

Sustainable Pavement Life Cycle Solutions



OPUS Consultants

Pioneering Sustainability Solutions and
Redefining the Boundaries of Innovation

Sustainable Pavement Life Cycle Solutions Powered by dTIMS

Predict the future condition and maintenance requirements of your pavement assets using dTIMS

Accurate long-term planning of maintenance and management is a critical step to ensure that your pavement is performing in an appropriate condition for today and in the future.

By strategically maintaining your assets, you can maximize uptime and productivity and ensures effective oversight of your asset portfolio.

With 25 years of experience managing more than 1,000 km Expressway Networks in Malaysia, OPUS Consultants delivers strong performance and meets key goals. We prioritize cost control to support our clients in their asset life cycle management by minimizing risks and making sure their investment stays safe and sustainable.

Keeping your pavement network in good condition is the most effective and least costly way to prevent deterioration and extend pavement life. In the long term, well-maintained roads reduce costs for asset owners, taxpayers and road users.



Forecast Deterioration

OPUS uses dTIMS analytical tools and modelling to ensure the deterioration of your pavements in dTIMS match the deterioration of your road assets in the field. dTIMS supports both deterministic and probabilistic modelling and includes flexible treatment impact models and flexible cost models.

Determine Funding Needs

We analyse your pavements for periods up to 25 years, so long-term performance impacts can be generated for various funding scenarios. These scenarios will help you to clearly communicate how much funding you would require to meet targets.



Develop Projects

Our pavement models are designed to generate a range of maintenance, preservation, rehabilitation, and replacement strategies for each structure and its components. These strategies are then optimised across multiple budget scenarios to deliver the most efficient and cost-effective work program.



Asset Management: Pioneering Sustainable Practices for a Resilient Future in ESG Excellence

Improve Strategic Decision Making

A flexible and sophisticated life cycle cost analysis and optimization tool that meets the planning needs of an agency now and into the future.

- **Plan for future maintenance:**
Create an effective, optimized, long term maintenance strategy.
- **Predict “Sustainability” cost:**
What will it cost to maintain the status quo into the future?
- **Use the right treatment at the right time:**
Limit subjective recommendations in favour of “big picture” network planning which directs project level recommendations.
- **Environmental Preservation:**
Carbon Emission Control, Environmental Planning, Materials/ Method Innovations
- **Understand what it takes to change objectives:**
Plan for and determine how to achieve a desired Level of Service (LOS) and know how much it will cost.



Make Quicker, Smarter Decisions

A dashboard tool that enables faster, actionable insights from data.

- **Streamline the data-analysis process**
Information can be shared quickly and collaboratively.
- **Unlock fast, actionable insight:**
Transforming complex data into valuable intelligence shouldn't be a luxury — It's a necessity. Our expert team and tools make it quick and easy to analyze data and extract insights that drive smarter decisions.
- **Unlocks the power of dTIMS analysis for all stakeholders:**
Extend the usage of dTIMS to different departments and roles that require to consolidate their data.
- **Leave the complexities of the software behind:**
Clear and concise one-page summary of the analysis for effortless reading





OPUS International (M) Berhad
198601004999 (154159-T)

OPUS Consultants (M) Sdn Bhd
199601033249 (405601-M)

Head Office

Level 6, Menara UEM,
Tower 1, Avenue 7,
The Horizon, Bangsar South City,
No.8 Jalan Kerinchi,
59200 Kuala Lumpur,
Malaysia.

Tel : +603 2725 6870

Fax : +603 2711 8016

**OPUS Consultants (Sarawak
Regional Office)**

Lot 349, 350, 351 & 352, Section 9,
Kuching Town Land District,
Jalan Rubber,
93400 Kuching, Sarawak,
Malaysia.

Tel : +6082 547 001

Fax : +6082 547 252

cs@opusbhd.com

Learn more about
OPUS Consultants at
www.edgentaopus.com

