

## OPTIMIZATION OF URBAN LAND USE IN MEJAYAN URBAN AREA, MADIUN REGENCY

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### **Abstract**

*The development from Kabupaten Madiun to Mejayan requires the availability of the land for the purpose of the urban service. The land which is used today, can't handle the need of the urban service that grows higher and increase concomitant with the role of Mejayan as an urban area. To fulfill the needs of the land, so it is necessary to do the optimization in using the land through the optimal allocation of the land area.*

*This research is aim to get the optimal allocation of land use area by doing three steps. First, identifying land use availability in Mejayan urban area by overlay analyzing. Second, determining the criteria of land use guidelines by Delphi analysis. And the last step is determining the model of land use optimization by Linear Programming.*

*From this research by using Linear Programming, there are five scenarios to handle the land use optimization in Mejayan urban area. From the five scenarios, the third scenario is the most optimal scenario which has the optimal combination of urban land area to be developed with the combination of land use area for housing 2,315,46 hectares, commercial area 990,223 hectares, industrial area 482, hectares, and public facilities is 309,38 hectares*

**Keyword:** *Optimization, Urban Land Use, Linear Programming*

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