

# FUGRO EARTHDATA GLOBAL GEOSPATIAL SERVICES

for the  
geo-intelligence  
community



## FAST FACTS ABOUT FUGRO

### Unique mission

Fugro maps the world, collecting and interpreting data related to the earth's surface and substructure, both on land and offshore.

### Global company

Fugro employs 13,000+ professionals working in more than 60 countries; in 2008, Fugro performed \$3 billion worth of services for public- and private-sector clients worldwide.

### Land, sea, air operations

Fugro owns more than 50 vessels, 50 aircraft, 100 remotely operated vehicles (ROVs), 4 autonomous underwater vehicles, and advanced satellite positioning systems.

### Comprehensive geospatial services

Fugro's commercial geospatial services include airborne and satellite imaging, terrain mapping, land-based surveying, and hydrographic mapping, each year producing hundreds of thousands of square kilometers of land-based and marine data.

### Cutting-edge technology

Fugro owns and operates GeoSAR, the world's only dual-band, single-pass airborne IFSAR mapping system. Other state-of-the-art airborne mapping technology includes bathymetric LiDAR systems and a new high resolution panoramic digital camera with oblique imaging capability.

### Extensive geodetic capabilities

Fugro provides a broad range of geodetic and geophysical surveying services, including helicopter- and fixed wing aeromagnetic and gravity surveys.

### Precision positioning

Fugro maintains a worldwide infrastructure for augmentation of existing Global Navigation Satellite Systems (GNSS).

### Metocean forecasting

Fugro provides global onshore and offshore meteorological and oceanographic monitoring and forecasting services.

### Client-owned data

Fugro works on a fee-for-services basis and does not license data. As such, customers own all delivered data without restrictions on use or distribution.

### Secure facilities

Fugro manages multiple secure facilities, including Fugro EarthData's 3,000 square foot U.S. DoD-cleared production space, designed to allow surge capacity.

### ISO9001:2000 quality management

Every aspect of Fugro EarthData's operations follow ISO9001:2000 certified quality system mandates.

## COMMERCIAL SERVICES

### Airborne Imaging

License-free orthoimagery, true orthoimagery, planimetric mapping, and image classification. Capabilities include:

- Electro-optical (multispectral)
- Oblique imagery
- Dual-band IFSAR
- Hyperspectral
- Thermal

### Terrain Mapping

Large- and small-scale topographic mapping, terrain and elevation modeling, contours, land-use/land-cover mapping, ground stability analysis, subsidence analysis and monitoring. Capabilities include:

- Digital photogrammetry
- Airborne LiDAR
- Airborne IFSAR (GeoSAR)
- Satellite differential InSAR (DifSAR)
- Satellite persistent scatterer InSAR (PSI)
- Conventional and GPS land surveys
- Terrestrial laser scanning

### Hydrographic Surveying

Seabed imaging and characterization, hydrographic charting. Capabilities include:

- Near-shore LiDAR bathymetry
- Single- and multi-beam echosounding
- Remotely operated vehicles (ROV)
- Autonomous underwater vehicles (AUVs)

### Geodesy and Geophysics

Airborne, terrestrial, and offshore geophysical surveying for subsurface geological mapping and geodetics. Capabilities include:

- Airborne gravity and electro-magnetics (multiple platforms, including UAVs)
- Gamma-ray spectrometry
- Onshore and offshore seismic data acquisition and processing

### Precise Positioning

24-hour per day, year-round global differential GPS. Capabilities include:

- Differential positioning and hardware with sub-meter accuracy (OmniSTAR VBS)
- Receiver independent differential positioning with centimeter accuracy (OmniSTAR XP)
- Receiver independent differential positioning with decimeter accuracy (OmniSTAR HP)

## EXPERIENCE

### U.S. Government Clients

National Geospatial-Intelligence Agency (NGA)  
National Guard Bureau (NGB)  
U.S. Air Force (USAF)  
U.S. Army Corps of Engineers (USACE)  
U.S. Army Topographic Engineering Center (TEC)  
U.S. Department of Homeland Security (DHS)  
U.S. Geological Survey (USGS)  
U.S. Navy (USN)  
Federal Emergency Management Agency (FEMA)

National Oceanic and Atmospheric Administration (NOAA)  
National Park Service (NPS)  
Tennessee Valley Authority (TVA)  
Bureau of the Census (BOC)  
U.S. Department of Agriculture (USDA)  
Bureau of Reclamation (BOR)  
Bureau of Land Management (BLM)

### International Clients

Fugro has successfully completed hundreds of geospatial projects for national governments and private sector firms in more than 30 countries worldwide, including in North and South America, Europe, Africa, the Middle-East, South East Asia, China, and Australia.

### Contract Vehicles

GSA Schedule 899  
NGA GGI (subcontractor)  
NGA GGI Niche  
NGA Next View (subcontractor)  
USACE, St. Louis District  
USACE, Mobile District

NOAA Coastal Services Center  
USACE, Little Rock District (subcontractor)  
USGS Geospatial Products & Services Contract (subcontractor)

### Specialized Products

DICM/ICM (digital image city map)  
DOQQ (digital ortho quarter quadrangle)  
DTED 2 (digital terrain elevation data level)  
HRTe-3 (high resolution terrain elevation)  
ERS (engineering route studies)

FD (feature data)  
UFD (urban feature data)  
JOG (joint operations graphic)  
TLM (topographic line map)  
VITD/ITD (vector interim terrain data)  
Rapid Response

## GLOBAL REACH

With offices in 60 countries our global resources include more than 50 vessels, 50 aircraft, 100 remotely operated vehicles (ROVs), 4 autonomous underwater vehicles, and advanced satellite positioning systems.





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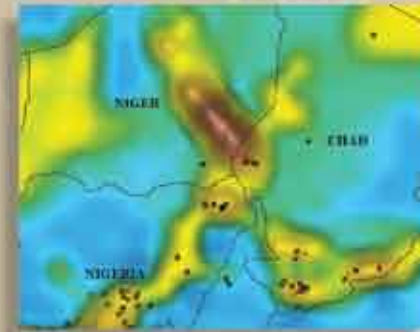
With state-of-the-art assets stationed on five continents, Fugro offers the defense and intelligence community comprehensive data acquisition, processing, interpretation, and visualization capabilities for projects located anywhere in the world. Whether your needs are for littoral mapping, terrain analysis, or change detection, Fugro has the technology, experience, and global resources to deliver mission critical information on time and to specification.

**No other company**  
 in the world can offer the same  
**comprehensive range**  
 of **geospatial solutions.**

**MILITARY MAPPING**



**TERRAIN ANALYSIS AND CHARACTERIZATION**

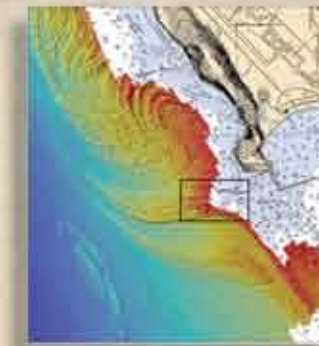


**GEODETIC SURVEYING**

**URBAN VISUALIZATION**



**LITTORAL MAPPING**



**DISASTER RESPONSE AND RECOVERY**



**AIRBORNE DATA COLLECTION**

