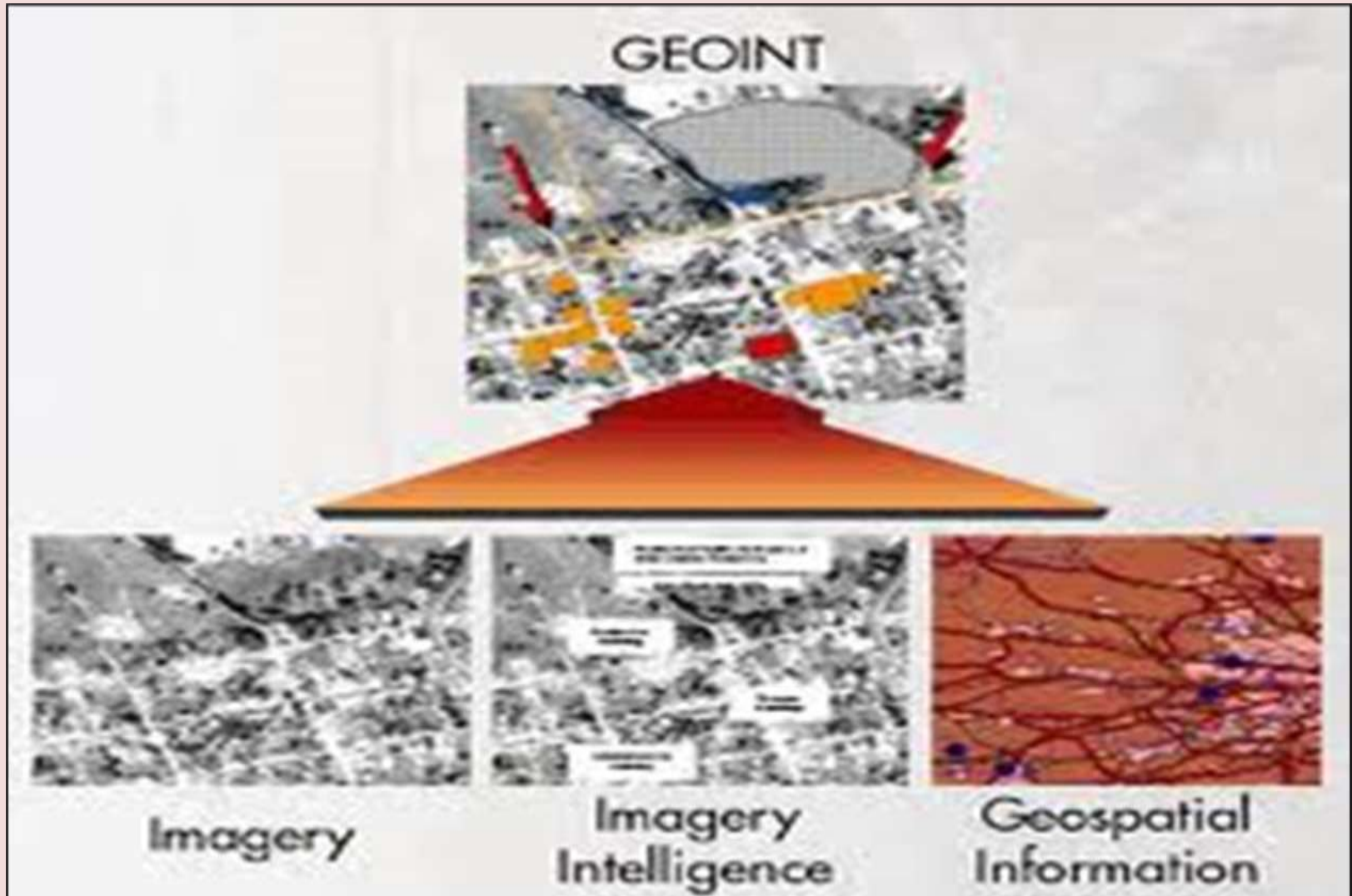


GEO-INTELLIGENCE

- Fusion of imagery, geospatial data, and intelligence for operational decision-making.
- Enhances situational awareness across various terrain profiles.
- Identifies enemy assets: runways, vehicle sheds, ammo depots, radars, logistics nodes.
- Provides terrain intelligence: elevation, slope, LOS, mobility corridors.
- Supports AI/ML-driven change detection for adversary mobilisation monitoring.
- Acts as a force multiplier for precision targeting and mission planning.
- Integration of imagery, geospatial data, multi-source intelligence
- Core for modern mission planning

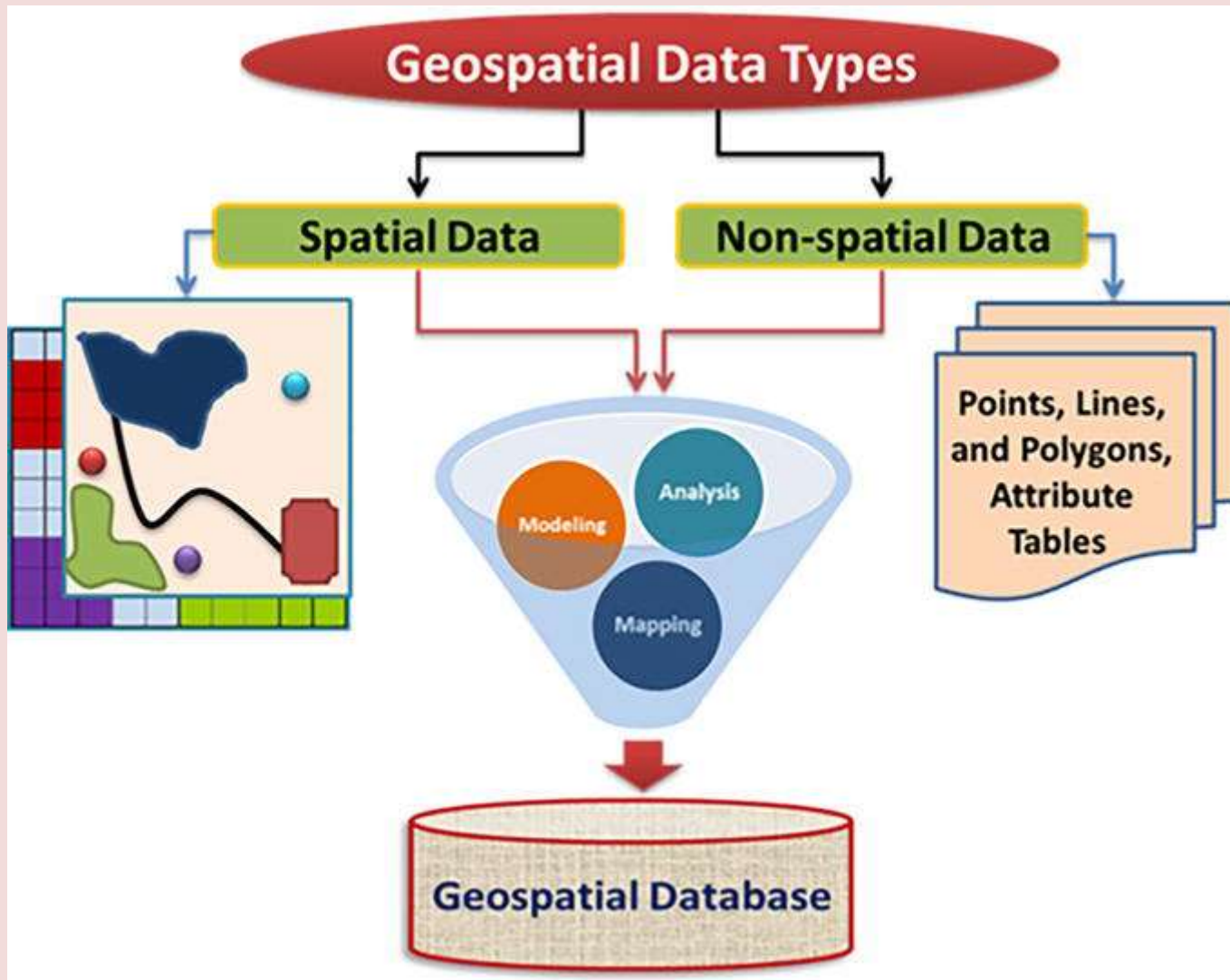
GEO-INTELLIGENCE



SPATIAL DATA

- **Vector Data: Points, Lines, Polygons**
- **Raster Data: Satellite imagery, SAR, DEMs**
- **Used in navigation, targeting, terrain modelling**
- **Characteristics:-**
 - **Location: GPS, WGS-84, MGRS**
 - **Attributes: Terrain type, structure details**
 - **Spatial Relationships: Distance, visibility, connectivity**

GEO- SPATIAL DATABASE



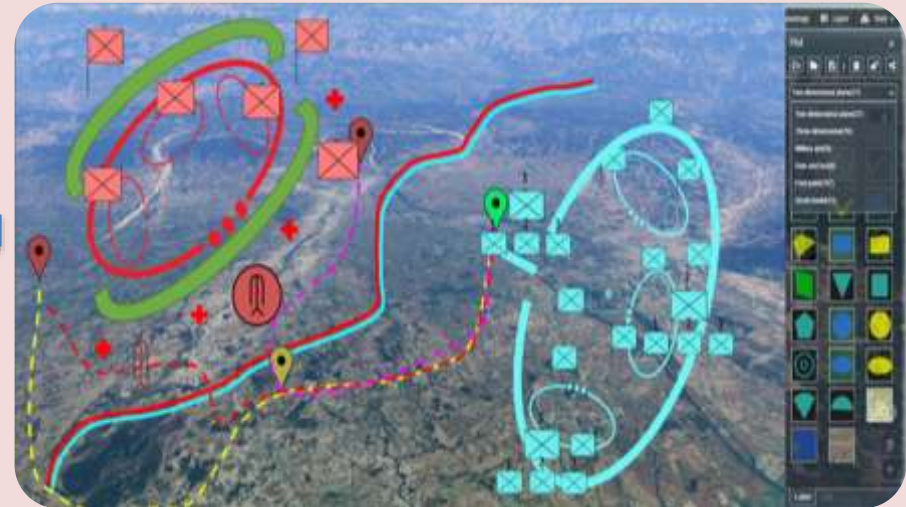
CORE COMPONENTS-GEO-INTELLIGENCE

- **Imagery Intelligence (IMINT)**
- **Geospatial Information (DEM, terrain, maps)**
- **Data Fusion (SIGINT, HUMINT, OSINT)**
- **AI/ML Analytics (Detection, Change Analysis)**

MISSION PLANNING

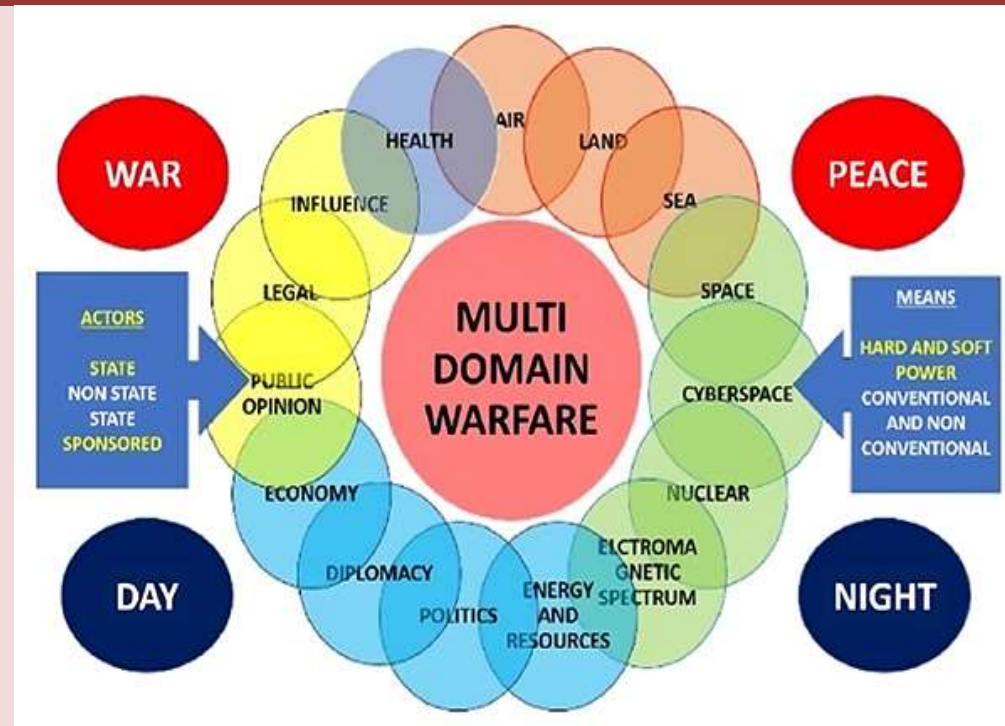
- **Structured Process Of Analysing Terrain, Intelligence, Logistics, And Operational Objectives.**
- **Operational Assessment: Terrain, Weather, Threat Posture.**
- **Intelligence Preparation: GEOINT, HUMINT, SIGINT Fused To Assess Enemy Capabilities & CsOA.**
- **Force Allocation: Assigning Infantry, Armour, Artillery, Engineers, Sf, And Aviation Roles.**
- **Logistics Planning: Ammunition, Fuel, Medical Support, High-altitude Sustainment & Mobility.**
- **Fire & Air Support: Artillery Fire Plans, UAV Integration, And Helicopter Support.**
- **Rehearsals & Briefings: Sand Models, Digital Overlays, Contingency Planning.**

MISSION PLANNING



IMPORTANCE IN MODERN WARFARE

CONVENTIONAL OPERATIONS

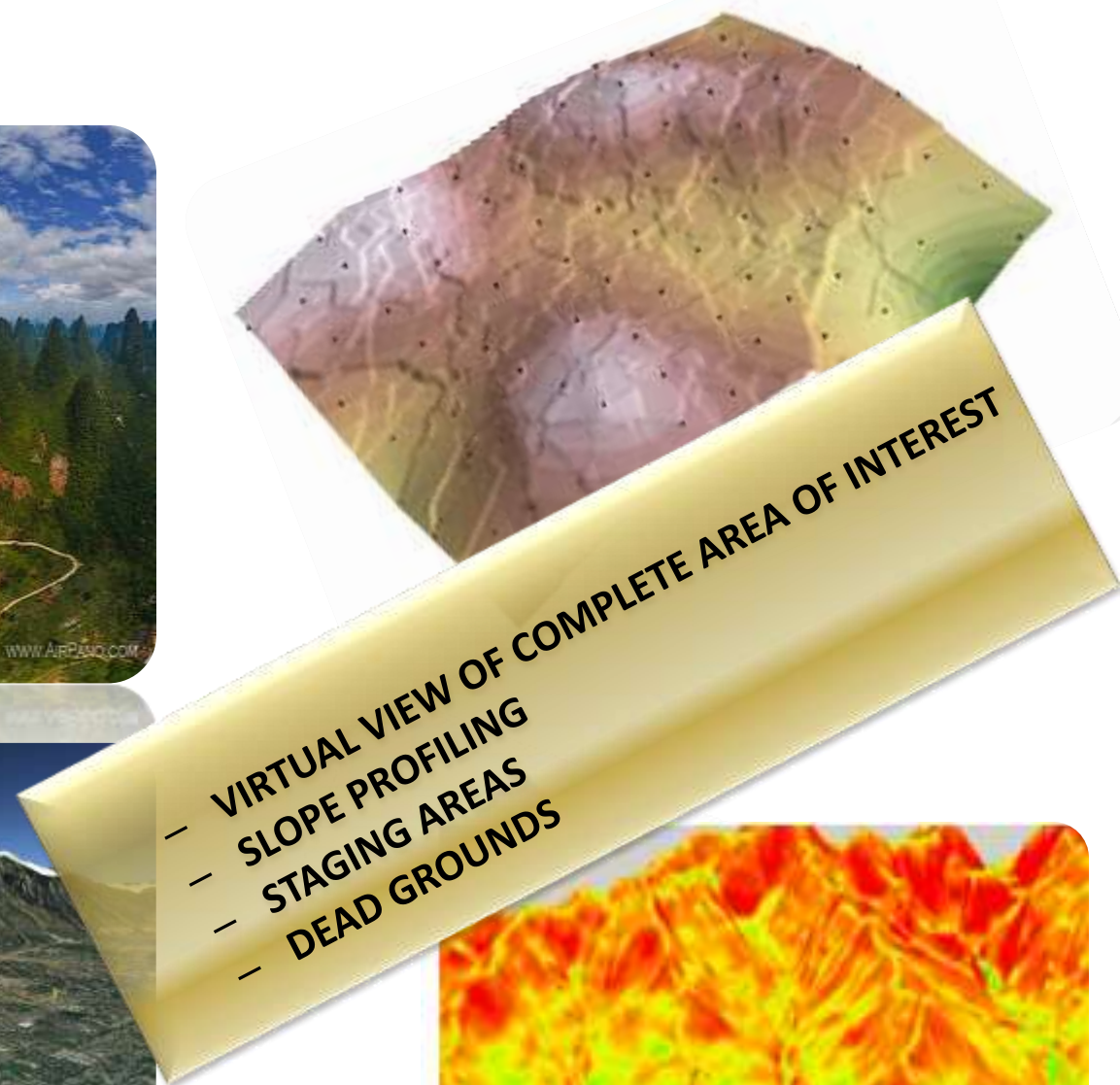


- Provides real-time situational awareness
- Enables precision targeting
- Supports multi-domain operations
- Minimises risk & collateral damage

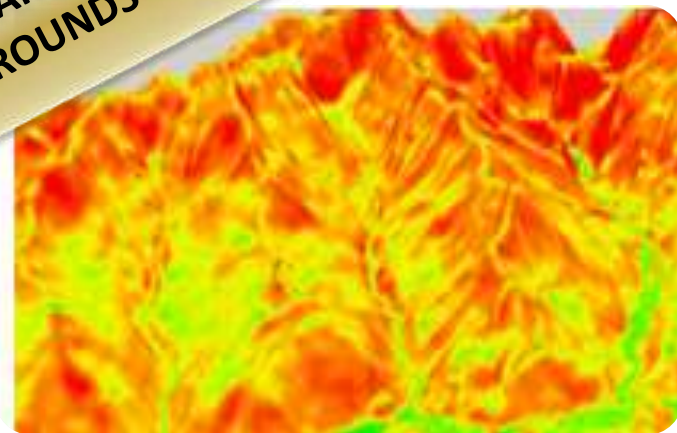
PROPOSED APPLICATION

- TERRAIN & MISSION BASED GEODATA SETS
- INTELLIGENT DATASETS
- CREATION OF POOL OF ALL SOURCE ANALYST
- AUTOMATED CHANGE DETECTION
- IMAGE FUSION TECHNIQUES
- MISSION SPECIFIC IMAGERY ACQUISITION
 - MICROWAVE / HYSPECTRAL / EO...

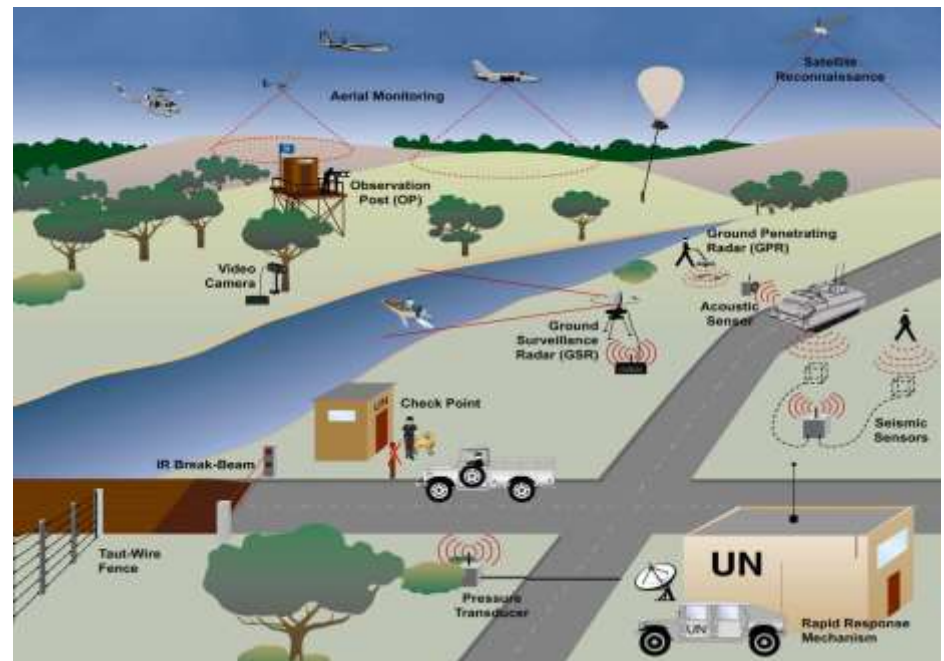
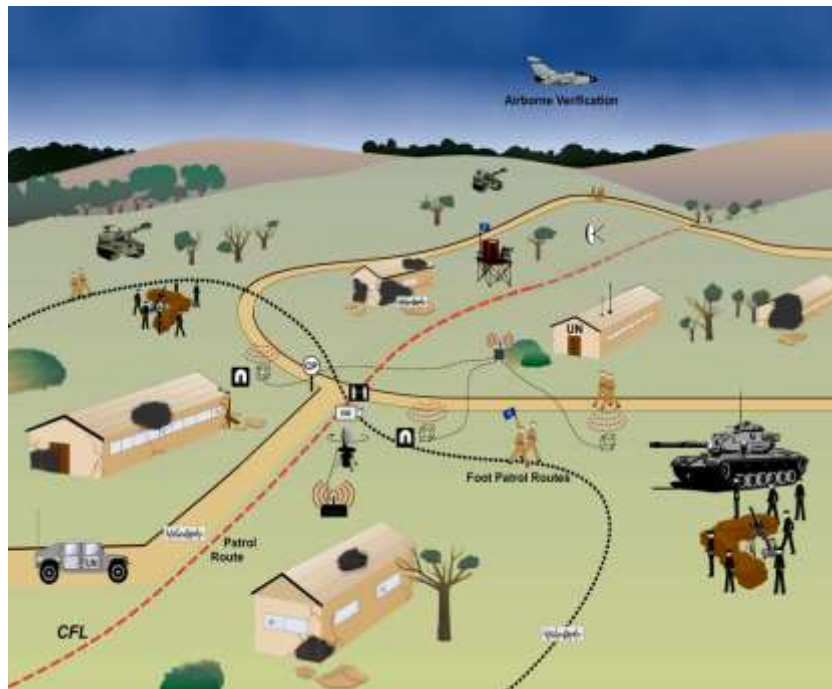
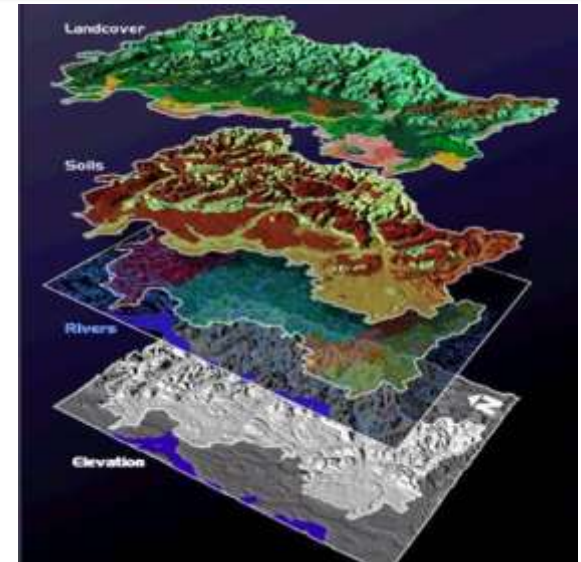
MISSION OREINTED DATA SET



- VIRTUAL VIEW OF COMPLETE AREA OF INTEREST
- SLOPE PROFILING
- STAGING AREAS
- DEAD GROUNDS



INTELLIGENT DATA SETS



GEO-SPATIAL INT FOR WHICH MISSIONS

IMPORTANT ASPECTS

- **DECLUTTER- FOCUS**
- **COMMON PLATFORM**
- **ABSORPTION**
- **TARGET PROFILING**
- **INTELLIGENT DATASETS**

CAPABILITY DEVELOPMENT?

GEO SMART BANEGA INDIA – JITEGA INDIA

THANK YOU

