

PAVIMENTAÇÃO

Custos de Operação Dos Veículos

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Custos de Operação dos Veículos

Custos de Operação

1. *Consumo de Combustíveis*
2. *Consumo de Lubrificantes*
3. *Consumo de Pneus*
4. *Peças de Reposição*
5. *Serviços de Manutenção*
6. *Tempos de Viagem*



Custos de Operação dos Veículos

Custos de Operação

1. *Consumo de Combustíveis*
2. *Consumo de Lubrificantes*
3. *Consumo de Pneus*

Variação da Qualidade de Rolamento



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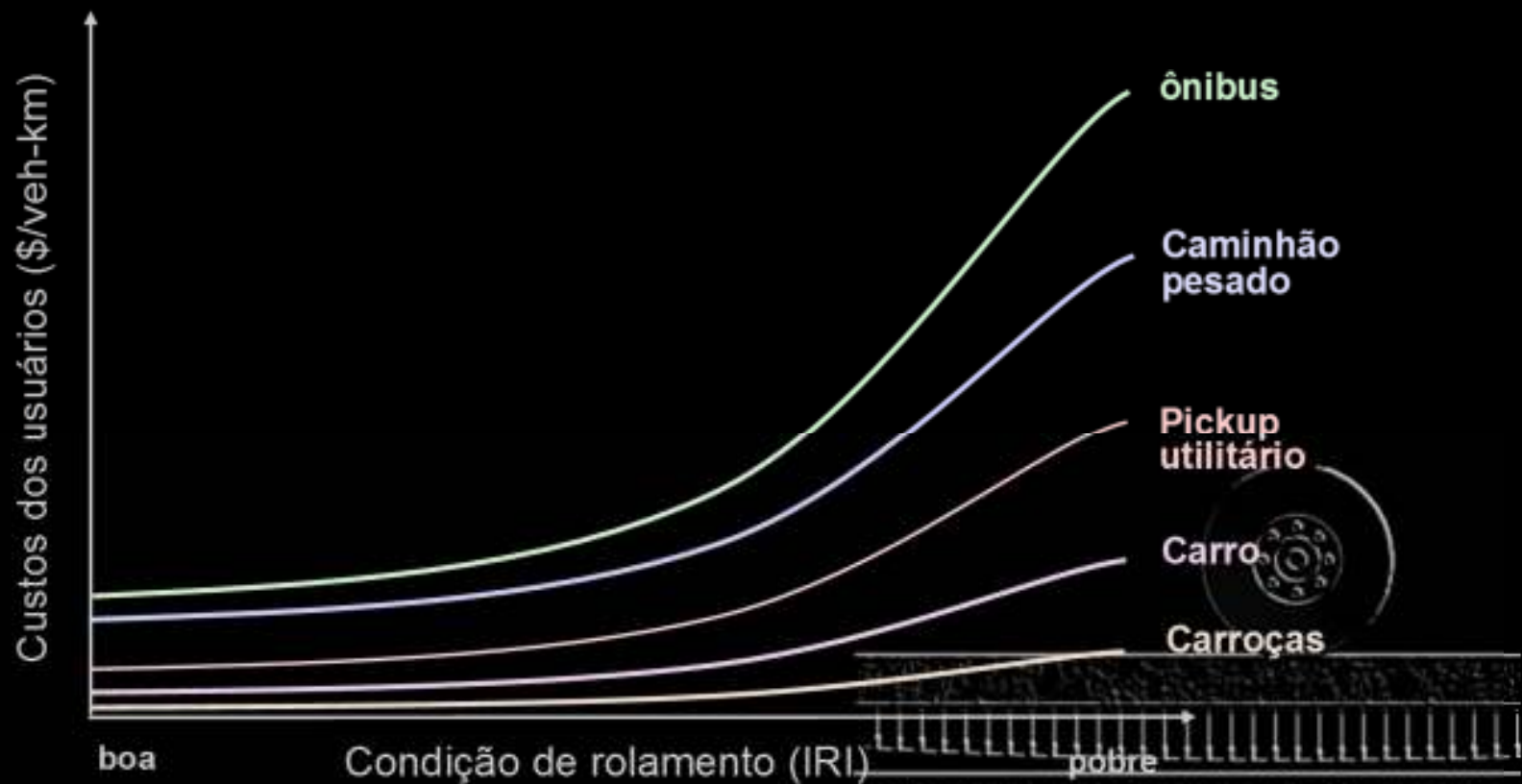
$$\text{Custos Operacionais} = f(\text{IRI}, \text{veículo})$$



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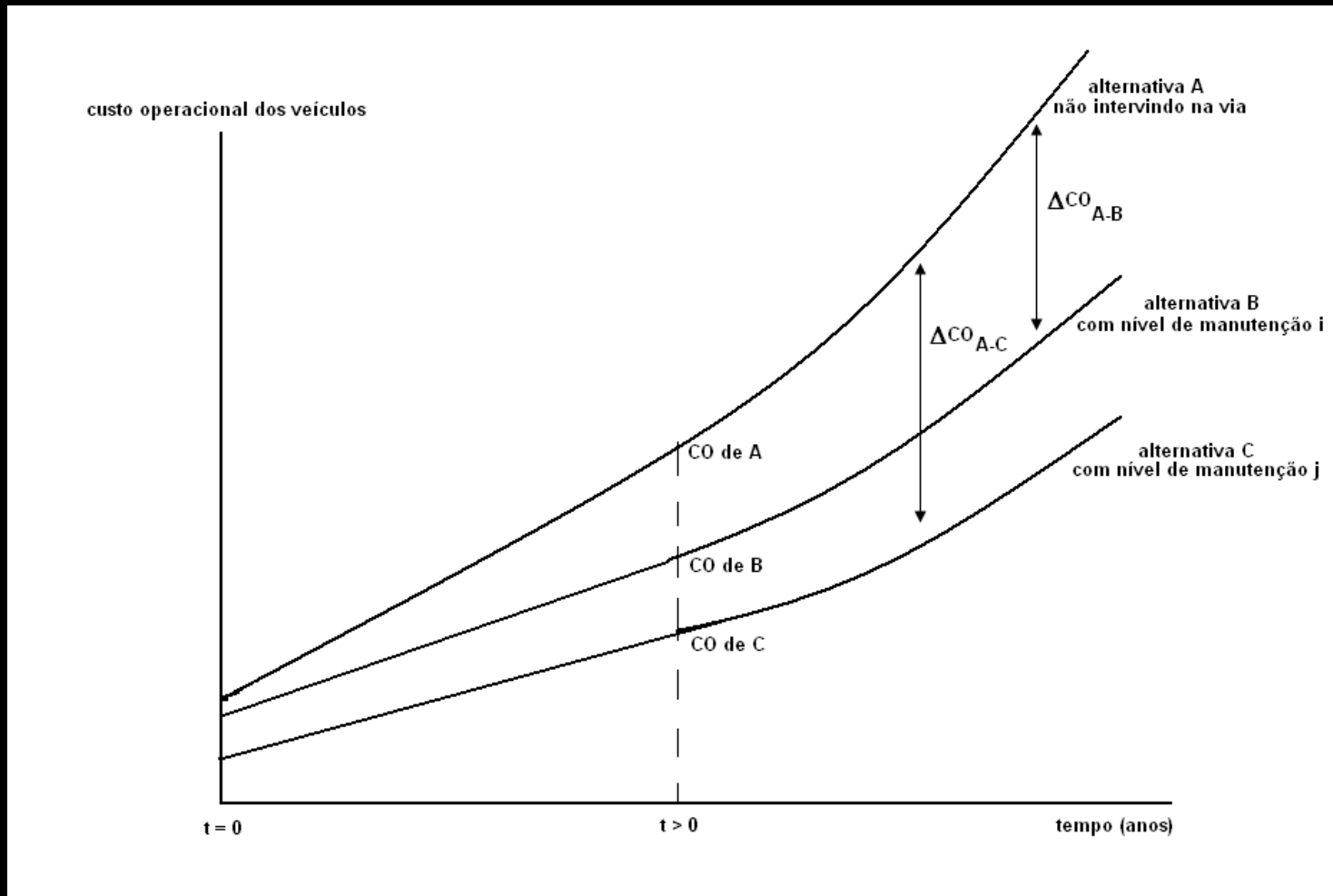
Custos de Operação dos Veículos

Impacto das Condições da Via nos Veículos

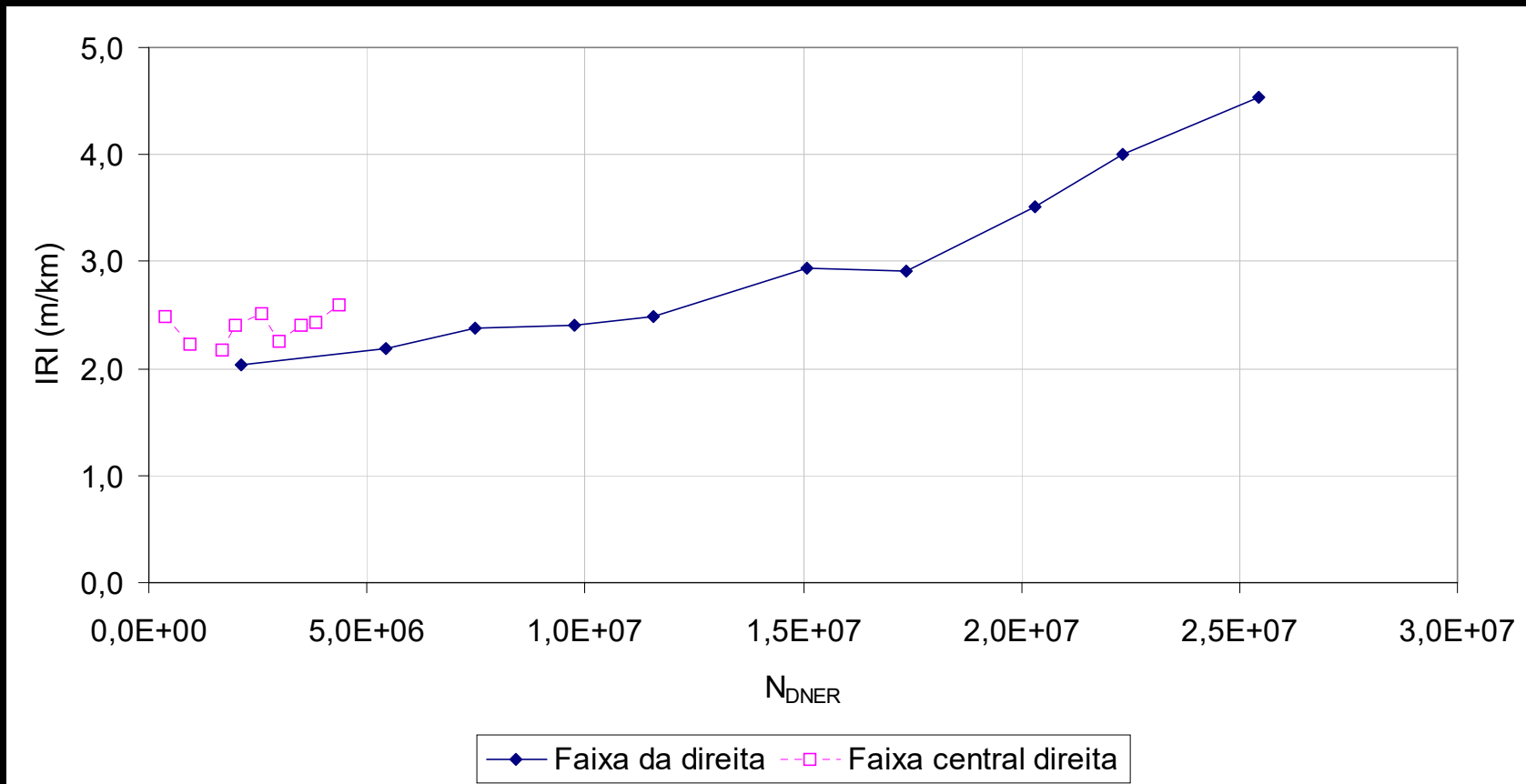


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Monitoração dos Pavimentos



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Custos de Operação dos Veículos

**Highway Development and Management Model
HDM-4**

The World Bank Group

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Transport

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An international effort to develop improved road investment appraisal methods was undertaken by the British Overseas Development Administration, the Asian Development Bank, the Swedish National Road Administration, The Interamerican Federation of Cement Manufacturers, and the World Bank. This study was built upon the widely-used Highway Design and Maintenance Standards model HDM-III, extending and developing it with:

- Technical relationships updated and calibrated to the best current knowledge
- Additional technical capabilities for dealing with traffic congestion, non-motorized vehicles, concrete pavements, drainage, environmental and safety effects.
- Improved system design, software and applications framework for use at various levels of planning, budgeting, appraisal and management of roads.

The study considerably broadens the scope of such models beyond traditional project appraisal, providing a powerful system for the analysis of road management and investment alternatives. Emphasis in the study was on collating and applying existing knowledge, rather than undertaking major new empirical studies.

The end product of the study is a completely new software package and associated documentation which will serve as the primary tool for the analysis, planning, management and appraisal of road maintenance, improvements and investment decisions that will supersede HDM-III (1995 HDM System).



Custos de Operação dos Veículos

The Highway Development and Management System - HDM-4 - is a software system for investigating choices in investing in road transport infrastructure.

H D M - 4
HIGHWAY DEVELOPMENT & MANAGEMENT



Since 1996, the World Road Association (PIARC) resumed the responsibility of the management of this project further to the actions started by the World Bank.



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Key words

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