



Advancing Defence with Precision Terrain Data

From **DEFENCE** infrastructure planning and security assessments to operational planning and real-time **BATTLEFIELD** mapping, our geospatial solutions ensure military **FORCES** are well-equipped to respond to evolving **THREATS** and conditions.

Geospatial data is fundamental to modern military and defence operations. Accurate, real-time terrain analysis and environmental understanding are crucial for mission planning and operational success. Our advanced geospatial products offer the intelligence needed to make informed decisions in tactical contexts.



Our Geospatial **Solutions**

Digital Elevation Models (DEMs)

Accurate SRTM and ALOS DSM data help assess terrain, providing essential information for mission planning and route optimisation.

Slope and Terrain Analysis (SLOPE, HAND, TWI)

Our Slope and Height Above Nearest Drainage models help identify strategic high ground, assess the risk of floods, and determine the suitability of terrain for vehicular movement or air operations.

Additionally, the Topographic Wetness Index aids in identifying areas prone to water accumulation.

Rivers and Water Bodies

Critical for operations involving water crossings, accurate water body mapping aids in planning and monitoring potential strategic routes.

Urban and Infrastructure Mapping

Majority Soil Type and Land Capability datasets provide valuable information about soil stability and infrastructure support.

Real-Time Flood Risk Data (FHI, HAND)

Accurate Flood Hazard Index and HAND models can support military planning in flood-prone areas when extreme weather events occur.

Relief and Elevation Models

High-resolution models help assess the suitability of terrain for military operations. These models are essential for evaluating new territories.

Mapping of Strategic Assets

Mapping terrain suitability can support planning, sustainability, and defensive positioning, ensuring the protection of local resources.

Environmental Risk Data (SAGA Derivatives)

Advanced SAGA tools can predict environmental risks like wildfires or mudslides, helping planners with the mitigation of operational threats.



Key **Benefits**

Strategic and Tactical Advantages

Our geospatial data enables military forces to understand the terrain and environment in detail. This provides a tactical advantage in the field.

Enhanced Decision-Making

High-resolution environmental data, including flood risk, slope analysis, and water body proximity, allows for more informed decision-making.

Operational Efficiency

With detailed elevation and slope analysis, military units can optimize routes, avoid natural obstacles, and plan for quick deployment or retreat.

Improved Resource Management

Accurate data on land capability helps planners make informed decisions about resource management during deployments.

Disaster and Crisis Response

Our geospatial products support military operations in crisis situations. Quickly assess affected areas to enable rapid coordination.

Infrastructure and Logistics Support

Identify optimal locations for constructing infrastructure and assess the sustainability of these structures in the face of enemy attacks.

Surveillance and Monitoring

Enhance surveillance capabilities by using satellite-derived data (SRTM, ALOS DSM). These models help establish defensive perimeters.

Key **Applications**



Military Operations Planning

Models help to map escape routes, identify high ground, and improve mobility on difficult terrain.

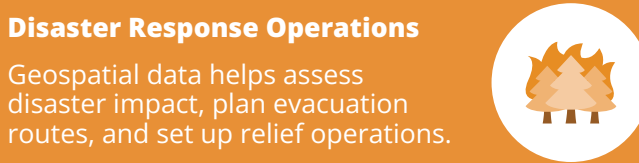
Infrastructure Development

Our data aids in planning the construction of military facilities, like bases, airstrips, or supply routes.



Border Security and Surveillance

High-resolution data on rivers and wetlands helps monitor borders and other sensitive areas.



Disaster Response Operations

Geospatial data helps assess disaster impact, plan evacuation routes, and set up relief operations.



Environmental Protection

Our products support efforts to minimize the ecological footprint of military activities.



Fire and Flood Risk Management

Develop preventative strategies for protecting troops and assets with our predictive hazard models.

Take Action

Equip your military and defence operations with the power of advanced geospatial data to gain a strategic advantage. With high-resolution terrain analysis, flood and fire risk mapping, infrastructure planning tools, and environmental monitoring, our solutions provide the precision and clarity necessary to succeed in defence missions.

Empower your operations, ensure better resource allocation, and enhance mission success with our cutting-edge geospatial intelligence.

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