

powered by



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)

advangeo®

Contact us:

Beak Consultants GmbH
Am St. Niclas Schacht 13
D-09599 Freiberg / Germany
Tel. +49 (0)3731 78 13 50
Fax +49 (0)3731 78 13 52
info@advangeo.com
www.advangeo.com

© 2009
advangeo® is a registered trademark
of Beak Consultants GmbH, Germany.

Geospatial Prediction Using Artificial Intelligence and GIS





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:

- 1 Data Collection
- 2 Data Preprocessing & Preparation
- 3 Network Training
- 4 Validation
- 5 Model Application
- 6 Presentation

Based on Neural Networks

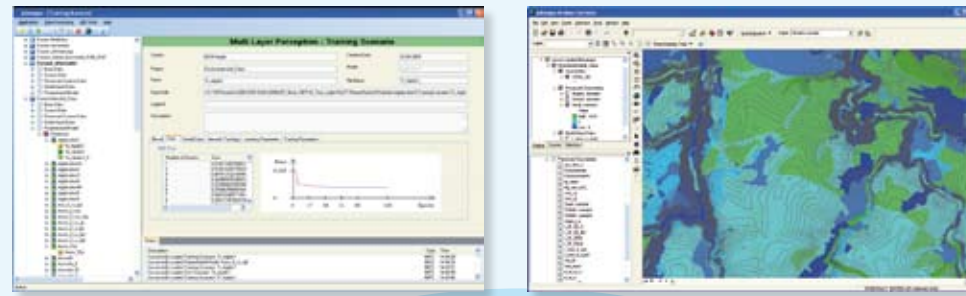
The evidence of an event is controlled by complex cause & effect relationships. Numerous parameters contribute to the appearance and magnitude of the event. Artificial Intelligence helps to analyze the causal relationships and uses them for predictive purposes.

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

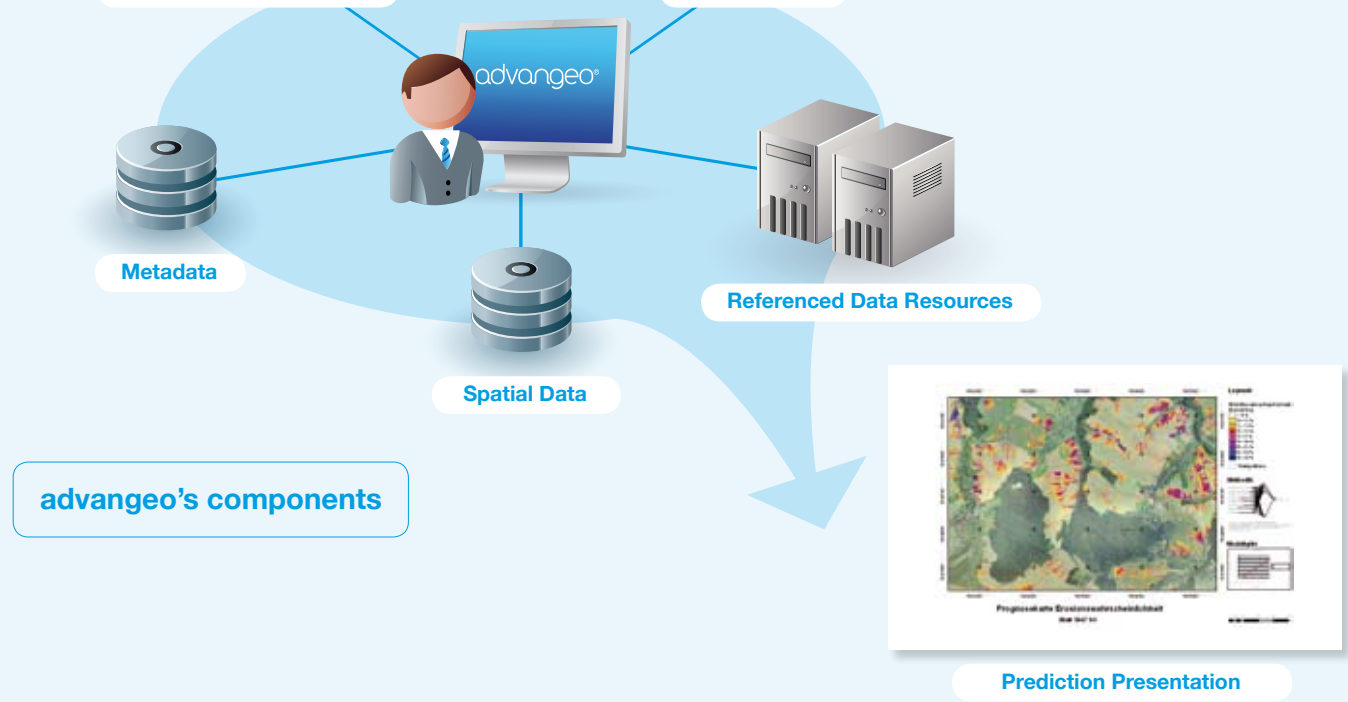
advangeo can be used for mapping purposes in:

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



Data and Model Explorer

GIS Extension



advangeo's components

Prediction Presentation