

# Analisis studi kelayakan proyek jalan tol trans Sumatera berbasis konsep rekayasa nilai tambah menggunakan pendekatan sistem dinamik = Feasibility study analysis of trans Sumatera toll road project based on value engineering concept using dynamic system approach

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Abstrak

**ABSTRAK**

Proyek infrastruktur Jalan Tol Trans Sumatera (JTTS) direncanakan membentang dari Bakauheni-Banda Aceh dengan perkiraan investasi sebesar Rp290 Triliun. Studi rekayasa nilai tambah dilakukan pada proyek JTTS dengan menambahkan enam fungsi, yaitu integrasi jalur sepeda motor, pengembangan rest area, integrasi dry port, integrasi kereta median tol, pengembangan area pariwisata dan penambahan jaringan fiber optik. Penelitian bertujuan untuk mengetahui kelayakan finansial dari rekayasa fungsi tambah proyek JTTS. Analisis kelayakan dilakukan menggunakan pendekatan sistem dinamik terhadap tiga skenario tarif. Dari hasil penelitian didapatkan hasil Internal Rate of Return untuk ketiga skenario tarif, yaitu 8.28%, 12.71% dan 13.77%.

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**ABSTRACT**

Infrastructure project of Trans Sumatra Toll Road (JTTS) are planned stretch from Bakauheni to Banda Aceh with an estimated investment of IDR 290 Trillion. Value Engineering studies have been done on the project JTTS by adding six additional functions, that are integration of the motor bike paths, rest area development, integration of the dry port, rail way integration on median toll, development of tourism areas, and integration of fiber optic networks . The study aims to determine the financial feasibility of the additional functions JTTS. The feasibility analysis is performed using a dynamic systems approach to the three tariff scenarios. The study got the results that Internal Rate of Return for the three tariff scenarios are 8.28%, 12.71% and 13.77%.