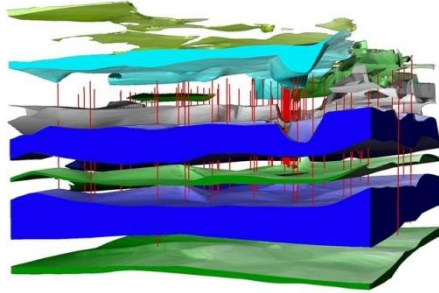


# Communicating 3D Geological Models – Innovative Techniques of Visualization

Peter Wycisk & Lars Schimpf

Barcelona 2015





**Staßfurt / Salt-Mining\* 38km<sup>2</sup>**

**Bitterfeld 65 km<sup>2</sup> / 315 km<sup>2</sup>**

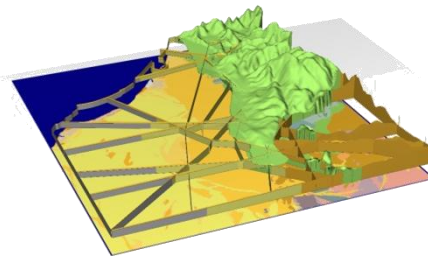
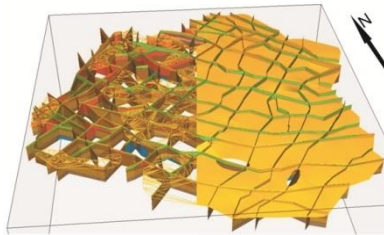
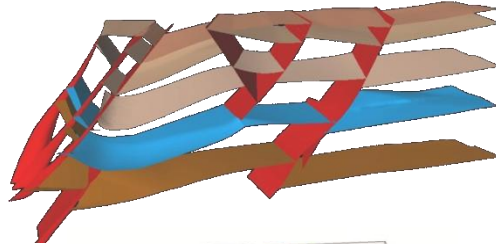
**Halle (Saale) 135 km<sup>2</sup>**

**Magdeburg\* 195 km<sup>2</sup>**

**Berlin\* 892 km<sup>2</sup>**

**Lower Saxony 1.500 km<sup>2</sup>**

**Egypt / UAE > 2.000 km<sup>2</sup>**



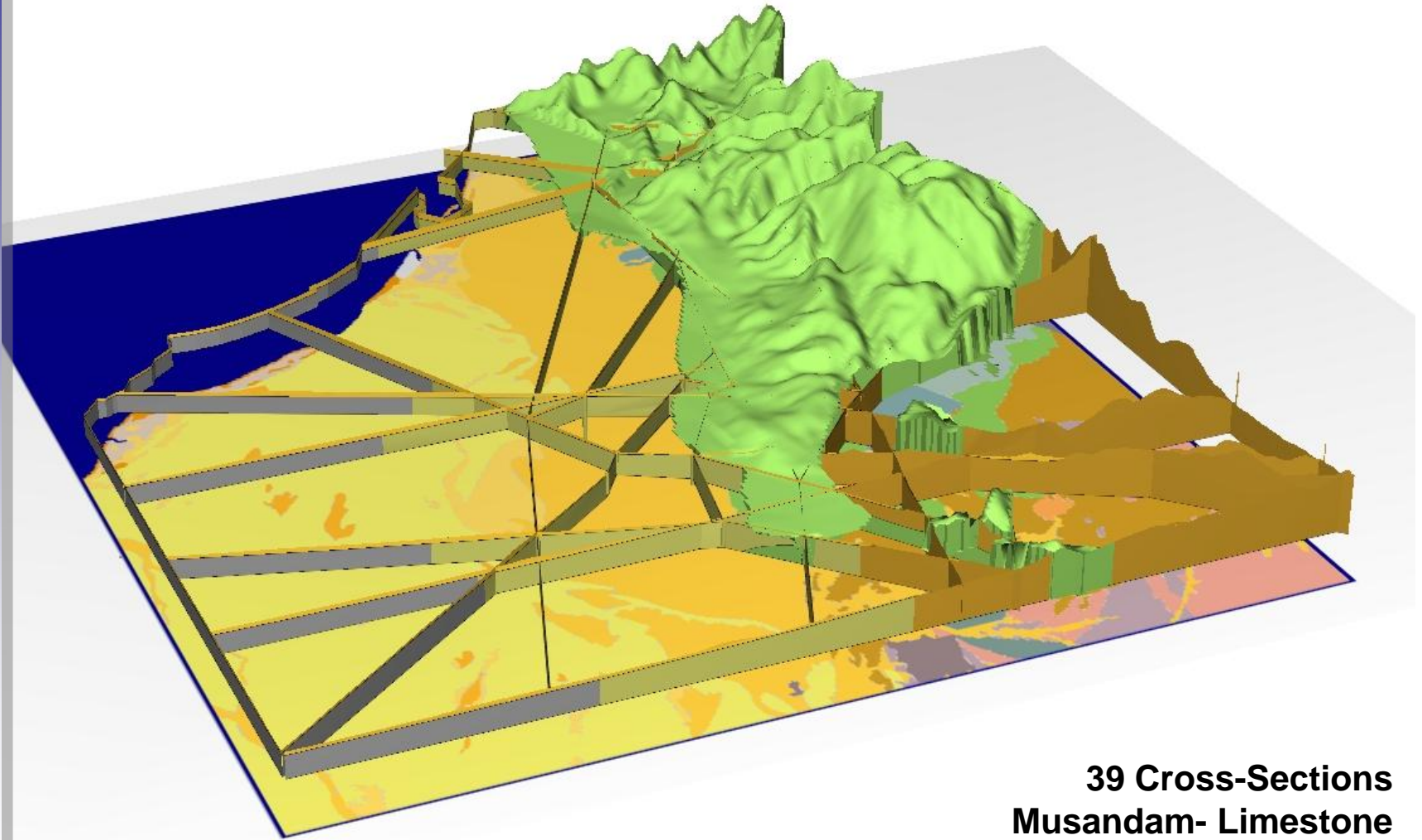
**\* Co-operative Projects**

**3D Move, MVS, GSI3D, GMS, GOCAD, FeFlow, Modflow, ArcGIS**

**Martin Luther University Halle-Wittenberg**



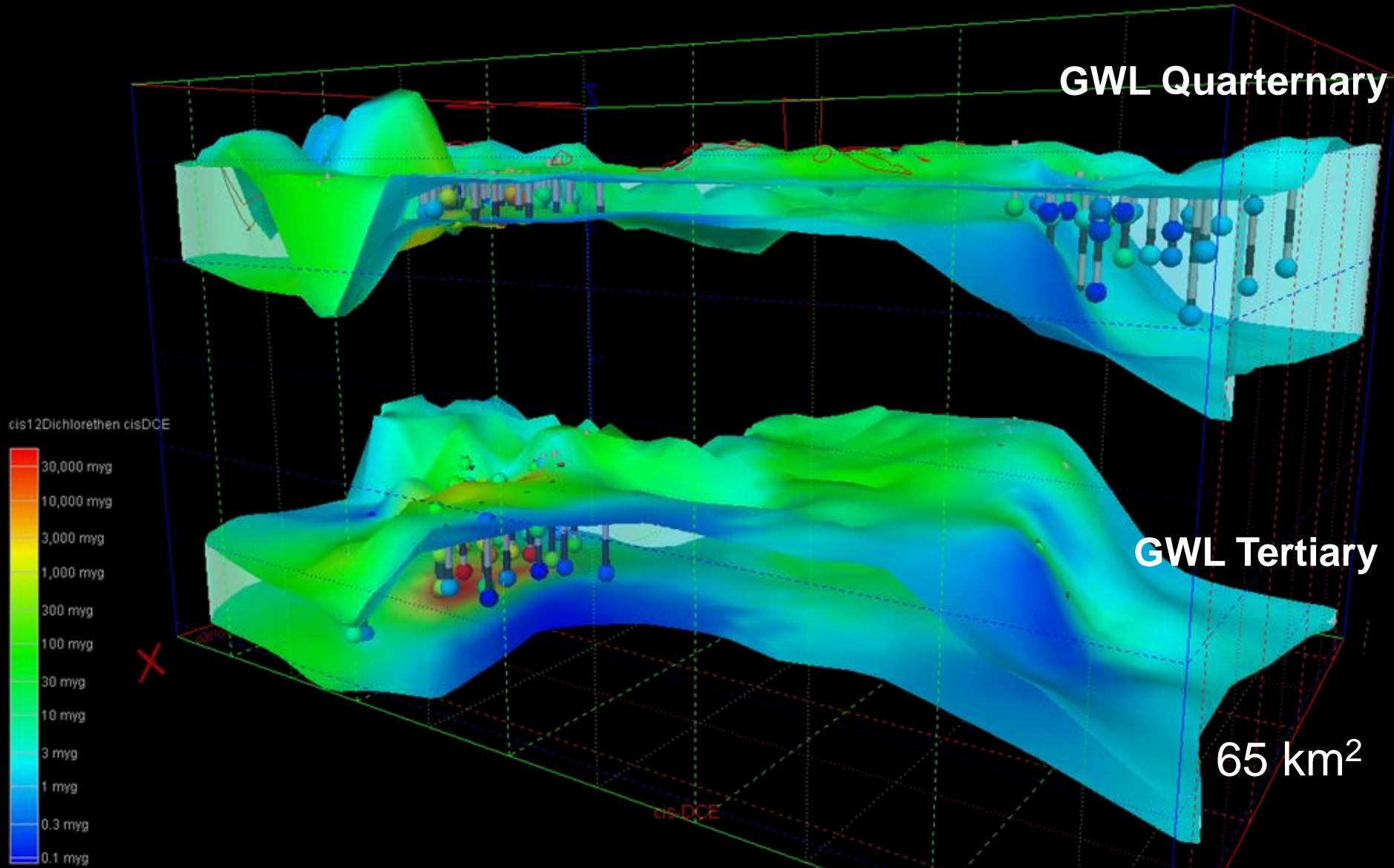
# Structural Model Khatt Spring UAE



**39 Cross-Sections  
Musandam- Limestone  
Exaggeration 3x**



# Integration of hydrochemical Data

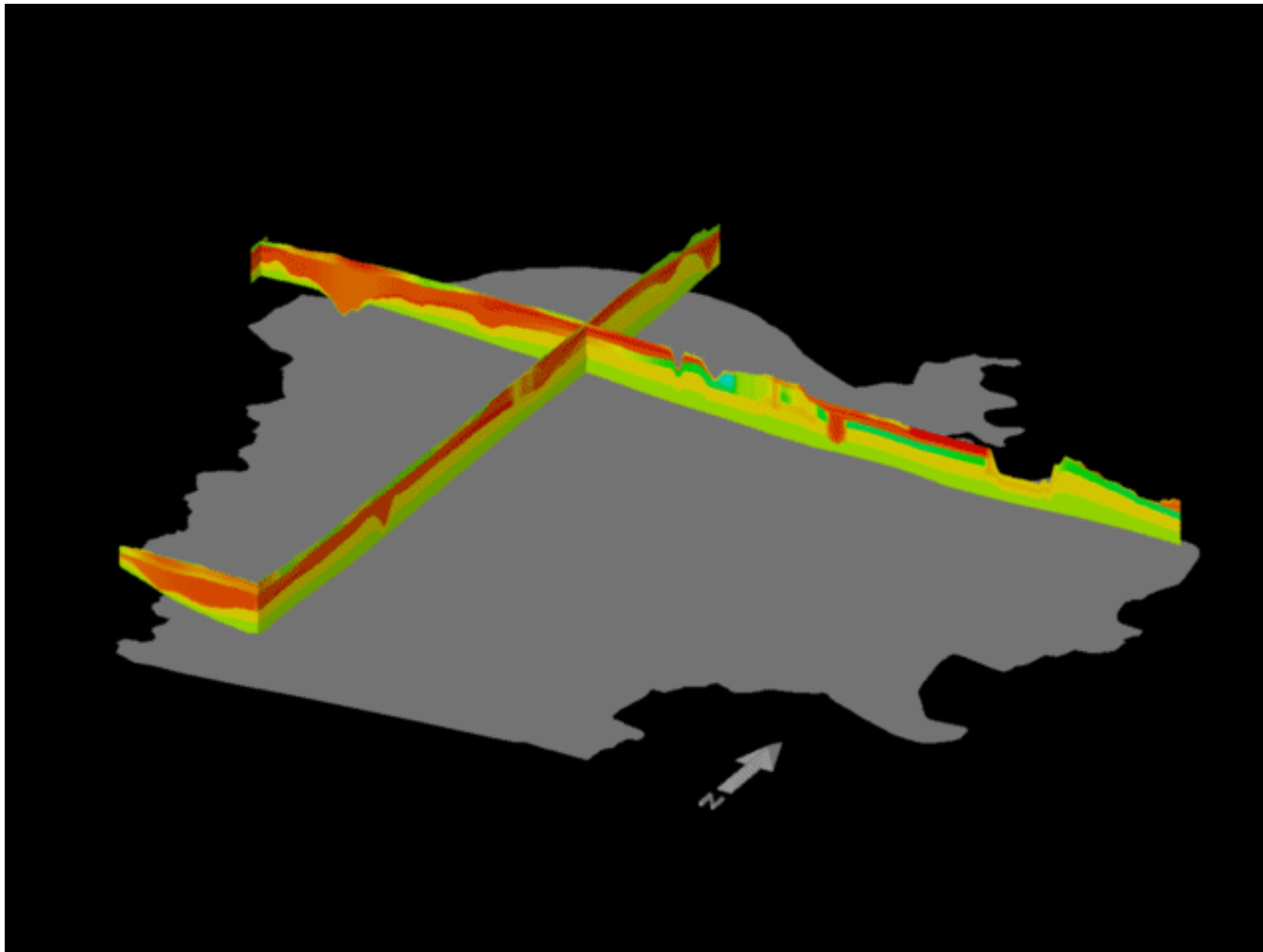


T. Hubert / T. Steinmetz

cis1,2 DCE -Distribution

MVS / EVS

# Animated Cross-Sections



Gossel,  
Hubert  
(2009)









# Lenticular 2-phase flips



Martin Luther University Halle-Wittenberg





# Lenticular 2-phase flips

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# Lenticular 2-phase flips

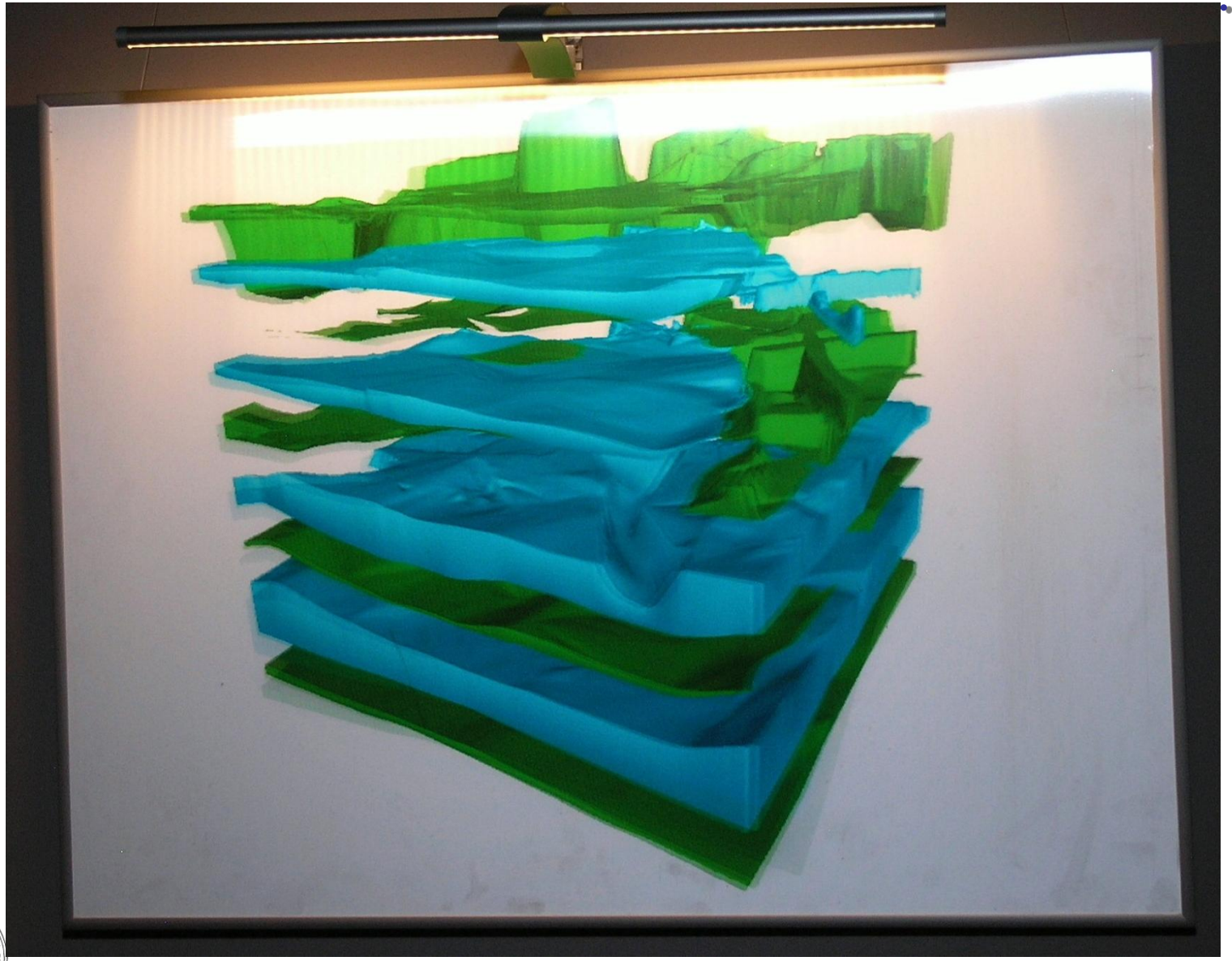
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[www.3d-geology.de/3d\\_geostripping/](http://www.3d-geology.de/3d_geostripping/)



# Lenticular 3D-Flips

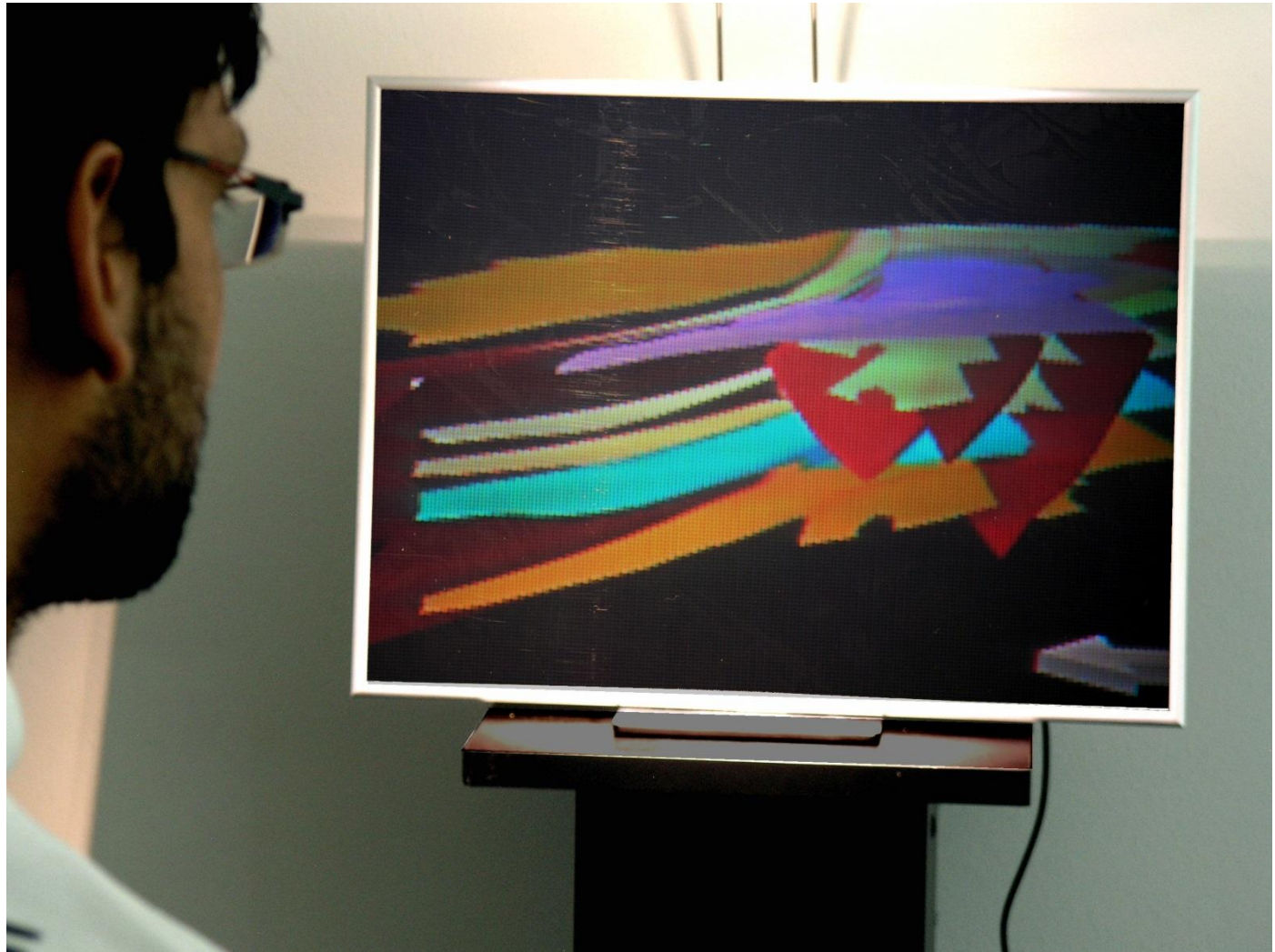


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# 3D True Colour Hologram



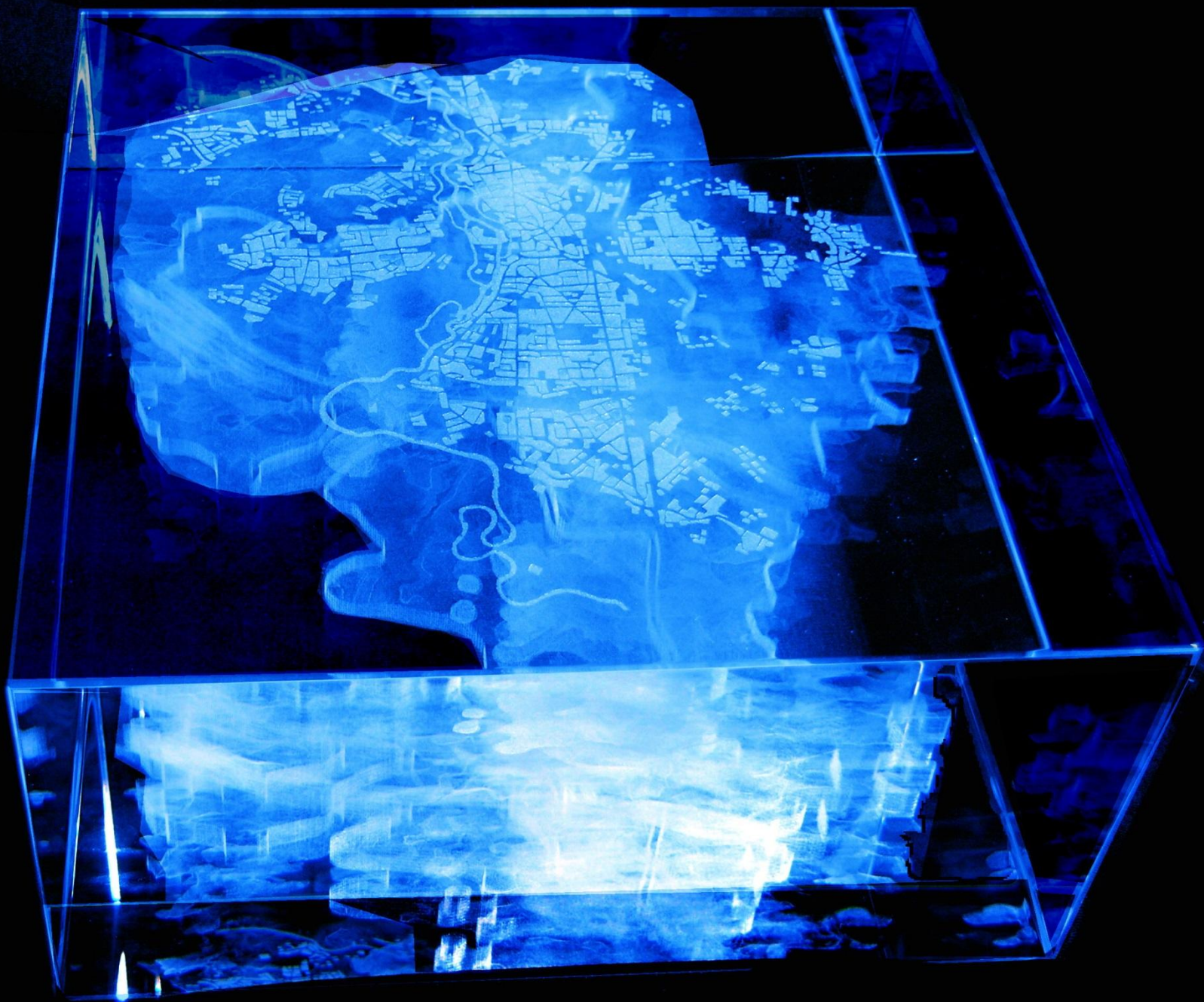
i-Lumogram images GEOLIA Ltd.

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Model: J. Rienäcker (2011)  
Rendering: F. Wittig

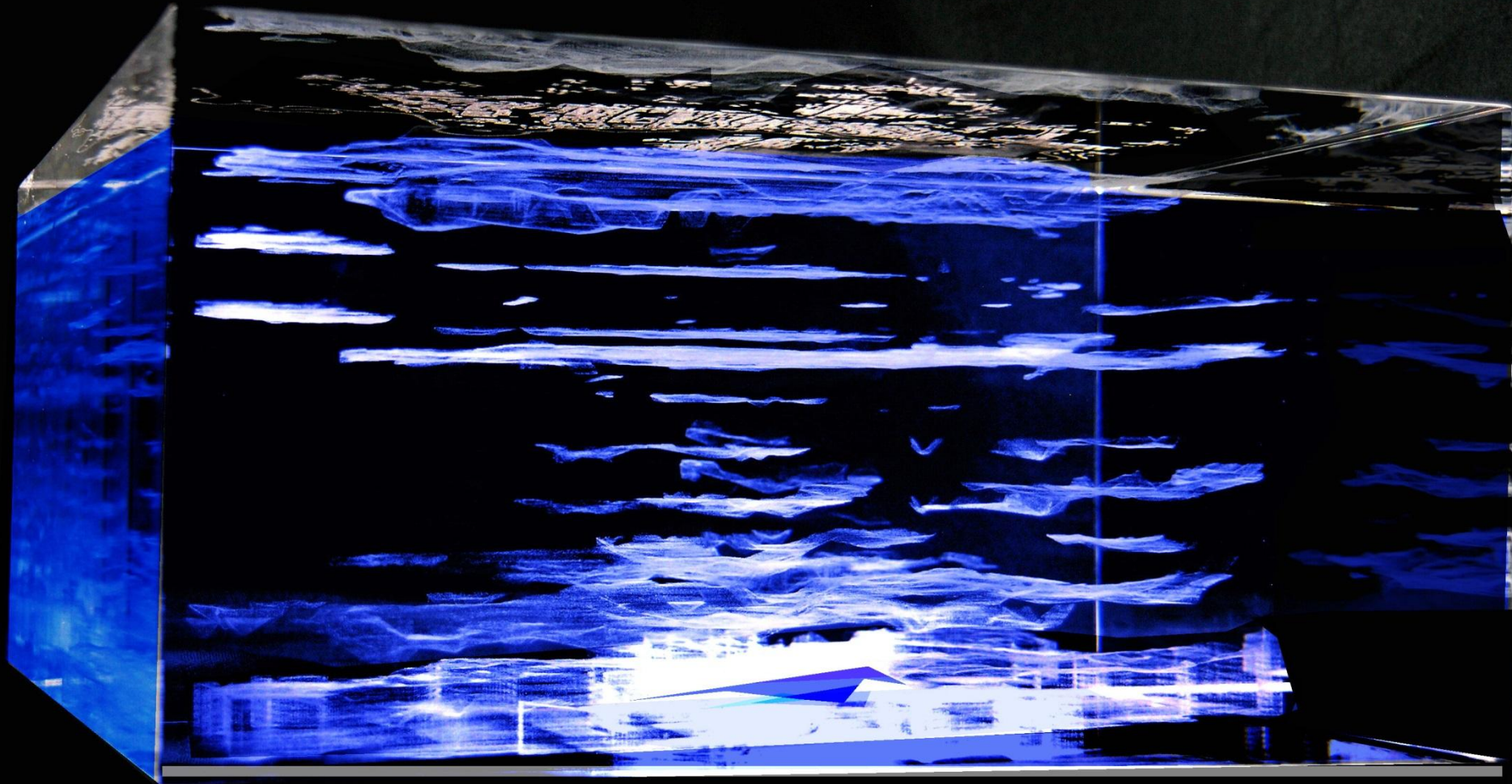


# Glass Laser Engraving Models Halle (Saale)





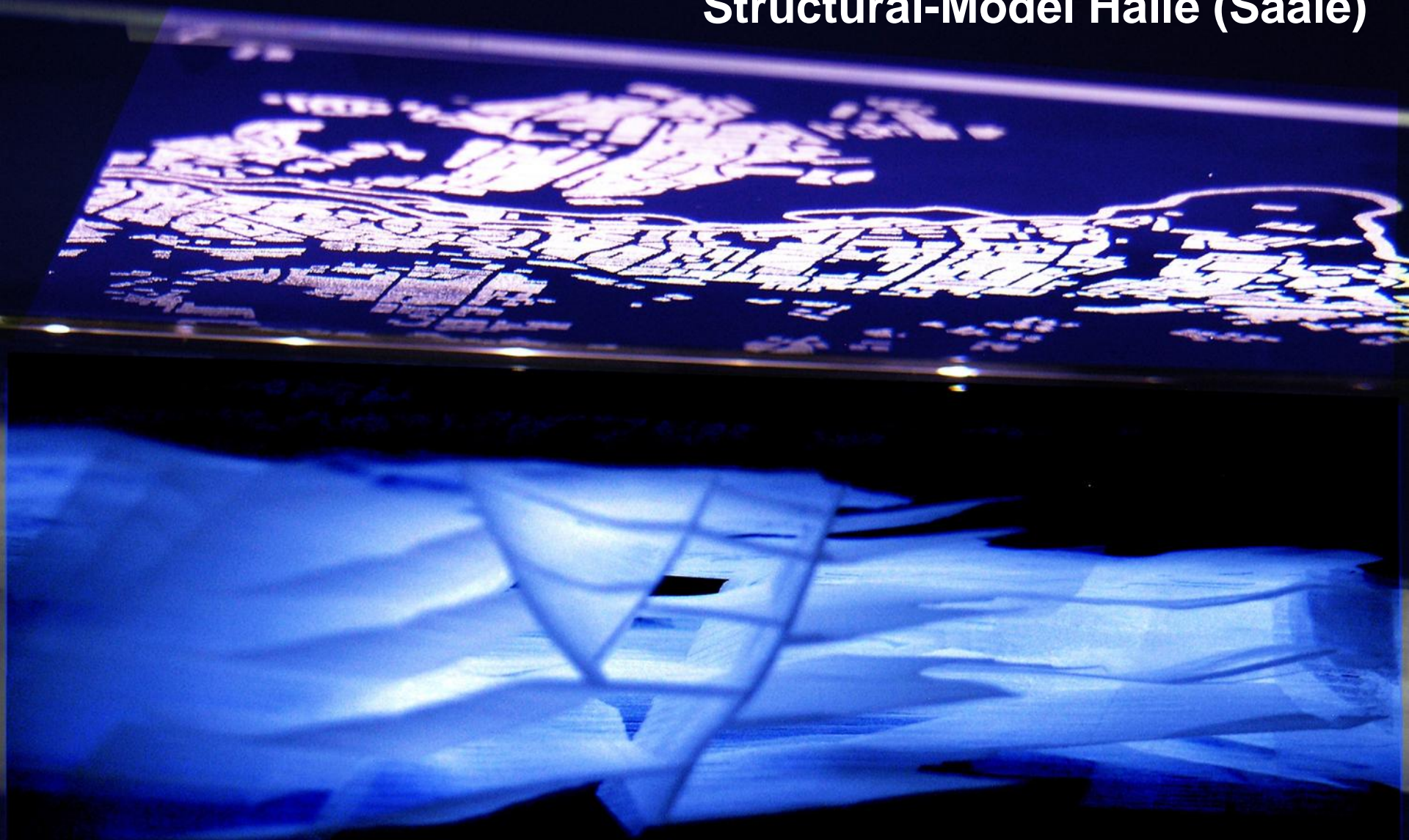
# Glass Laser Engraving Models Halle (Saale)



Model: D. Schlesier  
Laser-Engraving: Starglas



# Structural-Model Halle (Saale)



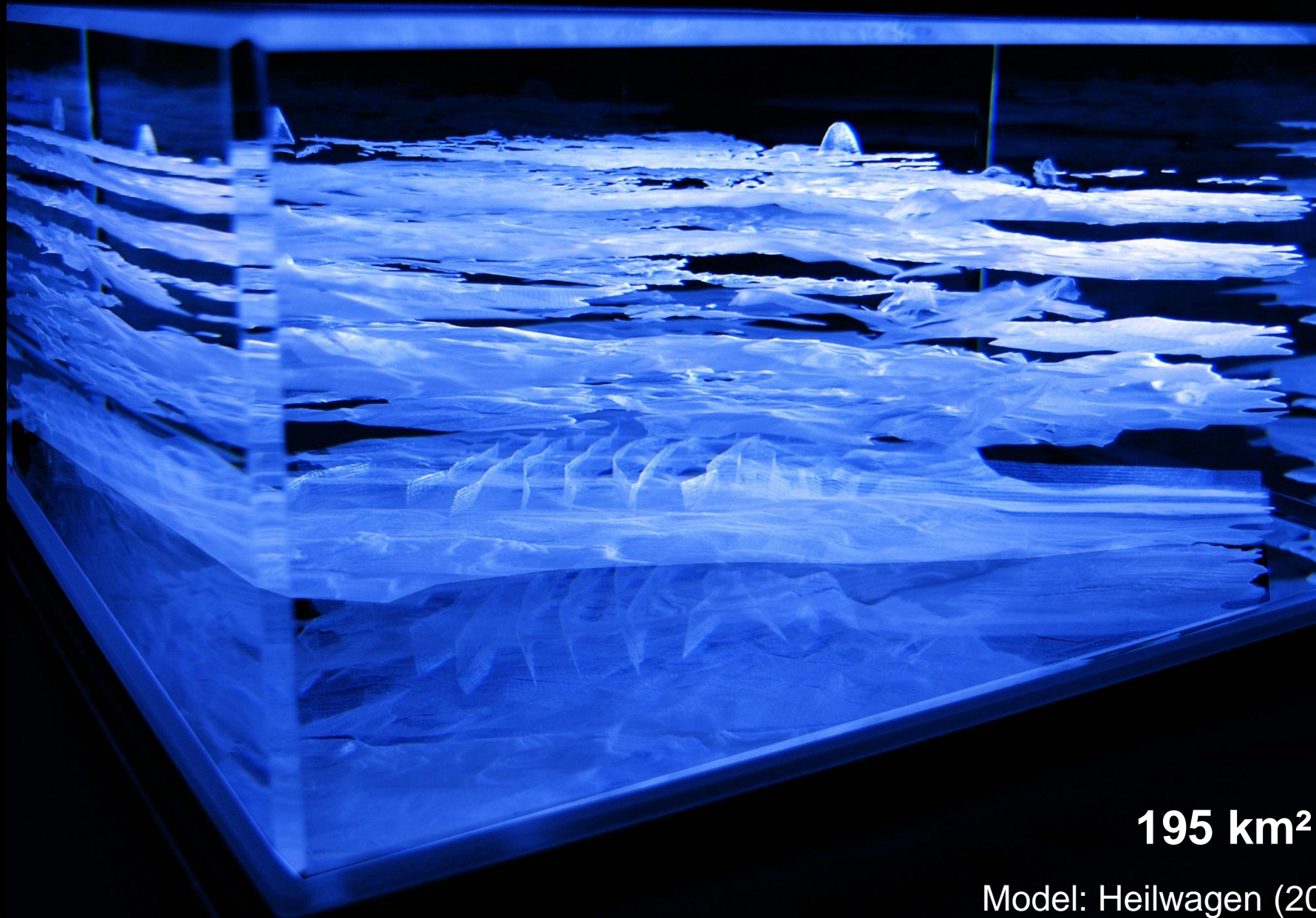
**135 km<sup>2</sup>**

Model: J. Rienäcker (2011)

Laser-Engraving: Starglas



# Structural-Model Magdeburg

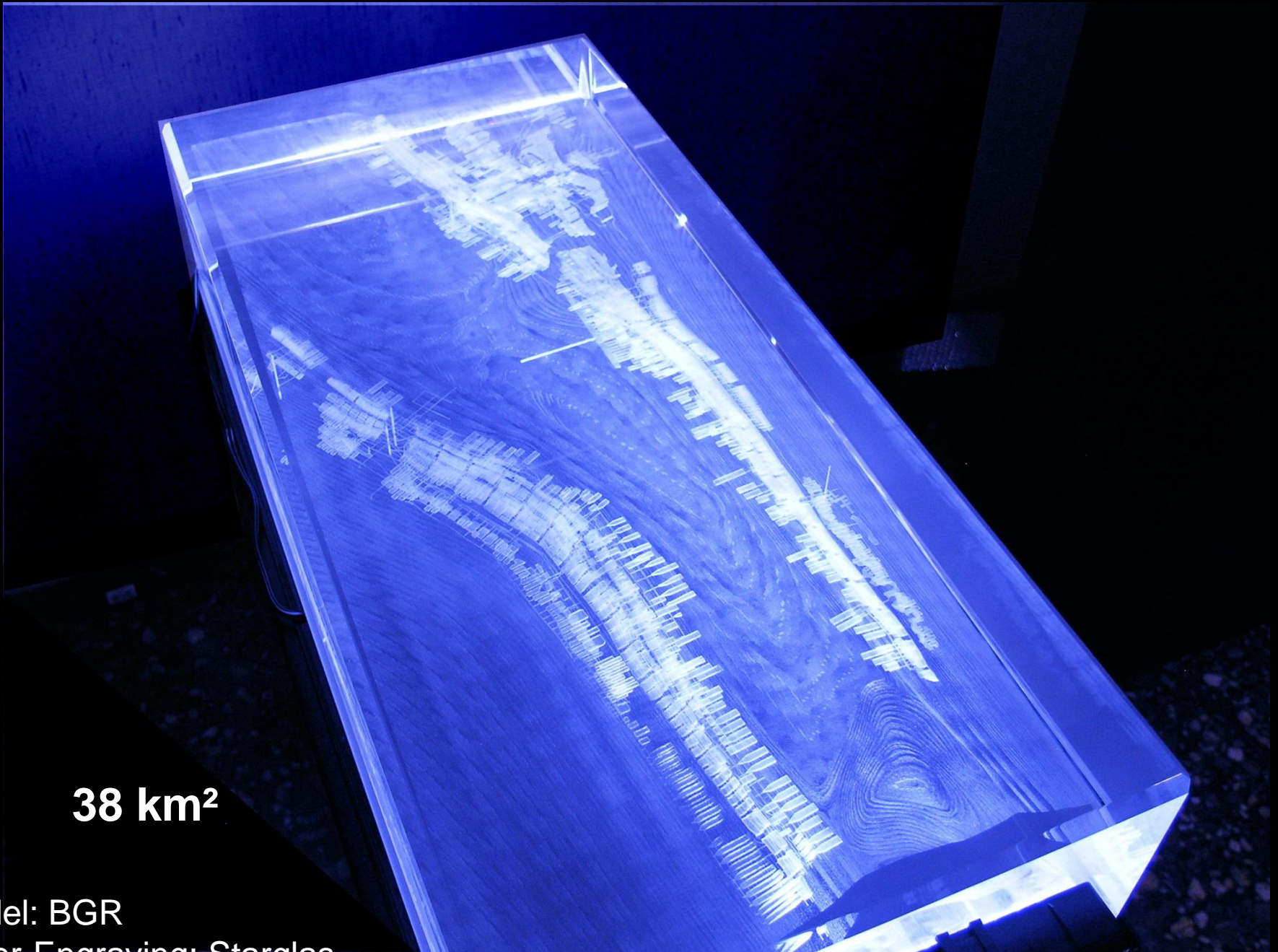


**195 km<sup>2</sup>**

Model: Heilwagen (2011)



# 3d-Model Saltmining Staßfurt



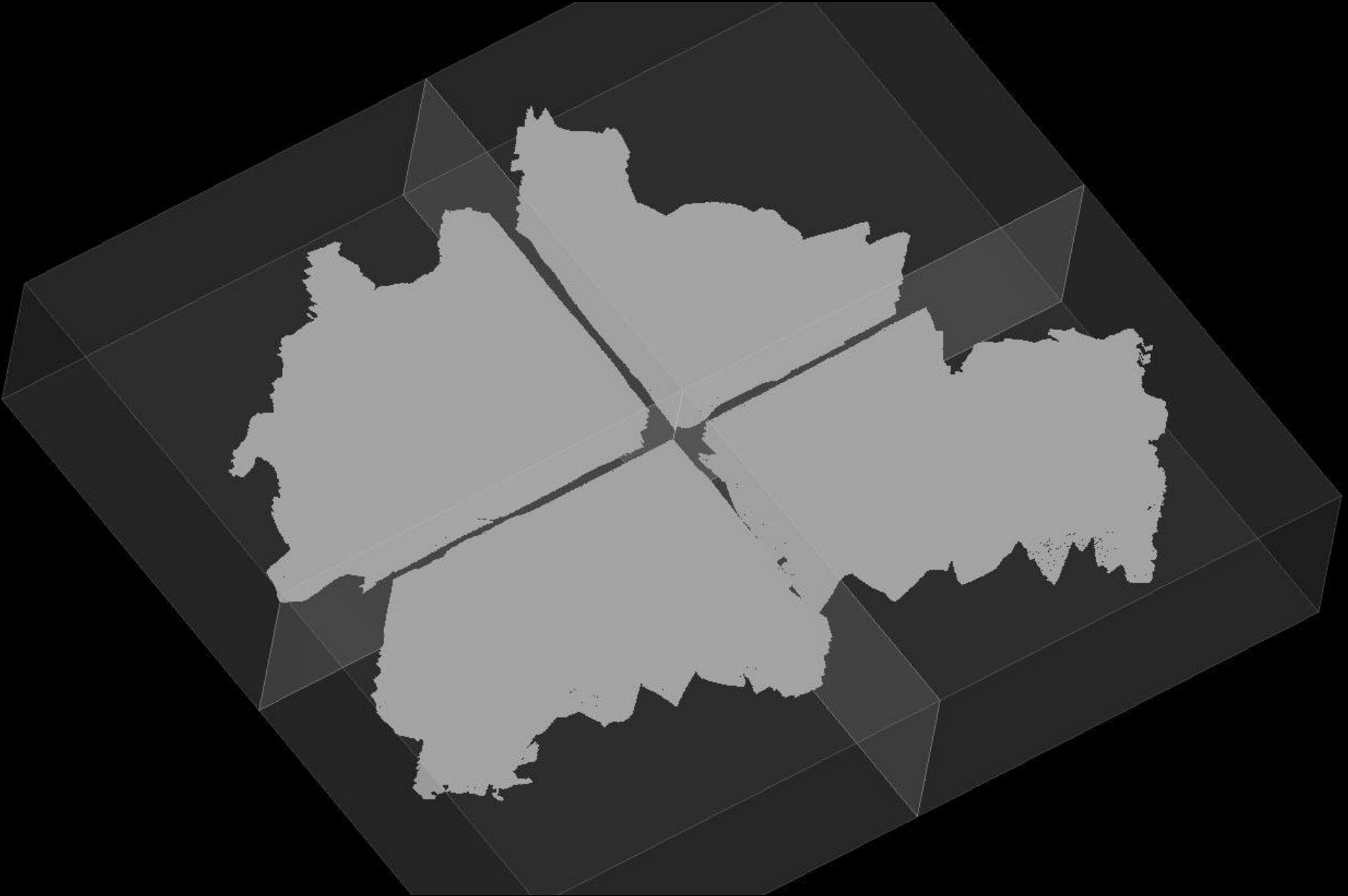
**38 km<sup>2</sup>**

Model: BGR

Laser-Engraving: Starglas



# Preview: Berlin-City





**3D Models –  
new options and future challenges**

**Thanks for your  
Attention**

**[www.3d-geology.de](http://www.3d-geology.de)**

**Deutschland  
Land der Ideen**



Ausgewählter Ort 2012