

# RAILWAY DATA MANAGEMENT SYSTEM (RDMS)<sup>®</sup>

**Railway Data management system (RDMS)<sup>®</sup>** is a version of Railway Doctor<sup>™</sup> software that provides tools for railway condition surveys and reporting and for the planning of rehabilitation measures.

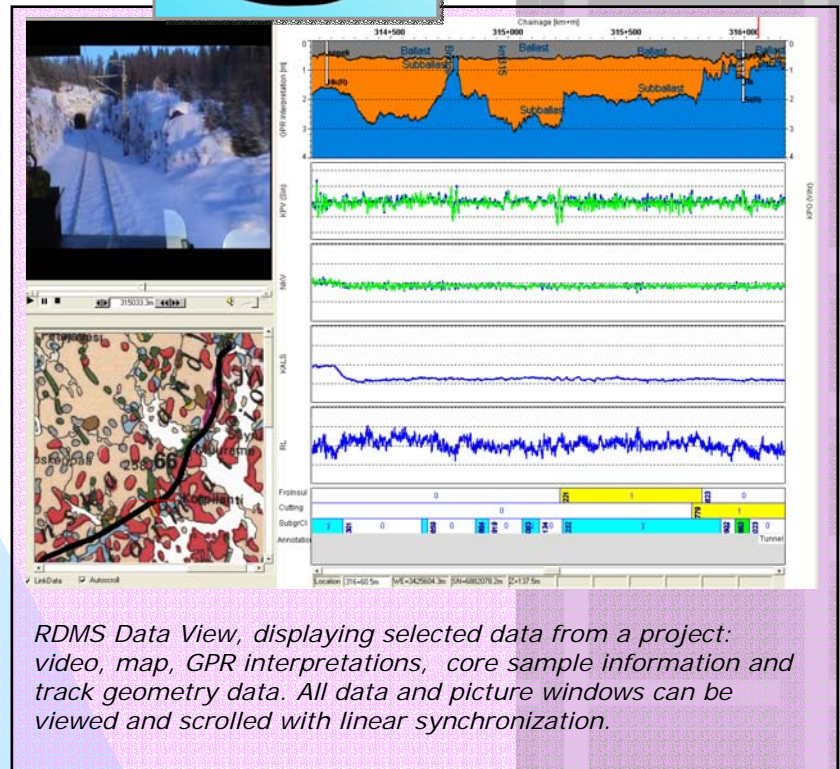


## The General Features

- Linking railway survey data
- Synchronised presentation of results
- Analysis tools
- GIS presentation of any survey & analysis data
- Rehabilitation design



The development of all RDMS<sup>®</sup> software follows three main principles: **Universality** through open formats; **Effectiveness** through new tools, especially for infrastructure surveys, and the support of integrated graphical interfaces; and **Accuracy**, especially in respect with positioning of the data. The software is currently available with *English, Finnish, French, Spanish, German* and *Swedish* language options.



## Input Data

Data attachable to RDMS projects includes:

- GPR data (e.g. GSSI, 3-D Radar, MALA, Sensors & Software, IDS)
- Reference data (e.g. layer depths from drill core results)
- Railway databases
- Geometry information
- Databases (Oracle, MS Access, Paradox, MySQL, etc.)
- Digital video, photos, maps and images
- Any files readable using the workstation's other programs (.doc, .xls, .pdf, .htm, etc.)



**A ROADSCANNERS**

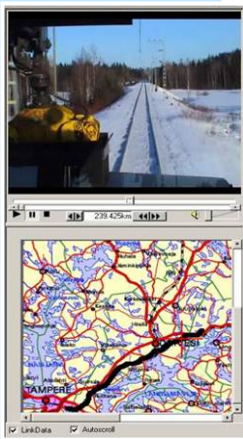
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## Features for Railway Designers

Interpreted measurement results can be developed in RDMS® to produce:

- An overview of railway network condition status
- An analysis of the reasons for distress in each problem section
- Presentations of suggested rehabilitation measures and their estimated costs
- Presentation of the results in GIS maps



The Railway Analysis operations of RDMS® enable the user to categorize railway sections for example according to their rehabilitation needs. Each of the 19 available analysis parameters can be edited to match the user's own project-specific classification system.

When doing rehabilitation planning, the user can designate a repair measure for each individual problem section. The planning feature also allows the definition per section of a number of design factors, such as track tamping, ballast cleaning or the thickness of new ballast layers.



Once a plan has been completed, the program can calculate statistics, material quantities, and accumulated costs for the rehabilitation project, based on unit prices given for each material or repair structure.



## Presentation of Results

The analysis results and rehabilitation planning data can be exported from RDMS® in different text file formats, which allow data transfer e.g. to the client's road database, to **MS Excel**, **SPSS**, or **GIS** or **CAD** programs. Results can be also presented using RDMS® own GIS option.

Data views can be exported as Bitmap image files, or to a printer.

*For inquiries and price quotations, please contact Roadscanners or your nearest RDMS® software distributor.*



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## Technical Specifications

RDMS® runs in MS Windows 98SE, 2000, XP, NT 4.0, or NT 2000.

Minimum requirements for the computer: 600 MHz Pentium III processor, free memory capacity of 20 Gb on hard disk and 256 Mb of RAM memory.

Required other programs:  
Mediaplayer 6.4,  
MDAC 2.5 in NT  
4.0, upgrade of  
DirectX to version  
8.1 in Windows  
2000.



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