

# **ANALISIS PERUBAHAN PENGGUNAAN LAHAN DI DESA PURWAKERTI KECAMATAN ABANG KABUPATEN KARANGASEM 2015 – 2025**

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## ***ABSTRACT***

This study aims to identify patterns of land use change, analyze factors influencing land use change, and assess the level of land suitability in Purwakerti Village, Abang District, Karangasem Regency, during the 2015–2025 period. Land use change in this area is closely related to the development of the tourism sector, which has driven a shift in land use from agriculture to residential and tourism areas. This study applies a quantitative approach supported by spatial-temporal analysis based on Geographic Information Systems (GIS). Data were obtained through measurement and digitization of Google Earth satellite imagery from 2015, 2020, and 2025, which was then processed quantitatively to determine the extent, percentage, and distribution of land use change. Secondary data from the Central Statistics Agency (BPS) of Karangasem Regency was used to verify and complement the results of the spatial analysis. Land use change shows a linear pattern that follows major transportation routes and coastal areas. Based on the quantitative analysis, factors influencing land use change include population growth, tourism expansion, increasing economic land value, and weak enforcement of spatial planning. Land suitability evaluation shows that some areas of Purwakerti have biophysical limitations such as slope gradient, soil type, and water availability, making them unsuitable for residential areas.

**Keywords:** land use change, quantitative analysis, GIS, spatial-temporal, land suitability, Purwakerti Village.

## ***ABSTRAK***

Penelitian ini bertujuan guna melakukan identifikasi pola perubahan dari penggunaan lahan, menganalisis faktor yang memengaruhi perubahan penggunaan lahan, dan menilai tingkat kesesuaian lahan di Desa Purwakerti, Kecamatan Abang, Kabupaten Karangasem, selama periode 2015–2025. Perubahan penggunaan lahan di daerah ini berkaitan erat dengan perkembangan sektor pariwisata, yang telah mendorong pergeseran fungsi lahan dari pertanian ke kawasan permukiman dan pariwisata. Penelitian ini menerapkan pendekatan secara kuantitatif yang didukung oleh analisis spasial-temporal berbasis Sistem Informasi Geografis (SIG). Data diperoleh melalui pengukuran dan digitalisasi citra satelit Google Earth dari tahun 2015, 2020, dan 2025, yang kemudian diolah secara kuantitatif untuk menentukan luas, persentase, dan distribusi perubahan penggunaan lahan. Data sekunder dari Badan Pusat Statistik (BPS) Kabupaten Karangasem digunakan untuk memverifikasi dan melengkapi hasil analisis spasial. Perubahan penggunaan lahan menunjukkan pola linier yang mengikuti jalur transportasi utama dan daerah pesisir.

**Kata kunci:** perubahan penggunaan lahan, analisis kuantitatif, GIS, spasial-temporal, kesesuaian lahan, Desa Purwakerti.