Strategies into Practice Through the Pavement Management System

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Abstract

Pavement Management System (PMS) is a set of procedures/methods available for collecting, maintaining, analysing, and reporting pavement data to assist the decision-making process. When it comes to road maintenance planning, decision making is always challenging where road agencies have a limited budget to deliver their long-term strategies. This has put immense pressure on asset managers and asset Engineers to establish a process that priorities maintenance treatments for better network outcome.

Prioritising maintenance needs of a road network based simply on its current condition failed to satisfy the long-term impact of the maintenance (IDS 2019). It is recommended to combine project prioritization and the budget optimization process to achieve a balance between the maintenance needs and budget constraints. The optimised program will ensure the best value for money when analysing benefits of the desired maintenance options under a limited budget. The presentation will discuss the steps involved in developing the optimised road maintenance program for delivering long-term strategies and benefit of PMS for the long- term decision-making process.

Keywords: PMS, Strategies, Optimization, Predictive modelling

Reference

Infrastructure Decision Support (IDS) technical Brief, "Why do we need to optimize the maintenance investment of infrastructure? "2019.

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