

## Peningkatan nilai tambah proyek infrastruktur jalan tol Trans Sumatera dengan pendekatan value engineering = Enhancement of additional value of Trans Sumatera toll road infrastructure project with value engineering approached

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### Abstrak

Trans Sumatera dengan Pendekatan Value Engineering. Perencanaan proyek infrastruktur JTTS menghabiskan investasi sebesar Rp 340 Triliun. Investasi sebesar itu hanya membangun Jalan Tol konvensional yaitu kendaraan golongan 1 sampai 5, seharusnya besarnya investasi tersebut mendapat nilai tambah multi fungsi. Untuk mendapatkan nilai tambah, metode rekayasa nilai (value engineering) mengidentifikasi fungsi-fungsi, menciptakan gagasan kreatif dan inovatif. Pengembangan fungsi dasar dari JTTS sebagai fungsi transportasi golongan 1 sampai 5 diawali dengan pendekatan ranking PDRB dan jumlah penduduk, pengembangan wilayah Sumatera dengan location quotient, ditambah dengan fungsi pariwisata, telekomunikasi fiber optic, integrasi median tol dengan kereta api, integrasi jalur sepeda motor, integrasi dengan pelabuhan sungai, perkebunan karet, integrasi pipa migas serta service dan rest area. Dengan adanya penambahan fungsi tersebut dapat menambah manfaat proyek infrastruktur Jalan Tol Trans Sumatera.

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Planning JTTS Infrastructure project require investment Rp 340 trilion. Investment of the Toll Road just build conventional vehicle classes 1 to 5, the magnitude of the investment should have the value added multi function.. In order to reach a goal to have additional value, using value engineering to identify functions, creating creative and innovative ideas. Developing basic functions of JTTS as transportation functions from level 1 up to 5 begins ranking GDP and total inhabitant, then to the development Sumatera of the location quotient and coupled with additional value of tourism function, fiber-optic telecommunication, toll road median integration with train, motorcycle integration pathway, integration with dryport, rubber plantation, integration oil & gas pipeline, service and rest area. With addition of several functions, it is to have increase the benefits of JTTS Infrastructure project.