

## **PERANCANGAN MODEL DATA LOGIKA UNTUK PERENCANAAN REHABILITASI HUTAN DAN LAHAN PADA KAWASAN HUTAN RAKYAT**

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### **INTISARI**

Perencanaan rehabilitasi hutan dan lahan (RHL) meliputi aspek ekologi, aspek teknis, aspek ekonomi dan aspek sosial budaya. Salah satu pendekatan perencanaan RHL adalah CASM (*capability, availability, suitability, manageability*). Data perencanaan RHL di hutan rakyat masih tersimpan dalam bentuk dokumen yang terpisah-pisah dan kurang terorganisir dengan baik. Tujuan dari penelitian ini adalah merancang model data logika yang sederhana dan mudah diakses.

Penelitian dilakukan di Desa Putat Kecamatan Patuk Kabupaten Gunung Kidul. Penyusunan model data logika menggunakan analisis terstruktur. Tahap penelitian terdiri dari tahap studi pustaka, tahap pengumpulan data dan tahap perancangan model data logika.

Rancangan model data logika menunjukkan keteraturan data dan informasi yang mudah diakses oleh semua pihak. Model data logika mampu mengorganisasikan data dari semua entitas dan meminimalisir ketidakkonsistensian data. Model ini berperan penting dalam menyajikan informasi tentang ketersediaan lahan, kepemilikan lahan, karakteristik lahan, berbagai jenis kegiatan RHL, alternatif pola tanam, alternatif konservasi tanah.

Kata kunci: Model Data Logika, Perencanaan RHL, Hutan Rakyat.

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## **DESIGNING LOGICAL DATA MODEL FOR PLANNING OF FOREST AND LAND REHABILITATION IN COMMUNITY FOREST AREA**

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### **ABSTRACT**

Forest and land rehabilitation planning covers various aspect : ecological, technical, economic and social culture. One of the approach of planning is CASM (Capability, Availability, Suitability, Manageability). The available data of community forest is in form of fragmented, disorganized file and document. The aim of this research is to design a simple and accessible logical data model.

Research was conducted in Putat village subdistrict Patuk of Gunung Kidul District. Structural analysis is proposed to arrange logical data model. This research consist of the following step : literature study, collecting data and designing logical data model.

Designed logical data model shows data regularity and accessible information. Logical data model is able to organize data from all entities and to minimized inconsistency data. The model plays the important role to provide the information of land availability, land ownership, characteristics of land, various activities types of forest and land rehabilitation, alternate cropping pattern, soil and water conservation alternatives.

**Keywords :** Logical Data Model, Planning of forest and land rehabilitation,  
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