

THE MANAGEMENT OF THE AGRICULTURAL INFORMATION SYSTEM "SHOCKS" THE CONVENTIONAL AGRICULTURE

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Abstract

The using of remote sensing became, in the last few years, something usual and it isn't considered a new technology anymore. We started from the desire to contribute, using modern methods, to the development of the oldest branch of the world's economy. We studied some ways of evaluating the crops at a certain point in time through remote sensing methods, putting an accent on discovering the origin and the justification of the occurring problems. We analyzed satellite imagery of some areas of the studied farm during a whole year and we generated a database containing correlations between the health of the crop fields for specific plants and the spectral response recorded in the satellite multi-band image. In the following year the crops would be evaluated only by studying the current satellite images. The result would be the creation of an Agricultural Geographic Information System. We used the same projection system throughout the study - Stereographical 1970, fact that allows the rapid localization in the crop fields of the areas in the analyzed satellite image.

Key words: remote sensing, precision agriculture, agricultural GIS, projection system
