DECISIONS POWERED BY DATA.
We are pleased to announce the release of our next generation PARMMS Road Manager, now powered by Yotta UK.

PARMMS Road Manager is a state of the art analysis engine used by Pavement Management Services for leading organisations globally. Analysis can be run on a range of road networks (State, Sealed or Unsealed) and a range of asset classes (e.g. Footpath, Stormwater, Kerb & Channel).

Designed as a cloud solution from the outset, PARMMS/Yotta makes it easier to share and access your data, whether in the office, at home or in the field.

PARMMS Road Manager® is using Yotta's Horizons platform. Horizons is its strategic asset management tool, and since launched in 2012 is now in use by over 70 organisations, managing over 100,000kms of road and pavement assets across 6 countries.

The combination of PARMMS® Road Manager and Horizons platform produced a modern asset management software that will bring the pavement condition data into a meaning.
KEY FEATURES

01 CLOUD BASED SOLUTION
Cloud based solution requiring less internal IT effort to deploy and maintain. The solution utilises advanced server technology allowing to produce outputs in a fraction of the time.

02 EXCELLENT USER INTERFACE and TRANSPARENCY
With a map base interface, our client is able to communicate technical data to a range of stakeholders. Reporting includes transparency reporting to establish why a pavement section was triggered along with why a treatment was selected.

03 GREATER DATA ACCURACY
Through dynamic segmentation of the data, our client can utilise the rich data set collected by Pavement Management Services. This will produce an output that has significantly greater accuracy and reduce the effort required for field validation.

04 DATA INTEGRATION
Data on accidents, flood regions, open defects, school zones, tourist routes, structural pavement data (e.g. FWD) can all be uploaded and used as part of the analysis.

05 PAVEMENT ASSET MANAGEMENT
Deterioration curves are configured within platform and can be automatically derived from historical data.
The system can use a range of road condition datasets to identify schemes including machine based condition data (e.g. Roughness / Rutting / Texture / Cracking / Skid), visual survey types (e.g. Surface deterioration, edge defects, cracking), condition Index data (e.g. PCI and visual survey condition Indices) and any other relevant spatial datasets (e.g. rates of reactive spend, asset age, inspector condition scores, schemes already identified by engineers etc).
BUILT WITH USER IN MIND

KEY CHALLENGES

01 Lack of single source of truth for data.

02 Challenges in engaging with different type of stakeholders.

03 Low level of transparency in maintenance renewal forecasting.

04 Restricted to using condition based planning.

05 Difficulty adopting to changes in network performance and business processes.

06 Financial constraints resulted in short term maintenance focus.

PARMMS Road Manager has been developed based on the culmination of over 35 years of knowledge and research conducted in the field of asset management of road networks and by forming long term partnerships with our clients, allowing us to gain insights into how best to solve their everyday challenges.

This has given the new version of PARMMS Road Manager a unique insight into the challenges of dealing with large, complex datasets and how to deliver value from data collection to making informed decisions.
SOLUTIONS

PROVIDE UP TO DATE INFORMATION
by amalgamating data sets from all business systems, including condition, completed works and defects data.

ENHANCED ENGAGEMENT
with larger diversity of stakeholders through smart network data visualisation.

INCREASED TRANSPARENCY AND CONFIDENCE
in analysis results through detailed justification of works planned.

ADAPTING TO GOVERNMENT INITIATIVES
by using political factors such as shifting budgets.

REDUCING FUTURE COSTS
on reactive maintenance by incorporating that data into the modelling.

INCREASED COMMUNITY SATISFACTION
by including socio-economic factors such as school zones and tourist routes.

HIGHER ACCURACY
of planned works by using detailed condition data and business rules.

IMPROVED COMMUNITY SAFETY
by integrating accidents and road defects data in the planning.

ENABLES RESOURCES
within the authority to be freed up and re-assigned away from manual highways inspection tasks, thereby reducing costs and driving operational efficiencies.
PARMMS® Road Manager was born from the need of many of our survey customers to further understand, share, and exploit their data to elicit strategic decisions on maintenance programmes. It combines a unique map based interface to present and help users to engage with their data, whilst also providing a deep technical analysis capability for users to model and optimise forward works programmes.

An example of one of the many parameters that can be used to identify maintenance in the new version of PARMMS can be seen in the figure above. In this case, the top figure shows hotspot mapping of rut depth measured from a condition survey.
The new version of PARMMS Road Manager is designed from the outset to be a cloud based application, meaning its architecture and performance are designed around a modern cloud operation. This new version is accessible through any modern internet browser from any modern web-enabled device (Desktop, laptop, mobile tablets etc.).

THE INTERFACE IS FOCUSED ON USABILITY REDUCING THE NEED FOR TRAINING AND INCREASING PRODUCTIVITY
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