

2014 RESOURCE DIRECTORY



This Directory provides our membership, and the broader professional community, with a useful resource and an informative view of the leading companies and organizations in the remote sensing and mapping sciences. The Corporate Descriptions generally present an overview of the organization plus contact information.

Note that all of the material included in this Directory, along with realtime search cap-ability for locating sustaining members by geographic area, product and/or service is also available online at <http://www.asprs.org/Sustaining-Members/Sustaining-Member-Search.html>

Corporate descriptions featured in the 2014 Resource Directory are provided by ASPRS Sustaining Members. We make every attempt to obtain updated information from our Sustaining Members. If you discover incorrect information anywhere in the 2014 Resource Directory, please let us know and we will correct it on the ASPRS web site.

If your organization would like to enjoy the benefits of being an ASPRS Sustaining Member, please go to <http://www.asprs.org/Join-Now/Corporate-Sustaining-Membership.html> or contact our Membership Department for more information: 5410 Grosvenor Lane, Suite 210, Bethesda, Maryland 20814; 301-493-0290, ext. 104/109; fax 301-493-0208; sokhanh@asprs.org or members@asprs.org; www.asprs.org.

Dr. Michael Hauk
ASPRS Executive Director

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3D Laser Mapping Ltd. specialises in providing systems for capturing, analysing and distributing geospatial business intelligence. In addition to our ground-breaking products StreetMapper and SiteMonitor, we develop bespoke solutions that enable our customers to operate efficiently in a rapidly growing geospatial marketplace.

Established in 1999, our technology draws on years of experience integrating laser scanners in innovative ways. Achieving unique solutions for the mining, mapping and modelling industries and through long-standing partnerships with leading suppliers at the forefront of their technology areas, we are able to deliver high value and dependable information to our customers.

Operating globally through offices in the UK, South Africa and Australia, we are able to provide front-line support to a prestigious list of clients and a network of distributors.

AFRICA OFFICE DETAILS:

3D Laser Mapping International Ltd (Inc in UK)
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Aechelon Technology Inc.

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Aechelon Technology, Inc. is a leading provider of visual simulation image generators, associated geospecific visual and sensor databases, realistic 3D models and integration services for the US Government and Government Prime Contractors.

Throughout its thirteen year history, Aechelon Technology has maintained an unparalleled track record in program deliveries for the US Marine Corp, US Navy, US Air Force, US Army, Special Operations Command, US State Department Foreign Military Sales program and US Coast Guard, with all excellent Past Performance Evaluations.

Aechelon Technology's flagship products pC-NOVA™ established a new standard for realistic image generation and sensor simulation using large scale multi-spectral database processing and Aechelon Nexus™ centralized storage in tactical training, foreign-area familiarization, and mission rehearsal applications. Aechelon Technology products use only enterprise-quality commodity PC components, yet achieve performance far greater than custom, purpose-built systems.

Aerial Cartographics of America, Inc. (ACA)

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Established in 1973, **Aerial Cartographics of America, Inc. (ACA)** is a certified Small Business Enterprise (SBE) that provides customized geospatial services. Our professional personnel are trained in the latest technical innovations and our equipment is state of the industry. Built on a reputation for service and

quality, our clients have come to rely on our experience and knowledge for developing unique approaches to a specific project's needs. ACA is well known as a leader in the mapping profession across the United States, and especially here in Florida, for all of the markets we serve; Transportation, Rail, Energy Utilities, Government Agencies, Aggregates/Mining, Coastal/ Environmental and Airports.

ACA is experienced in LiDAR, Mobile LiDAR, Digital Imagery and HD Video acquisition and processing, and is uniquely qualified in high accuracy, simultaneous data collection using multiple sensors from fixed wing aircraft, helicopter or ground based vehicle. Our advanced digital sensors include:

- *Riegl VMX 450 Mobile Laser Scanning System*
- *Riegl LMS Q680i airborne LiDAR sensor*
- *Vexcel UltraCamX large format digital camera*
- *Vexcel UltraCam Eagle large format digital camera*
- *Leica RCD 30 medium format digital camera*

Our main production facility is located in Orlando, Florida with a satellite photogrammetry and surveying office in Miami, Florida. ACA's personnel is comprised of 6 Licensed Professional Surveyors and Licensed Photogrammetrists, 2 ASPRS Certified Photogrammetrists (CP) and over 40 full time employees; many with more than 20 years of experience working at ACA. ***Innovative and Accurate Mapping Solutions*** are the cornerstone of ACA; it is our goal is to offer our clients the very best in technology, customized methodologies and the upmost in customer service in order to provide the specific data required to accomplish their project goals.

MIAMI OFFICE

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Aerial Services, Inc. (ASI) is an integrated team of professionals providing premier services and products to government, utilities, engineers, and other

geospatial customers. Based in the Iowa heartland for over 40 years, Aerial Services' Midwestern work ethic, cutting-edge technology, and experienced staff combine to harness the power of geographic information and provide solutions you need.

ESTABLISHED PROVIDER THAT DELIVERS

Aerial Services, Inc. is an established provider of customized geospatial solutions. With an integrated team of professional technicians, Aerial Services will exceed your expectations while delivering on promises. Their experience with and mastery of emerging technology ensures your mapping project is accurate, on-time, and within budget.

START TO FINISH THEY MAKE YOUR LIFE EASIER

Aerial Services takes your mapping project from initial concept to final application. They'll start by working with you to determine your specific needs. Then, depending on your requirements, they'll deploy flight crews to acquire aerial photography, execute post-process of imagery, develop scale maps, output data for you and your colleagues to access, or create unique software to solve a problem. No matter what your project requires they will make it a success from start to finish or with any component in between.

HELP YOU NEED - WHEN YOU NEED IT

Aerial Services works with you to ensure your mapping objectives are achieved. They'll ask the right questions to develop a plan of action that meets your needs. Then they will deliver on those promises. They know you'll have questions, so they are always accessible to answer all of your inquiries. If changes in plans arise, they'll make it right by working with you to create an acceptable solution.

CURRENT TECHNOLOGY SOLVING YOUR PROBLEMS

Technology is always evolving in the geospatial industry and so is Aerial Services. They embrace useful technology to increase the efficiency of your project. Plus, it allows them to provide value added options and develop custom software suites derived from technological advances. This foresight into what is next makes your investment more useful and ensures your organization is prepared for the future.

MIDWESTERN MENTALITY MEANS SUCCESS

Located in the charming Midwestern town of Cedar Falls, Iowa, Aerial Services has become the largest small firm of their kind. This allows them to provide all of the services of the large geospatial providers with the attention to detail and personal service of smaller operations. Their four decades of experience backs up this claim with repeat customers from utility giants, engineer firms, all levels of government, and many other sectors.

ALLOW AERIAL SERVICES TO SERVE YOU

With a full line of quality geospatial products and services, an experienced crew of talented team members ready to serve you, and insight on tomorrow's technology today, Aerial Services stands out among the rest. Call Aerial Services to inquire about your custom geospatial solution. Allow Aerial Services to serve you and deliver the solution you need. Visit www.AerialServicesInc.com or call 319-277-0436 today.

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Aero-Graphics provides comprehensive geospatial mapping services to clients across the United States. Our acquisition technology includes a large-format digital camera, a state-of-the-art LiDAR sensor, and helicopter platform for low altitude, high point density project requirements. Aero-Graphics owns and operates a full-time aerial acquisition service with multiple aircraft, allowing for complete control of its flight schedule. With professional land surveyors, certified photogrammetrists, and certified GIS professionals on staff, we ensure the highest quality mapping standards are maintained. The latest LiDAR processing and softcopy systems are utilized to produce digital topographic mapping, bare-earth and custom-classified point and raster data sets, and orthorectified imagery for clients in government, civil engineering, mining, and utility sectors. As an industry leader, Aero-Graphics specializes in high-quality digital mapping delivered on schedule at competitive prices. We continue to strive to remain at the forefront of mapping technology, and thus provide our clients with the solutions that most efficiently meet their needs.

AeroTech Mapping Inc.

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AeroTech Mapping (ATM) has demonstrated photogrammetric expertise and capabilities on over 5,800 successful imaging and mapping projects throughout the greater Southwest, since 2002. Our dedication to client service coupled with our commitment to providing highly accurate and aesthetically pleasing products has allowed us to greatly expand our client base throughout the region. Time after time, ATM has proven to be an aerial mapping firm which is equipped with all the necessary tools and personnel to produce the highest quality aerial mapping products. At all times, we strive to exceed expectations in all areas, including communications throughout the life cycle of a project as well as scheduled deliveries of final products.

ATM is a company with innovative ideas created and staffed by personnel with many years of experience in the photogrammetric business. Our objectives are to provide sound, affordable solutions to our clients' photogrammetric needs. Our philosophy is to provide quality photogrammetric services and manage those activities with a senior level management team. This management team is comprised of a good mix of talented, aggressive, and proven aerial mapping professionals. Our staff has a diversified background that has established an outstanding reputation for providing quality products and services. ATM possesses the capabilities and technical knowledge to provide quality services on all photogrammetric projects. It is our goal to assist and offer suggestions on our clients' needs and potential problems.

AGFA Materials Corporation

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Agfa Materials Corporation provides a complete selection of aerial film products including color and black and white data capture films, copy films and papers, along with color and black and white processing chemistry. Agfa Materials offers :Apertune Image Enhancement software, enabling total image control and enhancement after scanning to improve your digital work flow. Agfa Materials provides consulting and technical support through our experienced North American aerial sales team.

The Airborne Sensing Corporation

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The Airborne Sensing Corporation, operating since 1981, has been involved in a variety of aerial photographic survey and photo finishing projects. Over the past 30 years+ Airborne Sensing has developed from a one person sole proprietorship to a team of 10 permanent staff which includes aircrew, and survey specialists. Since our inception, we have conducted countless national and international aerial surveys for cadastral, coastal, corridor, resource, rural, urban, wildlife and utility purposes. Our work has taken us offshore, as well as over deserts, jungles and mountains.

Over the years Airborne Sensing has invested considerable sums in applied research resulting in being an earlier adopter of KGPS technology, KGPS/IMU direct geo-referencing, image scanning and large format digital frame camera technology. We also developed Canada's first Helicopter based Very Large Scale Photogrammetry capability, Recently we have tested simultaneous LIDAR/VEXCEL acquisition. Our services and

products have consistently met and exceeded Municipal, Provincial & Federal Government standards for accuracy, quality and timeliness. Our outputs enable our clients to directly start compilation without them having to execute ground control or aerial triangulation. When called upon we can produce full orthos.

Our theatre of operations stretches from the Pacific, to the Arctic, the Atlantic and south of the Equator.

Our staff are capable of speaking reading and writing in 3 languages and we have completed air survey projects in over 14 countries. Current aircraft include 2 Piper Aztecs, 2 Piper Navajo (each with dual ports for simultaneous large format sensor acquisition) and 1 Gulfstream Commander 840. All aircraft are capable of flying over 25,000' ASL. The survey and sensing gear currently owned and operated by us includes VEXCEL ULTRACAM, APPLANIX POSAV, SOMAG GSM and NOVATEL GPS. Software includes ULTRAMAP, GRAFNAV/GRAFNET, POSPAC MMS/INPHO MATCH-AT and ORTHOVISTA, BINGO, GLOBAL MAPPER.

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Air Photographics, Inc. (API), founded in August 1960, is a service-oriented aerial photography firm that specializes in precision aerial photography used for mapping purposes.

EQUIPMENT & SERVICES

- Four Twin-Engine GPS-Equipped Aircraft
- Airborne GPS
- Airborne IMU Data Collection & Processing Services
- Leica RC-20 & RC-30 Cameras with FMC
- Stabilized Camera Mounts
- Focal Lengths 3.5", 6", 12"
- Leica/Helava DSW700 Photogrammetric Scanner
- Full Service Custom Photo Lab

Air Photographics, Inc. (API) range of operations is primarily in the states east of the Mississippi River. We welcome the opportunity to fly photo missions throughout the continental United States.

API customers are predominantly mapping firms that use our services rather than maintain their own costly flight department, or call on us to supplement their own aerial photo capability.

Our aircraft are hangared at the Eastern West Virginia Regional Airport, an all-weather Air National Guard facility. Our 11,000 square foot flight office and photo lab are situated adjacent to the hangars, assuring fast turn-around for film processing and editing after completion of photo missions.

Leica, Inc. is our principal source for aerial cameras. We have 4 aerial mapping cameras, Two RC-30's and two RC-20 drives equipped with new 6" 'S' series lenses. We have one 12" lens and one 3.5" lens.

Flight line navigation and photo centering is achieved using a GPS flight management system.

We provide Airborne GPS data collection and post processing services. Our GPS receivers are Novatel dual frequency.

We also offer airborne IMU (Inertial Measurement Unit) data collection and processing services, using the Applanix POS/DG and POS/AV systems. Use of this service reduces the number of required ground control points, as well as aerial triangulation time, by providing omega, phi & kappa in the post-processed file.

Air Photographics, Inc. obtains imagery in a variety of media. Film types include black & white, color negative, color positive, false color infrared, and black & white infrared. We also provide hand-held 12.8 mega pixel digital aerial photography.

The API aerial photo library is both current and historical, with some coverage dating back to 1948. Our custom photo lab produces Contact Prints and Film Diapositives. We offer precision photogrammetric scanning for softcopy and digital orthophoto applications.

Custom digital prints, available in color or black and white, are available up to 44" x 80". We use archival inks on premium archival acid-free photo paper. Prints can be cropped to your specifications, color balanced, and retouched/restored.

Our success is attributed to our commitment to maintaining the highest standards of quality and service, using the best equipment available and a staff of experienced and dedicated employees.

Altavian

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Altavian manufactures the Nova family of small Unmanned Aerial Systems (sUAS), built with the

primary purpose of meeting the challenging demands of the photogrammetry and remote sensing communities. While the Nova payloads also include low-cost non-metric, multispectral, and gimbaled thermal IR + Full Motion Video (FMV), Altavian's principle focus is designing their systems on a solid foundation of photogrammetric principles. The Altavian autonomous navigation system has been customized and designed to dynamically adjust to weather conditions, ensuring sufficient exposure overlap to create orthomosaics without repeating a mission. The onboard dual-frequency GPS/IMU available on the metric payload facilitates faster post-processing times while also resulting in precisions and accuracies achieved by few competing technologies. Our metric payload acquires data at a native 14-bit spectral resolution allowing for faster and easier radiometric adjustments that result in a nicely color balanced end data product.

Our focus is on providing the affordable economy of scale required to acquire data for smaller-sized areas of interest, normally not able to be acquired cost-effectively using traditional manned airborne systems. Additionally, our customers are able to swap and configure their payloads effortlessly, allowing them to conduct a precision agriculture remote sensing project on one day while performing a 1cm orthoimagery project the next day, using the same aircraft. Whether your mission is for precision agriculture, natural resource assessments, or traditional aerial surveys, Altavian has all of your bases covered.

American Surveyor Magazine

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The American Surveyor (www.amerisurv.com), a magazine created by surveyors for surveyors, delivers to the reader's doorstep a one-of-a-kind publication that informs, educates, entertains, and inspires. Drawing from fifty years' of experience in all aspects of land surveying—from field to management, and technical support to journalism—editor and licensed surveyor Marc Cheves understands the profession from the ground up. Since the late 1970s he has worked with surveying technology and brings information to the readers that they simply won't find anyplace else. Cover to cover and issue to issue the contributing

editors highlight topical news and information, technology breakthroughs, product reviews, business advice, industry trends, controversial issues, and challenges that lie ahead.

GISuser.com (www.gisuser.com) provides daily industry news updates, product reviews and announcements, tutorials, data directories, and much more. Developed and managed by popular GIS media analysts, Glenn Letham and Richard Bremer, GISuser.com is the next-generation online community resource for the geospatial technology user.

LiDAR News (www.lidarnews.com) promotes the adoption of LiDAR and 3D laser scanning technology. Dr. Gene V. Roe, Managing Editor, leads an expert editorial team, bringing insights and commentary to readers via LIDAR Magazine, eNewsletters, blogs and social media.

Spatial Media, publisher of GISuser.com, LiDAR News, Machine Control Magazine and other brands is a subsidiary of Cheves Media, publisher of The American Surveyor magazine. The companies are strategically aligned to develop their "Spatial Communities" vision.

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CORPORATE OVERVIEW

Applanix, a wholly owned subsidiary of Trimble, develops, sells and supports advanced products and scalable solutions that maximize productivity through Mobile Mapping and Positioning. With global reach and innovative engineering excellence recognized worldwide, Applanix' Position and Orientation Systems (POS™) are now the industry-standard for airborne, land, and marine survey applications.

MARKETS SERVED

Applanix systems integrate precision GNSS with advanced inertial technology to provide uninterrupted measurements of the position, roll, pitch and true heading of moving vehicles. By combining GNSS and inertial technologies, Applanix offers a fully integrated, turnkey solution for high-productivity in-motion surveying, continuous positioning, direct data georeferencing, and robust mobile mapping.

MAJOR PRODUCTS FOR PHOTOGRAMMETRY AND REMOTE SENSING

Using its industry-leading GNSS-Inertial technology,

Applanix offers a number of key products and solutions:

- POS AV™ (Airborne Vehicles): GNSS-Inertial systems for Direct Georeferencing of airborne sensors. Purpose built for use with aerial cameras, line scanners, synthetic aperture radar, and LIDAR, POS AV improves the efficiency and reliability of aerial mapping.
- POSTrack™: GNSS-Inertial Direct Georeferencing and Flight Management System in a single, easy to use package.
- POSpac MMS: GNSS-Inertial post-processing software optimized for the airborne environment. Featuring the advanced Applanix SmartBase™ module and Applanix IN-Fusion™ technology.
- The Direct Mapping Solution for UAV's (DMS): a complete and ready-to-integrate solution for direct georeferencing on unmanned aerial platforms.

TECHNICAL SUPPORT AND SERVICES

Every product comes with Applanix' commitment to first-rate customer support. Whether you're looking for information on using your system with a new sensor, or simply need to outsource some data post-processing during a busy period, Applanix customer support is dedicated to helping you get the most value out of your product. At Applanix we understand the unique demands of aerial mapping – our goal is to keep you flying, and keep you successful.

FACILITIES

Applanix truly is a global company. In addition to the Head Office in Richmond Hill, Canada, Applanix is establishing regional sales and support offices in Europe and the United States to better meet current and future clients' needs. For customers in other regions, Applanix products are available through a worldwide network of sales agencies.

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Founded in 2001, Axis GeoSpatial is a multidisciplinary, full-service photogrammetric aerial mapping firm specializing in providing and updating the core information required in GIS and engineering applications. Headquartered in Easton, Maryland with branch offices in Rochester, New York and Boulder,

Colorado, we employ unparalleled project management and state-of-the-art technology using precision aerial imagery and specialized equipment. Employing a talented staff of geospatial experts specializing in GIS strategic planning, consulting, development and integration, we have assembled a team of geospatial professionals who have extensive experience in managing and performing citywide, countywide and regional mapping projects throughout the USA and abroad. Axis GeoSpatial is known for dependability, accuracy, and superior quality with a consistent track record in meeting technical requirements on-time and on-budget.

AERIAL DATA ACQUISITION SERVICES

- Conventional Aerial Photography/Fixed Wing Flight Services
- Digital Aerial Mapping & Processing
- Helicopter Flight Services
- Lidar Terrain Mapping
- Black & White Photography
- Color Photography
- Color Infrared Photography
- Spot-Shots & Oblique Photography
- Enlargements

PHOTOGRAMMETRIC SERVICES

- Planimetric Mapping
- Terrain Modeling & Topographic Mapping
- Digital AeroTriangulation
- Digital OrthoImagery
- Data Review & Quality Assurance
- High Resolution Film Scanning
- Image Processing & Analysis
- Photointerpretation

GIS SERVICES

- GIS Strategic Planning, Development & Implementation
- E911 Mapping
- Spatial Analysis & Impervious Area Calculations
- Suitability Modeling
- Proximity Analysis
- 3D & Topographic Mapping
- CAD/GIS Translation
- Database Design
- Training

MAPPING & GIS SOLUTIONS

- Emergency Management
- Public Works
- Planning & Zoning
- Transportation
- Assessment
- Homeland Security
- Forestry
- Environmental Consulting
- Defense

ENGINEERING APPLICATIONS

- Long Range Planning
- Sub-Division Planning & Design
- Commercial & Residential Site Planning
- Sewer & Water Design
- Plant/Facility Planning & Management
- Roadway Design
- Storm Water Management
- Utility Management
- ALTA Surveys
- Landfill/Quarry Management
- Topographic Surveys
- As-Built Surveys
- Volumetric/Quantity Calculations

Ayres Associates

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Responding to the evolving needs of our clients – that’s what we’ve been doing for half a century. And we’ve brought this client-focused philosophy to mapping projects around the country, from the Rocky Mountains of Colorado to the lakes and forests of Wisconsin, from the complex river valley system of central California to the dynamic ecosystems of Florida’s coast

Need momentum to build a consortium? Large-scale, multi-entity projects are a smart, cost-effective way to acquire valuable spatial data. We’ve been a leader in mapping consortium formation.

And when it comes to utility corridor development, not only can Ayres Associates provide the mapping and imagery services so integral to these types of projects, but we also have the experience to manage them.

From data development to data distribution, Ayres Associates’ ability to provide comprehensive spatial data services means clients enjoy the benefits of a single source for all of their mapping needs. In an industry characterized by frequent innovation, we never lose sight of the fundamentals: Mapping methods may change, but the importance of quality and reliability remains constant.

SERVICES INCLUDE:

- Aerial imagery acquisition
- Planimetric and topographic mapping
- Digital terrain modeling

- Digital orthophotography
- Remote sensing
- Aerial and Ground-based LiDAR
- GIS consulting, training, and development
- GPS and conventional surveying

Geospatial mapping and imagery production is headquartered in our Madison, Wisconsin, office.

BAE Systems

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BAE Systems is an industry leader in developing geospatial technology, software and services. Our leading-edge technology and customer service, based on more than 40 years of experience, brings together a mission-focused, cost-sensitive and sustainable geospatial program.

The Geospatial eXploitation Products (GXP®) business builds software used to optimize workflows for large and small scale mapping applications with SOCET GXP and GXP Xplorer. Our Geospatial Products & Solutions Group (GP&S) specializes in providing geospatial imagery tools and solutions, exploitation, and advanced information technologies to support commercial, intelligence, and homeland security markets.

SOCET GXP encompasses the photogrammetric capabilities of SOCET SET® along with advanced image comparison and 3-D visualization to streamline production. Automatic Feature Extraction functionality works with LiDAR to extract accurate 3-D building features and trees from digital surface models (DSM). Enhancements to NGATE generate a DSM with sharp building edges and corners to produce high quality, high resolution stereo images. Developments in hyper-spectral, multispectral and synthetic-aperture radar image processing enable real-time image classification integrated with geospatial tasks while advanced triangulation functionality uses data in its native format for increased accuracy.

GXP Xplorer and GXP Xplorer Mobile provide an environment to organize and share cataloged information from multiple data stores through Web-based connectivity. Integration with SOCET GXP delivers access to features and functionality for image processing and geospatial production.

Whether you work for a utility or transportation firm, a federal, state or local government agency, or our

armed services, BAE Systems delivers innovative and reliable geospatial information and solutions. The GP&S line of business navigates you through the world of evolving sensor technology, conflicting software formats and massive data. We can build or acquire data, pull in and leverage existing best-of-breed Web and Cloud services, and we can develop and customize GIS desktop and server-based tools to meet your specific needs.

FOR MORE INFORMATION, PLEASE CONTACT:

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Since 1975, *Point of Beginning*, also known as *POB*, has been serving the surveying and mapping profession as an informative national publication. In recent years, we've added electronic media including eNewsletters, a comprehensive website, digital magazines and an industry bulletin board, www.RPLS.com. As our mission states, we are dedicated to helping the geomatics industry succeed through our coverage of new applications and evolving technologies, practical solutions to surveying and mapping problems, and business, legal and educational issues. BNP Media publishes *POB* twelve (12) times per year with its main distribution in the United States. Our average BPA-qualified circulation per issue is 38,005.* Target markets are high-level professionals in the surveying, mapping, engineering and related geomatics fields. *POB* is FREE upon request to qualified subscribers in

the United States; foreign subscriptions are available for an annual fee. www.pobonline.com
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Bohannan Huston, Inc. (BHI), a civil engineering and geospatial data services company, is a nationally recognized leader in all facets of Spatial Data Technologies. During more than 50 years of providing services to public and private clients, our firm has helped clients visualize projects, optimize resources, and realize the best solutions. Currently, BHI is approximately 180 employees strong with its main office located in Albuquerque, New Mexico and branch offices in Las Cruces, New Mexico; and Denver, Colorado.

The highly trained Spatial Data team can survey and map a project, develop project data through a variety of interactive and automated processes, customize and develop software applications that address specific client needs, create virtual sites with digital visualizations and modeling, and solve project problems using digital imagery, presentation, and media tools. One of BHI's ongoing goals is to harness the latest information technologies in order to ensure all clients are provided with the most accurate and useful information derived from the most appropriate source, whether that be aerial photography, satellite imagery, LiDAR, radar or multi-spectral.

BHI has made a commitment to shaping and guiding the future of technology through investment in software, CADD, web, information technologies, and graphic expertise. The firm has earned a reputation in the industry in the development of engineering software design tools. In addition, BHI offers CADD training and implementation services, and web development. The Information Technologies staff supports BHI internally, and is available to support client IT needs. Images PlusSM, using spatial and design data generated by the other two business units, takes a project to the virtually real world so client aspirations can be visualized.

Cardinal Systems, LLC

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Cardinal Systems offers Vr Mapping, the result of over 25 years of development, which includes a variety of software modules for use in the mapping community. Its flagship program, VrOne®, is a powerful mapping, vector collection and editing system with Digital Terrain Modeling, batch processing, image handling, data translations and application overlaying. Other features are on-demand autocorrelation, DTM processing and image manipulation such as sampling, tonal balancing, splicing, feathering, simple rectification and orthophoto generation.

Cardinal's VrLiDAR module integrates LiDAR into the time tested Vr Mapping software. This package allows the display and editing of LiDAR point data in 2D and in true three-dimensional stereo. The four configurations available in VrLiDAR enable vector entities to be collected and edited using the extensive VrOne/VrTwo mapping tools which include over 200 commands and 140 mapping applications. Within the 3D ViewPoint environment, this vector data can be collected and edited over raw point clouds. VrLiDAR meets the growing demand to collect the same vector data from LiDAR in the form of points over photographic stereo images or from point clouds without any photography.

Our latest additions are VrAutoTie and VrBundle. VrAutoTie automatically ties images together without GPS or camera data. It requires no DEM data and the input of user parameters is minimal and intuitive. VrBundle offers the ability to adjust difficult geometries including UAS, oblique, high oblique, close range and coincident cameras without GPS or other camera position estimates. This package is rigorous, allows automatic rejection of bad measurements, supports GPS/IMU input, solves for BoreSight, and has camera self-calibration capability.

Our products include VrOne, VrTwo, VrLiDAR, VrOrtho, VrMosaic, VrBalance, VrAirTrig, VrAdjust, VrAutoTie, VrBundle, VrVolumes and VrLite. We offer in-depth, comprehensive training in your offices or at our training facility in Florida and we provide prompt and thorough support services. For more information, please visit our webpage at www.cardinalsystems.net.

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Certainty 3D offers LiDAR data processing solutions for Riegl, Leica, Optech, Z&F, Faro and other systems. Certainty 3D's primary focus is the extraction of high quality CAD deliverables from point cloud and calibrated image data. Certainty 3D also offers freeware applications for LiDAR project planning, scheduling and cost estimation.

Certainty 3D's primary product is TopoDOT, a CAD application used to deliver value from LiDAR system data. TopoDOT empowers our users to extract high quality CAD deliverables from tripod, mobile and airborne LiDAR system data. TopoDOT offers the markets highest performance at a very low price--making it the market's best value.

The Certainty 3D team have been at the forefront of LiDAR systems application over the past 18 years. Certainty 3D was founded in 2011 as a spin-off from Riegl USA, a leader in LiDAR technology. The Certainty 3D team offers worldwide support, training and development capabilities from Orlando, Florida USA.

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Col-East, Inc., founded in 1952, has become a leader in providing the Northeastern US engineering and survey community with the highest quality digital mapping and orthophotography possible. In our view quality mapping includes a high degree of accuracy, careful

attention to detail and completeness, and requires consideration of the needs of the client regarding delivery format and schedule.

Our clients range from individual landowners to the Federal Government and include foresters, architects, planners, surveyors, engineers, landscape architects, attorneys and universities. Our work is used for conceptual planning through construction design for infrastructure work (roadway/highway and sewer/water construction or reconstruction), residential and commercial development, watershed studies, and environmental assessment and remediation.

We operate an Aero Commander 500B aircraft equipped with a Zeiss LMK 2000 camera, with gyro-stabilization and forward-motion compensation. Our flight crews have several decades of experience working in the congested airspace found in the north-eastern United States. Flight planning, navigation and indexing are accomplished through GPS.

We operate our own black and white laboratory, equipped with Kodak Versamat film processor, Kodak 125 print processor, Actii Copius camera/enlarger, EPC UDS-1 contact printer, etc. In addition to supporting the mapping department the lab prints thousands of contact prints and enlargements each year from our extensive historical library of photography.

Since the early 1980's we have built an extensive library of current mapping photography on a speculation basis. The coverage extends from Massachusetts and Rhode Island to southern New Hampshire, central Connecticut and eastern New York. In addition to providing our clients with reasonably priced photo products it enables us to make the maximum usage of our short New England flying season and provide our clients with mapping on short notice during the rest of the year.

We perform our own digital aerotriangulation with a DVP-AT Workstation and AeroSys»AT software. Our seven stereoplotters include (3) KLT Atlas DSP WorkStations, (1) DVP Digital Softcopy WorkStation, (2) Kern DSR-11's, and a Zeiss C-120. Digital orthophotos are produced on our KLT DSP WorkStation. Scanning is performed on a Wehrli RM-1 Rastermaster. All mapping work is performed in the KLT ATLAS environment. Data is edited off-line and translated into delivery form according to instructions from the client using KLT and in-house translators.

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CompassData

CompassData is a worldwide provider of high-quality Ground Control Points (GCP) and field data collection services for GIS, photogrammetric and remote sensing applications.

Established in 2003 as a woman-owned small business, CompassData has developed standardized methods of collecting and processing GPS ground control that ensures every point is globally consistent regardless of where it was captured. Every GCP meets or surpasses rigorous standards for quality and accuracy.

CompassData performs custom collection of ground control and data sets for clients worldwide through highly experienced in-house geodetic survey teams and an international network of select partners. GCPs can be captured and delivered with guaranteed quality anywhere in the world within two to six weeks of order placement

Off-the-shelf GCPs are available for immediate purchase from the CompassData online database, the world's largest commercial GCP archive containing over 26,000 photo-identifiable points in 100 countries. CompassData makes the GCP data and metadata available for viewing and direct download in a reduced-accuracy format from its website to enable clients to review points and license details before ordering the final data in the accuracy level required.

Used extensively to orthorectify or correct aerial, satellite and UAS imagery as well as LiDAR data, CompassData GCPs are utilized to verify the accuracy of imagery, LiDAR and GIS datasets. Remote sensing satellite operators also use GCPs to calibrate newly deployed sensors. CompassData routinely provides archived and new GCPs to gas and electric utilities, energy exploration companies, government offices, geospatial product vendors, and telecommunications organizations. Each GCP is processed to CompassData accuracy specifications and delivered with accompanying metadata and station diagram describing how it was acquired.

The standard delivery format is WGS84, and CompassData offers optional deliveries in any datum, projection and epoch required by the client.

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CRC Press is a premier publisher of scientific and technical works, reaching around the globe to collect the latest essential reference material and the newest industry advances in GIS and make them available to researchers, academics, professionals, and students in a variety of accessible formats. Our collection of GIS, Remote Sensing and Photogrammetry resources are at the forefront of promoting knowledge and the latest information to those in the scientific community. Written by the best scientists and experts in their respective fields, CRC Press aims to provide the most useful and comprehensive content in the industry.

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CRITIGEN (formerly CH2M HILL)

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Critigen is the world's largest privately-held spatial information consulting firm and a global leader in data management, technology integration and IT outsourcing. We leverage spatial location data, business intelligence tools, and award-winning cloud computing to drive positive financial results and enterprise collaboration for public and private clients. For over 20

years, Critigen has helped clients harness the power of data standards and near real-time database integration to access, organize and communicate mission-critical information. We are also a Platinum partner of ESRI and a Trimble Business Partner.

Formerly known as Enterprise Management Solutions (EMS), Critigen was created as the information management division of CH2M HILL's 64-year, \$6.3B engineering, consulting, and construction business to support their large-scale projects. EMS divested from CH2M HILL in 2009 and became Critigen.

Critigen's Geomatics Survey & Mapping (GSM) highly experienced professionals consist of registered civil engineers, licensed land surveyors, ASPRS-certified photogrammetrists, GIS/LIS scientists, GIS analysts, digital imaging specialists, 3D stereo plotter operators, software programmers, and mapping technicians. Senior staff members average more than 20 years of experience and serve as client service managers, project managers, task managers, technical consultants, and quality control reviewers. Our staff has deep domain expertise in all aspects of spatial information management with project experience ranging from initial planning to final delivery. With comprehensive in-house mapping capabilities on land and underwater, Critigen can provide our clients with innovative solutions to meet the most demanding project requirements.

Critigen's GSM professionals leverage the industry's latest hardware and software technologies and innovations. These systems include: resource and geodetic grade GPS receivers, digital softcopy workstations, LiDAR processing and editing software, planimetric feature mapping, digital terrain modeling, topographic contour production, and 3D laser scanning. Critigen vendors include products from ESRI, Bentley, Intergraph, Trimble, Lecia, Z/I Imaging, ERDAS, Autodesk, Microsoft, Oracle, Safe Software, and DAT/EM.

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DAT/EM Systems International is a leader in the development of software for digital mapping and photogrammetric applications. Currently, DAT/EM Systems serves over 400 photogrammetric firms, engineering firms, and government agencies in more than 70 countries world-wide. We take pride in a

reputation for delivering quality systems and superior customer service at a fair price. DAT/EM Systems International has been providing world-class mapping solutions to clients since 1987. With an ever-changing technological climate in the mapping world, DAT/EM Systems stays committed to continued development and implementation of state-of-the-art software and hardware for digital mapping applications. DAT/EM Systems employs highly technical and creative personnel, integrates cutting-edge technology, and performs business transactions in an honest and open manner. DAT/EM Systems makes mapping easier and provides precise data collection and fast, smooth, vivid 3D stereo viewing with the following state-of-the-art software tools:

- Summit Evolution™: A full-featured, affordable, user-friendly Windows®-based digital photogrammetric system. It is designed to be powerful and flexible, yet easy to learn, use, and customize. There are three levels of Summit Evolution: Full-featured "Professional" with full orientation and 3D feature collection capability, "Feature Collection" for digitizing production work, and "Lite" for GIS users and others demanding easy stereo viewing and simple digitizing
- DAT/EM Capture™: Our popular stereoplotter interface and feature data collection program is offered in three "flavors", which are used for collecting 3D vector and DTM data directly into AutoCAD®, MicroStation®, or ArcGIS®.
- DAT/EM Project Viewer with Orthophoto and Mosaic™: Summit Evolution offers easy-to-use orthophoto and mosaic generation tools.
- DAT/EM Map/Editor™: Software for automatic batch and vector editing in AutoCAD or MicroStation.
- Landscape™: The new essential toolkit for editing, classifying, and 3D viewing of large LiDAR and terrain point sets. DAT/EM Systems also builds and sells essential hardware for integrating with DAT/EM Systems software and other products.
- DAT/EM Keypad™ Controller: this application saves time by sending command strings directly into AutoCAD, MicroStation, or ArcGIS. Accompanying tactile key devices include the DAT/EM Keypad, DAT/EM TouchPad™ and DAT/EM TouchScreen™.
- DAT/EM Handwheels and Footdisks™ are superbly machined and balanced input devices engineered for operator comfort, ease of use, and productivity. We at DAT/EM Systems International recognize the importance of evolving with our users. We welcome all feedback and requests – we know our clients are an integral part of the development process.

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Dewberry is a leading professional services firm with a proven history of providing architecture, engineering, and management and consulting services to a wide variety of public- and private-sector clients. Recognized for combining unsurpassed commitment to client service with deep subject matter expertise, Dewberry is dedicated to solving clients' most complex challenges and transforming their communities. Established in 1956, Dewberry is headquartered in Fairfax, Virginia, with more than 40 locations and 1,800+ professionals nationwide.

Dewberry is recognized as a national leader in geospatial services. The firm's geospatial services include program management, photogrammetry, LiDAR, geodesy, ground control and check point surveys, photo interpretation, field reconnaissance, orthophotography, hyperspectral and multispectral imagery analysis, along with habitat and land use/cover mapping. Other geospatial services include feature extraction, surface modeling and analysis, digital orthophoto production, GIS systems architecture, data modeling, as well as geospatial business process consulting, facilities management, and application development. Dewberry also provides full lifecycle cloud provisioning, hosting and application development services for mobile data and full-scale enterprise systems.

Through a vendor-neutral approach, Dewberry consistently selects the best data acquisition solutions for its clients. Dewberry also specializes in the independent quality assurance of geospatial products produced by other service professionals. Dewberry was presented with the ESRI Special Achievement in GIS Award in 2008 and the ESRI Business partner of the year in 2005.

Dewberry's subject matter experts form the core of its geospatial services business. The company's elevation experts have authored and edited the ASPRS textbook, "Digital Elevation Model Technologies and Applications: The DEM Users Manual" (1st & 2nd editions); the DEM chapter in ASPRS' textbook, "Digital Photogrammetry: An Addendum to the Manual of Photogrammetry;" the NGS' "National Height Modernization Study, Report to Congress;" and various elevation data guidelines and specifications for FEMA as well as the National Digital Elevation Program (NDEP).

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DigitalGlobe is a leading global provider of commercial high-resolution earth imagery products and services. Sourced from our own advanced satellite constellation, our imagery solutions support a wide variety of uses within defense and intelligence, civil agencies, mapping and analysis, environmental monitoring, oil and gas exploration, infrastructure management, Internet portals and navigation technology. With our collection sources and comprehensive ImageLibrary (containing almost three billion square kilometers of earth imagery and imagery products), we offer a range of on and offline products and services designed to enable customers to easily access and integrate our imagery into their business operations and applications. For more information, visit www.digitalglobe.com.

Directions Magazine

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Directions Magazine is the leading source of geospatial information technology, news and commentary for "all things location." We keep our readers informed with the latest geospatial technology trends and issues through newsletters, blogs, podcasts, industry Channels and webinars. Our readers gain an "inside edge" by reading our publications and attending our events. We maintain the industry's largest and most knowledgeable editorial and management team, each member having substantial experience as a practitioners and entrepreneurs of geospatial technology. This allows Directions Media to not only report on current news and applications, but also provide commentary and advice on industry trends. And we are driven to serve our advertisers by bringing them broad exposure through our worldwide reach.

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DMCii is a UK company providing satellite imagery and derived products. DMCii provides access to a unique set of image products including the Disaster Monitoring Constellation of satellites, enabling the rapid revisit to any site once per day. 650 km swath multispectral imagery is collected at 22m and 32m. We also supply 4, 5.6 and 2.8m resolutions. Other products and services include derived products including land use maps, change detection imagery and mosaiced imagery for customised projects.

New satellites available in 2011 include 2.5 pan and 5m multispectral and additional 32m & 22m multispectral sensors.

DMCii imagery is available to US Government agencies through agreements with the US Geological Survey and also the US Department of Agriculture.

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Dynamic Aviation is an international leader in delivering airborne data acquisition services. With more than 70 aircraft operating from twenty locations on four continents, we deliver specially modified aircraft, experienced flight crews, and reliable maintenance services you need to ensure that your mission takes flight.

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- High availability—Our dedicated airborne data acquisition fleet, professional pilots and crew, and uncompromising technicians and service personnel are ready when you are

At Dynamic Aviation, we know how critical it is to deliver innovative aircraft solutions that meet the complexities and challenges of your mission. You can count on us for the precise airborne assets you need to meet your unique requirements.

To learn more about Dynamic Aviation and its flight services, please visit the company's website at www.dynamicaviation.com/airborne.htm or contact Steve Scates at sscates@dynamicaviation.com or (540) 828-6070 extension 3503.

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Eagle Mapping delivers high-quality digital mapping, data and imagery tailored to your unique needs. Eagle Mapping's new Riegl VQ480 LiDAR sensor and *new* DiMAC Ultralight+ 60 mega pixel digital camera system enable Eagle Mapping's consultants more options than ever before to offer turnkey mapping solutions for diverse industry sectors. Consultative specialists work closely with you, combining industry, technology and languages to answer your specific business challenges.

YOU CHOOSE:

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With our high quality deliverables you can reference data, analyze projects in 3D, visualize terrain and communicate your results to business partners and investors.

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Eagle Mapping has successfully provided support to our clients since 1985.

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EASTERN TOPOGRAPHICS (E-TOPO®) is a full service aerial mapping firm in northeast U.S. serving clients in CT/MA /ME/NH/NJ/NY/RI/VT. E-TOPO is a **qualified Service Disabled Veteran Owned Small Business Concern (SDVOSBC)**.

E-TOPO has been delivering high-quality, accurate mapping for engineering and surveying consultants since 1977. E-TOPO's reliable turnaround times for prompt delivery on-time and on budget, every time, has

enabled our growth. Mapping projects under 30 acres delivered within five business days, and projects up to 100 acres delivered within ten business days.

E-TOPO® has extensive experience specific to aerial photography and digital photogrammetric mapping, employing high standards and quality control measures that continue to assure the accuracy of our mapping. All mapping is compiled under the immediate supervision of ASPRS Photogrammetrists. GPS ground control services are also available, provided by our in-house Licensed Land Surveyors.

Aerial photography is captured with a company owned and a seasonally leased Cessna 206 aircraft, both configured specifically for aerial mapping. E-TOPO also maintains a complete b&w photo lab and hi-res scanner.

Digital photogrammetric mapping is compiled on KLT/Atlas Softcopy stations and first order analytical KERN DSR15s, collecting data utilizing KLT/ATLAS & TIN software. Primary collection methodology is Digital Terrain Modeling (DTM) including breaklines and spot elevations. Mapping products are compatible with Building Information Modeling (BIM). Digital orthophotography can also be delivered.

E-TOPO® has continued to build an in-house library of low altitude (mostly 1"=400'-500') aerial photography suitable for accurate 2' contour mapping. Most is exposed only during the optimum spring months with high sun angle and complete defoliation. E-TOPO®'s readily available library of stereo imagery covers much of the north-east, comprised of more than 300,000 exposures. Imagery is available for viewing low resolution scans and free downloads on our website (www.e-topo.com).

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Elecnor Deimos is the technological branch of Elecnor, a large Spanish business group leader in the infrastructure, renewable energy and technology sectors. With more than 300 employees, Elecnor Deimos is an engineering company that manages the full lifecycle of projects, specializing in solutions design and development, and in systems integration.

The company offers customized solutions in aeronautics, space, defense, transportation, energy and environment, telecommunications and security. Elecnor Deimos is a world-class provider of end-to-end, turn-key Earth Observation systems, including flight, ground and user segments.

Elecnor Deimos Imaging is the subsidiary of Elecnor Deimos that deals with Remote Sensing. The company is specialized in the design, implementation, operation and commercial exploitation of Earth Observation Systems, and in the development, generation and delivery of remote sensing products and services. The company owns and operates DEIMOS-1, the first Spanish Earth Observation satellite, which produces multispectral optical data with 22m GSD over a uniquely wide swath of 650 km, allowing the rapid coverage of large areas. Elecnor Deimos will add the new DEIMOS-2 satellite to its EO system by mid-2014. DEIMOS-2 is a very-high resolution, agile satellite capable of providing 4-bands multispectral and 75-cm pan-sharpened imagery, with a 12-km swath. The whole end-to-end DEIMOS-2 system has been designed to provide a cost-effective and highly responsive service to cope with the increasing need of fast access to very-high resolution imagery. DEIMOS-2 integration and testing has been carried out in the new satellite premises of Elecnor Deimos in Puertollano (Spain). Its ground segment, which includes three receiving/commanding ground stations in Spain and Norway, has been completely developed in-house by Elecnor Deimos.

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Environmental Research, Inc. (ERI), a woman-owned small business founded in 1993, is a full service geospatial company specializing in current and historical imagery analysis, photogrammetry, geographic information systems, and litigation support for environmental investigations and natural resource mapping.

ERI services include the acquisition and stereoscopic analysis of aerial photographs and other remotely sensed data ranging from the 1930's to the present. Depending on the focus of the analysis, a full range of remotely sensed data can be used, including black & white, color, and color infrared aerial photographs;

thermal infrared aerial imagery; and multi-spectral satellite imagery.

Applications for ERI's current and historical imagery analyses include:

- Industrial Site & Pre-Site Characterization, including the Identification of Storage, Treatment, Disposal, and Release Activities
- Land Use/Land Cover Mapping
- Wetland Mapping and Drainage Analysis
- Point and Nonpoint Contamination Source Inventories
- Ordnance Impact Area Mapping
- Failing Septic Systems Mapping
- Underground Fire Mapping
- Natural Resource Mapping
- Erosion Studies
- Groundwater Seeps & Springs Analysis

Building on years of image and geospatial data integration experience, ERI utilizes leading edge software to produce multi-theme, multi-source GIS datasets. Our GIS personnel have extensive experience using the Leica Photogrammetry Suite and ERDAS Imagine software to orthorectify and mosaic current and historical aerial imagery, generate 3-D visual illustrations of current and historical photogrammetric data, and to georeference maps and other spatial data. Through on-screen digitizing, we generate aerial imagery analyses and GIS datasets using ESRI ArcView and ArcGIS software.

ERI utilizes both softcopy and analytical stereoploting capabilities, providing a wide range of photogrammetric products generated from current and historical photographs that include:

- Planimetric Maps
- Topographic Maps
- Digital Terrain Models/Digital Elevation Models
- Orthophotographs
- Volumetric Surveys
- Low Altitude Helicopter-Based Mapping

The professional analysts at ERI have conducted hundreds of environmental forensic investigations to support CERCLA/RCRA cost recovery, environmental insurance claims, natural resource damage assessments, and federal government enforcement and defense. Through our well-established methodology of integrating current and historical imagery analysis, photogrammetry, GIS, and 3-D illustrations, we strive for the highest degree of accuracy, scientific objectivity, and completeness.

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Esri helps organizations map and model our world. Esri's GIS technology enables them to effectively analyze and manage their geographic and imagery information and make better decisions. Organizations are supported by an experienced and knowledgeable staff and an extensive network of business partners and international distributors.

We provide educational services, user support, and professional consulting services ranging from needs assessments to system design and implementation services. Our goal is to promote geospatial awareness and help our users make more effective decisions.

CAPABILITY

Founded in 1969, Esri is a financially stable, privately owned corporation with a policy of zero debt. Private ownership means no stockholders forcing short-term decisions at the expense of long-term objectives. We maintain a high commitment to research and development, budgeting about 20 percent of our annual revenue, leading to new and powerful advances in our software.

WHY CHOOSE GIS FROM ESRI?

Esri software is used by more than 350,000 organizations worldwide including:

- Most U.S. federal and national mapping agencies
- All 50 U.S. state health departments
- Each of the 200 largest U.S. cities
- More than 24,000 state and local governments worldwide
- More than two-thirds of Fortune 500 companies
- More than 7,000 colleges and universities
- Many others in dozens of industries

We are committed to listening to our users and routinely incorporate user feedback and recommendations in our product releases. We gather this feedback from sources including ArcGIS Ideas (ideas.arcgis.com), user group meetings, conferences, traditional technical support channels, beta and holistic testing programs, and online forums. Our users have always helped shape the direction of our software, and this relationship has made ArcGIS technology the standard in GIS.

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EXELIS

Visual Information Solutions

Exelis is a leading provider of software tools designed to help you get the information you need from your remotely sensed data. Whether you are a GIS professional enhancing your mapping application with information from imagery, a defense analyst needing to identify safe terrain for troop movement, or a scientist committed to conserving natural resources, Exelis products deliver the technology you need to turn your data into actionable information.

EXTRACT INFORMATION FROM ALL TYPES OF REMOTELY SENSED DATA

The ENVI suite of products enables you to easily extract information from all types of remotely sensed data including LiDAR, SAR, panchromatic, hyperspectral, and multispectral. And, ENVI can fuse multiple data modalities to exploit the strengths of each data type. Now, you can get the knowledge you need to make informed decisions regardless of the data formats you use.

ENVI ON THE DESKTOP, FOR MOBILE DEVICES, AND IN THE CLOUD

ENVI software enables you to easily extract information from remotely sensed data regardless of your working device or geographic location. Now you can use ENVI to efficiently make strategic decisions from your desktop, mobile devices, or web applications.

ENVI AUTOMATED WORKFLOWS

With ENVI workflows, you can save time and effort while getting the accurate results you need from remotely sensed data. These automated workflows easily guide you through advanced analysis tasks, giving you expert level results through scientifically proven processes, regardless of your experience level or knowledge of remote sensing and data analysis methods.

INTEGRATION WITH ARCGIS

The ENVI suite of products is fully integrated with ArcGIS® from Esri, allowing you to add information from a GIS to your remote sensing applications. With access to ENVI image analysis tools directly from the ArcGIS desktop, server, and online environments you can increase efficiency and improve decision making.

SENSOR SUPPORT

We work hard to ensure that our software meets marketplace needs, including supporting the integration of new and emerging data and sensor types such as Landsat 8, NPP VIIRS, WorldView-2, and LiDAR. Because of this, our customers know that they can get valuable information from almost any sensor/data type they use.

EXTENSIBILITY

ENVI uses a powerful development language that allows you to extend and customize ENVI features and functionality to fit your analysis requirements and specific project needs. This enables you to add analysis capabilities to your existing tools and models, combine multiple tools that include analysis functionality, and create new custom tools based on your desired outcomes.

Combined with classroom and onsite training, best-in-class customer support, and custom consulting, Exelis is committed to making it easy for you to make accurate, informed decisions using remotely sensed imagery and data. For more information, contact us at 303-786-9900 or info@exelisvis.com or visit www.exelisvis.com.

Flatdog Media, Inc./Professional Surveyor Magazine

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Professional Surveyor Magazine is North America's leading source of information on emerging technologies and business strategy for geospatial professionals, including land and hydrographic surveyors, photogrammetrists, lidar and remote-sensing specialists, and GIS professionals. Published with it are the print supplements *Aerial Mapping* and *Surveyor's Red Pages* and the e-newsletters *Pangaea* and *Field Notes*.

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Fugro Geospatial delivers complete, end-to-end solutions related to the acquisition, interpretation, management and dissemination of spatial information. Fugro Geospatial supports customers with local expertise, specialist disciplines, and revolutionary technologies. From offices located across the globe, our services include airborne mapping, terrestrial and hydrographic surveying, satellite remote sensing, and geographic information services.

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GeoBC, a branch within the Ministry of Forests, Lands and Natural Resource Operations, is responsible for creating and managing geospatial information and products as well as provides consultation services across all natural resource sector (NRS) agencies.

While this may sound like a complicated and purely technical role, in practice the group has four very tangible areas of focus directly tied to NRS business functions:

- to create and maintain a standard set of base spatial data (e.g. roads, hydrology, terrain, etc.) with the goal of progressively making this information open and accessible for use by all,
- providing assurance for two of the Provincial Crown land registries, the information repositories

of Provincial rights and obligations – specifically Tantalus and the Integrated Land and Resource Registry (ILRR),

- offering Crown land research expertise to other government agencies, both rights-granting and otherwise, and;
- offering a service for custom solutions to NRS business issues (e.g. developing mapping products and visualization for avalanche awareness, providing assistance to treaty teams, spatial design and project management support for clean energy projects, etc.),

In short, if an NRS business area has any concerns about or interest in the concept of “place” then GeoBC is involved in some way; whether indirectly through the open provision of the authoritative base information or directly by involving mapping, analysis and land research specialists from the branch.

Of specific interest to those ASPRS members, GeoBC manages the following base, or foundational data:

1. Geospatial Reference Services

The Geospatial Reference (GSR) group defines and manages the geographic coordinate system that underlies all support surveying, mapping and georeferencing activities.

2. Base Mapping Products and Services

The GeoBC Atlas Services is a program to provide a common digital framework for the various land information retrieval systems by using a common standards and specifications for data capture. Programs and initiatives of the GeoBC Atlas include the provincial digital base-mapping program; geographical names; digital road atlas, freshwater atlas and the provincial orthophoto production program.

3. Air Photo and Digital Imagery Services

Air Photo and Digital Imagery Services is responsible for:

- a. Acquisition, coordination and management of airborne remote sensing data, including aerial photography, airborne imagery and satellite imagery.
- b. Aerial photo reproduction, archival and warehouse/library services.

4. Crown Land Ownership Parcels

Land Records Services is responsible for recording and managing information regarding the nature, ownership, extent, and location of rights and interests in Crown land. This group provides land record services, which include:

- a. Compilation and maintenance of a comprehensive mapping of all real properties and related spatial information including political and administrative boundaries.

Reference: GeoBC Website
<http://www.geobc.gov.bc.ca/>

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Geo:

Geoconnexion International Magazine

GEO:connexion Ltd is a publisher of printed and on-line magazines for the Geospatial Technology industries, with a supporting comprehensive web site plus monthly e-Newsletter:

GEO:connexion International is the leading business-to-business monthly magazine for users of spatial professionals across the globe. It covers applications of GIS, GPS and remote sensing within industry sectors, such as telecoms, emergency services, public safety, government, utilities and retailing.

GEO:connexionUK is devoted to the UK's GI industry. It's special focus areas are on E-Government, Health, Public Safety, Retail, Environmental, Utilities, Surveying, Location-Based Services, Transport/Logistics and Telecommunications.

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GeoCue Corporation is a software development and consulting services company with the following core businesses:

- Development of the GeoCue product family of geospatial process management software tools
- CuePacs® to realize specific workflows such as DMC™ post-processing, LIDAR data processing and other domain specific workflows
- Consulting services to assist customers with custom implementations of GeoCue-managed geospatial workflows
- LIDAR vertical business through which we supply tools (Terrasolid, LIDAR 1 CuePac, MMS CuePac, LP360), training, support and workflows for end-to-end LIDAR processing in the mobile and airborne markets.

Through our GeoCue product line, we are dedicated to creating tools and techniques for improving geospatially organized processes. Our mission is to move the world of workstation-centric production to enterprise systems. This means that production shops should be able to work on large projects with many technicians without worrying about the minutia of locating data, finding software, tasking technicians and determining which particular set of software programs to execute to produce the desired output product.

Through our LIDAR business unit, we offer the complete range of tools, training and support for companies engaged in all aspects of airborne and mobile LIDAR data processing. We are the North American sales and support center for Terrasolid, the world's leading LIDAR processing tools. Through QCoherent Software LLC, a GeoCue subsidiary company, we offer a range of tools for LIDAR data exploitation and management for stand-alone and ESRI® environments. We offer a broad range of on-site training plans from specialty topics to full end-to-end "bootstrap" production training.

Our relationships with our customers date back over the three decades of the migration of geospatial processing from paper systems to all digital workflows. These relationships are characterized by direct honesty and a commitment to making our customers successful over the long term. Our goal is to establish and maintain mutually profitable relationships with our clients.

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QCoherent Software is the innovative provider of high-capacity, integrated Limitless LIDAR™ software tools. We are a company whose founders have a wide array of expertise with LIDAR and the mapping sciences. Our extensive knowledge of LIDAR and GIS software has initially been focused on the need for an ESRI extension for viewing and analyzing LIDAR data. These efforts culminated in the development of LP360 which has been exceptionally well received. The success of LP360 confirms that QCoherent Software's mission of providing powerful LIDAR software targeted at day-to-day operations is "spot-on".

LP360 BENEFITS AND FEATURES:

- Virtually limitless LAS data architecture (load thousands of LAS files into ArcGIS without encountering performance issues)
- Integrated extension for ArcMap/ArcCatalog
- Requires only a standard ArcView license
- Creates a LIDAR data layer in ArcMap
- ArcMap-enabled LIDAR layer properties
- Specialized viewing controls and filters tailored for LIDAR data
- Optimized 3D/profile viewer
- Extensive import and export functionality including cross-section, slope, aspect and hillshading
- End-user focused with easy-to-use controls
- GIS Fusion blends imagery or other data layers with LIDAR
- ASCII to LAS import wizard (Merge other ASCII data with LIDAR – Sonar, photogrammetric DEM, etc.)
- QA/QC Tools (including RMSE wizard)
- GIS Fusion™
- Dynamic on the fly TINing in LP360 3D viewer and ArcGIS data window
- On the fly contour interpolation
- Filter by elevation/ elevation masking
- LAS statistics/access LAS header information
- LAS Arc toolbox tools (reprojection, scale, and shift)
- Tripod/ground based LIDAR Integrator
- SILC (Spectral Imagery LIDAR Composite) colorization LAS display
- LP360 Classify

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GeoLas Consulting is an engineering firm and service provider specialized on Airborne Laser Mapping (LIDAR). With over 20 years of experience in the development of lidar systems, lidar survey operations, and data processing, we provide first hand expertise and services for this exciting technology, helping our customers to *map the world in 3D*.

Our background in topographic lidar system development reaches back to the early 1990s when we presented the first imaging airborne lidar in Europe. We have since pursued the design and deployment of advanced lidar hard- and software giving us deep understanding of the technology and operational requirements.

OUR SERVICES INCLUDE:

- Technology consulting and training
- Development of new lidar hardware and upgrades to existing lidar systems
- System integration support
- Calibration, data analysis, and debugging services
- Development of lidar processing software (filtering, feature extraction, data quality enhancement, project management, quality control)
- Training for lidar systems operation, project planning, data processing
- Survey project supervision and support

Based on our in-depth knowledge of lidar system technology and operations we provide training, project support, and consulting services to our customers world-wide to help them make the most of lidar technology, and to avoid common pitfalls.

Global Science & Technology, Inc.

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Headquartered in Greenbelt, Maryland, Global Science & Technology, Inc. (GST) also has offices in: Arlington, Virginia; Fairmont, West Virginia; Asheville, North Carolina; and Boulder, Colorado.

GSt provides service in the fields of science, engineering, Information Technology (IT), and technical support to government, industry, and academic clients. Our major clients include NOAA, National Weather Service (NWS), NASA Goddard Space Flight Center, and NASA Headquarters. We provide system and software design, development, engineering, test and integration for the NOAA Comprehensive Large Array-Data Stewardship System (CLASS). We also support the Climate Data Record (CDR) Program at the National Climatic Data Center (NCDC). For the National Weather Service, we have taken the lead in developing a mobile weather data system called MoPED or Mobile Environmental Data Platform System. We are also managing the creation of a National Mesonet.

Our work for NASA includes the development of the Earth Observing System Data Information System (EOSDIS) Clearing House (ECHO). We also developed the NASA Solicitation and Proposal Integrated Review and Evaluation System (NSPIRES). Other NASA-related work includes support of the NASA Goddard Space Flight Center Scientific Visualization Studio (SVS), Direct Characterization Laboratory (DCL), and the Direct Readout Laboratory (DRL).

We are investigating a new concept called the Terrestrial Ecosystem Dynamics (TerEDyn) mission. This project will significantly advance Earth System Science by documenting, with an unprecedented combination of spatial and temporal resolution, terrestrial ecosystems dynamics as affected by human activities and natural events.

GST has built a global reputation for serving clients through effective technology utilization and an intense customer focus. Our passion for innovation, tempered by years of real-world business experience, has made us a technology solution provider of choice for Government and industry alike. We pride ourselves on the public and private partnerships we have built and maintained since 1991.

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GRW is an award-winning mapping firm, among the nation's leading providers of geospatial services for federal, state, municipal, and private clients. Established in 1976, we provide highly accurate, cost efficient services, including the following:

- Aerial Photography, ABGPS, IMU
- LiDAR (Aerial, Stationary, and Mobile)
- GPS Surveying
- Photogrammetric Mapping
- DEM/DTM
- Digital Orthophotography
- GIS Data Conversion, Programming
- GIS Design and Implementation

A subsidiary of GRW Engineers, Inc., our company was founded by Mr. G. Reynolds Watkins. Our founder's insistence on technical excellence and close, personal service lives on as the guiding principle at GRW. With over 250 professionals, GRW has offices centrally located in Kentucky, Indiana, Ohio, Tennessee, and West Virginia. We have the resources and expertise to ensure the successful delivery of your project. For more information, please visit www.grwinc.com, or contact GRW at (800) 432-9537.

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Harris is an international communications and information technology company serving government and commercial markets in more than 150 countries. Headquartered in Melbourne, Florida, the company has approximately \$5.5 billion of annual revenue and more than 15,000 employees — including nearly 7,000 engineers and scientists. Harris is dedicated to developing best-in-class *assured communications*® products, systems, and services.

Harris has over 25 years experience in the processing and generation of geospatial intelligence products, systems and services. Whether it's Earth-based or space-based, commercial, or government, Harris has researched, designed, and delivered proven technology and products. This legacy of experience includes expertise in the fields of image processing and registration, imagery derived product production, information management and visualization.

Harris is a pioneer in developing leading-edge, multisensor / multisource data visualization, data fusion, high resolution digital surface models, and 3D urban models. MET®, RealSite™, LiteSite™, InReality™, and TrueTerrain™ are just some of the Harris brands that are setting the standard for Geospatial Intelligence data products. Harris information management systems and portals for archival, search, retrieval and dissemination of video and imagery products have a user community numbering in the many thousands. FAME™, Active Catalog, GeoSTAR™ and GeoDART™ are just a few of our most recent developments in this arena.

Harris continues to develop faster and more efficient tools and processes for developing on-demand imagery derived products in the tactical environment. In addition to advancing our image processing techniques, our internal research and development efforts focuses on the automation of production processes for rapid turn-around product generation. Combined with our expertise in designing, developing and managing communications networks, we are focused on the timely and relevant delivery of Geospatial Intelligence to wherever it is needed — anytime, anywhere.

For more information on Harris Corporation, visit www.harris.com. For Geospatial Intelligence specific information please visit www.geoint.harris.com.

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Icaros, Inc. is a comprehensive aerial geospatial solutions provider of state-of-the-art technology products, software, services and training to a multitude of clients worldwide.

Our private sector customers include some of the biggest and best organizations in precision agriculture/forestry, energy, and strip mining. Public sector customers include both domestic and foreign government agencies involved in homeland security, surveillance & emergency response, flight training/simulation, and military mission planning.

Icaros' remote sensor systems provide collection capabilities for RGB (true color), NIR (near infrared) and TIR (thermal infrared). We are a pioneer in developing oblique aerial imagery solutions. Our systems are portable and easily installed on almost any small aircraft, to include UAVs. We've developed powerful mission and flight planning software to ensure collection accuracy.

Icaros' photogrammetric processing software and flight management software provide our customers with detailed, actionable aerial maps and imagery to support a wide variety of applications. Our software can be used to process data from almost any sensor system, and large bundle-blocks of images (10,000+).

Icaros delivers complete solutions including 3D models for planning and training, orthomosaics, digital elevation models (DTMs, DSMs), overlaid thermal and RGB for near true-color images photographed at night or under poor lighting conditions, and 3D models from orthophotography and oblique imagery.

Innovative Technical Solutions, Inc./ DBA NovaSol

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NOVASOL was founded in 1998 to provide high-quality, fair-priced engineering, and scientific solutions to

military, commercial, industrial, and environmental needs and challenges. NOVASOL is an employee owned company specializing in the design, development, and deployment of electro/optical (E/O) hyperspectral imaging (HSI) and free space optical communications systems for defense, environmental, homeland security, and industrial applications. The NOVASOL team has extensive experience in the modeling, design, development, fabrication, testing, and analysis of electro-optical and data processing systems.

NOVASOL provides miniaturized turnkey HSI sensors and systems for sale and lease, and on a fee-for-service basis. Capabilities are scalable based on specific customer needs. A basic airborne system includes visible/near-infrared (visNIR) and/or short wavelength infrared (SWIR) HSI sensors providing contiguous high spectral resolution coverage spanning 400 to 2,400 nanometers, an inertial measurement unit, sensor control firmware and software, scalable solid state data storage, and processing capability, all in a compact, light-weight package. Options include panchromatic EO and IR cameras, and real-time data processing capabilities utilizing anomaly and matched filter detection algorithms, as well as custom applications of user supplied algorithms. All systems are optimally designed for use on small manned and unmanned aircraft, down to mini-UAVs in the 25 to 50 pound weight category.

NOVASOL's HSI systems are ideally suited for sustainable resource management in agriculture, forestry and mineral exploration. Industrial applications include inspection of food, produce and manufactured products.

NOVASOL personnel have extensive practical experience in all disciplines related to systems engineering, optical design, electrical, mechanical and software engineering, scientific phenomenology, image/data analysis, field-testing and support, and project management.

For additional information please visit our web site at www.nova-sol.com.

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Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph's industry-specific software to organize vast amounts of data to make processes and infrastructure better, safer and smarter. The company's software and services empower customers to build and operate more efficient plants

and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph PP&M provides enterprise engineering software for the design, construction, operation and data management of plants, ships and offshore facilities. Intergraph SG&I provides geospatially

powered solutions including ERDAS technologies to the public safety and security, defense and intelligence, government, transportation, photogrammetry, and utilities and communications industries. Intergraph Government Solutions (IGS) is an independent subsidiary for SG&I's U.S. federal and classified business.

Intergraph is a wholly owned subsidiary of Hexagon AB, (Nordic exchange: HEXA B) and (Swiss exchange: HEXN). For more information, visit www.intergraph.com and www.hexagon.com.

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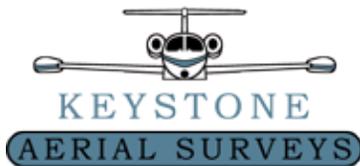
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Scope of Business: National and International
Primary Aerial Data Acquisition

Keystone Aerial Surveys, Inc. (KAS) specializes in providing quality aerial survey data acquisition. We have the equipment, the skills, the experience and the locations that position us to provide you with the assurance of getting your project flown to your specifications and on time. That is our focus and mission. We do this by having a fleet of 19 aircraft specially modified and certified for aerial surveys. We have 4 strategic locations throughout the country, in PA, TX, AZ and CA. Our flight crews and support

personnel are able to take your project from planning through final delivery of your data.

Keystone has flown millions of survey miles for thousands of projects for customers in all sections of the geospatial community from the Federal, State and local government, universities, as well as engineering, photogrammetry, energy, utility and internet clients. We can fly your projects using either our metric sensors – **or yours**. We are expert at planning, installing, acquiring, producing and delivering your project with strict professional standards and rigorous quality control.

When you really, really need to have your project flown on time and to spec, please contact us directly or visit our web page @ www.kasurveys.com.

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In 2014 KLT Associates, Inc. Will be celebrating its 33th year in the Photogrammetric Software business. Initially contacted by Kern Instruments to produce a software plotting package that would have firmware symbols and line symbology interfaced to analog stereoplotters. Kern looked into the venture and within a few months choose against proceeding.

KLT Associates was then formed and beginning the development of the MAPPS product. Today using the

same basic data structure that was developed 33 years ago, a user can take an archived MAPPs 300 file and use the file with the latest Windows version of ATLAS, KLT's feature based vector data collection software, integrated into a user friendly digital stereo plotter (ATLAS/DSP). This philosophy, of data migration continues today with each KLT product. The benefits of this philosophy are a user can prepare a job, compile the data, produce an ortho mosaic and deliver a product without changing environments or moving or translating data. All data is maintained in an easy to use and easy to understand ASCII format for manipulation and modification by the user. Driven by our customers and technology, including the latest GPU technologies, KLT Associates continues to develop and enhance the KLT products with a full suite of Photogrammetric application specific software, be it Aerial Triangulation, LIDAR, Close Range, ORTHOPHOTO production, Automatic Terrain Extraction or simply stream lining a process, minimizing time factors by using batch processes, KLT Associates is always listening to our customers.

We pride ourselves in customer support and response; we provide toll free numbers, computer links to our customers with support at no additional cost available throughout the world. Look us up, email or call us, we will be happy to discuss your needs and requirements and show you how KLT Associates can address your specific photogrammetric needs.

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Kucera International Inc. is a leading provider of high quality, cost-effective aerial mapping and related geomatic services to government and private entities throughout the US and abroad.

Kucera's in-house capabilities and experience include digital and film-based aerial photography, vertical and oblique aerial imaging, digital and photographic image reproduction, airborne and ground-based GPS control surveying, aerial lidar and remote sensing, film and map scanning/digitizing, softcopy and analytical aerotriangulation and stereocompilation, digital terrain and surface modeling, first and second generation digital orthophotography, new and updated digital planimetric and topographic mapping, cadastral and land use/landcover mapping, geospatial data conversion and distribution, 2D and 3D GIS/modeling, utility/infrastructure surveys/inventories, E911 mapping/addressing,

mobile ground mapping and laser scanning, volumetric surveys, historical aerial image research and mapping, change detection, photogrammetric and GIS programming, and civil and environmental engineering.

For aerial data acquisition, Kucera operates a fleet of aircraft outfitted with latest-generation aerial camera, lidar, multispectral and thermal sensor, and airborne GPS/IMU in-flight georeferencing systems. Kucera's ground data acquisition is accomplished with geodetic grade GPS receivers, mobile mapping/GIS systems, and a variety of conventional survey instruments and land and watercraft. Photogrammetry, mapping, and digital imaging are performed on dedicated digital and analytical photogrammetric and image processing systems. For GIS and geospatial data conversion, Kucera operates current versions of all major raster/vector GIS and CAD platforms.

Kucera's staff of 90 consists of experts in photogrammetry, surveying, remote sensing, engineering, CAD, GIS, computer science, photography/imaging, geography, forestry, geology, natural resources, planning, business communications, marketing, and a variety of related disciplines. The staff includes licensed/certified photogrammetrists, surveyors, engineers, GIS specialists, and computer technicians. The average individual experience level of Kucera's staff is over 15 years.

Kucera is a longstanding corporate sustaining member of ASPRS, MAPPs, and a variety of state and local GIS, surveying, and mapping organizations. Kucera is channel partner with Google Earth and GeoSpan/GeoVista mobile/oblique imaging services.

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Lead'Air Inc., located on the Kissimmee airport, FL, is an affiliate of Track'Air in the Netherlands. Lead'Air manufactures and installs aerial navigation and surveying equipment for use in airplanes and helicopters.

Lead Air has developed an exceptional ability to provide their customers with dedicated resources to research and design completely custom solutions with unsurpassed speed and cost.

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Since 1992, LizardTech® has delivered state-of-the-art software products for managing and distributing massive, high-resolution geospatial data such as aerial and satellite imagery and LiDAR data. LizardTech pioneered the MrSID® technology, a powerful wavelet-based image encoder, viewer, and file format and now has offices in Seattle, Denver, London and Tokyo. LizardTech is a business name of Celartem Technology Inc. For more information about LizardTech, visit www.lizardtech.com.

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Magnolia River is a customer focused, quality driven company that provides a wide array of infrastructure and geospatial solutions. Areas of expertise include pipeline, energy, GIS, surveying & mapping, and software products. Magnolia River is a certified woman-owned business, whose customers include federal, state, and local government agencies and commercial companies. *Magnolia River - Customer focused - Quality solutions.*

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Founded in 1974, Martinez Geospatial provides Photogrammetry & Orthophotography, Land Surveying, High-Definition Laser Scanning, Mobile Mapping, Spatial Modeling, Graphics & Visualization, and Aviation Consulting services for public and private clients nationwide. Through the development and maintenance of quality client relationships, Martinez Geospatial has built a reputation as an expert in gathering, understanding, and delivering high-quality geospatial data through the use of many different methods. Martinez Geospatial takes tremendous pride in developing innovative geospatial solutions tailored to the specific, unique requirements of each individual project, and is continuously exploring new and better ways to provide our clients with premium products and customer service.

Martinez Geospatial's client-centered philosophy follows a consultative approach to determining project needs and expectations while adhering to stringent quality assurance and communication protocols. Working closely with each client, Martinez Geospatial is able to develop a customized plan of appropriate services and products, resulting in a more accurate and timely final deliverable, and better overall customer value. By always making the needs of the client the top priority, Martinez Geospatial is able to ensure their requests are met in a manner so as to exemplify a positive Martinez Geospatial experience.

Martinez Geospatial is certified with various agencies throughout the nation as a Disadvantaged Business Enterprise (DBE), Minority Business Enterprise (MBE), and/or Small Business Enterprise (SBE).

MDA Information Systems, LLC

820 W, Diamond Avenue
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Gaithersburg, MD 20878
(240) 833-8200; (240) 833-8201 (fax)
info@mdaus.com, www.mdaus.com;



MDA Information Systems LLC is a U.S. company that provides efficient and advanced information solutions to government and commercial customers in three specialty areas. The Geospatial Solutions Division uses remote sensing, GIS, multi-source data, and large volume image and data processing technology to provide cutting edge intelligence and information products and analysis services. The ISR Division leverages MDA's world-leading multi-mission ground system experience to provide fixed and transportable remote sensing satellite ground systems. The Weather Services Division has been providing unique weather information products and services for energy and agriculture applications for over 30 years.

Merrick & Company

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Merrick & Company, an employee-owned professional services firm, provides comprehensive, client-focused land information services, including image acquisition (aerial and satellite), surveying (conventional, GPS, and ABGPS), Light Detection and Ranging (LiDAR), digital photogrammetry, digital ortho processing, precision cadastral mapping, utility network automation, GIS database design, and GIS application programming.

Merrick's GeoSpatial Solutions Team, a pioneer in the field, utilizes leading edge processes and technologies to cost-effectively customize data collection, editing, and translation to meet any specifications and GIS format requirement. The company's services frequently involve custom application programming, integrating the most efficient hardware and software systems. Merrick's strong alliances with numerous software provid-

ers enable its Geospatial Solutions Team to create fully customized, short- and long-term data management solutions.

Merrick's combination of experienced personnel, survey equipment and computer resources enable the precise tailoring of each mapping project's approach. The company's in-house capabilities (GPS surveying, LiDAR, digital cameras, aerial triangulation, stereo compilation, CAD and GIS) allow for a completely integrated team under a single project manager.

Michael Baker International (formerly Michael Baker Jr., Inc.)

4301 Dutch Ridge Road, Box #280
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Baker's Geospatial Information Technology (GIT) organization is a recognized leader in the delivery of geospatial technology solutions. We possess a wealth of proven experience and our resources include more than 300 GIS, survey, mapping and Information Technology professionals across North America. Baker has assisted hundreds of government agencies and public/private industry clients in implementing complex enterprise GIS solutions, including: Consulting, Database Development, Application Design & Development, Data Acquisition & Processing, Aerial and Mobile LiDAR, Surveying & Mapping, Systems Integration, Asset Management, Data Access & Visualization, and Staffing Support.

Baker is committed to completing projects that meet our client's requirements with respect to scope, schedule, budget, and technical quality. Baker's Quality Management System is certified according to ISO 9001:2008 and is registered for the Design and Provision of Professional Engineering and Consulting Services with a focus on Geospatial Information Technologies.

We offer our customers project management, project planning, aerial, static and mobile LiDAR capture and processing, aerial imagery, GPS surveys, topographic mapping, digital terrain modeling, and digital orthophotography. Baker provides expertise in the use of LiDAR for cost effective production of digital terrain surface models, capturing planimetric features, and creating 3D models for design and visualization.

Michael Baker Jr., Inc. (Baker) is a wholly owned, subsidiary of the Michael Baker International, LLC, headquartered in Pittsburgh, PA. Baker International's markets include International Infrastructure

Development; Transportation; Defense; Federal, State and Local Government Agencies; Public and Private Utilities; and the Oil & Gas Industry. Our services span the complete life cycle of infrastructure and managed asset projects. With over a \$1.1 Billion in revenue each year and more than 5,100 employees in in the United States and internationally, Baker is consistently ranked by Engineering News-Record as one of the largest U.S. design firms.

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Microsoft UltraCam Team (Vexcel Imaging, GmbH)

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Established through Microsoft's 2006 acquisition of Vexcel Imaging, Microsoft's UltraCam business unit is a leading provider of digital aerial cameras and brings more than two decades of photogrammetry expertise to Microsoft's Bing Maps business. Its family of award-winning UltraCam sensor systems includes the UltraCam Hawk, UltraCam Falcon, and UltraCam Eagle digital photogrammetric sensors, and the UltraCam Osprey nadir/oblique photogrammetric digital aerial sensor. Rounding out the UltraCam offerings is the fully integrated UltraMap workflow software system, with features that include high-density 3D point cloud creation, highly accurate and detailed digital surface model (DSM) generation, and ortho mosaicing capabilities based on an automatically generated DSM or traditional DSM.

NASA Earth Science Division

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Benchmarking the use of Earth System Science Results for Decision Support.

The Earth Science Applications theme of the NASA, conducted within the Earth Science Enterprise (ESE), benchmarks practical uses of NASA-sponsored observations from Earth observation systems and predictions from Earth science models. NASA implements projects that carry forth this mission through partnerships with public, private, and academic organizations. These partnerships focus on innovative approaches for using Earth science information to provide decision support that can be adapted in applications worldwide.

The ESE program focuses on applications of national priority to expand and accelerate the use of knowledge, science, and technologies resulting from the ESE goal of improving predictions in the areas of weather, climate, and natural hazards. The approach is to enable the assimilation of Earth Science model and remote sensing mission outputs to serve as inputs to decision support tools in integrated system solutions.

The outcomes are manifest in enhanced decision support and the impacts are projected to be manifest in significant socio-economic benefits for each of the national applications. NASA ESE has identified twelve (12) national applications with partner federal agencies and national organizations that can be served by the results of NASA aerospace research and development of science and technologies through integrated system solutions.

For more details on NASA's Vision and Mission ; Science and Technology Returns, please visit our web site at <http://www.earth.nasa.gov/eseapps/approach.html>

NGA-National Geospatial-Intelligence Agency- Bethesda

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The National Geospatial-Intelligence Agency (NGA) is a Department of Defense combat support agency and a member of the national Intelligence Community (IC). NGA develops imagery and map-based intelligence solutions for U. S. national defense, homeland security and safety of navigation.

NGA has major facilities in the Washington, D.C. and St. Louis, MO, areas. The Agency also fields support teams worldwide.

OUR ROLE IN THE INTELLIGENCE COMMUNITY

NGA is the IC's principal producer of and advisor for GEOINT. The agency provides timely, relevant and accurate geospatial intelligence in support of national security objectives. The term "geospatial intelligence" (GEOINT) means the exploitation and analysis of imagery and geospatial information to describe, assess and visually depict physical features and geographically referenced activities on the Earth. Geospatial intelligence consists of imagery, imagery intelligence and geospatial (e.g., mapping, charting and geodesy) information. GEOINT uses imagery to make sense of volumes of

data and information. GEOINT builds the bridge from information to intelligence-from decision to action.

Information collected and processed by NGA is tailored for customer-specific solutions. By giving customers ready access to geospatial intelligence, NGA provides support to civilian and military leaders and contributes to the state of readiness of U.S. military forces. NGA also contributes to humanitarian efforts, such as tracking floods and disaster support, and to peacekeeping.

COMBAT AND HUMANITARIAN SUPPORT

As a Department of Defense combat-support agency, NGA provides the warfighter with precise, timely GEOINT data, information and products.

Accessibility and usability are our watchwords as we continue to focus on moving data to people, instead of moving people to data.

In addition to supporting combat operations, NGA also supports disaster relief and homeland defense operations by providing GEOINT data, products and analyses to lead federal agencies and first responders.

NOAA National Geodetic Survey

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Silver Spring, MD 20910
(301) 713-2663; (301) 713-4572 (fax)
info_center@ngs.noaa.gov; www.ngs.noaa.gov



NOAA's National Geodetic Survey (NGS) is responsible for defining, managing, and providing public access to the National Spatial Reference System (NSRS), a consistent national coordinate system that provides the foundation for mapping and charting; state boundaries; transportation, communication, and land records systems; and numerous scientific and engineering applications. NSRS provides an extremely accurate geographic framework throughout the United States and its possessions; without it, bridges and tunnels might not meet in the middle, planes might land next to—rather than at—airport runways, and trains might speed toward one another on the same track at the same time. NGS develops standards and guidelines for conducting field surveys and helps to coordinate surveying methods among federal government agencies.

NGS ALSO:

- locates obstacles and aids air travel;
- defines the national shoreline;

- conducts training workshops and information forums throughout the United States;
- provides technical advisors to improve local surveying capabilities;
- helps to improve precise positioning instruments and procedures;
- conducts research in geosciences, including earth orientation, absolute gravity, satellite geodesy, and related fields;
- monitors grants, contracts, and transfers of funds to universities, private organizations, and other agencies for cooperative research projects;
- maps the coastal zone and waterways of the United States and its possessions, providing a vital service to the marine transportation industry and the stewards of the coastal environment;
- publishes and distributes earth science data and technical publications; and
- maintains a website that provides a wealth of free information.

LEARN MORE ABOUT NOAA'S NATIONAL GEODETIC SURVEY BY CONTACTING NGS:

On the Web: www.ngs.noaa.gov
 By e-mail: info_center@ngs.noaa.gov
 By phone: 301-713-3242, or fax 301-713-4172
 By mail : National Geodetic Survey, N/NGS12, 1315 East West Highway, Station 9202, Silver Spring, MD 20910

BRANCHES:

NOAA NGS N/NGS32 Systems & Quality Assurance Branch
 NOAA NGS N/NGS32 - Requirements Branch
 and NOAA NGS N/NGS33 Applications Branch

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StreamPix 5: Mobile Georeferencing and Digital Inventory for Roads and Asset.

Streampix 5 is a high speed digital video recording software for single or multiple camera recording. Acquire from high resolution cameras along with GPS data and sync acquisition with DMI devices. Streampix 5 supports a wide selection of high speed cameras with resolution ranging from 640 x 480 up to 4k x 4k.

Unleash the power of StreamPix 5 with extra modules to build a comprehensive data collection utility to manage roads or county assets.

Combine images, GPS georeference information, as well as DMI information with our mobile application system.

- Georeference images from NMEA compatible GPS.
- Sync image acquisition with DMI output rate: no motion, no image. Image capture rate is synced with vehicle speed.
- Adjust capture rate as a sub multiple of the DMI output rate.
- Image number, DMI mile post, user comments and GPS Lat. Long. archived to a .csv file.
- Multiple cameras supported. Images from all cameras can be combined all together to create a single large picture with embedded GPS and mile post data.
- Jamar, Nitestar DMI device supported.
- Portable or desktop solutions available.
- Supports over 100 different types of cameras in various formats such as GigE Vision, camera link, analog or usb2.
- IrigB time stamping also supported.
- Acquire multiple cameras simultaneously up to 64 depending on hardware configuration.
- Software can also record in compressed AVI, MOV or H264 and other formats.
- View acquisition from Remote location using Streampix Remote.
- Playback from all cameras in sync.
- Acquire for long periods of time.
- Airborne computers for high G Force applications also available.

Typical example: Mobile Imaging Application for Pavement Condition Assessment
<http://www.norpix.com/applications/georeferencing.php>

North West Group

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North West is a leading provider of digital airborne geospatial acquisition and data services throughout North America and internationally. North West fields the latest in aerial acquisition technologies and through its Valtus Imagery Services division, provides industry leading geospatial data storage, management and distribution. Valtus hosts the largest proprietary

imagery and Lidar data base in North America. North West is based at the Calgary International Airport, Calgary, Alberta, Canada.

SERVICES INCLUDE:

- Digital imagery Lidar acquisition
- Digital imagery and Lidar data processing
- Web-based geospatial data hosting and delivery

North West owns and operates six high-performance twin engine aircraft including four Cessna Conquest II and a Cessna 406 Twin Caravan. North West owns and operates 6 ADS100 digital imaging sensors from Leica Geosystems.

North West has been ISO certified since 1998 and is a sustaining corporate member of ASPRS and MAPPS and long standing Platinum sponsor of NSGIC.

Northrop Grumman

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NORTHROP GRUMMAN

Northrop Grumman has over 40 years of experience developing comprehensive suites of geospatial intelligence solutions to help protect and secure the nation. The company provides all services, from tactical ground sensors to airborne collection to tactical air surveillance, and is uniquely positioned at every level to respond to their customers' unique requirements.

Northrop Grumman's geospatial portfolio includes leading-edge technological services and solutions for geospatial data acquisition, LiDAR collection and processing, photogrammetric services, airborne imaging, surveying, mapping, and advanced sensors.

Northrop Grumman solutions enhance customers' applications through superior intelligence gathering and mission planning, routing and logistics, execution monitoring, physical asset tracking, exploration of "what if" scenarios, data exploitation via advanced analytics and dissemination, highly integrated databases and sensor networks, and secure C2 systems.

Using a broad range of end-to-end geospatial capabilities, combined with a continuous desire to present customers with relevant solutions that ensure full interoperability and control in the world of geospatial information and intelligence, reinforces our position – mission success depends on incorporating sophisticated geospatial solutions into government, military, intelligence, homeland security and commercial IT infrastructures.

Northrop Grumman is a leading global security company whose employees provide innovative systems, products, and solutions to government and commercial customers worldwide, through five business sectors focused on aerospace, electronics, information systems, shipbuilding and technical services.

NovAtel, Inc.

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Long-time supplier of high precision GNSS positioning and attitude determination technology for mobile mapping applications. NovAtel GNSS receivers, antennas and SPAN® GNSS/INS products offer a wide range of performances and are designed to integrate easily with existing camera and flight management systems. GrafNav™ from our Waypoint® products group, is the industry's preferred GNSS data post-processing software. Inertial Explorer® extends this functionality with tightly coupled GNSS/INS processing.

NSTec, Remote Sensing Laboratory

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The Remote Sensing Laboratory (RSL) is operated by National Security Technologies LLC (NSTec) for the Nevada Site Office, National Nuclear Security Administration. The laboratory is located at Nellis Air Force Base with operations at Andrews Air Force Base in Maryland. The RSL is a center for advanced technologies, focused on the scientific, technological, and operational disciplines necessary to ensure the success of national security missions. RSL has a world-wide reputation for developing and customizing state-of-the-art instruments and producing standard-setting technologies in remote sensing. Multispectral scanner systems and specially modified aircraft are used in

acquiring a wide range of environmental data. RSL has designed and maintains Geographical Information Systems (GIS) databases for the entire USDOE complex.

Observera, Inc.

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Observera, Inc. is a high technology small business that specializes in sophisticated geospatial processing and analysis technology for a broad spectrum of government and civilian customers. Observera supports our customers with advanced geographic information and image processing services and products. Observera's background in developing advanced imaging technologies for U.S. Government military and intelligence programs is also used to help civilian and commercial customers take advantage of the latest high-quality commercial imaging capabilities. Our experience extends across many imagery types, including photographs, electro-optical, infrared, synthetic aperture radar (SAR), polarimetric, and multispectral/hyperspectral data.

Our core technologies include digital photogrammetry, sensor modeling, image registration, spectral processing, feature extraction, classification, terrain model processing, imagery analysis, decision support systems and GIS.

OBSERVERA'S PRIMARY BUSINESS AREAS ARE:

- Photogrammetry, Sensor Models and Imagery System Engineering
- Imagery & Geospatial Data Analysis and Quality Assessment
- Algorithm Development & Optimization
- Independent Evaluation of 3rd Party Tools, Sensors, Techniques, and Algorithms.
- Automated Geospatial Processes
- Streamlined Imagery Workflows

OUR SERVICES:

SUBJECT MATTER EXPERTISE

Observera delivers a rich understanding of the core remote sensing disciplines, as well as superior services in Geospatial imagery.

WORKFLOW OPTIMIZATION

Observera delivers broad-based analysis of workflow efficiency using our scientific, analytical and technical understanding of geospatial processes. We believe that workflow optimization must start with a thorough understanding of the current and desired concepts of operations and end results.

INDEPENDENT EVALUATIONS

We offer services across the full evaluation lifecycle, including requirements development and analysis, planning, experiment design, site selection, reference data acquisition and generation, assessment, analysis, and reporting.

RESEARCH AND DEVELOPMENT

Our focus is applied R&D, with specific research in areas related to automation of important geospatial processes and improving the user experience when it comes to geospatial and imaging tools.

OUR PRODUCTS:

In addition to our services, Observera is both a developer and value-added reseller of geospatial information products.

CONTINUUM™

Continuum™ allows interaction between temporal representations of data elements and their geospatial representations. For example, selecting an object in the timeline highlights it in the map viewer and vice versa. The tool allows the user to subscribe to data from various data stores. The timeline viewer allows simultaneous, multiple scale views of the temporal information data, which can simultaneously show minutes to centuries, if desired.

GENIE PRO® 2.0

An adaptive automatic feature extraction (AFE) software application that can be used to search and classify remotely sensed imagery. The software uses techniques from statistical machine learning theory and evolutionary computation theory – also known as genetic programming – to perform robust and customized AFE in multispectral, hyperspectral, panchromatic, and multi-instrument fused imagery.

Optech Incorporated

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Optech is a leading provider of advanced lidar and camera survey instruments, offering standalone and integrated systems for airborne mapping, airborne bathymetry, mobile mapping, terrestrial laser scanning, mine cavity monitoring, industrial process control, and space applications.

Optech lidar systems operate underground, on land, in the sea, in the air, and in space. Optech developed the world's first commercial airborne laser system, globally known as **ALTM**. Optech Orion and Pegasus ALTMs offer the greatest airborne flexibility and efficiency available, including new automated processing workflows. The **Optech CZMIL**, an integrated lidar/imagery bathymetry and water column/bottom characterization system, leverages the Optech HydroFusion workflow to automatically generate coastal zone information products.

The complete line of high-precision Optech aerial digital cameras is designed for easy lidar integration or standalone operation, and includes complete camera control, INS integration, and image processing to enable single- and multi-sensor solutions that combine visible, multispectral and infrared solutions.

The **Optech Lynx Mobile Mapper™** generates survey-grade lidar and image data from moving vehicles—at highway speeds. Lynx integrates the latest innovations in lidar sensors with multiple-perspective lidar surveying, best-in-class imaging, real-time 3D previews during navigation, product warranty and support. Best of all, the new Optech LMS processing flow simplifies and automates the task of obtaining accurate results from large volumes of data.

The **Optech ILRIS Terrestrial Laser Scanner** is a fully portable, laser-based ranging and imaging system for the commercial survey, engineering, mining and industrial markets. New automated monitoring and enhanced workflow software are boosting operational efficiency and maximizing safety.

Ideal for underground environments, the **Optech CMS Cavity Monitoring System** delivers a fast, accurate, 3D surveying solution for determining cavity size, orientation and volume.

Whether it's a high-altitude wide-area mapping project, a low-altitude powerline survey, or a compact platform requirement, Optech sensor systems deliver better data faster.

PANalytical NIR Excellence Center (formerly ASD Inc.)

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PANalytical NIR, formerly ASD Inc., is the world's leading supplier of precision field portable NIR spectrometers and spectroradiometers. Our ruggedized lines of analytical instruments provide real-time results with laboratory-level precision. When accuracy matters and success is measured in nanometers, see why the world's leading research institutions depend on ASD for data that can be trusted. For more information please visit www.asdi.com

Products: FieldSpec® 4 spectroradiometer, LabSpec® 4 lab analyzer, TerraSpec® 4 mineral analyzer, FieldSpec HandHeld 2/Pro spectroradiometers, spectrometers, spectral collection, modeling, and predicting software, and a wide array of sampling accessories.

PCI Geomatics

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For over 30 years, PCI Geomatics has provided world-leading software solutions allowing users to extract timely and accurate information from geospatial imagery.

PCI Geomatics' award-winning technology is used by GIS professionals, scientists, researchers, educational institutions, and image analysts around the world and addresses a wide variety of industry applications, including the environment, agriculture, security and intelligence, aerospace and defense, and satellite receiving stations.

PCI Geomatics is recognized globally for its excellence in providing software for accurately and rapidly process-

ing both satellite and aerial imagery. PCI has installed more than 30 thousand licenses, in over 150 countries worldwide. Find out more at www.pcigeomatics.com.

Pickett & Associates, Inc.

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Pickett & Associates, Inc. (Pickett) is a privately owned surveying and mapping firm that celebrates more than 50 years of success. We offer a team of highly experienced professionals that focus on providing personal service and attention to detail in every aspect of their work. By embracing leading edge technologies and tempering it with seasoned professionals, Pickett has the ability to offer turnkey surveying and mapping services on land, air and water. We are constantly pursuing and investing in the future of surveying and mapping for the most practical of reasons, service to our clients.

Pickett's survey department thrives on difficult and demanding projects with the tools and experience to get the job done. Led by Greg Prather, Vice President, Director of Surveying, our survey department employs six Professional Surveyors & Mappers supported by a strong technical and office staff expert in a large variety of software, hardware and equipment. Our surveyors have a long and proud tradition to uphold and offer over 150 years of collective experience.

Pickett's photogrammetry department is managed by Jeff Young, a licensed Florida Professional Surveyor & Mapper and nationally recognized ASPRS Certified Photogrammetrist. Mr. Young is supported by a staff of several trained photogrammetrists that, in total, have a collective experience of over 60 years.

Our flight operations introduced the first Optech Orion-M300 LiDAR sensor on the commercial market. Capable of collecting LiDAR data at 300 khz over a wide range of altitudes gives us the ability to fly high to collect wide areas and fly low to collect detailed corridors. Integrated with the system is an 80 MP high-resolution CS-10000 digital camera for vertical imagery acquisition.

Pickett continues to offer film photography and our Leica RC-30 camera with forward motion compensation, gyro-stabilized mount and GPS navigation is the pinnacle of traditional film cameras.

Pictometry International Corp.

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Pictometry International Corp. is the leading provider of geo-referenced aerial, oblique imagery and measuring software. Currently used by counties in 49 states across America, Pictometry is widely recognized as the provider of visual information systems for county 9-1-1, emergency management, tax assessment, and GIS departments. With applications in insurance, construction and navigation, our solutions are also marketed around the world by distinguished technology licensees.

Pictometry's proprietary image capture process produces Pictometry® Intelligent Images®. These images combine the power of oblique imagery with measuring capabilities to enable users to See Everywhere, Measure Anything, Plan Everything®.

Unlike traditional geospatial information systems which use orthogonal imagery to provide roof top views of a location, Pictometry's oblique image system captures imagery from an angle to reveal greater locational detail in high resolution, 3D-like detail. Imagery is captured from north, south, east, west and overhead views and each pixel is geo-referenced to enable measuring capabilities. Combined, these features provide users with up to 12 views of every square foot of an imaged area and the ability to accurately measure rooftops, lots, trees etc. — directly on the imagery — using an assortment of measuring tools for distance, area, height, pitch and more.

Easy to use and easy to integrate with other mapping systems, Pictometry solutions enhance productivity, improve decision making and dramatically reduce the cost and lost productivity associated with unnecessary travel to job sites and properties.

The Pictometry image library is continually updated and continues to grow. Currently, this library contains images of nearly 75% of the populated U.S. providing users with the added benefit of comparing property changes captured in imagery collected over time. Pictometry imagery and related software products can be downloaded and utilized in the office or accessed online using Pictometry Online® and web services.

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Quantum Spatial is North America's largest full-service geospatial solutions company. Our clients include market leaders in the energy, transportation, and environmental industries as well federal, state, and local government agencies. Quantum Spatial helps organizations answer questions about the world around us. We measure, map, and model, and by unlocking the insights in geospatial data, we help clients mitigate risk, better manage resources, drive profitable growth, and gain new understandings. Our end-to-end capabilities extend from the acquisition and processing of geospatial data, to analysis and visualization using popular enterprise GIS platforms and custom dashboards and applications. We also manage client data with our geospatial cloud solutions. Quantum Spatial professionals approach each engagement as a partnership, not a project. We apply our deep scientific and engineering expertise to helping clients get maximum value from geospatial information. We are constantly pushing the bounds of geospatial analytics and never stop asking, "What else can clients learn from their data?"

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Celebrating twenty years of excellence, *RIEGL USA* delivers cutting edge technology in airborne, mobile and stationary terrestrial laser scanning solutions.

From your initial purchase, to integration of the systems, as well as training and support, *RIEGL USA* stands out as a leader in the industry. The key factor to *RIEGL USA*'s success is providing complete reliability and support to our customers.

As a result of this success, *RIEGL USA* is recognized as the performance leader in the mobile mapping, civil infrastructure, airborne scanning, hydrographic, mining and terrestrial based industries. Our instruments are well known for their ruggedness and reliability under demanding environmental conditions. *RIEGL*'s various 3D scanners offer a wide array of performance characteristics and serve as a platform for continuing "Innovation in 3D" for the laser scanning business.

RIEGL USA, located in Orlando, Florida, serves as the North American center of sales, training, and support for *RIEGL Laser Measurement Systems, GmbH*.

RIEGL Laser Measurement Systems, GmbH, is headquartered in Horn, Austria. *RIEGL* has over thirty years of experience in the research, development and production of laser rangefinders, distancemeters, and scanners that deliver proven innovations in 3D. *RIEGL* is dedicated to designing, developing, and producing the best possible laser sensors for the desired application in order to perfectly fulfill the given measurement tasks and therefore, fully satisfy the customers' expectations worldwide.

RIEGL USA: Building Systems, Delivering Performance

Robinson Aerial Survey, Inc. (RAS)

One Edgeview Drive
Hackettstown, NJ 07840-4003
(908) 813-3900; (908) 813-3967 (fax)
lutzk@robinsonaerial.com; www.robinsonaerial.com



Robinson Aerial Surveys, Inc., (RAS) has been providing a comprehensive range of aerial photography and photogrammetric base mapping services since 1936. RAS has its own photographic laboratory, digital and analytical mapping systems, and CAD workstations making it a fully integrated mapping facility.

RAS has significant experience in meeting our clients' needs in a full range of aerial photography and mapping applications. Our clients include land surveyors, engineers, developers, government agencies, utility companies, planners, attorneys, and corporations of all sizes and interests.

PROJECT APPLICATIONS INCLUDE:

- Highway and rail design and construction

- Residential and commercial land development
- Flood plain definition
- Environmental / historical studies
- Construction progress mapping
- GIS base mapping
- Development / Feasibility mapping
- LIDAR Post-processing & Classification

EXPERIENCE COMBINED WITH A WIDE RANGE OF APPLICATIONS

Robinson Aerial Surveys has a dedicated team of Certified Photogrammetrists, Stereo Compilers, CAD Specialists, Photo Lab Technicians and Licensed Land Surveyors. All of our professional and senior technical staff has between 15 to 30 years of experience in the photogrammetry profession.

RAS PROVIDES THE FOLLOWING SERVICES:

- Aerial photography and Low Altitude Mapping Photography (LAMP)
- Digital Aerial Imagery
- Airborne GPS
- LIDAR Acquisition & Post-processing
- GPS Photo Control
- Digital photogrammetric mapping
- Aerial triangulation
- GIS Base Mapping
- Photographic lab services, scaled enlargements, historical photo archives
- CAD production in MicroStation and AutoCAD platforms
- Digital Terrain Model (DTM) development
- Digital Ortho-photography
- Scanning services

Client satisfaction is the driving force behind our efforts. It is our mission to provide innovative and cost effective solutions to our clients. Our commitment to creating accurate mapping products delivered on schedule and within budget has been the foundation of our success for over 70 years.

The Sanborn Map Company

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 Colorado Springs, CO 80920
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Sanborn is a preeminent leader in the exploding geospatial industry. Built on a rich tradition of mapping dating back to 1866, Sanborn delivers state-of-the-art aerial mapping solutions to customers worldwide. Using cutting-edge technology, Sanborn specializes in high-quality aerial and mobile LiDAR, aerial orthophotography, 3-D modeling and visualization, oblique aerial imagery and software development. The firm currently operates a fleet of 14 aircraft across the United States. Sanborn's technology advantage, innovative image processing expertise, a local presence nationwide and project management proficiency deliver unmatched value to its global customers. Questions? Send an inquiry to information@sanborn.com and one of our highly qualified sales professionals will assist you.

Science Applications International Corporation

Space and Geospatial Intelligence Business Unit
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SAIC is a FORTUNE 500® scientific, engineering, and technology applications company that uses its deep domain knowledge to solve problems of vital importance to the nation and the world, in national security, energy and the environment, critical infrastructure, and health. The company's approximately 45,000 employees serve customers

in the U.S. Department of Defense, the intelligence community, the U.S. Department of Homeland Security, other U.S. Government civil agencies and selected commercial markets. Headquartered in McLean, Va., SAIC had annual revenues of \$10.8 billion for its fiscal year ended January 31, 2010. For more information, visit www.saic.com. SAIC: From Science to Solutions®

The Sidwell Company

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The Sidwell Company is one of the oldest and most respected companies providing cadastral mapping, photogrammetry and land records management services throughout the United States. With established skills in the mapping sciences, Sidwell was one of the first companies of its kind to adopt digital mapping technology and embrace GIS as a platform for intelligent mapping. The company offers a variety of mapping and GIS professional services, which include: data conversion, digital data enhancement, database design, workflow analysis, custom application development, website development and hosting, training, aerial imagery, and GPS equipment sales.

Since its founding in 1927, Sidwell has built a tradition of providing highly accurate mapping and GIS solutions to clients in government and private industry. For nearly 50 years Sidwell has provided photogrammetric mapping services, and has performed thousands of photogrammetric projects, ranging in application from those for small development sites to municipalities, counties, large federal and international projects.

Sidwell is an employee-owned firm specializing in aerial imagery, geospatial services, photogrammetry, GIS planning, design and implementation, software development; data conversion and cadastral database development. Professional Services offered by Sidwell support a variety of applications including real estate assessment, public works, civil engineering, and emergency response dispatch. Sidwell serves clients nationally, and is an esri Business Partner. In addition, Sidwell is a Trimble GPS hardware and software reseller.

Sidwell's Photogrammetric Services include:

- Precision Aerial Photography
- Digital Aerial Image Capture
- Ground Control Surveys And Monumentation
- Terrain Modeling and Topographic Mapping
- Planimetric Feature Extraction
- LiDAR
- Digital Orthophotography
- Volumetric Inventory
- GIS Development and Training

- Preparation of Cadastral Mapping and Parcel Numbering Systems
- GIS Website Design and Web Hosting

The company's team of photogrammetric specialists includes numerous Certified Photogrammetrists, Cadastral Mapping Specialists and Licensed personnel with direct experience in the production of large-scale mapping projects.

SimActive, Inc.

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SimActive is the developer of Correlator3D™ software, a patented end-to-end photogrammetry solution for the generation of high-quality geospatial data from satellite and aerial imagery. Correlator3D™ produces precise digital surface models (DSM), digital terrain models (DTM) and orthomosaics. Powered by GPU technology, Correlator3D™ accelerates project completion timeframe.

SIMEPAR Institute of Technology

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SIMEPAR is an institution with public interest, nonprofit, and a complementary unit of the Paraná Technology Autonomous Social Service, linked to the Department of Science, Technology and Higher Education of the State of Paraná, Brazil, and it is established in the city of Curitiba. SIMEPAR is in charge of the implementation and operation of the Meteorological System of Paraná, which was imposed by State Law number 17709 of October 15, 2013.

SIMEPAR as a technological enterprise, aims to establish a physical infrastructure and capable human

resources in order to provide data, information and forecast related to meteorology, hydrology and environment. Also, to develop and implement activities related to scientific and technological research and training, to promote business competitiveness and socio economic and technological development of Paraná State. Therefore, SIMEPAR is involved with projects in different areas including Meteorology, Remote Sensing, GIS, Computing, Engineering and related fields.

PHYSICAL INFRASTRUCTURE:

SIMEPAR Institute of Technology installed and have been operating over the past few years, a complex system of hydrometeorological monitoring and forecast in the State of Paraná and neighboring regions. The system includes: (i) Two meteorological radar S Band Doppler with the capability to estimate precipitation and wind direction with high spatial and temporal resolution, (ii) More than 50 weather stations (with hourly measurements of precipitation, temperature and air humidity, atmospheric pressure, solar radiation net direction and wind speed), automatic telemetric installed throughout the state, (iii) More than 50 hydrological stations (with measures every 15 minutes of rainfall and river level), automatic telemetric installed throughout the state, (iv) An atmospheric electrical discharges detection network system, (v) Satellite receiving and processing station, (vi) A laboratory of electronics and maintenance of standards for the maintenance and calibration of the monitoring system, (vii) High performance computing environment to integrate, process and store environmental data, information and products, to run meteorological models and hydrometeorological forecasting.

Spectral Evolution

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SPECTRAL EVOLUTION Full Range UV-VIS-NIR Spectrometers, Spectroradiometers and Spectrophotometers are used worldwide for many lab and field assignments due to their reliable, robust, rugged yet lightweight design and user-friendly features including: 100% photodiode array construction for low noise & reliable battery operated performance; fast, full spectrum measurements with no moving gratings; integral dark shutter and autoexposure for convenient scans.

SPECTRAL EVOLUTION Spectrometers and Spectroradiometers also feature:

- Full range 350-2500nm all photodiode operation with InGaAs and Si arrays- for both portable & lab models (280-2500nm models also available)
- Reliable fixed grating based optics with no internal fiber optics or moving parts to jam or break in the field.
- Spectral radiance and irradiance calibration
- One touch use- autoexposure & autoshutter
- Lens, fiber, sphere and diffuser inputs
- Wireless Bluetooth operation- with laptop or PDA
- Lightweight- all units weigh less than 8lbs with removable, rechargeable Li-Ion battery
- DARWin SP Data Acquisition software included with each instrument, saves your scans as ASCII files for use with 3rd party software, provides pull-down menus for 19 vegetation indices
- Optional EZ-ID sample identification software matches an unknown target to a known library sample
- Custom Library Builder module allows you to quickly and easily scan known samples and build a custom library

SPECTRAL EVOLUTION maintains a facility in Lawrence, Massachusetts which houses all operations including, design, prototyping, manufacturing and in-house repair facilities for the instruments that it markets and sells worldwide, either through direct sales, OEM sales or through distributor agents. SPECTRAL EVOLUTION also maintains state of the art spectral, spectral radiance and spectral irradiance calibration facilities for periodic calibration of customer equipment in the UV, VIS, NIR and SWIR wavelength regions. See our website at www.spectralevolution.com for more information.

Surveying And Mapping, Inc. (SAM, Inc.)

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Surveying And Mapping, Inc. (SAM, Inc.) utilizes the latest technology to deliver precision surveying and mapping services for electric energy, oil and gas, transportation, railway, telecommunications, and public sector clients. We routinely integrate data across service disciplines to provide innovative and cost-effective solutions.

Professional Land Surveying - Our staff is equipped with the latest technology. We provide a full range of services for boundary, route, topographical, and construction surveying.

Hydrographic Surveying - We offer diverse hydrographic services, delivering products of the highest quality and precision in support of energy, water, environment, and transportation projects.

Aerial Mapping & Photogrammetry - We provide mapping data acquisition and processing services for digital photography and airborne LiDAR. We offer precision planimetric and topographic maps, digital orthophotography, digital terrain models, and mapping solutions for projects across North America.

Airborne, Mobile, & Terrestrial HDS LiDAR - LiDAR laser scanning is part of our broad inventory of advanced surveying and mapping technologies. Our data collection options include airborne LiDAR using both helicopter and fixed-wing platforms, mobile LiDAR using ground-based vehicles, and fixed-position terrestrial HDS scanning.

Geographic Information System (GIS) Services - As part of the Esri Partner Network, we provide complete turnkey solutions for planning, management, and implementation services. We deliver high value, accurate data for the planning, parcel mapping, utility mapping, and asset management needs of public and private sector clients.

Subsurface Utility Engineering (SUE) & Utility Coordination - We offer a full range of services to support utility projects, including Subsurface Utility Engineering (SUE) and Utility Coordination. Our services are headed by a professional engineers with comprehensive experience in all levels of utility coordination.

Construction Services - SAM-Construction Services, Inc. (SAM-CS, Inc.) is our wholly owned subsidiary that specializes in construction inspection and observation, quality assurance and quality control (QA/QC) management, contract administration, and quality manuals and specifications.

OTHER GEOGRAPHIC LOCATIONS:

DALLAS OFFICE:

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HOUSTON OFFICE:

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DENVER OFFICE

555 Zang Street, Suite 210
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COLUMBUS OFFICE

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Topcon Positioning Systems

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Topcon Positioning Systems is a worldwide leading developer and manufacturer of precision positioning equipment and offers the widest selection of innovative precision GPS systems, mobile GIS data collection solutions, lasers, optical surveying, and machine control products. From inner city utility projects to rural telecommunications projects, Topcon Positioning Systems creates innovative technology solutions that give a decidedly competitive edge to end-users. Topcon has focused on developing an array of integrated positioning and automation technologies to meet the constantly changing demands facing GIS, construction, remote sensing, surveying, agriculture, utilities and law enforcement professionals worldwide.

For applications such as corridor mapping, asset inventory, and utility infrastructure Topcon's innovative mobile mapping solutions can improve data workflows and increase production. The vehicle-mounted IP-S2 system can map data at normal travel speeds for roadway mapping projects, power electric corridor or any assessment and roadside feature inventory. The IP-S2 HD mobile mapping system captures 1.3 million points per second, covering features up to 100m away. A 360 degree digital camera is included providing spherical images at fixed distance intervals. Through the integration of 360° images and high density point clouds, users get a superior dataset for easy feature recognition and quick data extraction.

Topcon's GLS-1500 scanner is lightweight, cable free and designed for quick and hassle-free setups. While other laser scanners take two people to setup and operate, the GLS-1500 is a one-person instrument. The GLS-1500 captures data at a range of 500 ft (150m) to a typical surface, and with an extended range to 1100 ft (330m) for more reflective surfaces.

Combining cutting edge hardware and software, Topcon offers a complete end-to-end solution for a variety of applications. With Topcon simplify your workflow and just scan, extract, and deliver.

Towill, Inc.

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Towill is a leading provider of geomatics services and technologies, including aerial photography, terrestrial and airborne LiDAR, digital photogrammetric mapping, volumetrics, geographic information systems (GIS), and land surveying. Towill also provides specialty services such as tunneling surveys and industrial metrology. Towill's competitive edge is our 59 years of experience in successfully providing a broad range of geomatics engineering services, coupled with the philosophy that it is our role to understand the specific needs of our clients and design practical solutions to meet their unique requirements

Building on a successful business established in 1955, Towill has grown into an industry leader with approximately 100 employees in nine offices located throughout California, Colorado, and Texas. Our corporate headquarters is located in Concord, California, in the San Francisco Bay area. A key to Towill's success over the years has been our commitment to effectively utilize new technologies to our clients' advantage. We have invested over \$5M in modern hardware and software to ensure that we can provide our clients with the most accurate, cost-efficient, and timely services available. Towill has assembled a multi-disciplined staff with the experience and qualifications to perform multiple roles, giving our clients a broad depth and range of skills to meet their project needs. The evidence that our formula works is demonstrated by our high rate of repeat clients and referrals. Over 90% of Towill's business comes from repeat clients, resulting in over \$82M in fees over the last five years. As technology grows and new markets emerge, our clients will continue to benefit from Towill's commitment to quality and innovation – and the expertise of a proven team who is on your side to meet the challenges ahead.

Trimble

Geospatial Division

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Trimble applies technology to make field and mobile workers in businesses and government significantly more productive. Solutions are focused on applications requiring positioning or location—including surveying, construction, agriculture, fleet and asset management, public safety and mapping. In addition to utilizing positioning technologies such as GPS, lasers and optics, Trimble solutions may include software content specific to the needs of the user. Wireless technologies are utilized to deliver the solution to the user in the field and to ensure communication between the field and the office. Founded in 1978, Trimble is headquartered in Sunnyvale, California.

U.S. Geological Survey

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The U.S. Geological Survey (USGS), established by Congress in 1879, serves the Nation as the science agency for the Department of the Interior. The USGS' mission is to provide reliable scientific data and information to describe and understand the Earth; minimize loss of life and property from natural disasters; manage water, biological, energy, and mineral resources; and enhance and protect our quality of life. As the Nation's largest water, earth, and biological science agency, the USGS collects, monitors, analyzes data and information, and provides scientific understanding about natural resource conditions and issues. The diversity of our scientific expertise enables us to carry out large-scale, multidisciplinary investigations and provide impartial scientific information to resource managers, planners, and other customers.

For decades, USGS has been a world leader in providing remotely sensed data and demonstrating its scientific applications. In 2002, the USGS reaffirmed its commit-

ment to remote sensing science by establishing the Land Remote Sensing (LRS) Program with three major components: satellite missions; products, data preservation, and access; and research and applications. USGS acquires, processes, archives, and distributes Landsat and other satellite and airborne remotely sensed data products to users worldwide. USGS operates and manages the Landsat satellite missions and manages the Nation's archive for the world's largest collection of civilian remotely sensed data covering the Earth's landmasses.

The USGS provides all Landsat data in the U.S. archive, and other remotely sensed data, at no cost to the user through download, internet-based connection. The archive includes millions of satellite images and aerial photographs that are used by researchers and operational land managers in both the public and private sectors, to understand natural resources, hazards, and long-term changes. The LRS Program conducts and sponsors research in collection, access, distribution, and applications of remotely sensed land data from current and future data sources. Scientists and engineers sponsored by the LRS Program are investigating new types of satellite systems and sensors, studying promising new data sources, developing new data acquisition programs and sources, and assessing the potential for new data applications.

The USGS Land Remote Sensing Program is a key partner in the Landsat Data Continuity Mission (LDCM.) Operational control of LDCM will be transferred to the USGS and renamed Landsat 8 after NASA has successfully established the satellite in a polar orbit. LDCM is scheduled for launch in February 2013, ensuring the continuity of data acquisition that begun by Landsat satellites forty years ago.

University of Twente/Faculty ITC (formally International Institute for Geo-Information Science and Earth Observation (ITC))

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At the International Institute for Geo-Information Science and Earth Observation (ITC), knowledge of geo-information management is readily available and is

continually being developed and extended. By means of postgraduate education, research and project services, we contribute to capacity building in emerging countries and countries that are economically and/or technologically less advanced. In doing so, considerable attention is paid to the development and application of geographical information systems (GIS) for solving problems. Such problems can range from determining the risks of landslides, mapping forest fires, planning urban infrastructure, and implementing land administration systems, to designing a good wildlife management system or detecting environmental pollution.

The key words characterising our activities are geo-information management, worldwide and innovative. We concentrate on earth observation, the generation of spatial information, and the development of data integration methods. Furthermore, we provide tools that can support the processes of planning and decision making for sustainable development and the alleviation of poverty in emerging economies. Based in Enschede, in the east of the Netherlands, ITC is the largest institute for international higher education in the country.

RESEARCH

The ITC Research Programme develops cutting-edge knowledge and innovative approaches in geo-information science and earth observation. The programme addresses applications of geospatial data for space and resource management and the provision of geospatial data for the user community.

EDUCATION

More than 19,000 course participants from over 170 countries have followed ITC courses since 1950. With almost 60 years of extensive experience and a dedicated scientific staff with a wide range of expertise, ITC is one of the world's foremost professional training establishments in the field of geo-information science and earth observation.

Over the years, ITC has developed a wide selection of degree, diploma and certificate courses in the field of geo-information science and earth observation. These courses are offered in the Netherlands, online and abroad by ITC itself or by ITC in collaboration with reputable qualified educational organisations.

ADVISORY SERVICES

To accommodate the rapidly changing demand for capacity building and institutional strengthening, ITC offers a flexible package of training and project services tailored to the needs of its clientele in terms of content, duration and location.

The aim of institutional development – by far the most important type of project service carried out by ITC – is to establish and/or improve the institutional set-up and capability of educational and professional organisations specialising in geo-information handling and earth observation.

Urban Robotics, Inc.

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Urban Robotics, Inc. provides cutting edge software and hardware solutions for intelligence, surveillance and reconnaissance (ISR) and remote sensing applications. Products include aerial EO and NearIR digital sensor systems, high performance aerial and ground computer clusters, and automated algorithms for generating fast turn-around orthorectified maps:

- **SENSOR SYSTEMS:** The PeARL Sensor System is a high end airborne EO and NIR frame sensor. A typical installation includes an aggregate 84 MegaPixel RGB 12-bit/channel sensor cluster. When combined with a Wulpack Aerial Cluster, it is capable of near real time optimization and registration of imagery.
- **COMPUTER CLUSTERS:** The Wulpack ground and aerial clusters are high performance computer systems designed for the challenging field environments associated with military aircraft and ground installations. These Intel-based 100+ CPU core clusters are customized for low-power, low-weight, and rugged environments. Custom Urban Robotics developed software infrastructure fully utilizes the cluster's computational muscle for near-real-time advanced processing of frame and video based imagery in the air or on the ground.
- **ALGORITHMS:** Urban Robotics specializes in high-end, distributed image processing algorithms and software packages for advanced GIS applications, including algorithms for georeferencing, mosaicing and 3D extraction. The algorithms have been tuned to support a number of source sensors including EO, NIR, FLIR, and SAR imagery, and can output in a variety of formats including Google Earth, GeoTIFFs, and DOQQs.

Urban Robotics customers include federal agencies, military forces and private corporations. With products in place and onsite supported around the world, Urban Robotics has a proven track record of bringing advanced technologies quickly into deployed products.

PRODUCTS & SERVICES:

- **PeARL Sensor Systems** – Digital RGB/NIR EO Frame Aerial Sensors
- **Wulpack Aerial and Ground Stations** – Multi core computer clusters and software for advanced

real-time image processing

- **Orthorectification and Mosaicing Service** – Fast, large area processing of EO/NIR/FLIR imagery into orthorectified and mosaiced map data to be viewed in applications such as Google Earth and ArcGIS
- **Algorithm and Engineering Services** – Custom software development for C4ISR applications

USDA/National Agricultural Statistics Service

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The National Agricultural Statistics Service (NASS) provides timely, accurate, and useful statistics describing virtually every facet of U.S. Agriculture. These statistics are obtained through hundreds of annual surveys and the Census of Agriculture, the latter being conducted every five years. Since the 1980's, NASS has used satellite imagery to enhance its survey program. The GeoSpatial Information Branch currently directs four applications of remote sensing in NASS:

- **Area Sampling Frame Construction:** Each year NASS randomly samples, through site visits, approximately 11,000 tracts of land to estimate agricultural activity across the United States. NASS uses Landsat data and digital ortho-photography to identify areas for sampling, and also uses printed aerial photography for actual field enumeration. Selected statewide area frame strata shapefiles are available at <http://www.nass.usda.gov/research/stratafront2b.htm>.
- **Cropland Data Layer (CDL):** The CDL is a raster, geo-referenced, crop-specific land cover data layer created annually for the continental United States. The CDL uses medium resolution multi-spectral satellite data, such as Landsat, Disaster Monitoring Constellation (DMC) or Resourcesat AWiFS, and extensive agriculture ground data to identify crop types. CropScape, the web portal for the CDL is a geospatial data service which offers advanced tools such as interactive visualization, web-based data dissemination and geospatial queries. These data products are available through *CropScape* at <http://nassgeodata.gmu.edu/CropScape> or from the GeoSpatial Data Gateway at

<http://datagateway.nrcs.usda.gov/>.

- **Vegetation Condition:** The Normalized Difference Vegetation Index measures vegetation vigor and can be derived from several different satellites. NASS maps this index to help USDA officials monitor crop conditions throughout the country. *VegScape* is a geospatial data service which offers automated updates of vegetative condition at daily, weekly, and biweekly intervals. *VegScape* delivers interactive vegetation indices that enable quantification of U.S. crop conditions for exploring, visualizing, querying, and disseminating via interactive maps. *VegScape* is available at <http://nassgeodata.gmu.edu/VegScape/>.
- **Crop Yield Program:** NASS is operationally estimating crop yields via remote sensing. The primary satellite used is NASA's Moderate Resolution Imaging Spectroradiometer (MODIS.) Various survey inputs are used to model the crop yields which are used in determining NASS' official estimates. Currently estimates are done in the Heartland for the major corn and soybean states at the state, district and county levels.

Visual Intelligence Systems, Inc.

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Founded in Houston, Texas in 2003, Visual Intelligence LP is an industry-leading software and sensor technology company that delivers world-class geospatial solutions for airborne, terrestrial and mobile applications. The company has a rich history of industry innovations, numerous patents, the USGS Digital Aerial Sensor Type Certification, and the 2013 Geospatial Forum World Technology Innovation in Sensors Award. Using the iOne™ Sensor Tool Kit Architecture, the company delivers to the geospatial marketplace the iOne™ family of Sensor System Solutions—the most economical, highest performance, most reliable, modular and scalable family of oblique/3D and engineering mapping multipurpose geospatial sensors. They include automated 2D/3D software workflows for high speed actionable information product generation. For more information, please visit www.visualintelligenceinc.com.

Wilson & Company, Inc., Engineers & Architects

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Offering complete expertise to our clients, when and where they need it distinguishes the heart of Wilson & Company's team of professionals. Our staff works collectively to go beyond the typical expectations and we have found that every successful project enjoys higher relationships between the owner, designer, and interested partners. We achieve success through the shared ownership of the challenges, expectations, and missions of the project.

As with any team, our members have been positioned according to their talents and expertise. Photogrammetrists, surveyors, and GIS experts encompass our lineup. Each individual's commitment to the profession and industry is revealed in his or her training, licenses, certifications, and professionalism. Complementing our team is a collection of state-of-the-art equipment. Together, they work simultaneously to grow our capacity, strength, and ability to provide comprehensive geospatial-related products and services.

Without exception, Wilson & Company delivers quality results. Every level of project delivery incorporates professional standards and a hands-on effort. Building a strong rapport with our clients, business partners, and employees has produced Wilson & Company's 75+ year legacy.

As a full-service A/E firm, Wilson & Company also employs transportation, railroad, electrical, mechanical, structural, industrial processes, and environmental engineers, planners, and architects. Wilson & Company has been in continuous practice since 1932, and maintains 17 offices in nine states.

COMPANY PRODUCTS/SERVICES

Engineering	Aerial Photography
Architecture	Construction Management
Surveying	Transportation Planning
Mapping	

Wiser Consultants, LLC

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Wiser Consultants, LLC (Wiser) has more than 17 years of experience providing engineering, surveying and mapping services to federal, state, and local agencies. Wiser has the experience and resources to provide high quality services which include but are not limited to engineering, geomatics, photogrammetry and geographic information systems development. At the core of our company is a dynamic team of talented and dedicated professionals whose mission is to help each client meet its ongoing challenges. Wiser offers a team of experts who are extremely qualified, including Professional Engineers (PE), Professional Land Surveyors (PLS), Certified Photogrammetrists (CP), Project Management Professionals (PMP), and Subject Matter Experts (SME). When relationships, quality, and solutions matter, the choice is Wiser.

Woolpert LLP

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Established in 1911, Woolpert is a leader in geospatial services, providing advanced photogrammetry and remote sensing services to federal and local/state clients for decades. We continue to stay up on and invest in the latest technologies for our photogrammetric services, which include analog, digital, and thermal aerial imagery acquisition; aerial and ground-based mobile LiDAR; UAS; conventional, GPS, hydrographic, and subsurface surveying services; traditional photogrammetry and advanced remotes sensing; 3D modeling; automated feature extraction; full-service GIS consulting services; and custom application development.

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XEOS Imaging is a North American leader in turn-key aerial imagery services. XEOS Imaging delivers powerful tools for the pre-design, design, construction and maintenance phases of any infrastructure and territory management projects. It has a reputation for producing very accurate and detailed aerial products with world-class project management. It is committed to an ongoing process of technological innovation and to customer service excellence. XEOS Imaging is ISO 9001-2008 certified. Throughout the years, it was granted many awards for its technology (Association of Canadian Engineering Consulting Companies) and for its human resources management (Mercuriades Awards from the Quebec Provincial Chamber of Commerce). XEOS Imaging is present in Quebec City (Canada), Houston (Texas) and San Juan (Puerto Rico).

XEOS IMAGING PRODUCTS INCLUDE:

- Single Images
- Seamless Ortho Mosaics
- Stereo-Photogrammetric Models
- Web Based Interactive Cartography
- Photogrammetric Point Clouds
- LiDAR
- DEM/DSM and Contours Lines