

**TRANSFER OF FUNCTION OF AGRICULTURAL LAND TO NON-
AGRICULTURE BASED ON SATELLITE IMAGE INTERPRETATION
IN MUNGKID DISTRICT, MAGELANG REGENCY, CENTRAL JAVA
FROM 2012 TO 2022**

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ABSTRACT

The relatively high population growth in Mungkid District has reduced green open space, encouraged settlement decentralization, and shifted agricultural land. This study aims to make a distribution map of the conversion of agricultural to non-agricultural land from 2012 to 2022 in Mungkid District, to obtain information on changes in agricultural to non-agricultural land use in terms of area and type of land use. This research is descriptive with a quantitative and qualitative approach using survey methods as data in the research process. Land use mapping from 2012 to 2022 was carried out spatially using ArcGIS software sourced from Google Earth satellite imagery. The results of this study produced a map of the distribution of conversion of agricultural to non-agricultural land from 2012 to 2022 which shows changes in the form of land conversion that occurred, namely forest into residential and industrial areas of 12.56 ha and 3.5 ha respectively; paddy fields into residential and industrial areas of 20.63 ha and 38.46 ha; plantations into residential and industrial areas of 5.15 ha and 7.57 ha; dry land into residential and industrial area of 7.60 ha and 1.30 ha.

Keywords: function change, agricultural land, mapping, mungkid