

# Welcoming Address 20th International Conference on Information Technologies in Landscape Architecture

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### Locations

**HSA** 



### Bernburg

- Business studies
- Environmental orientated programmes of study

#### Dessau

- creative branches of study (architecture and design)
- along the lines of the Bauhaus tradition

#### Köthen

- Engineering and computer sciences
- Since 1891 education in engineering







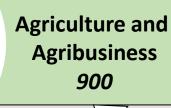


Nature Conservation 300



Landscape Architecture and Environmental Planing 250









# Landscape Architecture - Campus Strenzfeld















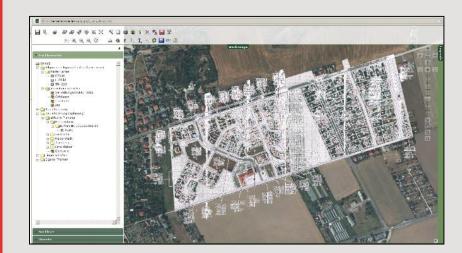






# Research Group Geoinformatics and Remote Sensing

- GIS and Remote Sensing in Environmental and Urban Planning
- Change detection
- Monitoring
- Standardization in Planing
- Development of Geo-Webapplications/E-Government- Applications
- Smart City / Smart Region Applications
- GIS in Partizipation

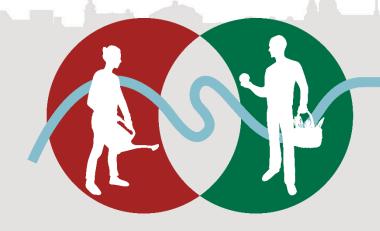












### stadt PARTHE land

Kulturlandschaftsmanagement als Brücke zwischen Metropole und ländlichem Raum

Management of cultural landscapes – mitigation measures on farmland

















### Habitats

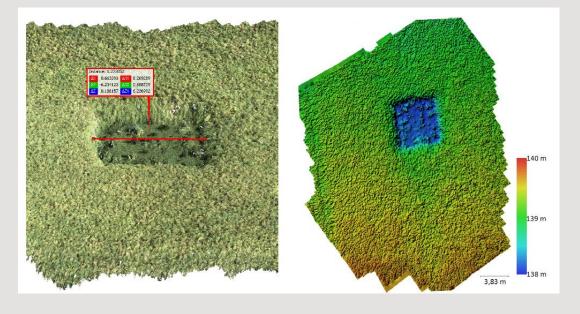
- - **HSA**

- Detection and localisation of ground breeders (e.g. skylark)
- Implementation and maintenance
- Habitat quality



Skylark plots





Digital surface modell of skylark plots

# Using Social Media and Web GIS Application for Geodesign Purpose

CityPlanner for Bernburg: integrated with visualization, information and social networking







# Product- and Technology Development

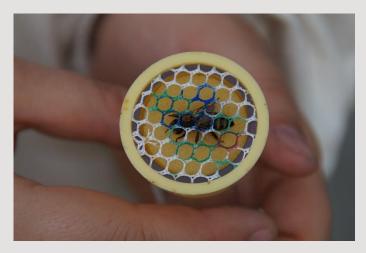


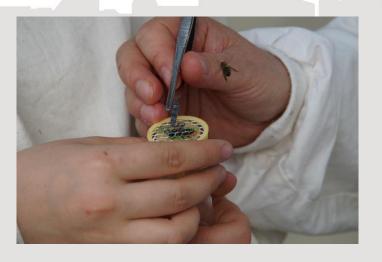


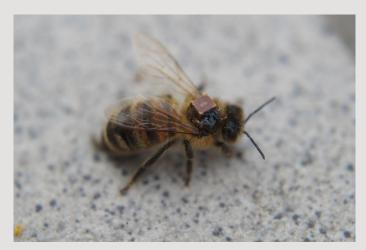


# Transparency for the Consumers









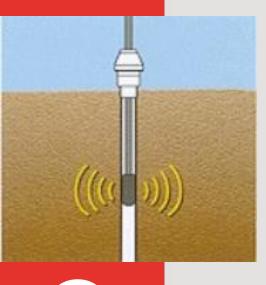
### Field Research: Global Warming/Dry Resistance

Mobile Soil Humidity measurement Diviner 2000® (Sentek Sensor Technologies)

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• Frequenz Domain Reflektometry (FDR)





## Central German Lignite Mining District

**Central German** mining district Tischew 2004, Tischew & Kirmer 2007, Kirmer et al. 2013, Landeck et al. 2017

- In the early 90ies most mines in eastern Germany were closed
- In the Central German lignite mining district, c.
   6 million t lignite was mined and c. 15 km<sup>3</sup>
   overburden was moved on 512 km<sup>2</sup>
- Until the early 90ies, almost 50 % of the surface-mined land developed via spontaneous succession due to economical reasons
- Comprehensive studies on spontaneous succession and assisted site recovery since 1994

### Potentials on landscape level result in ...



... structure- and species-rich biotope mosaics after 1-2 decades



### **Greening with standard seed mixtures**



### Regional Development

**HSA** 







EUROPÄISCHE UNION

**ELER** 

Europäischer Landwirtschaftsfonds für die Entwicklung des ländlichen Raums

HIER INVESTIERT EUROPA IN DIE ZUKUNFT UNSERES LANDES.

www.europa.sachsen-anhalt.de





### **Public Relations**



























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