advangeo®

Prediction Software

powered by

Arc ESRI **GIS**

Digging Deeper into Your Data.

Fully GIS integrated and easy to use.

System requirements:

› Windows® XP SP 2, Vista
› ESRI ArcGIS with last Service Pack
› ESRI® Spatial Analyst
› ESRI.Net-Support

advangeo® is Winner of the GDI Sachsen e.V. GIS-Award 2009.

Supported by BMWi (German Federal Ministry of Economics and Technology)
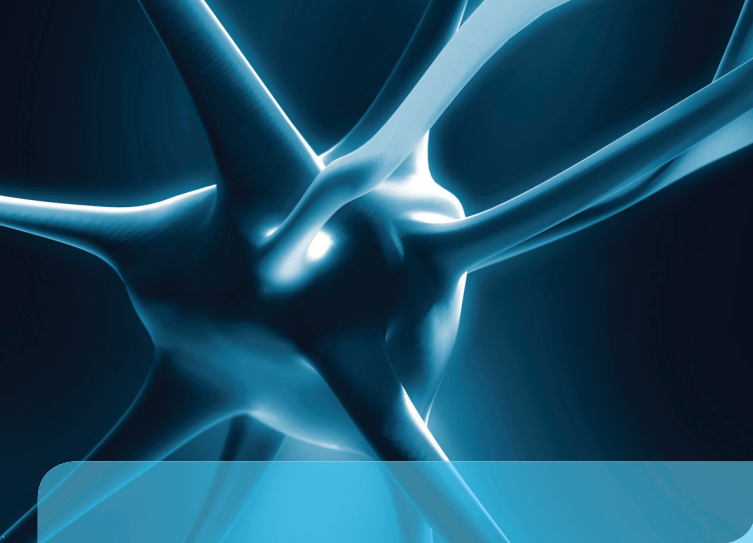
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advangeo®

Prediction Software

Geospatial Prediction Using Artifical Intelligence and GIS

beak CONSULTANTS

Features:

› Statistical Analysis and Prediction using Artificial Intelligence
› Workflow Support for Data Processing and Model Design
› Tools for Data Processing
› GIS-Functionality and Visualization
› Metadata Management
› Geospatial Data Management

Workflow:

❶ **Data Collection**
❷ **Data Preprocessing & Preparation**
❸ **Network Training**
❹ **Validation**
❺ **Model Application**
❻ **Presentation**
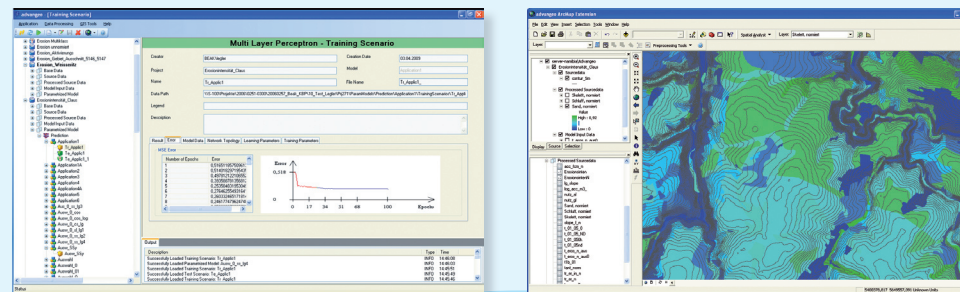
Based on Neural Networks

The evidence of an event is controlled by complex cause & effect relationships. Numerous parameters contribute to the appearance and magnitude of the event. Artificial Intelligence helps to analyze the causal relationships and uses them for predictive purposes.

advangeo helps to predict complex geospatial events like:

› Landslides & Erosion Processes
› Rock Falls & Avalanches
› Geohazard caused Damages
› Mineral Deposits
› Spreading of Diseases & Rodents
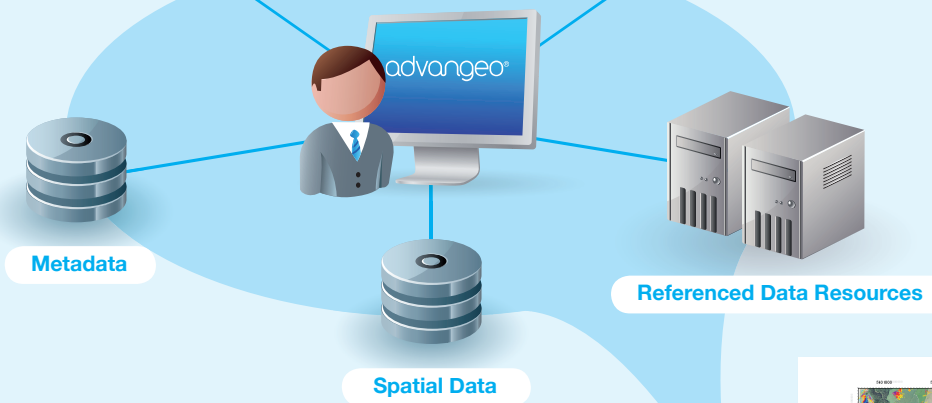› Biotope Structures and Biodiversity Issues

advangeo can be used for mapping purposes in:

› Geology
› Soil
› Land Use & Forest
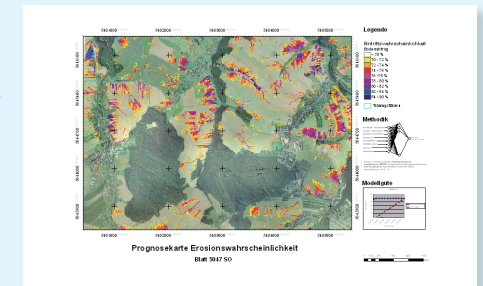› Biotope Structures & Biodiversity
› Hydrology & Hydrogeology

Data and Model Explorer

GIS Extension

Metadata

Referenced Data Resources

Spatial Data

advangeo's components

Prediction Presentation