

BAE Systems and Buckeye delivering quality orthophotos to support U.S. Army TEC

BAE Systems is currently under contract with the U.S. Army Topographic Engineering Center to produce Buckeye derived-color digital orthophotos to support improvised explosive device detection and other military operations.

BAE Systems is leading a team of highly qualified individuals utilizing the premier photogrammetric application, SOCET SET, to perform image dodging and balancing, softcopy aerotriangulation, elevation data processing, and orthophoto production.

The Buckeye system was developed by the U.S. Army Topographic Engineering Center (TEC) for a field-expedient change detection system used to aid in the detection of improvised explosive devices (IEDs).

SOCET SET functionality supports

Buckeye production:

- Batch import of more than 50,000 images
- Buckeye camera calibration file creation
- Block setup utilizing ABGPS data
- Automatic tie point measurement
- Supplemental control point measurement from LiDAR
- Automatic blunder detection
- Bundle block adjustment - X, Y, Z, omega, phi, kappa
- Orthophoto/OrthoMosaic generation
 - Removes terrain distortion and camera obliquity
 - Automatic seamline generation
 - Seamline feathering

BAE Systems is satisfying requirements for cost-effective, high-volume production of Buckeye digital orthophotos. Our technical expertise in software solutions and geospatial data production services ensures that we can play a fully effective and important role within U.S. Army TEC.

BAE SYSTEMS SERVICES

Project planning and execution

Imagery preparation

GPS/IMU and control point preparation

Triangulation/registration of imagery

Processing of terrain elevation models

Orthophoto generation

Quality control



KEY CAPABILITIES

About BAE Systems

BAE Systems has been a trusted supplier of imagery and geospatial products and services to the defense and intelligence communities for almost 40 years, with a reputation for technical excellence and performance as promised.

Geospatial Products and Solutions

BAE Systems provides commercial products that bring its customers the most comprehensive imagery display, exploitation, and photogrammetric production software in the market today. BAE Systems has put its years of imaging expertise to work by developing the first truly scalable commercial imaging solution.

Our products and services fulfill our government and civil customers' photogrammetry, mapping, GIS, exploitation, image analysis, precision targeting, intelligence, visualization, simulation, and mission preview/rehearsal needs in more than 70 countries around the globe.

What we do

We are in the business of providing the critical geospatial solutions you need. With the challenging conditions surrounding our world, customers are demanding solutions that provide reliable access to accurate geospatial data. BAE Systems supports these requirements with comprehensive, end-to-end solutions.

We employ the latest geospatial technologies that support our customers' needs. Our nearly 40 years of experience and industry awareness have helped our customers achieve their goals by creating solution-driven products.

Geographic information systems

GIS systems integration

Geospatial engineering design

Geospatial application development

GIS internet services

Photogrammetric mapping

Remote sensing

3-D visualization

Satellite and airborne imagery

Terrain data from LiDAR and imagery

Urban and rural vector data

FOR MORE INFORMATION, CONTACT:

Geospatial Data Services:

Mark Oldknow
mark.oldknow@baesystems.com
(703) 668-4179
BAE Systems
11487 Sunset Hills Road
Reston, VA 20190
www.baesystems.com/eis

SOCET SET Software:

Mark Sarojak
mark.sarojak@baesystems.com
(571) 212-7177
BAE Systems
11487 Sunset Hills Road
Reston, VA 20190

© 2007 BAE Systems. All trademarks used are the property of their respective owners. EXPORT CONTROLLED DATA. This presentation is cleared for marketing purposes. The actual product and its technical information is governed by the U.S. International Traffic in Arms Regulations (ITAR) or Export Administration Regulations (EAR). The products, or technical information about these products, must not be transferred to a foreign person/entity without proper authorization of the U.S. Government. Violations may result in administrative, civil or criminal penalties. Release of this data sheet is approved as of 1/4/07.