

CASE STUDY

Project: Preparation of Topographic Maps
Customer: A leading research organization, Europe

Requirement

The customer, a prestigious technical research institute required AABSyS to prepare digital topographic maps of two districts in Romania. The company required AABSyS to use digital geographic information of the region to create 3D models and analysis of effects of earthquakes and other influences on the region.

The customer possessed satellite images of adjacent land areas in 1:30,000 scale and in TIFF format.



Solution Offered

- The satellite images of adjacent land areas (Scale: 1:30,000) were merged, grey scale adjusted and different land cover types were classified.
- The team at AABSyS created an ortho-photo (composite image) from four satellite images (in TIFF format). The four images were merged with a minimum loss of contrast, the grey scale was adjusted and minor mismatches at the edges were fine-tuned. The same gray scale was maintained across the composite image so that different land types such as forest, agriculture, urban are easily distinguishable.
- Different land cover types were classified such as forests, urban and rural settlements, highways, main roads, side roads, buildings, rivers, trenches, railway tracks, TV towers, windmills, electric lines, trees, parks, fields, cultivated lands.
- Different land classifications were shown as area objects in different polygons. The work was performed using ERDAS Imagery software.
- The ortho-photo image was delivered in TIFF format, and the vectorized land classification file was delivered in ArcView SHP format and AutoCAD DXF format

Technology Used

- The team used Heads up digitization conversion method.
- The technique used to create the ortho-photo was- Ortho-photo Preparation using ERDAS Imagery Digitization on Raster image
- AABSyS is equipped with the right software for the creation of contours and terrain models from the contours.
- The team at AABSyS used high end, up-to dated software such as AutoCAD, ArcFM, and ERDAS Imagine etc. to complete the given task.
- AABSyS was in continuous correspondence with the clients in order to solve any queries.

Customer Advantage

- AABSyS has been providing map data services to clients worldwide for the past several years
- The client, a prestigious technical research institute used the ortho-photo provided by AABSyS in making informed decisions about the concerned area of land
- The client appreciated the work done by AABSyS as the deliverables were provided in a time bound, cost effective manner
- An extensive quality assurance procedure ensured the smooth delivery of perfect digital maps