

# Analisis biaya siklus hidup (life cycle cost) pada pengembangan konseptual desain struktur jembatan Selat Sunda yang berbasis rekayasa nilai = Life cycle cost analysis in conceptual structure design development of sunda strait bridge based on value engineering

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## Abstrak

### [<b>ABSTRAK</b><br>

Jembatan Selat Sunda (JSS) merupakan mega proyek dengan dana terbesar di Indonesia. Peran jembatan ini sangat penting sebagai fungsi transportasi penghubung Jawa dan Sumatra. Permasalahan baru timbul akibat rendahnya tingkat pengembalian investasi jembatan jika hanya mengandalkan dari pendapatan lalu-lintas. Sebuah gagasan untuk meningkatkan fungsi dari jembatan ini telah diteliti pada penelitian sebelumnya melalui penambahan fungsi energi dan pariwisata. Dari penelitian ini didapat desain konseptual struktur JSS dengan penambahan fungsi energi dan pariwisata serta estimasi Life Cycle Cost sebesar Rp 201,07 Trilyun di tahun 2017

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Sunda Strait Bridge (SSB) is a mega project with the largest funds in Indonesia. This has an important role as a bridge connecting Java and Sumatra. A new problems appears due to the low rate of return on investment if only rely on bridge traffic revenue. An idea to improve the function of the bridge has been investigated in previous research through the addition of energy and tourism functions. This research shows conceptual design SSB structure with the addition of energy and tourism functions and Life Cycle Cost estimated of Rp 201.07 trillion in 2017.;Sunda Strait Bridge (SSB) is a mega project with the largest funds in Indonesia. This has an important role as a bridge connecting Java and Sumatra. A new problems appears due to the low rate of return on investment if only rely on bridge traffic revenue. An idea to improve the function of the bridge has been investigated in previous research through the addition of energy and tourism functions. This research shows conceptual design SSB structure with the addition of energy and tourism functions and Life Cycle Cost estimated of Rp 201.07 trillion in 2017., Sunda Strait Bridge (SSB) is a mega project with the largest funds in Indonesia. This has an important role as a bridge connecting Java and Sumatra. A new problems appears due to the low rate of return on investment if only rely on bridge traffic revenue. An idea to improve the function of the bridge has been investigated in previous research through the addition of energy and tourism functions. This research shows conceptual design SSB structure with the addition of energy and tourism functions and Life Cycle Cost estimated of Rp 201.07

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