

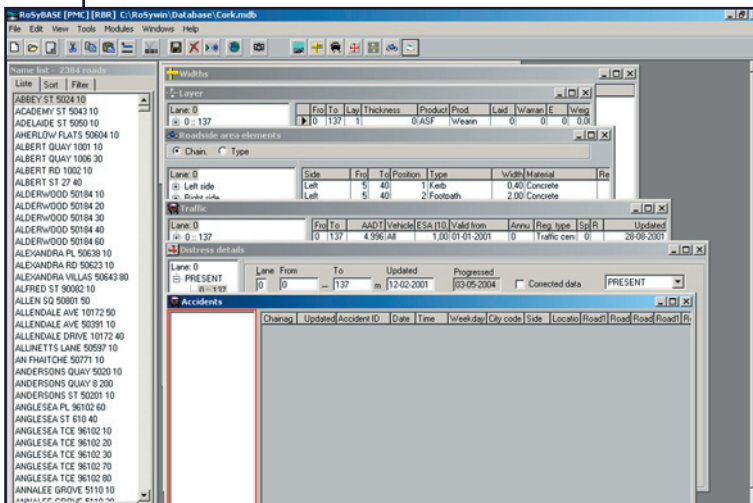
RoSy BASE



RoSy BASE

RoSy BASE for Windows is a computer tool integrated in RoSy PMS (Pavement Management System) for optimum maintenance and control of road networks. RoSy BASE is one of the core modules of RoSy PMS and offers a good survey of the geometric and conditional data of all roads of a road network

RoSy PMS is one the most widespread Pavement Management Systems. The system is an intelligent system and not just a database. All modules apply the same database and allow easy maintenance of all road data.



RoSy BASE windows

RoSy BASE stores all data on the individual roads and roadside area elements such as:

- Road name and number
- Lengths and widths
- Distress and repairs
- Traffic loads (ADT, SA10, speed limits)
- Pavement data
- Roadside area elements, gravel roads, kerbs and footways and -paths
- Districts and road classes
- Pictures
- Categories, such as school roads
- Signs, manholes and gullies, street lighting

RoSy BASE grows concurrently with the entering of data and all data is connected to a road name list. Data may be entered in more ways:

- Enter data to the database
- Import data from other databases
- Convert already collected data.

The collected data is applied for calculation of maintenance strategies and consequence analysis, which among other things are used for documentation of the road condition.

Advantages of RoSy BASE

RoSy BASE allows a road agency to have a good survey of all elements and values of a road network. The module allows filtering of all data so that a road agency can combine views of data and have lists displayed of e.g. school roads, roads without footways, roads with certain speed limits. The possibilities of data presentation are innumerable.

Reports may be printed out from RoSy BASE and these are supplied with the software:

Road survey, road area, roadside area elements, pavement and layers, traffic data, geometric and condition surveys, distress surveys, progressed distress surveys, bearing capacity.

Reports:

RoSy BASE contains a number of standard reports. However, Access-users have the possibility of creating their own reports. All reports are stored in Crystal Report.

Training in use of RoSy BASE:

We always recommend receiving training in the use of the system. We offer training courses at the customer's place or at the premises of Carl Bro Group.

Map-linking:

RoSy MAP is a module of RoSy PMS allowing linking of all data stored to a map. This allows visualisation of all data.

Contact us

If you wish to learn more about RoSy PMS and in particular RoSy BASE, you are welcome to contact Carl Bro Pavement Consultants.

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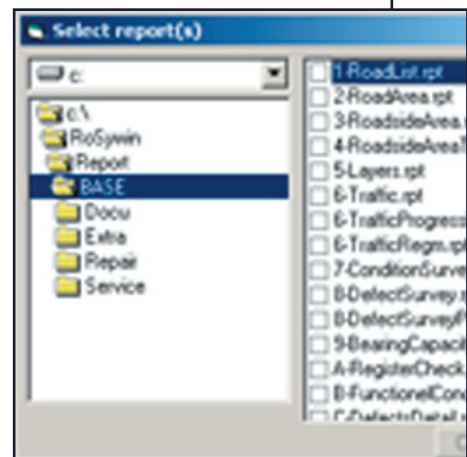
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Standard windows in RoSy BASE:

Road name list
Main details window
Distress window
Traffic window
Pavement window
Roadside area elements window
Accidents window

Supplementary windows in RoSy BASE:

Sign and road marking registration
Gullies and manholes
Street lighting
Equipment
Distress (roadside area elements)
Functional condition (IRI, VOC, etc.)
Road junction list
Profiles (cross-section profile)
Pavement Cores
Service (planning and administration of tasks)



RoSy BASE contains a number of standard reports

RoSy SUPPLEMENTARY WINDOWS



RoSy SUPPLEMENTARY WINDOWS

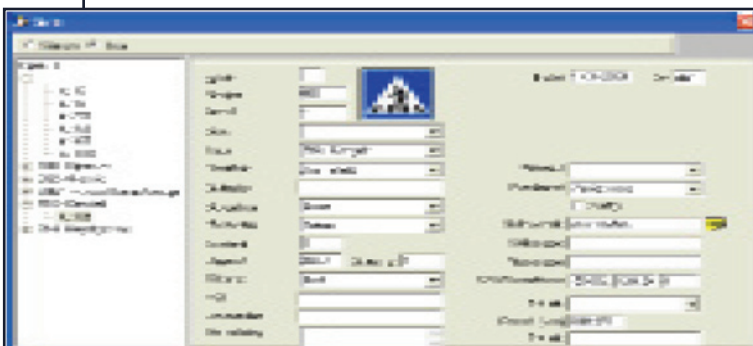
Registration of road signs, street lightning and gullies and manholes.

Does your road agency know how many signs it has and what condition the signs are in?

Which kind of street lightning is applied in the district and who owns what? Where are gullies and manholes, speed bumps or foot paths located?

Carl Bro Group has developed several additional windows for RoSy BASE standard. The purpose is to allow storage of as much data as possible on a road network together. This will allow a full survey and the RoSy functionalities may be used on all registers.

Carl Bro Group can assist you with the registration of all elements. We have developed an electronic data collection system called Cam-Survey. Electronic data registration allows registration of a number of data simultaneously, e.g. number of road signs, location, sign type, poster, and condition of the various elements. All registrations are stored in the additional windows in RoSy BASE together with all other data on the road network.



RoSy SUPPLEMENTARY windows

Below supplementary windows are available in RoSy

- Sign
- Street lighting
- Gullies and manholes
- Road markings
- Various equipment such as foot paths, speed bumps.
- Defects on roadside area elements such as food ways, kerbs and crash barriers.

Registrations

- The exact location of the sign can be registered (chainage), roadside, distance from centre line of the road and whether the sign is two-sided.
- The sign condition is registered as good, satisfactory or poor.
- Sign foundation may be registered as well as any text on the sign.
- The road agency will have the possibility of registering data on when the sign was mounted, when it should be replaced, who supplied the sign and any physical dimensions of the sign.

Survey is essential

Some of the registration fields are common for the various additional windows and they may be amended in accordance with a road agency's needs and requirements. GPS registrations are also possible and X-, Y-, and Z-coordinates from earlier registrations may be entered as well.

Reports

Various lists and reports may be generated on the basis of the registered data, such as number of signs, sign types, standards and conditions. A filter facility allows treatment and analysis of the data in various data processing systems.

Limitations

An unlimited amount of data can be registered in RoSy. RoSy is constantly being improved in cooperation with our users in order to comply to customers wishes and to make the systems as user friendly as possible

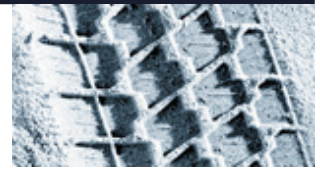


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RoSy ACCIDENT & TRAFFIC ANALYSIS



Registration of accidents

Good and well-arrange data is a precondition for efficient traffic safety measures. Data can provide survey of number of accidents, where they happen, what kinds of accidents, etc. The Accident Module of Carl Bro Group can be applied for this data registration and the fact that data can be visualised on GIS maps makes RoSy ACCIDENT an efficient tool.

A safe road network

RoSy ACCIDENT allows registration of accidents and traffic analyses on the basis of the registered data. Data can be printed out in reports, but can also be visualised and analysed in the MAP-window (GIS).

More safety on the road network

RoSy ACCIDENT is the tool for registration and analysing of accidents and the circumstances that caused the accidents. The database generates a historic survey that can form the basis for decisions regarding future safety precautions.

Visualisation of accident data in RoSy MAP (GIS)

If the roads in RoSy are linked to maps, it is possible to visualise the information stored in RoSy ACCIDENT. Data are visualised as symbols on the map, which gives a visual impression of where on the road network the most serious accidents are happening, roads characterised as "black spots" or accidents per year. In this way the effects of traffic precautions can be analysed.



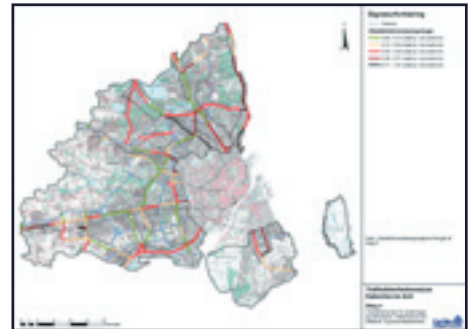
- Safe school way
- Speed limitations
- Lighting conditions
- Traffic safety analyses
- Distress information
- Visualisation of accident data
- Dialogue with other accident records and databases.

Traffic analyses

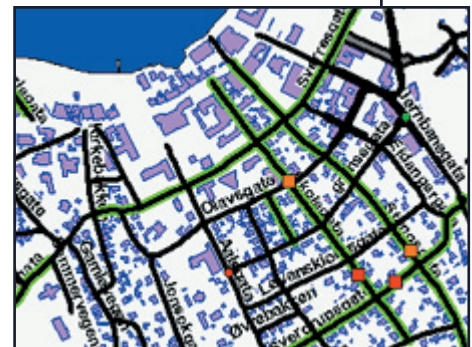
Traffic safety analysis is an important tool for securing and maintaining a survey of the conditions on the roads as regards traffic safety. Coherence between decisions and investments within this area are secured and funds are not wasted on wrong priorities and solutions that may result in reconstructions.

Which roads are important school roads, and where do school children feel unsafe? How about parking areas? Why do we receive so many inquiries from citizens about this particular crossing? Do road-users use the new transport facilities as intended? These questions can be replied on the basis of traffic analyses, e.g. video based traffic behavioural studies, school road analyses, stop interviews, noise measurements or measuring of vibrations caused by traffic humps. Ask Carl Bro Group for further details.

Traffic safety, traffic safety plans, traffic safety revisions “no road fatalities or serious injuries on the road network” is the vision of the Danish traffic safety commission - and we can only agree to this. Carl Bro Group has experience and expertise in traffic safe solutions and preparation of traffic safety plans.



Frequency registrations



Visualisation of accident data in RoSy
MAP

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