

ABSTRACT

Title: “The Application of GIS in Nature Conservation“

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The PhD thesis is aimed at reviewing the decade problem of conservation data collection, data register, data systematize, data display and map data service in the case of the development of the Hungarian Nature Conservation Information System (NCIS). The dissertation describes the representative methods of operating the NCIS (digital vegetation mapping in multiuser geodatabase, data conversion, map services), the literature background of the subject, the GIS basics of the analysis, the 22 most important primary databases, and the details of the implementation as a geospatial application.

The dissertation demonstrates the results of the preparatory work performed in support of system development as a biotic case study on the species preservation plan for the endangered *fen orchid –Liparis loeselii* (L. RICH. 1817.)– species.