

# ÅF-Ingemansson

## Strategic Noise Mapping



During the summer of 2002 a new EG directive came into force. The directive is describing the management and assessment of environmental noise in the European Union in the future. The main purpose of "The European Parliament and the Council of the Council of the European Union directive of 25 June 2002 relating to the management and assessment of environmental noise" is to harmonise the use of indicators and to develop a common methodology for noise calculations.

The work can be divided into three major parts:

- Noise mapping
- Action programme to find adequate measures
- Information to the public

Fields of application for noise mapping

By mapping the environmental noise in large areas a fine tool is obtained to assess the consequences of future changes in a municipality early in the planning stage. The following fields of application for noise mapping could be suitable.

- Following-up of environmental cases
- Supervision of noisy environments
- Forming a basis for research where the relations between noise disturbances and the response of the disturbed is evaluated
- To make comparisons between various regions and areas
- Advanced health-consequence assessment of noise for regional planning
- Pedagogical information to the public
- Noise control

The method is adapted to current standards concerning in-data, methods for noise calculations and output data. Calculations can be handled in commercial programs.

- Input- and basic data can be derived from CAD applications and geographical information systems (GIS).
- Output data is delivered as GIS-data for further processing. The coupling of parameters like population density and noise levels can be very valuable when planning for new housing or infrastructure. The material is easy to publish on the Internet, which makes public access possible.

Reference project:

Södermalm, Stockholm, Huddinge, Stockholm, Lerum, Stockholm City, Mjölby, Gävle, Värnamo, Malmö, Botkyrka, Uddevalla, Danderyd, Kalmar

