



**Common Strategy for sustainable territorial development of the cross-border area RO-BG Project MIS ETC CODE 171**

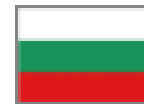
**MIS-ETC-CODE171 PROJECT – Common Strategy for Sustainable Territorial Development of the cross-border area Romania-Bulgaria (MIS-ETC code 171)**



**REQUIREMENTS FOR GIS/OBIA SOFTWARE**

GIS and Object Based Image Analyses software should have minimum technical characteristics as follows:

<p><b>1.</b></p>	<p><b>Data Management</b></p>	<ul style="list-style-type: none"> <li>• Visualize and explore spatial (vector and raster) and non spatial (tables) data;</li> <li>• Functionality to combine different data formats in common environment, at least shapefile, geodatabase, CAD data, ERDAS IMAGINE, ESRI GRID, MrSID;</li> <li>• Functionality to find objects and identify their characteristics/attribures;</li> <li>• Perform image segmentation using at least the Quadtree, Multiresolution, Merge Objects methods;</li> <li>• Perform image classification using at least Optimal Box Classifier, Clutterremoval, Nearest Neighbor, Brightness Threshold methods;</li> <li>• Building and maintaining Image Objects, and their hierarchy and Domain;</li> <li>• Working with sub-objects;</li> <li>• Creating and editing processes and commands in process tree window</li> </ul>
------------------	-------------------------------	--



**Common Strategy for sustainable territorial development of the cross-border area RO-BG Project MIS ETC CODE 171**

<p><b>3.</b></p>	<p><b>Geographic Analysis</b></p>	<ul style="list-style-type: none"> <li>• Perform different kinds of attribute queries and spatial data selection;</li> <li>• Functionality for map algebra and raster reclassification;</li> <li>• Automatic Data analyses;</li> <li>• Batch processing;</li> <li>• Extracting Image analyses results based on OBIA algorithm: image segmentation, editing image object levels, comparing image objects using image object table;</li> <li>• Perform Image Classification on segmented image and deriving statistic results;</li> <li>• Perform advanced rule set management: variables, scale, image objects and their relations;</li> <li>• Develop customized algorithms.</li> </ul>
	<p><b>Creating Maps</b></p>	<ul style="list-style-type: none"> <li>• Adding a Map to a Project to Create Multi-Project Maps;</li> <li>• Copying a Map for Multi-Scale Analysis;</li> <li>• Editing Map Properties;</li> <li>• Synchronizing Maps, Saving and Deleting Maps</li> <li>• Working with Multiple Maps;</li> <li>• Generating graphs and reports features;</li> <li>• Export maps to different formats, including .pdf, .emf, .ai, .bmp, jpeg, .png, .tiff, .gif.</li> </ul>

*Note: The draft “Requirements for GIS/OBIA Software” of the CBC Project “Common Strategy for Sustainable Territorial Development of the cross-border area Romania-*



**Common Strategy for sustainable territorial development of the cross-border area RO-BG Project MIS ETC CODE 171**

*Bulgaria” MIS-ETC code: 171” is developed by the Agency for Sustainable Development and Eurointegration –ECOREGIONS (ASDE) – Project Partner 9, under the Work Package 3;*