

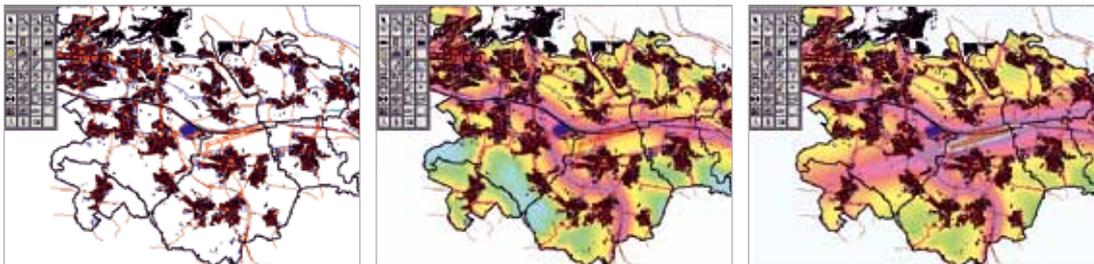
Option XL

Strategic Noise Mapping

Option XL offers a variety of additional and powerful features. It is the perfect tool particularly (but not only) for all kinds of noise mapping of large areas (e.g. for cities) and for the generation of strategic noise maps according to the EC-Environmental Noise Directive (END 2002/49/EG). With Option XL there are practically no restrictions to the size of your project or to the area of the noise map to be calculated.

Option XL therefore includes very helpful tools for the handling of large projects, like the automatic closing of

building polygons when importing data e.g. from CAD drawings, or like the powerful Object-scan feature. Using Object-scan you can sum up any attribute values of selected object types or even the results of user-defined and formula-based combinations of attribute values. With Object-scan complex evaluations can be carried out, like the calculation of the average height of all buildings in a user-defined area or of the number of residents living in buildings lower than 10 m in height who are affected by a certain noise level.



left: Noise mapping area
(185 km² and 100,000
buildings)

centre: Noise map for road
noise

right: Combined noise map
for road and aircraft noise

But Option XL includes even more great features. In order to evaluate noise load, the number of residents exposed to this level is required in addition to the level information. With Option XL population density can be evaluated and displayed on grid maps. Grid maps on noise load are calculated based on this data.

Furthermore, with Option XL conflict maps can be calculated illustrating where the limiting value is exceeded.

The monetary evaluation of noise load is possible with Option XL, too. The increase of value of real estate caused

by noise reduction measures is calculated from the decrease of the rents per dB and m² of living areas (method published by BUWAL, Switzerland). This enables the improvement by noise reduction measures to be expressed, even for complex scenarios, in terms of money and so to rank possible alternatives.

With Option XL you can handle projects of any size conveniently and efficiently.



For more information about
the leading noise prediction
software Cadna A please visit
www.datakustik.com

Features

- Calculation with unlimited number of screening objects
- Object-scan feature with numerous analysis options
- Estimation of population density and calculation of area noise load
- Conflict maps for illustrating where limiting values are exceeded
- Monetary assessment of noise load
- Automatic closing of building polygons on import

Examples



from left to right:

Grid map on population density

Representation of the areal noise load by a grid map



Conflict map showing green areas with no conflict. Legend shows amount of exceedings in the areas of conflict

Grid map with monetary evaluation of noise load. In the blue and red colored areas the highest decreases of rent value occurs

About Cadna A

CadnaA (Computer Aided Noise Abatement) is the software for the calculation and presentation, assessment and prediction of noise exposure and air pollutant impact. Whether your objective is to study the noise immission of an industrial plant, of a mall including a parking lot, of a new road or railway scheme, or even of entire towns and urbanized areas: CadnaA is designed to handle all these tasks.

We look forward to being in touch with you. For further information or any questions please do not hesitate to contact us or one of our distribution partners.



Demo version available
free of charge! Visit
www.datakustik.com



DataKustik GmbH

Gewerbering 5
86926 Greifenberg
Germany

Phone: +49 8192 93308 0
info@datakustik.com
www.datakustik.com