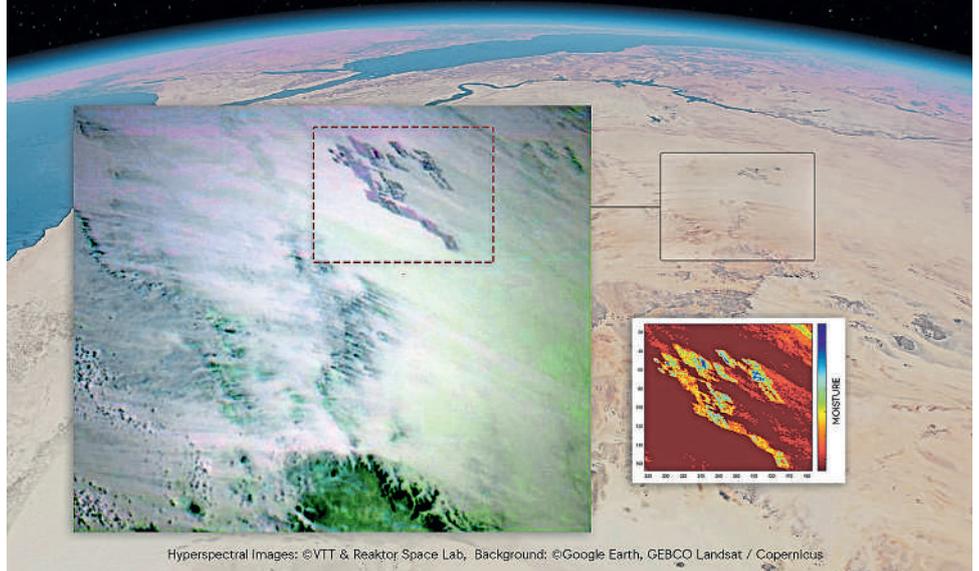


ANOTHER STEP FOR EU'S POSITIONING SYSTEM: NIKOLINA JOINS THE GALILEO FAMILY

After a challenging Launch and Early Orbit Phase (LEOP) and Testing campaign during the pandemic times, **Galileo satellite "Nikolina"** (GSAT0223) is entering service provision. The satellite will reinforce the performance and robustness of the EU's satellite-based positioning system. GSAT0223 and its launch-companion **GSAT0224 (Shriya)** are the first pair of the third batch of **Galileo First Generation satellites** to reach space. GSAT0223 will fill the last empty slot in Galileo's orbital plane B. Shriya is soon completing its in-orbit validation and will then join the operational constellation. Furthermore, ten additional satellites of the same batch are continuing assembly, acceptance and launch preparations. www.euspa.europa.eu

FIGHTING CLIMATE CHANGE WITH THE WORLD'S MOST EXTENSIVE HYPERSPECTRAL SATELLITE CONSTELLATION

The Finnish start-up Kuva Space plans to build the world's most extensive hyperspectral constellation of **100 nanosatellites** to capture the molecular composition of materials at scale. The company will transform this intricate space-borne data into actionable insights that customers can access via an **AI-driven data platform**. The company will play a critical role in land and water management, monitoring carbon emissions and measurement of carbon sequestration, and have a noticeable impact in the field of **climate action**. Hyperspectral nanosatellite technology solutions open up opportunities for various industry verticals, including carbon sequestration and environmental, safety and security, insurance and finance, precision agriculture and aquaculture. www.kuvaspace.com



Hyperspectral Images: ©VTT & Reaktor Space Lab, Background: ©Google Earth, GEBCO Landsat / Copernicus

SATELLOGIC ANNOUNCES MULTIPLE LAUNCH AGREEMENT WITH SPACEX

Satellogic, a provider of sub-meter resolution Earth Observation ("EO") data collection, announced that it has signed a new Multiple Launch Agreement ("MLA") with SpaceX reserving launch capacity for its next **68 satellites**. This new MLA follows the current MLA covering 2022 launches, and confirms that SpaceX continues to be Satellogic's preferred vendor for **rideshare missions**, meeting the capacity demands of Satellogic's constellation roadmap and providing shorter periods between satellite development and deployment. Satellogic has plans to launch additional satellites each quarter, aiming to ultimately grow its constellation to over 200 satellites by 2025 in order to provide daily sub-meter resolution imagery of the entire surface of the Earth and up to 40 revisits of points of interest per day. www.satellogic.com

TOMTOM'S MAPS GAIN GREATER VISUAL CONTEXT FROM EXPANDED AGREEMENT WITH MAXAR

TomTom (TOM2), the geolocation technology specialist, announced that it has expanded its agreement with Maxar Technologies, a provider of comprehensive space solutions and secure, precise, geospatial intelligence, to **integrate high-resolution, global satellite imagery** into its product portfolio. TomTom will leverage **Maxar's Vivid imagery base maps** to provide its customers with a more comprehensive visualization solution. TomTom serves several industries with its maps, data analytics, navigation, traffic information and more. The partnership with Maxar gives TomTom the capability to offer its clients a **photorealistic map** that is representative of the world around them. In addition, TomTom's Automotive and

Enterprise software platform customers can offer their end users satellite imagery and give them more context of potential challenges on the ground. www.tomtom.com



OGC AND OSGeo, THE OPEN SOURCE GEOSPATIAL FOUNDATION, SIGN NEW MEMORANDUM OF UNDERSTANDING

The Open Geospatial Consortium (OGC) and the Open Source Geospatial Foundation (OSGeo) have renewed their Memorandum of Understanding (MoU). Open Software and Open Standards are complementary pieces of the geospatial ecosystem to which OGC and OSGeo are both committed. "With our increased focus on the **OGC APIs** and empowering developers (even non-geospatial) to leverage location in their development, the ongoing partnership between OGC and OSGeo makes perfect sense," said **OGC CEO Dr. Nadine Alameh**. "We both have a growing market to deliver to, and our joint commitment to **Findable, Accessible, Interoperable, and Reusable (FAIR)** and **Open data principles** will help us both accelerate how the world integrates geospatial/location information into everything." www.ogc.org

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