

Infoterra Application Solutions



**AGRICULTURE & FORESTRY**

**OIL, GAS & MINERAL EXPLORATION**

**TOPOGRAPHIC MAPPING**

**ENVIRONMENTAL PLANNING**

**UTILITIES**

**TELECOMMUNICATIONS**

**DEFENCE & SECURITY**

For further information please contact any of our offices:

**Infoterra Ltd.**  
Delta House,  
Southwood Crescent,  
Southwood, Farnborough,  
Hampshire, GU14 0NL  
United Kingdom.  
T. +44 (0) 1252 362000  
F. +44 (0) 1252 375016  
E. [info@infoterra-global.com](mailto:info@infoterra-global.com)  
[www.infoterra-global.com](http://www.infoterra-global.com)

**Infoterra Ltd.**  
Arthur Street,  
Barwell,  
Leicestershire, LE9 8GZ  
United Kingdom.  
T. +44 (0) 1455 849229  
F. +44 (0) 1455 841785  
E. [info@infoterra-global.com](mailto:info@infoterra-global.com)  
[www.infoterra-global.com](http://www.infoterra-global.com)

**Infoterra GmbH**  
An der Bundesstrasse 31  
88090 Immenstaad/Bodensee  
Deutschland/Germany  
T. +49 (0) 7545 8 9969  
F. +49 (0) 7545 8 5650  
E. [info@infoterra-global.com](mailto:info@infoterra-global.com)  
[www.infoterra-global.com](http://www.infoterra-global.com)

Our client's include:

- AMilGeo, Germany
- Astrium
- BAE SYSTEMS
- BASF
- BP
- British National Space Centre (BNSC)
- Bundesamt für Landestopographie, Switzerland
- DaimlerChrysler
- Defence Evaluation Research Agency (DERA), UK
- Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH
- Deutsche Telekom - T-Mobile
- Deutsches Zentrum für Luft- und Raumfahrt (DLR)
- Environment Agency, UK
- Euro Nature
- European Commission
- European Space Agency (ESA)
- Evans and Sutherland
- ExxonMobil
- Gruppe Rüstung, Switzerland
- Landesvermessungsamt Nordrhein-Westfalen, Germany
- Ministry of Agriculture, Fisheries & Food (MAFF), UK
- Ministry of Forestry, Indonesia
- NTL
- Ordnance Survey (OS), UK
- Shell
- Syngenta
- Velcourt
- Vodafone-Airtouch



**Geo-information Solutions**



## Infoterra - An Introduction

Building on over 20 years of experience in commercial Earth Observation, Infoterra aims to become a world leader in the provision of next generation geographic information products and services.

● **Infoterra has been formed by integrating the 'Earth Observation Services' department of Astrium GmbH, Germany and the National Remote Sensing Centre Ltd. (NRSC Ltd.), UK.**

● **Infoterra acquires and processes all types of airborne and satellite data to generate client specific information products and services worldwide.**

● **Infoterra is comprised of Infoterra Ltd. in the UK and Infoterra GmbH in Germany and has a number of other partners around the world, including joint ventures in the Arabian Gulf and Hungary.**

● **In the future, Infoterra will have access to a new generation of novel satellite data sources, allowing a host of unique, client-targeted information products and services to be delivered.**

Launched in January 2001, Infoterra is a 100% owned subsidiary of Astrium, Europe's leading space company, which is owned by EADS and BAE SYSTEMS.

Infoterra has a 200-strong team of highly skilled staff, including experts in oil, gas and mineral exploration, environmental management, agriculture, forestry, cartography, and telecommunications planning. In addition Infoterra's staff are skilled in the development of systems software specific to the management of geographic data. Infoterra also has direct access to an unrivalled wealth of aerospace knowledge and experience, through its parent company, Astrium.

Infoterra's philosophy is to deliver total information-solutions worldwide, addressing client needs both today and in the future. To achieve this, Infoterra is driving the requirements of a new generation of radar satellites, TerraSAR.

These satellites will provide high-resolution global data independent of weather conditions and daylight. TerraSAR data, in conjunction with other sources of data, will be used by Infoterra to produce a new generation of timely and reliable client specific information products.

Infoterra is investing heavily in innovative research, development and product generation, to ensure that we are always at the forefront of the geo-information industry. Infoterra's research scientists, in conjunction with colleagues in Universities and Institutes around the world, are focussed on developing new high information products from the latest airborne and spaceborne technologies. In addition, Infoterra is keen to develop further strategic partnerships in order to broaden its product portfolio, to meet all the information needs of an ever developing market place.

Infoterra - delivering tomorrow's geo-information solutions today.

# Infoterra

tomorrow's  
geo-information  
solutions  
today

## Infoterra Application Solutions

Infoterra provides a wide range of services to meet the needs of the following markets:

**Agriculture & Agribusiness** - farm management support including, crop variability mapping and crop identification, inventory and monitoring services for public organisations.

**Forestry** - forest inventories and assessment, regular monitoring and updating, for both public and private clients, in order to meet information demands of forest management planning and certification.

**Oil, Gas & Mineral Exploration** - onshore exploration structural mapping, mineralogical surveys, core logging, spectrometry and fracture analysis. Offshore oil seep studies, gravity and magnetic data interpretation and basin evaluation. Environmental audits and monitoring of exploration and mining activity.

**Topographic & Cadastral Mapping** - infrastructure mapping, road and transport planning, urban and landscape 3-D modelling.

**Utilities** - road and rail route planning and corridor monitoring. Pipeline route planning, leak detection and encroachment surveys. Quarrying and landfill modelling and monitoring.

**Telecommunications** - terrain, landcover and demographic data for network design and planning, base station siting, 3-D digital mapping for radio propagation modelling, macrocell and microcell planning.

**Defence & Security** - provision of geo-imagery information products, systems, services and training to the 'Intelligence Surveillance Target Acquisition Reconnaissance' (ISTAR) defence market worldwide.

**Insurance & Disaster Management** - detailed terrain mapping for flood risk and flood damage analysis, landslide hazard assessment and modelling. Subsidence mapping and monitoring. Fire risk and burnt vegetation area mapping.

**Environmental & Urban Planning** - landcover and landuse information, time series analysis of environmental and urban change, to satisfy regional, national or international legislation.

## Infoterra Product Solutions

With our in depth knowledge of geo-information markets, we have designed a series of products in order to provide 'off-the-shelf' information solutions for key applications. Currently our product portfolio includes:

**Agro-Serve®** - products for the agriculture industry, including: site specific variability, soil surface water, crop vigour and vegetation development information.

**MAPS®** - a 'Map Accurate Photographic Survey' of the UK, using 1:10,000 scale colour aerial photography, scanned and orthorectified for viewing at scales up to 1:2,500.

**Mapping Products** - a wide range of mapping products specifically addressing the needs of the telecommunications and utilities markets, including : 3-D cities, high resolution digital elevation models (laserscanner derived) and country wide landuse mapping. See our online geo-information store, [www.geostore.com](http://www.geostore.com) for the latest mapping products and up-to-date geographic coverage.

**Global Seeps** - a product for the oil exploration industry, providing seepage and related information for early basin evaluation.

**Hot Property** - an airborne thermal survey product for the detection of relative heat-loss from the urban environment.

Infoterra's product portfolio continues to grow. We are committed to expanding both the number of products offered and their geographic coverage, in order to meet the worldwide demand for immediate geo-information solutions.

## Infoterra Specialist Services and Consultancy

**Data acquisition** - Infoterra can acquire client specific data from all of the commercially operated satellite systems, or alternatively using our own in-house survey aircraft and sensors. Airborne sensors operated by Infoterra include: laserscanner; thermal infrared; and hyperspectral sensors; Synthetic Aperture Radar (SAR) and Forward Motion Compensated (FMC) aerial survey cameras and lightweight digital camera systems.

**Software solutions** - design and implementation of client tailored systems and software, as well as the provision of commercially available solutions.

**Operational facilities** - Infoterra can operate, on a client's behalf, small EO application systems through to large international ground segments, services include day-to-day reception of raw and auxiliary satellite data, product generation, integration, archiving and delivery of products on-line or off-line. Infoterra has significant experience of developing and delivering such complex systems.

**Consultancy, market studies and training** - Infoterra's highly skilled staff are able to undertake consultancy and market studies, relating to the use of geo-spatial data and software. Infoterra's staff can also provide client orientated training on a wide range of industry standard software and the use of geo-spatial data.

**Geospatial data management** - design and implementation of Internet accessible catalogues, archives and search systems. 'Geo-data Health Check', is Infoterra's on-site appraisal service to investigate client use and management of geo-spatial data archives, in order to recommend methods to optimise data access, usage and management. The aim is to ensure that client's valuable in-house data resources are used to their full potential, to maximise data investment returns.