RUNTIME
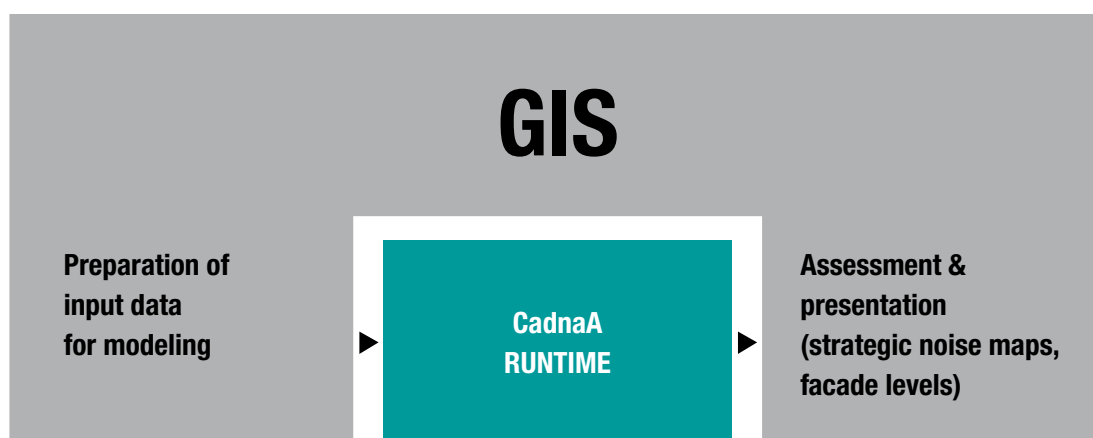
Cadna A®
State-of-the-art
noise prediction software

GIS Integration

CadnaA, the leading noise calculation and noise prediction software, includes the advanced RUNTIME feature for easy integration into GIS systems. CadnaA can be configured to serve as a runtime calculation program of the "silent slave" type. All data required for the calculation of noise maps and noise levels at building facades are prepared within the GIS system. The noise calculation is integrated as an option into the GIS system – the user launches the noise calculation by pressing a single button "Calc Noise".

GIS

Preparation of input data for modeling ▶	**CadnaA RUNTIME** ▶	**Assessment & presentation (strategic noise maps, facade levels)**

All actions are performed automatically without any access required by the user. These actions are:

- Importing shape and database files
- Combining the data to create a complete city model
- Creating an overlaying tile-pattern for the whole area
- Saving this structure in a special directory
- Loading the data for the 1st tile, calculation and saving the resultant data
- Repeating the last step for all tiles
- Loading all partial tile maps and saving the total map
- Exporting the resultant data (grid or facade levels) to GIS system

For more information about the leading noise prediction software CadnaA please visit www.datakustik.com
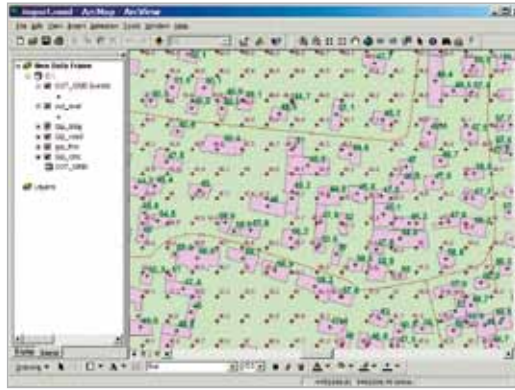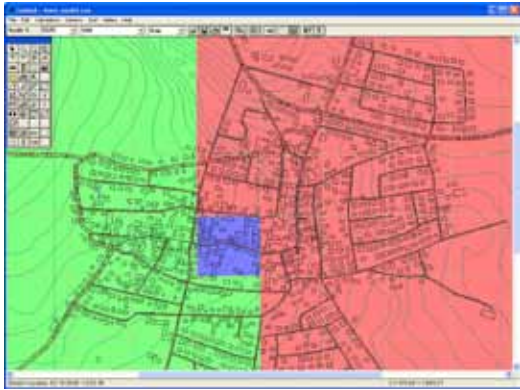
⁜ Features

- Preparation of input data for modeling with established GIS system
- Automatic import of shape and database files into CadnaA
- Automatic combination of files, tiling and calculation
- Fast and accurate calculation strictly in accordance with the selected standards and guidelines
- Progress of calculation displayed by CadnaA PartViewer
- Automatic export of the resultant data (grid or facade levels) to GIS system
- Presentation and evaluation of the noise maps with GIS system

The user who wants a noise calculation or evaluation based on actual data simply has to press the button "Calc Noise". The calculation is done with the well known speed and accuracy of CadnaA. You can follow the progress of the calculation on screen because the entire area is displayed with the calculation tiles – completed tiles are green, tiles currently being processed by CadnaA are blue, and tiles which are yet to be calculated are red.

When a number of processors or computers are linked with the unique PCSP feature, each one processes a tile at its own full level of performance. At the end the entire noise map is exported to the GIS system and presented on the screen.

Left: Displaying progress of calculation by CadnaA PartViewer

Right: Displaying the grid and facade level data calculated by CadnaA Runtime in ArcView

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 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.

CadnaA offers many powerful but easy to use features for a convenient handling of all of your projects. Besides RUNTIME for comfortable GIS integration, CadnaA also includes:

- Dynamic 3D: Experience state-of-the-art 3D visualization. Walk through or even fly over your project model in real-time and edit object data directly in the 3D view.

- DYNMAP: Update any noise map, calculated with CadnaA, based on measurement results in freely definable time intervals for representation of the present noise impact via a dynamic noise map.

- PCSP (Program Controlled Segmented Processing): Parallel processing and distributed calculation in order to reduce calculation time. PCSP with user-defined partitioning allows automatic loading of segments, one by one, for calculation.

- Plot-Designer: Design highly flexible and user-friendly printouts by arranging 3D views, grid maps or any other details of your project as desired.

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

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