



# Ramboll Asset Management Services (RAMS)

Ramboll has developed an online web service tool for transport infrastructure asset management services. This web-based tool allows customers to manage the necessary asset information using RAMS.

Applications can vary from road and city pavements, road markings, bridges and many other infrastructure assets. Asset condition data is the backbone of the service and uses the condition data not only to display the asset conditions, but can also be used for analysis like, optimizing the next 10 year pavement resurfacing program or even creating work and action plans.

RAMS is flexible to use and adapt various types of data input from many sources and can be quickly developed for any custom-made application. RAMS can be either used exclusively by the customers or use Ramboll services to manage the information services. Local and state governments can take advantage of asset management tool to help make decisions to protect and provide longer-lasting public services.

### Benefits of RAMS

- Visual display of asset conditions – GIS-based
- Optimizes Maintenance Practices/Processes
- Determine Long-Term Resurfacing Plan
- Search features to locate information
- Flexibility and easy to use
- Ability to report information & store data
- Custom-made functionality for customers
- Handbook for quick user introduction



### Asset Structure & Analysis

Asset information and condition assessment are a vital part of the RAMS and is the foundation for analysis and decision making. Condition assessment can be collected manually or by automated means. Ramboll has the resources and know-how to assist asset owners to create or manage the data for the information framework. Data can be translated and managed to client's needs and further use. Once condition assessment is completed, deterioration models and intervention levels can be used to assess the usable life.

The expected life-cycle, forward programmatic replacement plan and trade-off analysis can then be calculated. For example, the overall condition of the pavement assets can be calculated. As a result a long-term budget and action plan can be formulated. Also, customer surveys and other feedback mechanisms can be utilized using the RAMS technology.

Helsingborg, Sweden is an example of an ongoing project using this technique and parts of the RAMS web service is also used for a 10 year performance-based resurfacing project in Oulu, Finland.