

IMMI – ArcGIS



The Idea

Available digitized and edited data are valuable resources. However, the exchange and further use of data is often difficult because it comes in different formats (DBF, DXF, ASCII, etc.). For that reason, valuable resources remain unused or must be re-edited or acquired. The ArcGIS import filter is a data interface which provides a powerful tool for exchanging geo-referenced data between different programs.

The ArcGIS import filter enables the user to process and rework existing data sets that were initially produced with a specific application in mind (such as land-use planning, urbanism, etc.) to make them fit for either noise mapping or air pollution mapping. The process also works vice versa: export an IMMI noise or air-pollution project to integrate the data into an existing database. The advanced bi-directional data-exchange facilities of IMMI provide extensive savings potentials if available geo-referenced data (geometry and alphanumeric data) can be used and re-used. And better yet:

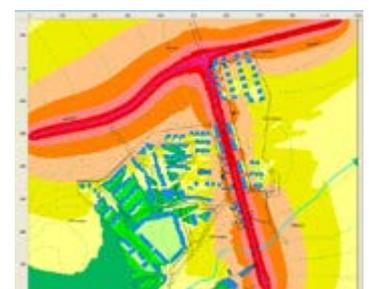
All calculation results can also be exported from IMMI to ArcGIS:

- IMMI elements with all attributes as point-, line- and area-layers
- Import and export of *.prj-files for easy geo-referencing
- Noise maps as point layers, isolines (.flt; .asc; .shp) for all scenarios and rating periods

- Façade levels and reception point calculation as point layers (.shp) for all scenarios and rating periods
- Export of geo-referenced bitmaps

The Solution – Our ArcGIS import filter

Irrespective of your particular requirements, this powerful import filter enables you to read all types of data from ArcGIS: Import both geometry (x, y, z-coordinates) and various attributes (ADT, velocity, inhabitants, etc.). In ArcGIS all data are organized in so-called themes. The import filter enables the user to create a link between a given theme and a given element type in IMMI. The import filter makes sure that the geometry data (x, y, z) from the SHAPE file (*.SHP) are properly imported in the corresponding data structure in IMMI.

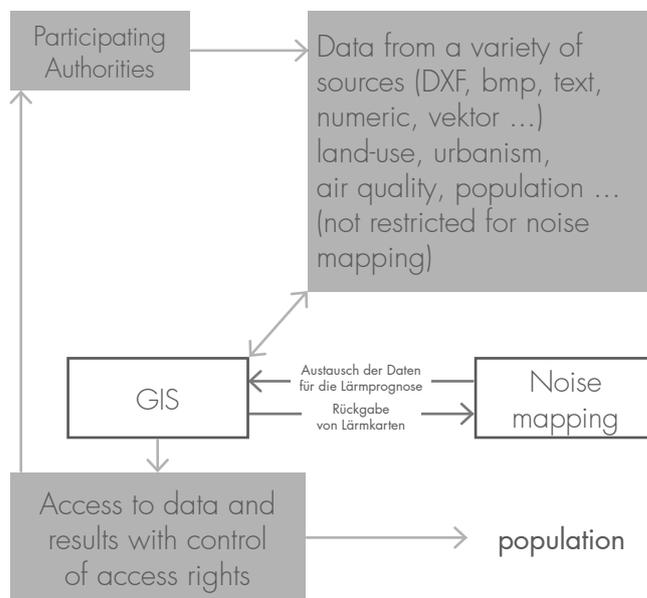




Simultaneously, attributes from the accompanying Base file (*.DBF) are properly assigned to the individual elements. The link between attributes and geometry is stored in the ArcGIS index file (*.SHX).

How it works ...

The geometry is automatically imported and stored if the both units and coordinate systems are normalised. Attributes will be assigned by the user individually per theme (ArcGIS) or element type (IMMI). Filters can be tailor-made by means of userdefined settings, useful filters can be stored for further use. In addition to the export of geo-referenced project data, IMMI also provides means to export calculated results. IMMI noise grids can be output in various formats (ASCII, FLT, SHP, etc.). Geo-referenced background images are fitted automatically. A detailed manual for further reference on the import and export of data is available.



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