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## Profile of New Sustaining Members

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### Hansa Luftbild AG

**Hansa Luftbild - German Air Surveys** - is one of Europe's leading group of companies in the field of aerial surveying and Geographic Information Systems (GIS) headed by Hansa Luftbild AG. Our range of world-wide activities includes aerial surveys, photogrammetry, photo interpretation, remote sensing and environmental studies, airborne geophysics and exploration work, as well as data processing, software development and digital cartography. In addition, we offer our services as consultants in all of these areas.

We can look back at more than 75 years of experience in the business of aerial surveying. These long years of international experience have enabled us to develop many new techniques. The skilled staff at both our Holding firm, Hansa Luftbild AG based in Münster, and its subsidiaries Hansa Luftbild Consulting International GmbH, Hansa Luftbild Sensorik und Photogrammetrie GmbH, Hansa Luftbild Geoinformationssysteme GmbH, ICF GmbH in Münster and Photogrammetrie GmbH based in Munich, can offer fast and reliable service to customers commissioning any of the following services:

#### Aerial Surveying Missions

Survey missions that are flown by GPS-navigated piston engine, turbo prop or jet aircraft. These may carry different sensors like camera systems featuring nominal focal lengths of  $f = 88.5$  mm,  $f = 152$  mm,  $f = 305$  mm, and  $f = 610$  mm. Depending on the configuration, simultaneous dual camera operation is also possible. In addition, we have on call both multiband spectral, thermal and laser scanners as well as a range of advanced equipment for use in airborne geophysical exploration work. All our aircraft are equipped with dual frequency photogrammetric GPS receivers for kinematic DGPS positioning and several with inertial navigation systems for direct georeferencing.

#### Terrestrial Surveying

Terrestrial survey for establishing of geodetic networks, ground control points and field verification based on most advanced equipment like GPS techniques and total stations.

#### Geological Surveys and Assessments

The complete package of services necessary to investigate and evaluate mineral deposits is offered. In close co-operation with the client the service requirements will be established according to project needs. The services include surveying and remote sensing, field geology, hydrogeology, geophysics, mineralogy, mineral dressing and

beneficiation, mining and the evaluation of exploration results.

#### Market Surveys and Feasibility Studies

Available in all fields of activities.

#### Photographic and Reprographic Works

A large photolab equipped for black & white (pan/infrared) as well as colour and 'false colour' development of exposed film material ensures that our aerial photos are always of the highest quality including the A/D conversion by high precision photo scanner.

Digital image processing systems allow the output of photographic products of top quality. Large format photo plotters in combination with laminating systems are in use.

#### Mosaicking, Photomap and Orthophoto Map Production

Hansa Luftbild has been compiling thousands of mosaics, photomaps and orthophoto maps at various scales ranging from 1:1,000 up to 1:500,000 ever since its foundation way back in 1923, nowadays in a fully digital production process.

#### Photo Interpretation

Photo interpretation and computer-assisted thematic mapping applied for:

- Land use studies
- Environmental analyses
- Tree and crop vitality studies
- Town and city planning
- Transportation network analyses
- Mapping of old neglected deposits
- Forest planning
- Disaster control (flooding, earthquake etc.)

#### Stereo Mapping and Cartography

Our stereo restitution section works with high precision analytical plotters and digital photogrammetric workstations operating in two shifts, an arrangement which permits large numbers of maps to be compiled within a reasonable period of time. Our stereoplotters are equipped with PC-workstations utilising MicroStation software (Bentley). Access to digitised computer techniques not only ensures precise registration of the coordinates and landscape features required for aerial triangulation of large blocks, profiles and cross sections; it also permits interactive display, automatic plotting, continuous editing and superimposition.

#### Data Processing and GIS

Our Interactive Graphic Systems (IGS) greatly facilitate and speed up the map compiling process. Data obtained

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from stereoplotters, interactive digitizers (data conversion, on screen digitising), total stations or electronic fieldbooks are first recorded in digital form before being transformed, completed and evaluated at our interactive graphic workstations and digital cartographic systems. The data can then be used to compile maps with the help of high precision plotters, or else they serve as the starting point for further computations. High precision and large format laser-raster plotters are on call. This method allows to set up and economically maintain such digital data systems as topographic databases, Geographic Information Systems (GIS) and Digital Terrain Models (DTM) for a broad variety of design and planning purposes.

### Software Development

Hansa Luftbild offers by the company ICF GmbH in the fields of CAD-Mapping, digital cartography and GIS its capacity of software development for special tasks such as data translation or user interfaces. The Company is work-

ing as Intergraph Solution Center / System Integrator and Bentley Development Center. Hansa Luftbild is member of Intergraph Team GeoMedia.

Hansa Luftbild also maintains a consulting service in all the fields mentioned. Special consulting services can be offered in the field of utility organisation and its network information systems. In conjunction with the Federal German Technical Aid Program, our firm offers practical training courses for personnel from developing countries.

In addition to the numerous experts at Hansa Luftbild, we retain the services of highly qualified consultants recruited from every branch of the earth sciences.

You can learn more about Hansa Luftbild and its range of activities by browsing through our web-site: [www.hansaluftbild.de](http://www.hansaluftbild.de).

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## News from Sustaining Members

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### DigitalGlobe

#### DigitalGlobe Unveils Plans for Next-generation System M5 System to Image the Earth's Land Surface Every Four Days

DigitalGlobe, an imagery and information company, announced plans to launch its next-generation remote sensing system - M5. The company has been working with Ball Aerospace & Technologies Corp. and ITT Industries for the past two years to develop M5 with the first satellite in the M5 constellation scheduled to be operational in early 2006.

"M5 is intended to complement our QuickBird high-resolution imaging business," said Herb Satterlee, President and CEO for DigitalGlobe. "Because of M5's ability to collect images over a wide area at very frequent intervals, in addition to providing highly calibrated images with numerous spectral bands, we will be able to offer even more imaging choices to our world-wide customers."

The M5 constellation consists of four satellites, each of

which will collect five-meter resolution multispectral data over a 185 kilometre-wide area. Images will provide visible, near-infrared and short wave-infrared spectral ranges. The first M5 satellite is scheduled to be operational in the first quarter of 2006, and all four by the third quarter of 2007.

The full M5 system will collect images of the Earth's land surface plus coastal regions every four days at nadir. Nadir refers to the satellite's ability to collect images by pointing the camera directly over the area to be imaged, ensuring the highest resolution possible. M5's off-nadir pointing capability - collecting images from an angle - will give DigitalGlobe the ability to revisit any point on the Earth's surface multiple times per day. This will be valuable for time-sensitive applications such as natural disaster assessments.

The M5 images will enable DigitalGlobe to further support a number of market areas worldwide for applications such as agricultural assessments, environmental monitoring and disaster management.

[www.digitalglobe.com](http://www.digitalglobe.com)  
(Source: DigitalGlobe)

## ESRI

### November 20th GIS Day 2002

More than eighty countries held GIS Day events during the 3rd annual global GIS Day in 2001. The fourth GIS Day will be held on Wednesday, November 20, 2002 and is part of the National Geographic Society's Geography

Awareness Week. GIS enthusiasts are invited to register and to host an event. Organisations will receive support in promoting their event to local schools, newspapers and other organisations. For event registration, support and ideas, or to find a GIS Day event near you, log on to [www.gisday.com](http://www.gisday.com).

[www.esri.com](http://www.esri.com)  
(Source: ESRI)

## Other News

## EUROGI

### EC Supports 6th GSDI Conference

The European Commission has recently approved a substantial grant to support the sixth Global Spatial Data Infrastructure Conference to be held in Budapest (Hungary) from 16th-19th September. The chosen theme, From global to local, emphasises the extent to which the GSDI should be seen as part of an overall strategy for Geographic Information (GI). The decision to hold this conference in Europe is particularly appropriate at the present time due to the large number of local, national and EU initiatives underway for the modernisation of government and the emphasis currently being given to GI pol-

icy issues in the IST programme. In addition to providing technical and administrative support, the EC grant will facilitate participation from developing countries with a strong track record in this field, in order to maximise the overall impact of the conference.

The 3-day programme contains many sessions that will examine global networking and inter-exchange of critical GI data for sustainable living, building a stronger collective coalition and identifying a common global perspective. Legal and economic issues will be discussed and many countries will share case studies on SDI policy and implementation. There will also be pre-conference workshops in these areas.

[www.eurogi.org](http://www.eurogi.org)  
(Source: EUROGI)

## OEEPE

### OEEPE Organises E-learning Courses

The European Organization for Experimental Photogrammetric Research (OEEPE) is organizing e-learning courses about advanced techniques in photogrammetry, remote sensing and GIS. The first three courses will take place in October and November this year. The courses will be started at an introductory seminar at Aalborg University, Denmark (10-12 October), where a computer conference system and the courseware will be introduced. The two-week distance learning courses will use the Internet together with interactive learning software and other courseware. Communication with researchers of the OEEPE will be part of the courses and the seminar. The first three courses include 'Integrated Sensor Orientation' (21 October-1 November 2002), 'Automatic Orientation of Aerial Images on Databases' (4 November-15 November 2002), and 'Airborne Laserscanning and Interferometric SAR' (18-29 November 2002). The courses will be held by prof. C. Heipke, University Hannover, prof. J. Höhle, University of Aalborg, and prof. K. Tempfli, ITC Enschede.

[www.oeepe.org](http://www.oeepe.org)  
(Source: OEEPE)

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