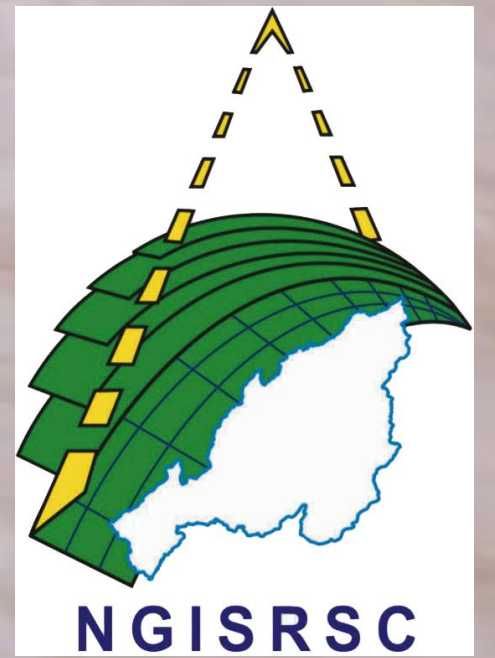# REAL WORLD TERRAIN MODELING
NAGALAND GIS & REMOTE SENSING CENTRE

N G I S R S C

The State GIS & Remote Sensing Centre presents a State-of-the-Art Technology of Real World Terrain Modeling (RWTM) in precise scale with high accuracy, natural full colour, pre-laminated 3D solid models of geographic terrain. RWTM models are physical models that could be touch and view from any angle allowing depth perception in detail enabling deeper understanding of our world. RWTM is build to incorporate GIS layer to be overlay to stage simulation of data onto the surface of the model. This unique capability provides a real-time, interactive 3D situational awareness tool for both individual and group of users. RWTM also provides R&D engineering services for the creation of new geo-spatial visualization technologies.

REAL WORLD TERRAIN MODELING OVERVIEW

- ❑ The model of RWTM provides a precise, realistic depiction of the terrain of any location, at any scale with the following outline:
- ❑ Complete information of terrain that can be perceived regardless of any domain knowledge or requirement of expertise in relevant field.
- ❑ Provides a powerful visual communication tool for all Planning.
- ❑ Creates situational awareness of the geography and assist in performing analysis.
- ❑ A platform that could be used to provide critical information during presentations and briefings.
- ❑ Terrain Model gives the impression of flying over the landscape and an unparalleled understanding of the area of interest.

OUR REQUIREMENTS
DEM
DEM should be supplied to us either Erdas Imagine (.IMG), GeoTIFF (.TIF or .TIF/.TFW.) *The projection information of the DEM is also required.*
Vertical Exaggeration
If vertical scale exaggeration is needed to be done in the terrain model by modifying of vertical scale, this has to be informed for necessary guidance.
Image Requirements
The image that is to be applied to the model surface can be of any type: satellite, aerial, illustrations, graphs or any combination of these, thus allowing for the display of a wide range of information. When supplying image files that consist of a combination of different types of data, for example a TIFF satellite image and Vector overlays, please provide these as separate registered layers or files.
Additional Decisive Offer
In the event of new development of Real World Terrain Model, our centre is equipped with UAV capabilities and can offer any organization a service for acquiring Aerial 3D stereo image. Our scientist will generate DEM with the stereo pair for developing the model and overlay the image captured in the model.

USES OF REAL WORLD TERRAIN MODEL
- ❑ State & Town Planning
- ❑ Emergency Operation & Planning
- ❑ Police Security & Planning
- ❑ Tactical security Planning for law enforcing agencies
- ❑ Natural Disaster measure Planning
- ❑ Forest Fire, Rescue & Control
- ❑ Infrastructure Developmental Plan & Activities
- ❑ Simulation of process for Analysis Support

Real World Terrain Model will be milled in high density thermocol for producing a really solid terrain model, created by using Stereo satellite imagery, 3D aerial photography, or contour. The model is suited both for small and large areas depending on the needs of the users. We have ready access to a variety of data like political boundaries, rivers and streams, roads, watershed boundaries and can add text attributes for all of these.

OUR REAL WORLD TERRAIN MODEL
Made with the finest in craftsmanship and quality, Real World Terrain Models offer important advantages for government planners:
- •**Lightweight:** Models can be easily transported anywhere
- •**Durable:** The models are very durable, laminated finish for long-lasting
- •**Easy to clean:** The models are easily cleaned with water or a wet cloth

HOW TO ORDER
Ordering a Real World Terrain Model can be done through the following steps:
1. What area would like modeled.
The geographic area or the AOI (Area of Interest). This can be done by:
   - ❑ Specify opposing corner map coordinates like this: NW and SE (Lat/Lon, UTM, etc).
   - ❑ Name of place, city, town, park name, etc.
   - ❑ Indicating a river, street intersections, or any other landmark.
   - ❑ Drawing a map around the area of interest.
1. What size you would like your model. The dimensions of the model to be –width and height.
2. What other data to be incorporated to the model – cities, roads, rails, airport, tourist point, any other point of interest, etc.
3. We provide a formal quote for your model.