

ROADSCANNERS

In a nutshell



Advanced Tools for Infrastructure Design and Management

Roadscanners in a nutshell

ROADSCANNERS works globally in all of its product fields which are consulting, software and instruments. In addition to its current main market areas of Finland, Sweden and U.S.A., the company has also had consulting projects in Australia, U.K., South-Africa, Israel, Greece, Italy, Germany, Czech Republic, Poland, Hungary and Azerbaijan. Roadscanners has sold software products in Europe, North America, South America, Africa, Asia and Australia. Roadscanners instruments and GPR turnkey packages have been used as far south as Antarctica and as far north as Spitzbergen and everywhere in between from Amarillo to Shanghai.

The main focus of the company's activities has been structural and functional condition monitoring and analysis and problem diagnosis of roads, streets, bridges, airports and railways as well as the precise rehabilitation and strengthening design of these objects based on the results of monitoring and analysis. Roadscanners has special expertise, for which it is internationally recognized, in ground penetrating radar (GPR) technology and in the use of NDT methods to survey the mechanical properties of infrastructure construction. The company also has both expertise and products for laser scanner technology and thermal cameras.



The Roadscanners consulting branch

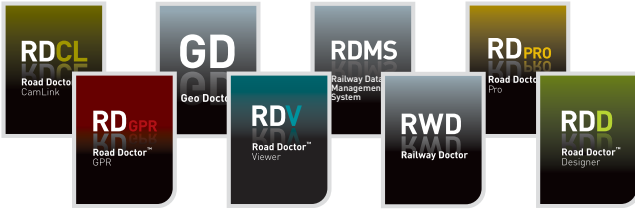
The Roadscanners consulting branch is responsible for conducting traffic infrastructure and geophysical surveys and providing consulting and training in the implementation of GPR and other NDT technology. The company also participates in projects where pavement management systems for road networks are implemented. Lately, the company has worked in two such projects, sponsored by the World Bank, in Bulgaria and in Azerbaijan.

The Consulting division also provides research and development services to organizations such as the European Union, where our most important projects so far have been the ROADDEX I-III projects which have focused on low traffic volume road condition management in cold climate areas. The ROADDEX IV project is currently underway and it will be finished in the year 2012. Other bigger international R&D projects in which the company is participating are the SHRP2 (Strategic Highway Research 2) project in the U.S.A. and the MaraNord and Barents Low volume Road Management projects. The Consulting division also has a critical role in testing the company's software products as well as innovating new features and establishing markets for these products. The Consulting crew is also responsible for pilot projects to introduce and demonstrate Roadscanners software and hardware products in different countries.

Mobile Laser Scanning technology and point clouds have a great future in road condition management! Roadscanners is offering both high speed, high accuracy mobile laser scanning services in cooperation with GeoVap from Czech Republic as well as low cost measurements that can be done in combination with other road NDT surveys.

Roadscanners has been doing R&D in order to develop an inspection method for railway material parameters such as ballast fouling, frost susceptibility potential and moisture condition of granular layers. Most of the R&D work has been done in co-operation with the Finnish Transport Agency and the Tampere University of Technology. Other research partners in railway projects have been HyGround Engineering in U.S.A., University of Pretoria in South Africa, TTCL in U.S.A. and National Technical University of Athens in Greece.





The Roadscanners software branch

The Roadscanners software branch develops software for traffic infrastructure diagnostics, rehabilitation design and management (Road Doctor™, Railway Doctor and their different versions) and GPR data processing and interpretation for geo and environmental surveys (Geo Doctor™). Roadscanners has also developed Road Doctor™ Administration software, also known as RDA, an online E-trade tendering system for the Finnish Road Administration. Roadscanners also develops special versions of these systems tailored to the needs of municipal customers. One of the greatest advantages of Roadscanners software products is that they are not commercially tied to any road or railway survey instruments or software systems. Road Doctor™ software, especially, has become a recognized brand in the field of infrastructure surveys throughout the World.

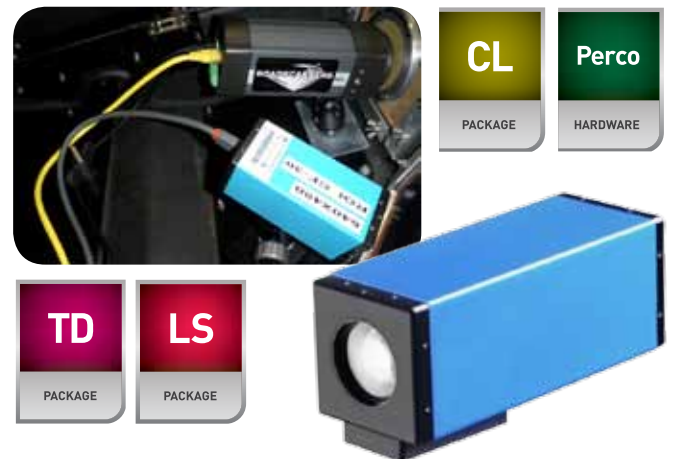
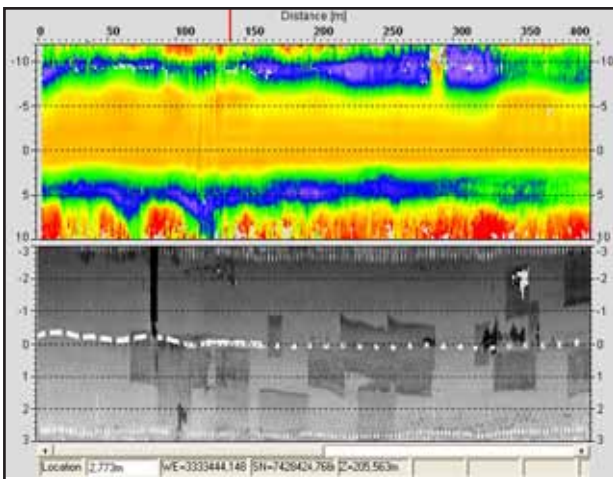
The primary customers of the Software branch are the same as those of the Consulting division. In addition, contractors and consultants using GPR technology account for a large number of customers.

The Roadscanners hardware branch

An excellent example of Roadscanners' hardware products are the plug and play survey system packages: Road Doctor™ CamLink (RDCL), system for capturing video with GPS, Road Doctor™ Thermal Diagnostics (RDTD), system especially for thermodynamic investigations of traffic infrastructure and Road Doctor™ Laser Scanner (RDLS), system for cost effective laser scanning and laser scanner data analysis of roads and railways.

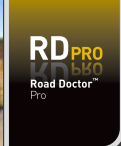
Roadscanners is a distributor of 3D-Radar A/S (Norway), GSSI (U.S.A.) and IDS (Italy) GPR systems.

Roadscanners is the worldwide distributor of Percometer and Percostation products which are designed and manufactured by Adek Ltd. in Estonia.



The personnel in Roadscanners group comprise specialists in software development, civil engineering, geophysics and geology.

Professionals in the fields of traffic infrastructure management and design, geosciences, and IT.



- 2D and 3D GPR Surveys
- Software
- Forest and Private Road Surveys
- Laser Scanning Services

- Railway Surveys
- Road Management System (RMS)
- Thermal Camera Surveys
- Road Diagnostics and Design

- Seasonal Change Management
- Hardware
- Bridge Surveys
- Quality Control and Quality Assurance



Roadscanners Oy is a consulting company specialized in developing tools and services for traffic infrastructure condition monitoring and management. Roadscanners Oy was established in 1997 and its main office is located in Rovaniemi, Finland. The company also has consulting offices in Tampere and Helsinki, Finland. Currently, the group also has a subsidiary, Roadscanners Sweden AB, located in Borlänge, Sweden.

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functional condition monitoring and analysis and problem diagnosis of roads, streets, bridges, airports and railways as well as the precise rehabilitation and strengthening design of these objects based on the results of monitoring and analysis. Roadscanners has special expertise, for which it is internationally recognized, in ground penetrating radar (GPR) technology and in the use of NDT methods to survey the mechanical properties of road construction. The company also has both expertise and products for laser scanner technology and thermal cameras.



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