

## GLOBAL MAPPER SDK V16.1 RELEASED WITH FASTER DISPLAY OF ONLINE DATA SOURCES

Blue Marble Geographics is pleased to announce the release of the **Global Mapper Software Development Kit (SDK)** version 16.1. This release features multiple enhancements to speed up online data sources, several new file formats and improved exports using image-optimized palettes. This release also features a variety of updates to both the standard **Global Mapper SDK** product and the advanced **LiDAR SDK** product. With the Global Mapper SDK, developers can leverage these powerful functions from within their own software applications, saving time and money in the development process. The new version includes multiple enhancements to speed up online data source display, direct load support for several new file formats including .7z archives, Landmark Graphics Vector, ZFS LiDAR, ArcGIS Layer Pack (.lpk), Rockworks XML Grid, and Carlson Grid/Geoid files. Exports to new image files using image-optimized palettes have also been improved. [www.bluemarblegeo.com](http://www.bluemarblegeo.com).

## FROM 48-HOUR TO 24-HOUR DISTRIBUTION THANKS TO DYNAMIC JOURNEY PLANNING

Although a fixed journey schedule was working perfectly well when it came to supplying **Van Marcke's** stores, static planning was leading to bottlenecks in transports to installers. These bottlenecks included an uneven distribution of the work across drivers. Switching to dynamic journey planning with **PTV Smartour** not only solved this problem, but also laid the foundations for a 24-hour delivery service. The IT department integrated the **PTV xLocate** module into their own ERP system. This ensures that every address is instantly verified upon being entered into the system. With its solution used by **TIN - Van Marcke**, the **PTV Group** won the **Truck ICT Award 2015** in the category "Most innovative software solution for logistics". With 105 shops in Belgium, Luxembourg and northern France, Van Marcke is a household name in the field of bathrooms, home spa systems, kitchens, sustainable water and heating systems. [www.ptvgroup.com](http://www.ptvgroup.com).



## 3D LASER SCANNING RAISED TO THE NEXT LEVEL WITH LEICA SCANSTATION

**Leica Geosystems** announces a group of six major new products for terrestrial laser scanning: three new laser scanners and three new point cloud software products. Together, these leading edge products raise the industry's bar for laser scanning data quality and productivity, both in the field and the office. New **Leica ScanStations P40, P30, and P16** increase field and office productivity, while simultaneously providing strikingly sharper, crisper scans and HDR true colour images - even under many

conditions traditionally difficult for scanning. New addition to the **Leica Geosystems** point cloud solutions, **Leica JetStream** and **TruView Global**, the **Leica CloudWorx for Navisworks** is announced. A popular design review application from **Autodesk**, its newest family member of **CloudWorx** plug-ins for CAD and VR applications. Taken together, advances in the new scanners and software elevate laser scanning to a new performance and data quality level. [www.leica-geosystems.com](http://www.leica-geosystems.com)

## NATIONAL GEOGRAPHIC'S TRAILS ILLUSTRATED MAP LINE AVAILABLE ON AVENZA'S PDF MAPS APP

**National Geographic Maps** will make available hundreds of maps from its **Trails Illustrated** line through **Avenza Systems Inc's** popular, award-winning **PDF Maps** app. The addition of these maps, the most popular outdoor recreation maps in North America, augments the PDF Maps app digital map database by incorporating trail maps from a world-renowned source. It also increases National Geographic Maps' reach within the mobile consumer market, giving more consumers than ever access to the **Trails Illustrated** line. Trail maps from many of America's most popular national parks have already been uploaded to the app. With many Ranger Districts throughout the country discontinuing visitor services, **Avenza's PDF Maps** app



provides an alternative for outdoor enthusiasts planning a trip in remote areas where Internet service is not always available to stream detailed map content. [www.avenza.com](http://www.avenza.com).



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## PROTEUS DELIVERS HABITAT MAPS FOR FOUR ENVIRONMENTAL IMPACT ASSESSMENTS

Proteus FZC, a provider of satellite-derived mapping and classification services, has delivered marine habitat maps for four **Environmental Impact Assessments** (EIA). Proteus completed the mapping components of the EIAs on behalf of oil & gas companies and engineering consulting firms. "The clients turned to us to provide maps of fragile habitats because multispectral-imaging satellites can derive this information faster, more accurately and at finer resolution than other mapping methods," said **Proteus CEO David Critchley**.

For the four projects, Proteus delivered classification maps of offshore marine habitats along with bathymetric data, all derived from high-resolution commercial satellite imagery. Two of the EIAs also required production of satellite-derived land use/land cover maps for terrestrial ecosystems. To create the classification maps, Proteus processed **WorldView-2** imagery from **DigitalGlobe** and **Pléiades** data from **Airbus Defence & Space**.

[www.proteusgeo.com](http://www.proteusgeo.com)

## SLAGBOOM & PEETERS PURCHASES THIRD ULTRACAM EAGLE

Dutch company **Slagboom & Peeters** has purchased an additional **UltraCam Eagle** digital aerial camera system. To achieve the best results in its typical projects, such as oil and gas, national mapping, and transportation, the company selected a 100mm lens for the new camera. "We chose to equip all three of our UltraCam Eagles with 100mm focal length lenses because most of the data we acquire is meant for orthophoto production," said **Yoeri Slagboom, owner of Slagboom & Peeters**. "We often need to fly above traffic in congested areas, so the ability to fly at a high altitude while still minimizing building lean is very important to us." Slagboom continued, "The UltraCam Eagle complements our fleet, which now totals three Eagle digital systems and two **UltraCamXp** cameras. This flexibility in deployment makes it possible to acquire the data faster and at lower cost." [www.slagboomenpeeters.com](http://www.slagboomenpeeters.com)  
[www.iFlyUltraCam.com](http://www.iFlyUltraCam.com)



## TRACKING THE SOURCE OF THE ESSEQUIBO RIVER IN SOUTH AMERICA

The **Essequibo River** is one of the largest rivers in **Guyana, South America**, and flows 1,010 km through forests and savannah into the Atlantic Ocean. Travelling to the source of the Essequibo River, which lies in untouched rainforest in the Acarai Mountains, has been a huge challenge that not many scientists have faced. In 2013, a multifaceted team accepted the challenge to film the never-before-recorded source of the Essequibo and its source valley.

Through the use of both field exploration and geospatial technology, the team was able to achieve a higher level of accuracy than ever before, even given the monumental and historical challenges. The end result of this effort was a powerful television documentary called "**Expedition Essequibo**," which was showcased at the residence of the European Union Ambassador and broadcasted throughout Germany and France. [www.hexagongeospatial.com](http://www.hexagongeospatial.com)

## ORBIT GT AND TPI, POLAND SIGN RESELLER AGREEMENT

**Orbit GeoSpatial Technologies** is proud to announce that **TPI, Poland** has been selected as Reseller of **Orbit GT** software products. "We are pleased to have signed a Reseller Agreement with TPI, a leading provider of surveying and scanning solutions in Poland, Lithuania, Romania and Ukraine", says **Peter Bonne, CEO of Orbit GT**. "We look forward to bundle our efforts and provide better and faster solutions

for our joint customers, making their business more effective and workflows more efficient." **Andrzej Jaroszewicz, CEO of TPI** states: "This is important moment for us - for past 25 years of our operations we focused on data capturing technology. By signing agreement with Orbit GT we start supplying to our clients complete technology consisting of capturing data, its processing and publishing" [www.orbitgt.com](http://www.orbitgt.com)

## AGENCY9 BRINGS WebGL STREAMING OF 3D CITIES TO IOS AND ANDROID

**Agency9** has extended its **3DMaps WebGL** support to **iOS** and **Android** devices. Large highly detailed 3D city models can now be streamed to web browsers on both tablets and smartphones with both high performance and visual quality. Using **WebGL** and **HTML5** improves usability with plugin free viewing of 3D directly in the web browser, eliminating the need for the download and installation of dedicated apps. Most available WebGL 3D solutions are pure 'model viewers', limited to show a CAD model and its closest surroundings. **Agency9 3DMaps** is capable of smoothly visualising large scale terrain and detailed textured building models on a national or global basis. Agency9 3DMaps supports 3D scenery in



common GIS formats, and is also validated with output from tools as Smart3DCapture, PhotoScan from Agisoft, StreetFactory from Airbus Defence and Space as well as LiDAR/imagery tools from TerraSolid. [www.agency9.com](http://www.agency9.com)

## DIGITALGLOBE INTRODUCES THE A3C QUALITY FRAMEWORK

**DigitalGlobe** has introduced the **A3C Quality Framework** to help customers and end users select the right imagery for their needs. DigitalGlobe is committed to enhancing their customers' experience and success by ensuring that quality is at the core of the products and services delivered. **A3C** stands for **Accuracy, Currency, Completeness, and Consistency**, which are the four pillars of image quality that have the greatest impact on performance for most applications. A3C Quality is the foundation for producing the data, information, and insight that DigitalGlobe provides to customers every day, and it is created through a series of four transformation steps. **Sourcing**, the point of origin in the creation of critical information and relevant insight. **Capture**, the process of



recording data in a lasting and consistent form. **Enrichment**, the process of creating decision-ready information. **Analysis**, the process of creating activity-based intelligence and predictive insights. [www.digitalglobe.com](http://www.digitalglobe.com)

## HYUNDAI MOTOR EUROPE SELECTS TOMTOM LIVE SERVICES

**TomTom** has announced its collaboration with **Hyundai Motor** in Europe. Hyundai drivers will benefit from TomTom's state-of-the-art connected services for seven years, starting with the launch of the **All-New Tucson SUV** in the second half of 2015. Hyundai drivers will have access to TomTom's services in their on-board navigation system - including **TomTom Traffic, Speed Cameras, Local Search** and **Weather**. The integration of the suite of TomTom's services will help Hyundai drivers

save time on the road by providing real-time traffic information. Drivers will also receive alerts for fixed and mobile speed cameras, as well as location-specific information on local shops, services and businesses and prevailing weather reports. "This deal shows that TomTom's world-class components can be integrated into various automotive system configurations to bring a great navigation experience," said **Jan-Maarten de Vries, VP TomTom Automotive**. [www.tomtom.com](http://www.tomtom.com)

## GEOFEEDIA AND IDV SOLUTIONS ANNOUNCE TECHNICAL PARTNERSHIP, INTEGRATION

**IDV Solutions**, the global leader in **Enterprise Risk Visualization** software, and **Geofeedia**, the market leader in location-based social media monitoring, has formed a technical partnership. Through the partnership, Geofeedia's location-based social media monitoring data will now be integrated into IDV Solutions' **Visual Command Center® Enterprise Risk Visualization** software. The combination of the two technologies enables security, supply chain and business continuity teams to gain instant intelligence from multiple social media networks for a myriad of risk events from a political demonstration to a natural disaster. The location-based visualization filters out excess noise to show important social media posts in the context of locations of interest, such as facilities, employee locations, supply routes or traveling executives. **Visual Command Center** helps organizations control risk by providing a real-time, operating picture of their assets, personnel and operations in relation to potential threats to those assets. [www.idvsolutions.com](http://www.idvsolutions.com). [www.geofeedia.com](http://www.geofeedia.com).



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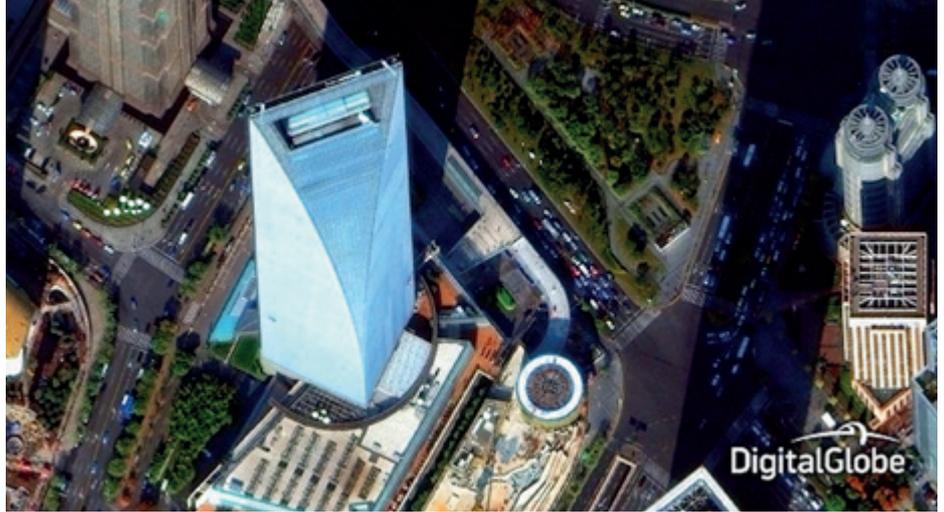
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## TERRAGO EDGE® SIMPLIFIES FIELD DATA COLLECTION WITH CLOUD HOSTING

TerraGo has announced the availability of the **TerraGo Edge** hosted solution. Now customers have the flexibility to determine the best deployment option for their organization. Whether they want to install the software on-premise or access a hosted solution, TerraGo Edge provides a cloud-based solution that lets mobile users share and synchronize GPS location notes in real-time from iOS and Android apps, or any web browser. "TerraGo Edge is designed with a modern mobile, cloud-based architecture that makes it a natural fit for organizations looking for a hosted solution," said **Dave Korte, Managing Partner, Portal Systems**. "The hosted solution enables rapid deployment of **TerraGo Edge** without the need for any IT resources, networking or server expertise," said **John Timar, Vice President, Global Business Development, TerraGo**. "This is ideal for both small organizations that lack an IT department and large corporations that want a 100% turnkey option."  
[www.terragotech.com](http://www.terragotech.com)

## INTERGRAPH® AND ESRI COLLABORATE TO SUPPORT PUBLIC SAFETY AND SECURITY

**Intergraph** and **Esri** are collaborating to enhance geospatial capabilities for public safety and security agencies. Through the collaboration, the companies will work to more tightly align **Intergraph's Computer-Aided Dispatch** system, **I/CAD**, and **Esri's ArcGIS Platform**. CAD and GIS are essential to public safety and incident management. Together, call-taking and dispatch software, maps and spatial data provide agencies with the information they need to provide for and protect the public. Solutions that work cohesively enable agencies to do their jobs quicker and more efficiently. As a first step in the collaboration, Intergraph will introduce **I/Map Editor™ for ArcGIS®**, a new product that works directly with ArcGIS for map production in I/CAD, creating greater workflow efficiencies for users of both systems. The product will be available in the second quarter of 2015.  
[www.intergraph.com](http://www.intergraph.com) [www.esri.com](http://www.esri.com)



# HIGHER RESOLUTION SATELLITE IMAGERY AN ALTERNATIVE TO AERIAL IMAGERY

**European Space Imaging** are now able to supply **30 cm imagery** from the **WorldView-3** satellite for **European** and **North African** customers wishing to use the most sophisticated very high-resolution satellite imagery on the market. This is made possible through their strong partnership with **DigitalGlobe** and the **WorldView Global Alliance**. Access to the world's highest resolution commercial satellite imagery captured by WorldView-3 satellite will improve

decision making, enable more efficient operations, and enhance a variety of applications for customers in the civil government, defense and intelligence, energy, mining, and global development sectors. Many users who were previously reliant on aerial imagery can now benefit from the improved economics, global availability, and faster refresh rate that European Space Imaging can provide with its 30 cm satellite imagery.  
[www.euspaceimaging.com](http://www.euspaceimaging.com)

## BLUESKY PURCHASES THEIR SECOND ULTRACAM EAGLE

**Bluesky International** has contracted with **Microsoft's UltraCam** business unit and subsidiary to purchase a second **UltraCam Eagle** digital aerial camera system equipped with a 100mm lens and an **UltraMount**. "We've been very pleased with the performance of our first UltraCam Eagle purchased in January 2014, and now we need to increase our aerial survey capacity to meet increased demand from new contracts, one of them being a commitment to capture 70,000

sq km of high resolution aerial photography in Ireland," said **James Eddy, Operations Director of Bluesky**. "For the resolution we require and the air traffic control restrictions, as well as the weather in the UK, the Eagle with a 100mm lens works best for us." Bluesky optimizes utilization of its UltraCam Eagles by flying in the UK and Ireland during the spring, summer and fall, and moving to sunnier locations in the Middle East and Africa for the winter. [www.iFlyUltraCam.com](http://www.iFlyUltraCam.com)

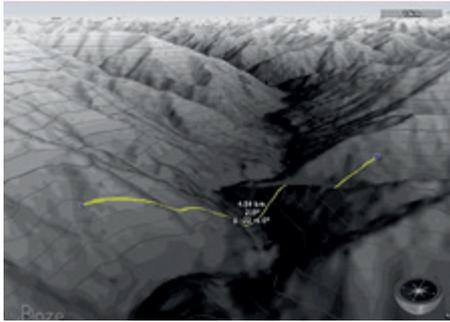
## NETCAD IN ETHIO - TURKISH BUSINESS FORUM

**Bikent Cyberpark**, one of the pioneering technocities in Turkey, organized an **Ethio-Turkish Business Forum ICT Defence** in March 2015. **Netcad Software**, represented by **Dr. Emin BANK**, used the forum as an opportunity to introduce its applications and solutions. **Netcad Software**, one of the 40 companies, which composed of many public enterprises, scientific and defense sector firms, met with many Ethiopian firms and corporations during the meetings held in **Sheraton Hotel**. **The Defense Ministry of Ethiopia, Directorate of Intelligence, Ethio Telecom, METEC** and the **Pioneer** banks are just a few of the institutions that Netcad met. Netcad



Software used this excellent opportunity to learn about the needs of the institutions like **The Defense Ministry of Ethiopia** as well as introducing its applications and solutions.  
[www.netcad.com.tr](http://www.netcad.com.tr)

## BLAZE TERRA USERS ENJOY NEWEST NASA DATA AS 3D TERRAIN WEB LAYER



**Eternix Ltd.** has added a new 30-meter global digital-terrain web layer to **Blaze Terra's** collection of instantly accessible web layers, available as of version 4.1 of the software. The new web layer, derived from

**NASA's Shuttle Radar Topography Mission (SRTM)**, depicts nearly the entire surface of the earth in 3D with impressive 30-meter posting and comes to improve **SRTM's** previous terrain data with merely 90-meter posting. The combination of high quality earth-encompassing DEM and Blaze Terra's advanced 3D capabilities enables Blaze Terra users to perform precise terrain analysis at indiscriminate locations. Blaze Terra's unique 3D algorithms and sophisticated GPU utilization allow users to further drape any complementary data, such as raster, vector, shape, video, WAMI or point cloud files on top of the terrain web layer, thus creating a rich and multifaceted 3D environment at the click of a button. [www.eternix.co.il](http://www.eternix.co.il)

## TATUKGIS SDK BEING USED BY THE SWISS FEDERAL RAILWAYS

The **Swiss Federal Railways (SBB AG)** is using the **TatukGIS Developer Kernel** for the development of its **DfA Reports** software application, which is used to manage a database of fixed railway asset installations across Switzerland. Using DfA Reports, approximately 800 individual infrastructure objects, ranging from **Tunnels** to **Power Sockets**, can be displayed, analyzed and reported on. Results of multiple report queries can be superimposed

and displayed on maps that can be generated in real time, showing the location of specified data. The data can be imported and exported in various formats and the **GIS map data** can be exported in various coordinate systems. During nightly processes, GIS data for the **Rail Network, Maximum Speeds allowed, and Electrical Power Network and Masts** are automatically generated, ensuring this GIS data is always up to date. [www.tatukgis.com](http://www.tatukgis.com)

## MAPACTION RESPONDS TO FLOODS IN CHILE

**MapAction** has sent a team of two volunteers at the request of the **United Nations** and the **Government of Chile**, in response to severe flooding in the north of the country. A state of emergency has been declared in the Atacama and Antofagasta regions where two people have died and twenty two are missing. The conditions are severe; 40,000 people are reported to be without drinking water, 53,500 without electricity and people have been asked to self-evacuate. Further heavy rainfall is likely to worsen conditions and the United Nations team anticipates it will require help with needs and damage assessments. Concurrently, MapAction has also sent a second



rotation of personnel to Vanuatu. The team's role will be to finalise the organisation's support in Vanuatu and handover to the United Nations and national mapping focal points. [www.mapaction.org](http://www.mapaction.org)

## CALIPER OFFERS 2015 CENSUS BLOCK GROUPS DATA

**Caliper** is pleased to announce that the **2015 U.S. Census Blocks Groups** data layer is now available for the entire United States. The 2015 Block Group data works with the latest versions of **Caliper's Maptitude** mapping software and **TransCAD** transportation planning software. The 2015 U.S. Census Block Groups data is packed with information about the US population and is essential for making accurate location-based decisions. The Block Groups layer contains a nationwide

area database with the American Community Survey (ACS) demographic data. Included are 2010 Census counts for 97 fields that include total population, age, gender, households, and housing units. Also included are 336 fields of 2013 ACS data describing income, population, age, race, ethnicity, households, marital status, education, language spoken, commute, employment, housing units, and housing costs. The price is US\$250 and it is available online at the Caliper Store. [www.caliper.com](http://www.caliper.com)

## BENTLEY ADDS THROUGH ACQUISITION OF CLOUD SERVICES

**Bentley Systems** has acquired the business of Oakland, Calif.-based **EADOC, LLC**, provider of construction management cloud services. This newest addition to **Bentley's MANAGEservices** offerings helps construction managers at engineering/construction management firms and infrastructure owner organizations with capital projects to easily reduce risk and staff hours, improve information quality, and provide owners with real-time visibility into costs. **EADOC** empowers facility owners to increase ROI through faster project completions, easily monitor project financial performance, and maintain detailed construction records without administrative staff. The solution, which is immediately accessible to the project team, provides fast access to documents and cost information from virtually anywhere. At the same time, it incorporates security features to make sure the right people have access to the right information. [www.bentley.com/EADOC](http://www.bentley.com/EADOC).

## IGN FRANCE INTERNATIONAL OPTS FOR SIMACTIVE'S CORRELATOR3D™

**SimActive** is pleased to announce the purchase of **Correlator3D** by **IGN France International**, the international subsidiary of **IGN France**. **IGN France International** required software for major mapping projects in Africa. **Correlator3D** perfectly fit its mandate as it offered the turnkey solution. A pioneer in the field, **SimActive** introduced the industry to GPU-based processing, and multi-core CPUs, enabling rapid processing of thousands of images. The simple user interface, coupled with highly automated and intuitive editing tools, continues to establish **Correlator3D** as the reference software for the production of high-quality geospatial data. "IGN France International was looking for a complete and simple photogrammetric solution to generate high quality results," said **Laurent Falala, Project Manager at IGN France International**. "Correlator3D™ met all these criteria." "We are pleased to see highly qualified users such as **IGN France International** join our client base," said **Dr Philippe Simard, President of SimActive**. [www.ignfi.com](http://www.ignfi.com) [www.simactive.com](http://www.simactive.com)

## EMAPSITE AND JBA EXPAND PARTNERSHIP TO DELIVER FLOOD RISK DATA

Hazard modelling specialist **JBA Risk Management** and geospatial services provider **emapsite** have broadened their partnership to offer a wider choice of essential flood risk data. Insurers, underwriters, loss adjusters and claims managers are among those set to benefit from wider availability of JBA data through emapsite's 'Data as a Service' (DaaS) on-demand location content platform. Building on their initial collaborations which are already in production with a number of customers, the expanded partnership will enable further seamless delivery of data for analysis, optimal risk selection and point-of-sale pricing. Newly-available JBA data include **Annual Damage Ratio** data, the **European Flood Model** and the **Global Flood Map**. emapsite's partnerships with organisations such as **Ordnance Survey** and the **British Geological Survey** mean it can offer a wide range of location data for insurers, including the definitive addressing of all residential and commercial properties in the UK. [www.emapsite.com](http://www.emapsite.com)

## PRAGUE ENERGY GAINS FLEXIBILITY WITH ESRI ELA

**Prague Energy (PRE)** has signed an **Enterprise License Agreement (ELA)**

with **Esri** distributor **ARCDATA PRAHA** in the Czech Republic. This makes **PRE** the second Czech utility with unlimited access to **Esri's ArcGIS** platform. **PRE** serves nearly 700,000 consumption points. Unlimited access to ArcGIS is enabling the utility to make, edit, and share data-driven maps across its organization. Everyone from administrators to fieldworkers in disconnected environments can now access, contribute to, and make decisions based on information held in **PRE's** central geodatabase. More than 10 percent of the utility's employees use ArcGIS applications on desktops or web browsers. "With this ELA, we hope to meet the growing demands on the use of GIS in our enterprise," **PRE chief information officer Miroslav Hübner** said. **PRE** celebrates its customer-centric motto Convenient Energy for You. It hopes the unlimited ArcGIS deployment throughout its utility results in more convenient information-based experiences for employees. [www.esri.com/electric](http://www.esri.com/electric).



## EUCLIDEON ANNOUNCES THE HOLOGRAM ROOM

The release of **Euclidean's Hologram Room** combines **Euclidean's Unlimited Detail Engine, Solidscan® and Geoverse®** technologies to place users in a physical space occupied by incredibly life-like content copied from the real world. Utilising Euclidean's revolutionary **Unlimited Detail 3D** visualisation technology and specialised electronic hardware developed by Euclidean, a Holographic Room allows a user to be "transported" into a 3D environment and to explore and interact

with that environment. These environments can be copies of the real world captured by laser scanners, other 3D data capture devices, imaginary worlds created by CAD or other 3D imaging software, or a combination of both. There are many applications for these Hologram Rooms under development by Euclidean. Once a conceptual technology that the world has been imagining and waiting for, for a long time - is now a reality. [www.meixnerimaging.com](http://www.meixnerimaging.com).

## GAF COMPLETED EXTENSIVE FIELDWORKS CAMPAIGN IN DARFUR, SUDAN

**GAF AG** has successfully accomplished the extensive fieldwork programme in its **Darfur Natural Resources Mapping and Database Project** carried out for the **Darfur Land Commission (DLC)**. It is so far, the largest comprehensive and most up-to-date inventory and capacity-building project on the natural resources and ecological potential of this 500,000 sqkm **Saharian/Sahelian** region. The field data collection started in 2011 and has been continued over several dry and wet seasons up to end of January

2015. Thematic areas covered are Geology and Minerals, Water Resources, Geomorphology and Soils, further Ecology, Biology and Biodiversity, Land Cover and Land Use and Socioeconomic Conditions and Livelihoods in selected population centres. A wealth of Earth observation and existing data served as the preparation base. Recent field data and Darfur wide mapping, including change detection at different scales, will now deliver accurate planning data for regional development measures. [www.gaf.de](http://www.gaf.de).

## MONET'S PAINTING CONFIRMED GENUINE BY SPECIM'S HYPER SPECTRAL CAMERA

**Claude Monet's** 1891 work **A Haystack in the Evening Sun** was found to be genuine by researchers at the **University of Jyväskylä** in the **Department of Mathematical Information Technology**. The research team revealed a layer of paint over Monet's signature, and year of the oil painting by using a **hyper-spectral camera** developed and produced by **SPECIM**. The study used the hyperspectral camera with an **XRF** device, which reveals the work's elemental composition. The hyperspectral camera took an image of 256 different wavelengths simultaneously in the near-infrared region. The camera is principally operating as a scanner, which scans one line at a time.



The optics include a prism structure which diffracts the light's wavelength order, a custom-made sensor is used capable of recording infrared radiation. When the camera is moved using the scanner an image of the whole picture can be obtained. [www.specim.fi](http://www.specim.fi)