advangeo®



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)

DOVOC

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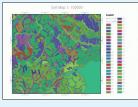
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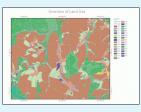


Prediction of Rainfall Generated Soil Erosion

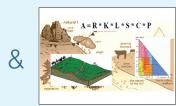


Source Data









Knowledge of **Controlling Parameters**

Source Data Processing

Process Features:

- > Rainfall generated
- Soil Erosion & Loss
- Surface Water Pollution
- Damages to Infrastructure and Construction

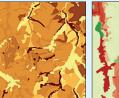
Soil Data

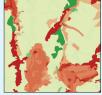
Land Use Data

Terrain Model

Available Datasets

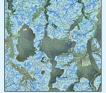
2 Model Input Data



















Silt, Sand, Clay, Skeleton ...

Terrain Model: Slope, Flow Accumulation, Curvature ...

Land Use: Cropland, Grassland, Forest ...

Training Pattern: Known Erosion Sites

Controlling Parameters



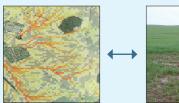
Soil Composition:





6 Presentation

4 Validation

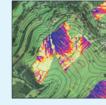




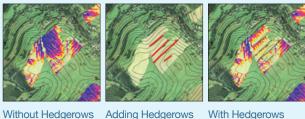
Model Output

6 Model Application

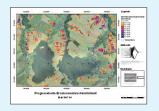
Simulation of Prevention Measures: Adding of "New" Hedges as Flow Barriers











Map of Erosion Probability