



The use of digital orthophotomaps at the realization of spatial database for the land-soil cartographic units

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By using photogrammetric technologies that provide digital photographic image processing, one has moved to the realization of the spatial database in digital format. In this context, for the 2003-2007 period, it is highlighted the drawing and editing of the orthophotomaps at the scale 1:10000 for all the basic administrative units of territory from Romania, with the main user, the Agency for Payments and Intervention in Agriculture. To integrate the existing spatial database for Bilca cadastral territory from Suceava County there were used the orthophotomaps in digital and analog format at scale 1:10000, and respectively, the maps of the land-soil cartographic units elaborated based on the pedological mapping studies at the same scale. On the digital orthophotomap that comprises geospatial information from the 189 agricultural physical blocks, occupying an area of 1 853.31 hectares, the three spatial layers / entities of the map of the soils were overlapped. For this purpose were used graphic information of the 24 land-soil cartographic units, ecologically homogeneous, identified for an agricultural area of 1358.14ha. By achieving the spatial database were ensured the validation, and the access to information for each cadastral plot, as a component of a physical block, with regard to the size of areas occupied by the land-soil cartographic units, the field grade, the favorability and the suitability of agricultural land.