PDF3D'S NEW POWERPOINT PLUGIN BRINGS INTERACTIVE 3D TO LIVE PRESENTATIONS PDF3D have announced another new release for their popular free PDF3D in PowerPoint plugin, which enables users to easily add 2D and fully interactive 3D PDF files into professional Microsoft PowerPoint presentations for a richer viewing experience. The latest update to the plugin supports Windows 10, and Microsoft Office 2016. The developers 3D designs, data, simulations and scan results to fully explore the image at the click of a mouse or pad. www.pdf3d.com

THE COLORADO SCHOOL OF MINES AND MICROMINE **PARTNER**

The Colorado School of Mines and **MICROMINE** have formed a partnership within the **Geology and Geological Engineering Department. MICROMINE's**



GEO BUSINESS 2016 FIRMLY ESTABLISHES ITSELF AS THE 'MUST ATTEND' EVENT IN THE INDUSTRY!

GEO Business 2016 took place in London at the end of May and has reported another incredibly successful show with overall attendance up a remarkable 10% on last year. Over 2,200 visitors, from 50 countries attended the show, setting the bar extremely high and positioning GEO Business as a truly international show. The opening morning saw long queues outside the exhibition hall and within minutes, the exhibition was filled

with activity, hand shaking and deals being done were evident on every aisle. The show director, Caroline Hobden, commented: "we are delighted that 94% have rated the show as excellent or good and are already clambering to book stands for next year." From the outset there was a different feel to the event – as though GEO Business was no longer in its infancy but now firmly established as a must attend event. www.GeoBusinessShow.com

TRIMBLE UNITY ENABLES IMPROVEMENTS AT SUTTON AND EAST SURREY WATER

Trimble has announced that Sutton and East Surrey Water (SESW) in the U.K. has implemented the **Trimble® Unity™ 3.0** software suite of GIS-centric cloud and mobile applications. Developed to support smart water management, Trimble Unity focuses on workflow and business process improvement with the added benefit of better information for decision making and regulatory compliance. The software provides a single-platform solution for mobile workforce and smart water management. With a service area that includes multiple local jurisdictions, **SESW** must comply with strict local authority permitting requirements. In adopting Trimble Unity's single-platform approach, SESW determined



that the solution could solve their immediate need for improving field team operations and mobile work management. Another significant influencing factor was that the solution can be easily extended to enable smart water management techniques and provide a single view of network operations in line with future plans. www.trimblewater.com/unity.html.

PCI DELIVERS HIGH VOLUME PRODUCTION SYSTEM TO SKYMAP GLOBAL IN SINGAPORE

PCI Geomatics has announced that SkyMap **Global** of Singapore has become a key commercial GXL customer in Asia. SkyMap Global is focused on delivering value added satellite imagery products and solutions to the South Asian market. Skymap has been actively engaged with PCI Geomatics to leverage the capabilities of the GXL to promote and develop solutions to end users. SkyMap is establishing a full support infrastructure in Singapore to work closely with

PCI Geomatics to expand its regional base for customized solutions by leveraging the use of GXL technology.

"We selected PCI Geomatics as our technology partner from the day we started our business, and we have received excellent support, allowing us to apply their cutting edge technology for our customers." said A.S. Mittal, CEO of SkyMap Global in Singapore. www.pcigeomatics.com www.skymapglobal.com.

MOBILE MAPPING – THE FUTURE HAS ARRIVED FOR MK SURVEYS

The delivery of the **Leica Geosystems Pegasus:Two** will open a whole new world of mobile mapping to **MK Surveys** whilst utilising this mobile mapping solution. Revolutionary in design and technology, the vehicle mounted Leica Pegasus:Two mobile mapper will be used by MK Surveys for various infrastructure projects including surveys of highways and rail, as well as GIS data collection and asset management. The introduction of mobile



mapping for MK Surveys has many advantages including drastically reducing the fieldwork required for highways projects, with no need for road closures or traffic management, as the Leica Pegasus:Two acts in the same way as any other public vehicle. All data is collected

remotely from a moving vehicle to survey grade accuracies. Removing the workforce from the road helps improve health and safety on site, whilst providing fast and accurate data.

www.leica-geosystems.com www. mksurveys.com

TOPCON AND BENTLEY ANNOUNCE INTEGRATION BETWEEN MAGNET 4.0 AND PROJECTWISE

Topcon Positioning Group and Bentley Systems announce a new level of direct communication between Bentley's design applications and Topcon mobile work force products with the MAGNET® 4.0 release. With the direct communication from MAGNET Enterprise to Bentley's **ProjectWise**, users of Topcon's industry-leading family of MAGNET and 3D-MC software solutions can now, while working in the field, access or receive i-models created by **Bentley's OpenRoads** design modeling technology. Furthermore, the survey data and as-built conditions captured by Topcon's field devices can be brought back into Bentley's design applications using the same MAGNET to ProjectWise direct connection. This integration allows for direct import and export of i-models in MAGNET Field and MAGNET Office products. With this release, users are able to deliver any MAGNET



project files as i-models into ProjectWise for the purpose of capturing "As Constructed" conditions of infrastructure projects.

www.bentley.com www.topcon.com

SEPTENTRIO EXPANDS IN EUROPE BY SIGNING NEW PARTNERSHIP WITH INNOVELEC

Septentrio has announced a new partnership with **Innovelec** as an authorised partner for GNSS positioning solutions in the United Kingdom and Europe. This new partnership enables Septentrio's accurate and reliable products such as **AsteRx-m UAS** to meet the needs of unmanned aerial systems (UAS) customers in the European market. Innovelec will work directly with Septentrio to offer high quality strategic services and technical expertise necessary to meet the current and future requirements of GNSS

customers in the United Kingdom and UAS customers across Europe to develop new business opportunities in the market. Since last year, Septentrio has introduced a new set of products which achieve a new benchmark for accuracy and reliably in GNSS solutions. Innovelec will supply the AsteRx product line – renowned for providing consistent and robust cm-level positioning under challenging interference and multipath environments.

www.innovelec.co.uk www.septentrio.com

WORLD FIRST: GALILEO PRS SIGNAL ACCESSED VIA THE CLOUD

In a world first, the Public Regulated
Service (PRS) of the new European
satellite network Galileo has been
delivered via the 'cloud', paving the
way for its automated use by the
security and emergency services across
Europe. Accessing PRS via the cloud
overcomes a major problem with security
protocols required when managing the
cryptographic keys needed to access
the signals. PRS signals are encrypted
and decrypted by cryptographic keys
which, until now, are stored on the PRS
receiver and managed by the PRS user.
However, the system developed by NSL
and QinetiQ places these keys in a secure
server located in the 'cloud', accessed
via the internet, making PRS available
as a service for secure, authenticated
position and timing information. Galileo
is a Global Navigation Satellite System
(GNSS), one of a number used to work out
our location and time anywhere on the
planet. https://qinetiq.com

OGC AND SIBA SIGN MEMORANDUM OF UNDERSTANDING

The Open Geospatial Consortium (OGC°) and the Spatial Industries Business Association (SIBA) have signed a Memorandum of Understanding that will further the missions of both organizations by collaborating as partners in the development and conduct of outreach and education program activities to advance standards-based, interoperable modeling approaches to address the needs of each organization's membership. Also, SIBA will assist with local promotion and education regarding OGC standards in the Asia Pacific region, including advocating the use of OGC standards by the Australian and New Zealand governments. "We are excited about our alliance with Spatial Industries Business Association, which will enable OGC to further extend our reach and impact in Australia and New Zealand while providing SIBA an international platform for articulating and advancing its industry association mission." said Mark Reichardt, President and CEO of

www.siba.com.au www.opengeospatial.org

www.geoconnexion.com 7

ADVENTORI OPENS LONDON OFFICES AS IT EXPANDS INTO UK MARKET
ADventori an independent AdTech startup, has expanded its operations into London as it looks to grow its UK market share. Founded in Paris in 2009, ADventori is France's leading independent player in data-driven creative adserving. ADventori uses data to power real time messages delivered

CITYWORKS CONTINUES TO GROW

Cityworks has hired three new of a recent promotion, **Greg Walters** also joined client relations. **Greg Walters** Wisconsin-Madison with a bachelor's of science in forestry. Larry Solien

Jr. received his bachelor's degree of science in technology management from St. Petersburg College. Bridget

Suda graduated from the University of Wisconsin-Madison with a bachelor's of science in geography. Tom Palizzi, executive vice president, Cityworks said, "Their diverse experience in local government, utilities, and technical management, combined with a comprehensive knowledge of GIS, gives them the unique ability to understand customer needs and how best to apply Cityworks to meet those needs."



GLOBALSTAR'S SPOT GEN3 HELPS WITH RESCUES DURING MARATHON DES SABLES

Globalstar Europe Satellite Services Ltd.

has revealed that its SPOT Gen3 safety device was instrumental in rescuing 22 participants in this year's MARATHON DES SABLES 2016 (MDS), the world's most extreme running race. Each of the 1,250 competitors ran the 250 km across the Sahara Desert with a SPOT Gen3 on their backpack, allowing MDS race organisers, emergency support teams, sponsors, family and friends to precisely track each runner's location through a service hosted by WAA

Tracking. The SOS button on SPOT Gen3 also allowed competitors to let organisers know if they got into trouble. During the grueling multi-stage race across the sands of Morocco, the MDS team was able to precisely locate 22 competitors in distress and quickly dispatch rescue personnel. All race marshals also carried the small, rugged devices, and they were attached to security vehicles, medical vehicles, helicopters and even a camel. www. globalstar.com

OPENING OF THE GOTTHARD BASE TUNNEL THANKS TO SURVEYING AND MONITORING SYSTEMS

World's longest and deepest rail tunnel benefited from **Leica Geosystems** measurement technology. Surveying and monitoring systems made the construction of the **Gotthard** Base Tunnel in the Swiss Alps possible. The 57-kilometre long tunnel (35.4 miles) is the longest and deepest rail tunnel in the world. Drilling a 57-kilometre long tunnel starting from both sides of the mountain and meeting in the middle with barely any deviation was a truly challenging task. Highly precise measuring instruments were needed to successfully accomplish the project. The surveying started measuring in 1996, when construction work began. The surveying engineers set up a basic network with 20 reference points.



For this task, they used total stations, or optical measuring devices, and GPS, or satellite navigation solutions from Leica Geosystems. There was no major delay during construction time, and the tunnel was inaugurated on June 1st as planned.

www.leica-geosystems.com

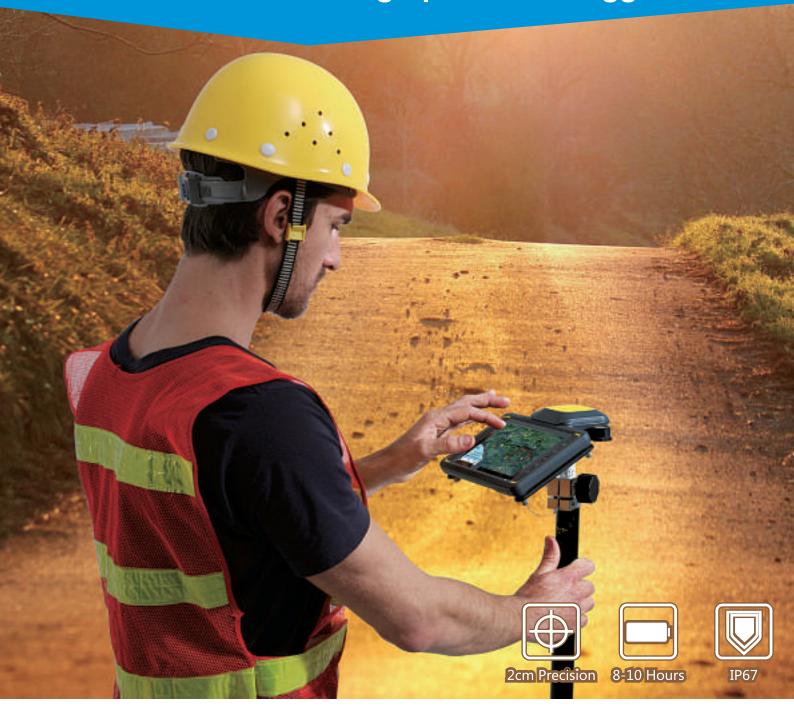
V AND IRU JOIN FORCES ON NEW INTERNATIONAL ROUTE PLANNING STANDARDS

A new strategic partnership between global road transport organisation **IRU** and German software developer **PTV Group** will develop new standards and services for route planning across Europe and beyond. New services will be successively rolled-out in markets in Europe and elsewhere, developing a consistent route planning standard, with comparable operational, cost calculation and billing elements, for transport operators, shippers and logistics

planners. Based on the market-leading route planning software product PTV Map&Guide, the new services are fully tailored to local conditions and challenges and will be developed and globally promoted in cooperation with IRU members in each market. The new services will also enable transport operators, large and small, to become more efficient through better operational route planning, to lower costs and to lower carbon emissions. www.ptvgroup.com.

HI-TARGET Surveying the world, Mapping the future.

Qpad X5 High-precision Rugged Tablet



- Android 5.0
- High-accuracy up to 2cm
- 7-inch highlight screen enables the visible capacity even in direct sunlight
- High speed guaranteed with 8-core processor
- Professional mobile GIS software and application solution



STRATEGIC COOPERATION:
BARTHAUER SOFTWARE
INSTALLED AT RIWA
BARTHAUER and RIWA have agreed
to a strategic cooperation. Initially, the
software developed by BARTHAUER
will be installed at the Amberg
site for preparing maps of sewage/
drainage systems. RIWA GmbH is an
integrated IT service provider in the
field of Geoinformation. Included in this
specialised field are the registration. of geodata. With its RIWA GIS Centre,



our latest navigation devices are built with technology that we've created for the future of driving, it means that we're able to provide a superior driving experience. Combining smart routing with our maps and traffic information, we can give drivers a feeling of having their very own driving lane. That's what the Welcome to Priority Driving campaign all about." Al Moseley, President and CCO, 180 Amsterdam, commented: "Not everybody understands that TomTom's satnavs are now quicker, smarter, and that they work in real-time. So we wanted to give a sense of what driving with a TomTom feels like." www.tomtom.com



SENTINEL IMAGERY NOW **WORKS INSIDE ARCGIS**

Esri enhanced its ArcGIS technology to simplify the use of free global imagery from the Sentinel-2 satellite launched by the European Space Agency. ArcGIS supports visualization, interpretation, and analysis of Sentinel imagery, which is of significant value in applications for forestry, agriculture, land resources management, and environmental monitoring. "Scientists and GIS professionals rely on consistent access to high-quality imagery data and information products for a range of applications in their work observing, modeling, and predicting Earth systems," said Lawrie Jordan, Esri's director of imagery and remote sensing. "Sentinel imagery can also be enhanced by the Landsat imagery already available in ArcGIS Online, which provides additional temporal depth." One of the unique capabilities ArcGIS offers is that it can work simultaneously with a wide range of spectral bands and indices at different resolutions. ArcGIS has image processing and analysis tools that allow people to view and analyze all types of imagery. www.esri.com

AKING A WORLD HERITAGE SITE PERCEPTIBLE FOR ISUALLY IMPAIRED PEOPLE

In cooperation with the Cyprus University of Technology, QuestUAV flew the archaeological park with one of their Q-200 Surveyor drones. Pix4Dmapper Pro was used to translate the acquired high resolution aerial images into a virtual 3D model. Sections of this virtual model were printed in 3D and can now be discovered by visually impaired people at the visitor centre. While the majority of the archaeological remains, including several buildings with well conserved floor

mosaics, of the area date to the Roman and Early Byzantine periods, the most ancient connect to settlements and tombs of the Ceramic Neolithic period (circa 5500-4000 BCE). The Kourion Archaeological Area is managed by the Cyprus Department of Antiquities and is part of the UNESCO World **Heritage Site of Paphos.** The amphitheater was printed in 3D with Braille explanations for visitors to discover in the visitors center. www. questUAV.com



EARTH-I AND TELESPAZIO VEGA SIGN MEMORANDUM OF UNDERSTANDING

Earth-i has signed a Memorandum of Understanding (MoU) with space technology and enabled services specialist, Telespazio VEGA. This MoU will permit each company to provide each other's specialist products and services to their respective customers. In the case of Earth-i, this will permit them to provide new and existing customers with advanced synthetic aperture radar (SAR) data from the COSMO-SkyMed satellite constellation alongside their existing optical data. Telespazio VEGA is owned by European aerospace and defence giants Leonardo – Finmeccanica and Thales. Telespazio VEGA, accessing the four satellites of the COSMO-SkyMed constellation, and Earth-i with the DMC3 / TripleSat constellation, will collectively be able to offer seven highly advanced and complementary imaging resources with multiple imaging opportunities each day. Richard Blain, CEO of Earth-i, commented: "This agreement signed by both parties demonstrates a collaborative relationship between two geospatial companies who can now offer their customers the best of both worlds." www.earthi.space



SCIENTIFICAEROSPACE AND DRONEMETREX OFFERS A REVOLUTIONARY MAPPING TECHNOLOGY

Pioneering drone manufacturer **ScientificAerospace** together with mapping experts **DroneMetrex** have developed a unique photogrammetric mapping solution that will revolutionise the Geospatial Industry. Building on the advantages of ScientificAerospace's industry-proven experience over eight years in six continents, their uniquely designed and technically advanced multi-rotor drone is a perfect synergy with DroneMetrex's world-leading mapping accuracy technology to produce the world's most accurate, safest and easiest complete photogrammetric mapping system, the **TopoDrone-4Scight** (TD-4Scight).

The **TD-4Scight** easily collects photogrammetric mapping data of unprecedented accuracy for rapid integration into a wide range of industries including Surveying, Urban Mapping, Civil Engineering, Mining, Agriculture, Bridge and Dam Wall Mapping, Post Disaster Mapping, Waste Management, Recycling and other industries.

ScientificAerospace Managing Director Richard Pace said "The new mapping system is very affordable and it is easy to use without complicated setup. It requires minimal training and it is easy to transport," **http://sci.aero**





www.geoconnexion.com 11

UAVAIR TRAIN CANDIDATES
FOR BETTER STANDARD OF
DRONE PILOT GRADUATES
Future Drone pilots looking to receive
a premier standard of aviation training
can better prepare themselves for
their change of career when attending
a course by leading drone training
academy, UAVAir. All the tutors at the
UAVAir training school are experts in
the aviation industry, with ten years of



of unlimited volume and size right onto the desktop." With the Orbit GT plugin for AutoCAD MAP, the use of native Mobile Mapping content becomes very easy. Any challenge of volume and performance is tackled by the Orbit Publisher. Users can simply measure, copy any measurement into AutoCAD Map, and overlay AutoCAD Map features on the Mobile Mapping imagery. Very powerful indeed! www.orbitat.com orbitgt.com



GGS OBLIQUE CAMERA SYSTEM, MAKES 3D OBLIQUE SYSTEMS **ACCESSIBLE AND AFFORDABLE**

Last year, GGS GmbH, one of Phase One's integration partners, completed a project for Realworld Engineering Consultants Inc., a Taiwanese company. They designed and built a new oblique camera based on Phase One aerial cameras. The client stipulated certain conditions: Phase One aerial cameras had to be used, the camera had to fit in an existing GSM 4000® gyro mount and, the array had to work with the PosAV (GNSS/IMU) 510 from Applanix. GGS took three important design

areas into consideration: (1) GGS designed a solid metal frame to hold the five cameras in their different positions. (2) The cameras were connected to ensure fast synchronization for the trigger signal. (3)The camera was required to manage four different communication systems simultaneously. With this turnkey oblique camera solution made with Phase One cameras, 3D city models and other projects requiring oblique imagery will become an easy task. http://industrial.phaseone.com

KNOWLEDGE IS POWER- EXACTEARTH ANNOUNCES VITAL NEW INFORMATION SERVICE

New advancements made in the ShipView 1.3 release provide users with validation tools to detect data quality anomalies immediately. Maritime authorities are increasingly interested in identifying abnormal vessel behaviour and anomalies. As the world's leading provider of vessel movement information, exactEarth now begins the introduction of services that not only summarize vessel information but also determine the validity of vessel messages and analyses behavious and movements.

exactEarth Knowledge Libraries are available

both as standalone web services and an add-on to **exactEarth ShipView™**, allowing authorities to come to the aid of vessels in distress faster and deal with illicit activity sooner to protect borders and save lives. Using dozens of new vessel attributes, not available from other AIS data providers and advanced analytics, authorities are able to define vessels of interest based on unique mandates, area of responsibility, vessel population and operational requirements.

www.exactearth.com

EYESMAP3D: THE MOST ACCURATE AND POWERFUL 3D PHOTO MODELING SOFTWARE

Global based technology company eCapture has announced the launch of its versatile and intuitive software **eyesMap3D**, to generate accurate 3D models and point clouds, which measure directly from images. EyesMap3D allows the users to produce high-density point clouds with textures achieving a realistic 3D model appearance. In addition, eyesMap3D is able to measure accurately on the images, generate true orthophotos, geo-reference and scale the results, which are useful tools for customers in this software. EyesMap3D users can use their cameras, mobile phone or camera drone to capture images. Besides, eyesMap3D is compatible with most popular



software packages in the market. The main objective of the company is to allow the user generate and work with 3D models and photogrammetric tools in the easiest possible way, while maintaining the data quality.

www.ecapture.es