



*Åke Gustavsson keeps his local road network under control by means of a database and the Street and Traffic software packages*

## MANAGEMENT OF MUNICIPAL STREETS

**In the municipality of Växjö, Sweden, the staff have been working on their municipal street database for many years. They are planning for the NVDB (National Road Database) and see great benefits in maintaining their road network.**

### Management and Maintenance Planning

We meet Åke Gustavsson, responsible for the maintenance of pavement in Växjö Municipality and ask him how they organize their work.

‘The municipality of Växjö has been using a computerized street register from KORDAB since 1985 and now streets and roads have been stored in GEOSECMA. In the beginning the register was mainly used for the administration of subsidies and collection of statistics, but now management and maintenance are the main reasons for maintaining a database for streets and roads.’

Pavement deteriorates when it gets older because of wear and aging. Because of that a continuous maintenance is required. A good basis of information is a prerequisite if available resources are to be used efficiently and in a long-term perspective.

‘You make a judgement based on your own experience of how bad the pavement is and where the money for new asphalt should be put.’

In the programme part for maintenance you are provided with tools for making prognoses and a strategy for using the current budget. To make an inventory of not only the visible pavement, but also the ultimate bearing resistance and structure, pays in the long run.

### Both a Local and National Road Data Base is Needed

‘We are planning to become suppliers to the NVDB (National Road Database). Because of that we have registered nodes and links in the municipal road network. This has been done with help from staff hired temporarily for the project. The pavements of all parts of each street, footpaths, side reserves, central reserve and kerbs have been registered in the database. Recently we have started to register bridges in “SAFE Bro” and hope we will be able to connect the bridge register to GEOSECMA.’

‘In Traffic we have inserted road accidents, roundabouts and pedestrian crossings with photos, speed humps and traffic count points. These data are used for traffic planning in the municipality but they are also useful to the Planning Office.’

‘20 000 lighting posts, with information on foundations, posts and light fittings have been stored in the database. Nowadays the Technical Department manages these. With GEOSECMA, information on lightings can be made available via the Web and by

means of a palm computer, power suppliers can access this information at fieldworks, for example when changing light tubes.’

‘To get a good overview of speed zones, we have stored these as surfaces with connected speed limits.’

### Placing Post and Road Sign on the Map

‘To a municipality it is a heavy work to keep a record of all road signs. The latest innovation is to use a palm computer to register road signs directly at fieldworks.’

‘Thanks to GEOSECMA we can use a palm computer equipped with GPS to locate ourselves and centre the map to the place we are. We register the road sign and it is immediately stored in the central database. In this way there is a minimum of risk of mistakes. In the future, all changes of road signs in the database can be made directly via the palm computer by the same staff that erect and replace road signs. Attributes are stored and connections to local traffic regulations are made afterwards at the office. Currently about 7 000 road signs have been stored in GEOSECMA.’

‘Our goal is to register the road signs, connect them to the respective traffic regulations and gradually put them on the Web so that everyone can access them. In this way we get a simple and lucid register of local traffic regulations on our intranet.’



*Växjö Municipality is planning to register road signs in GEOSECMA by means of palm computer*



### FACTS: KORDAB

*KORDAB develops the technical information system GEOSECMA. The system is a modern tool for professionals in planning, constructing and management of landscaping installations. Our most important customers are municipalities, rail authorities, consultants and contractors in Sweden and the countries around the Baltic Sea. The KORDAB group was founded in 1982 and is today a leading-edge software development company in the field of urban planning*