

Geo-Spatial Database Design and Implementation at the Mapping Center for Topographic & Spatial Arrangement (PDRTR) of BAKOSURTANAL

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SUMMARY

The concept of geo-spatial database had been developed by Bakosurtanal since 1989. The emphasis is on the user-oriented approach. The management of topographic features requires seamless data rather than conventional flat file or map sheet approach. To implement the concept, Bakosurtanal developed Relational Geo-spatial Database Management System (R-GDMS) by utilizing ORACLE Spatial software. At the first phase, the Geo-spatial Database consisted of highly populous 3D topographic data of West Java area in AutoCAD format at the map scale of 1:25,000. This paper described a general steps required on setting up the R-GDMS, covering the development of data model and structure, topographic feature code, coordinate system, query interface, link between AutoCAD – ORACLE, etc.

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