

**ANALYSIS OF ROAD, ELECTRICITY AND WATER INFRASTRUCTURE  
DEVELOPMENT ON INVESTMENT IN EAST KALIMANTAN PROVINCE**

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**ABSTRACT**

*This research is to find out and analyze the development of road infrastructure, electricity and water against investment in East Kalimantan Province. This study uses data obtained from and is directly related to work studies conducted by the Central Bureau of Statistics and the Office of Public Works (PU) and (BPS). The data used, namely the length of roads, electricity, water, and the amount of foreign investment at the BPS of East Kalimantan Province are used as the basis for analysis from 2012-2021. The results of the study showed that the value of  $F_{tabel}$  ( $df_1 = 2$   $df_2 = 7$ ) was obtained at 4.737414, which means that the value of  $F_{hitung} > F_{tabel}$  ( $6.214308 > 4.737414$ ) and probability  $0.028534 < 0.05$  so it can be concluded that road infrastructure, electricity and water together have an influence on investment. The R-Squared value is 0.756522 which means the dependent variable (investment) can be described by the independent variables (road infrastructure, electricity and water) of 75.65% while the remaining 24.35% investment is explained by other variables outside the research. The Adjusted R-Squared value is 0.634784 indicating that the dependent variable (investment) is 63.48% explained by the independent variables (road infrastructure, electricity and water) where the remaining 36.52% investment is described by other variables or other reasons outside the research.*

**Keywords:** *Road Infrastructure, Electricity, Water, Investment*

## **ANALISIS PEMBANGUNAN INFRASTRUKTUR JALAN, LISTRIK DAN AIR TERHADAP INVESTASI DI PROVINSI KALIMANTAN TIMUR**

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### **ABSTRAK**

Penelitian ini untuk mengetahui dan menganalisis pembangunan infrastruktur jalan, listrik dan air terhadap investasi di Provinsi Kalimantan Timur. Penelitian ini menggunakan data yang diperoleh dari dan berhubungan langsung dengan studi kerja yang dilakukan oleh Badan Pusat Statistik dan Dinas Pekerjaan Umum (PU) dan (BPS). Data yang digunakan yaitu panjang jalan, listrik, air, dan jumlah modal asing di BPS Provinsi Kalimantan Timur digunakan sebagai dasar analisis dari tahun 2012-2021. Hasil penelitian nilai  $F_{hitung} > F_{tabel}$  ( $df_1 = 2$   $df_2 = 7$ ) diperoleh sebesar 4.737414, yang berarti bahwa nilai  $F_{hitung} > F_{tabel}$  ( $6.214308 > 4.737414$ ) dan probabilitas  $0.028534 < 0.05$  sehingga bisa disimpulkan bahwa infrastruktur jalan, listrik dan air secara bersama-sama memiliki pengaruh terhadap investasi. nilai  $R-Squared$  sebesar 0.756522 yang berarti variabel dependen (investasi) dapat diuraikan oleh variabel independen (infrastruktur jalan, listrik dan air) sebesar 75.65% sedangkan sisanya 24,35% investasi di jelaskan oleh variabel lain di luar penelitian. Nilai  $Adjusted R-Squared$  adalah 0.634784 memperlihatkan jika variabel dependen (investasi) 63,48% dijelaskan oleh variabel independen (infrastruktur jalan, listrik dan air) dimana sisanya adalah 36,52% investasi diuraikan oleh variabel lain atau alasan lain diluar penelitian.

**Kata Kunci :** Infrastruktur Jalan, Listrik, Air, Investasi