

## Digital terrain databases

VR Group develops digital terrain databases for constructive and virtual simulation applications. The databases are based on the National Topographic Data of the Army of the Czech Republic or other suitable sources. The offer covers the whole process of a digital terrain database construction from analysis of customer requirements through a source data analysis and a conversion to terrain database development in required formats.

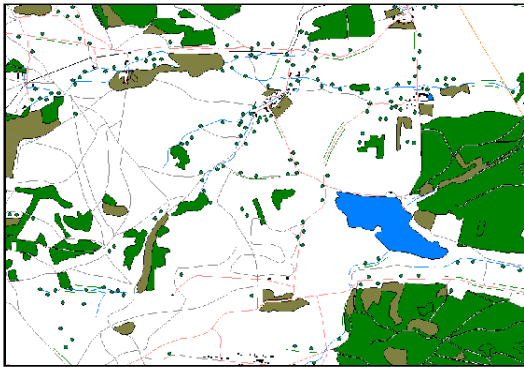


### **Analysis of Digital Terrain Database Purpose**

A full understanding of customer's terrain database application is essential. The process of a terrain database construction depends on the type of simulation (e.g. flight and vehicle simulation) to be used in.

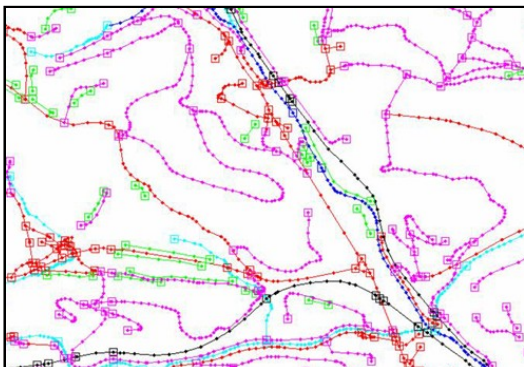
### **Analysis of Available Source Data and Production of New Ones**

Digital geographic source data has to be analyzed so that they meet requirements on the application purpose. Necessary data including their attributes are selected from the source data following predefined rules. Any missing data and information are constructed from other available sources.



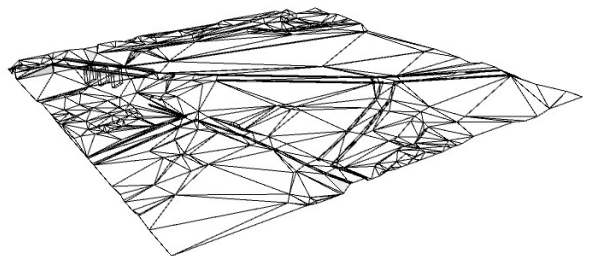
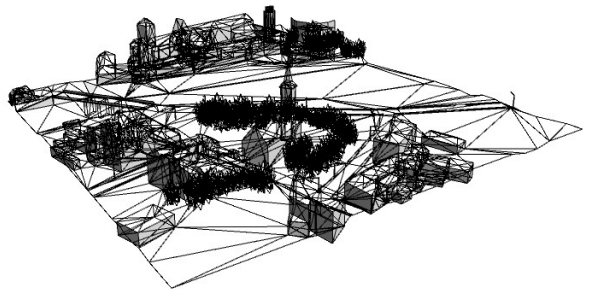
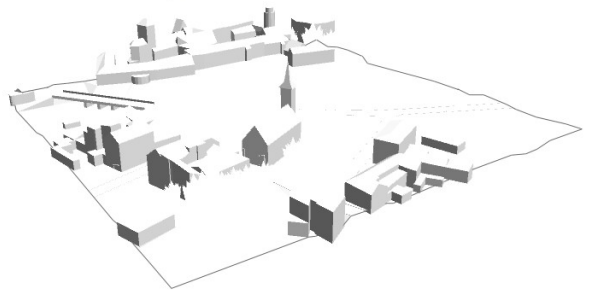
### **Source data processing**

The volume of digital geographic source data is relatively big especially for large area digital terrain databases especially if simulation applications require real time data processing therefore it is important to minimize the volume of source data, especially any redundancies. VR Group has developed a set of tools for data defragmentation and generalization.



### **Production of Digital Terrain Databases**

Production of digital terrain databases for constructive and virtual simulation applications in required formats including testing within a customer's simulation applications. VR Group experts have deep experience with CTDB-ModSAF/OTB, OpenFlight, mdx-MetaVR digital terrain database formats constructions.



### **Development of Specialized Conversion Tools and Utilities**

VR Group offers to develop specialized tools for digital data and digital terrain databases conversions based on customer's requirements.