



gain<sup>®</sup>

# Planning the next generation

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- **gein® =**  
**German Environmental Information Network**
- Portal to German environmental issues
- More than **90** suppliers of environmental information from governmental authorities and other public institutions at the federal and state levels
- more than 310.000 individual Web pages
- 9 database interfaces (dynamic Web content)

- **UDK = Umweltdatenkatalog**  
**Environmental Data Catalogue**
- Metadata component of gein®
- About 30.000 Datasets in Germany
- About 15.000 Datasets in Austria

- More than 12 years development
- 1991 - 1995 research and development project
- Since 1993 cooperation Austria - Germany
- 1996 - 2002 administration agreement UDK
- Since 1996 coordination centre UDK in Hannover (Lower Saxony / Germany)

- 1998 - 2000 research and development project of the Federal Office for Environment Protection
- Presentation on the Expo 2000 in Hannover (Germany)
- Since January 2003 administration agreement UDK/GEIN
- Since January 2003 coordination centre UDK/GEIN

- New surface of gein<sup>®</sup>
- Same database for gein<sup>®</sup> and UDK
- New technology for the application (tomcat)
- Outsourcing to a professional provider



**THE PORTAL** *for environmental issues*

Environmental Information from German Authorities

Home    about gein    active    help/FAQ    deutsch    imprint

### SEARCH

**in 306608 Websites and 9 Databases from German authorities**  
Please type in any keywords or whole phrases  
(e.g. from the clipboard).

Date of the last index update: 07.09.2003 01:27h

**Search with retrieval assistant**  
Propose search terms by means  
of the inputted search items

Search proposal in

**Full text search**  
Simple search with the  
inputted search items

Earlier used search items

Find results...

#### WHAT'S NEW

Latest News from:  
04.09.2003

[News](#),  
[Data](#)

#### TOPIC PAGES


Browse 42 selected  
Topic pages

[General and interrelated environmental questions](#)  
[Waste](#) [Soil](#) [Chemicals](#) [Energy/Raw materials](#)  
[Food/Agriculture](#) [Genetics](#) [Health aspects](#)  
[Noise/Vibrations](#) [Air](#) [Nature/Landscape](#) [Radiation](#)  
[Environmental law](#) [Economics](#) [Water](#)

#### CHRONOLOGY

Browse the  
Environmental chronology

When did Chernobyl actually happen,  
when did the Rio Conference take place?  
[Browse here...](#)



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## RETRIEVAL ASSISTANT

**input:**  
naturschutz in Hessen naturschutz  
nature conservation

**analyzed:**  
[naturschutz, Hessen, nature,  
conservation]

[Back to search page](#)

Your search text was analyzed and the following terms have been found:

Topic	Area	Time
<b>Shown:</b> 10 of 64 Entries	<b>Shown:</b> 7 of 7 Entries	<b>No dates found.</b>
<b>Please select one or more topics for the query:</b>	<b>Please select one or more topics for the query:</b>	You have the following possibilities: <ul style="list-style-type: none"><li>- Change your search input</li><li>- Use the full-text search</li><li>- Insert further dates</li><li>- Help/FAQ contains further hints</li></ul>
no additional terms found	<input type="checkbox"/> <a href="#">Borken (Hessen)</a> community	<b>add date</b>
<input checked="" type="checkbox"/> <a href="#">nature conservation</a>	<input type="checkbox"/> <a href="#">Friedberg (Hessen)</a> community	<input type="text"/>
<input type="checkbox"/> <a href="#">Landesbehörde (Hessen)</a>	<input type="checkbox"/> <a href="#">Lauterbach (Hessen)</a> community	<a href="#">add</a>
<input type="checkbox"/> <a href="#">resource conservation</a>	<input type="checkbox"/> <a href="#">Neustadt (Hessen)</a> community	<b>Find results...</b>
<input type="checkbox"/> <a href="#">protected area</a>	<input type="checkbox"/> <a href="#">Wetter (Hessen)</a> community	<input type="text" value="single date or period"/>
<input type="checkbox"/> <a href="#">energy conservation</a>	<input checked="" type="checkbox"/> <a href="#">Hessen</a> state ( <i>Land</i> )	
<input type="checkbox"/> <a href="#">landscape management</a>	<input type="checkbox"/> <a href="#">Hessen</a> community	
<input type="checkbox"/> <a href="#">protection of species</a>	<b>add area name</b>	
<input type="checkbox"/> <a href="#">soil conservation</a>	<input type="text"/>	
<input type="checkbox"/> <a href="#">townscape conservation</a>	<a href="#">add</a>	
<input type="checkbox"/> <a href="#">water pollution prevention</a>	<b>Find results...</b>	
<a href="#">Show All</a>	<input type="text" value="all selected names"/>	
<b>add search word</b>		
<input type="text"/>		



THE PORTAL *for environmental issues*  
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## SEARCH RESULTS

The following databases received your request: [UOK](#)  
[FloraWeb](#) [WebDIM](#) [GISU](#) [GSBL-public](#) [UPB](#) [UFORDAT](#)    [gein](#) (306608 web pages)   

[ULIDAT](#) [UDK](#)  
Databases have been requested directly    Last index update: 07.09.2003 01:27h

**You searched for :** Naturschutz AND Hessen

The higher the number of ■ the higher the ranking of the search result.

- ▶ 0 Results **GSBL-public** Chemische Stoffinformationen    [Back to top](#) ↑
- ▶ 0 Results **GISU** Geographisches Informationssystem Umwelt    [Back to top](#) ↑
- ▶ 0 Results **UOK** UOK    [Back to top](#) ↑
- ▶ 10 Results of 2111 **gein** gein Information Broker (all websites)    [Back to top](#) ↑

■■■■ **MULF Hessen - Naturschutz**  
Hessisches Ministerium für Umwelt, Landwirtschaft und Forsten Home Sitemap Kontakt Impressum Drucken  
Suche nach: Suche Service Umwelt Naturschutz Energie Landwirtschaft/Ernährung Forsten Ministerium Diese Seite befindet sich noch im Aufbau. » Weitere Inhalte des Hessischen Ministeriums ...  
<http://www.hmuly.hessen.de/2003/naturschutz/index.php> ↗

■■■■ **Naturschutz - Hessisches Ministerium für Umwelt, ländlichen Raum und Verbraucherschutz**  
Service des Hessischen Ministeriums für Umwelt, ländlichen Raum und Verbraucherschutz. Achtung: Frame-Technik! Wenn Sie diesen Text sehen, arbeiten Sie mit einem nicht-frame-kompatiblen Browser. Updates der gängigsten frame-kompatiblen Browser können Sie sich kostenfrei vom Netscape Communications ...  
<http://www.hmuly.hessen.de/umwelt/naturschutz/> ↗

■■■■ **Hessisches Landesamt für Umwelt und Geologie**  
Startseite des Hessischen Landesamtes für Umwelt und Geologie  
<http://www.hlug.de/medien/boden/publikationen/geotope/> ↗

■■■■ **MULF Hessen - Ministerium - Aufbau / Organisation**  
Hessisches Ministerium für Umwelt, Landwirtschaft und Forsten Home Sitemap Kontakt Impressum Drucken

- A Metadata component of gein®
- Integrated over interface
- Search results in another application
- Another Look & Feel



Search for:

- Data
- Addresses




Search data for:




[german](#)

[Select Server](#)

[Help](#)

## Detail information

Thursday, September 11, 2003 9:10:22 AM



Datensammlung/Datenbank

## § 24a Biotopkartierung Baden-Württemberg

### Description:

Seit 1992 sind die Biotope durch das Biotopschutzgesetz gesetzlich geschützt (§ 24a Naturschutzgesetz) wie Naturschutzgebiet und Naturdenkmal. Die § 24a-Kartierung stellt außerhalb des Waldes - bezogen auf die besonders geschützten Biotope - die Fortführung der Biotopkartierung dar. Die von der LfU entwickelten Kartiermethode, erfolgt mit parzellenscharfer Eintragung der Biotopgrenzen in Karten im Maßstab 1:5.000 oder größer. Die Daten werden im Arten-, Landschafts- und Biotopinformationssystem ALBIS der LfU gehalten. Die Forstliche Versuchsanstalt FVA begann 1989 mit der Waldbiotopkartierung.

### Information:

Landesanstalt für Umweltschutz Baden-Württemberg (LfU)  
 Abteilung 2 - Ökologie, Boden- und Naturschutz  
 Referat 25 - Flächenschutz, Landschaftsplanung und -pflege  
[Frau Luise Murmann-Kristen](#)  
 Griesbachstraße 1  
 D-76185 Karlsruhe  
 Telefon: 0721/983-1284  
 Fax: 0721/983-1414  
 Email: [Luise.Murmann-Kristen@lfuka.lfu.bwl.de](mailto:Luise.Murmann-Kristen@lfuka.lfu.bwl.de)

## Result list environmental data

Number of found objects: 1833

Displayed objects: 1 - 80

Collect:	Name:	Source:
<input type="checkbox"/>	<a href="#">§ 24a Biotopkartierung Baden-Württemberg</a>	
<input type="checkbox"/>	<a href="#">Abwasserbeseitigungspläne</a>	
<input type="checkbox"/>	<a href="#">AGRDEU - Bestände aquatischer genetischer Ressourcen in Deutschland</a>	
<input type="checkbox"/>	<a href="#">Aktuelle Zahlen und Entwicklungen im niedersächsischen Artenschutz</a>	
<input type="checkbox"/>	<a href="#">Altablagerung (StAUN Schwerin)</a>	
<input type="checkbox"/>	<a href="#">Altablagerungen (StAUN Neubrandenburg)</a>	
<input type="checkbox"/>	<a href="#">Altstandorte (StAUN Neubrandenburg)</a>	
<input type="checkbox"/>	<a href="#">Altstandorte (StAUN Schwerin)</a>	
<input type="checkbox"/>	<a href="#">Anerkannte Verbände nach § 59 und 70 Abs. 1 Bundesnaturschutzgesetz i.V. mit § 29 des BNatSchG i.d. bis zum 3. April 2002 geltenden Fassung (BNatSchG alt)</a>	
<input type="checkbox"/>	<a href="#">ARTDAT</a>	
<input type="checkbox"/>	<a href="#">Artendatenbank Fauna in Mecklenburg-Vorpommern</a>	
<input type="checkbox"/>	<a href="#">Artenhilfsprogramm (StAUN Schwerin)</a>	
<input type="checkbox"/>	<a href="#">Artenhilfsprogramm (StAUN Ueckermünde)</a>	
<input type="checkbox"/>	<a href="#">Artenhilfsprogramme in Schleswig-Holstein</a>	
<input type="checkbox"/>	<a href="#">Artenkataster</a>	
<input type="checkbox"/>	<a href="#">Artenlisten</a>	

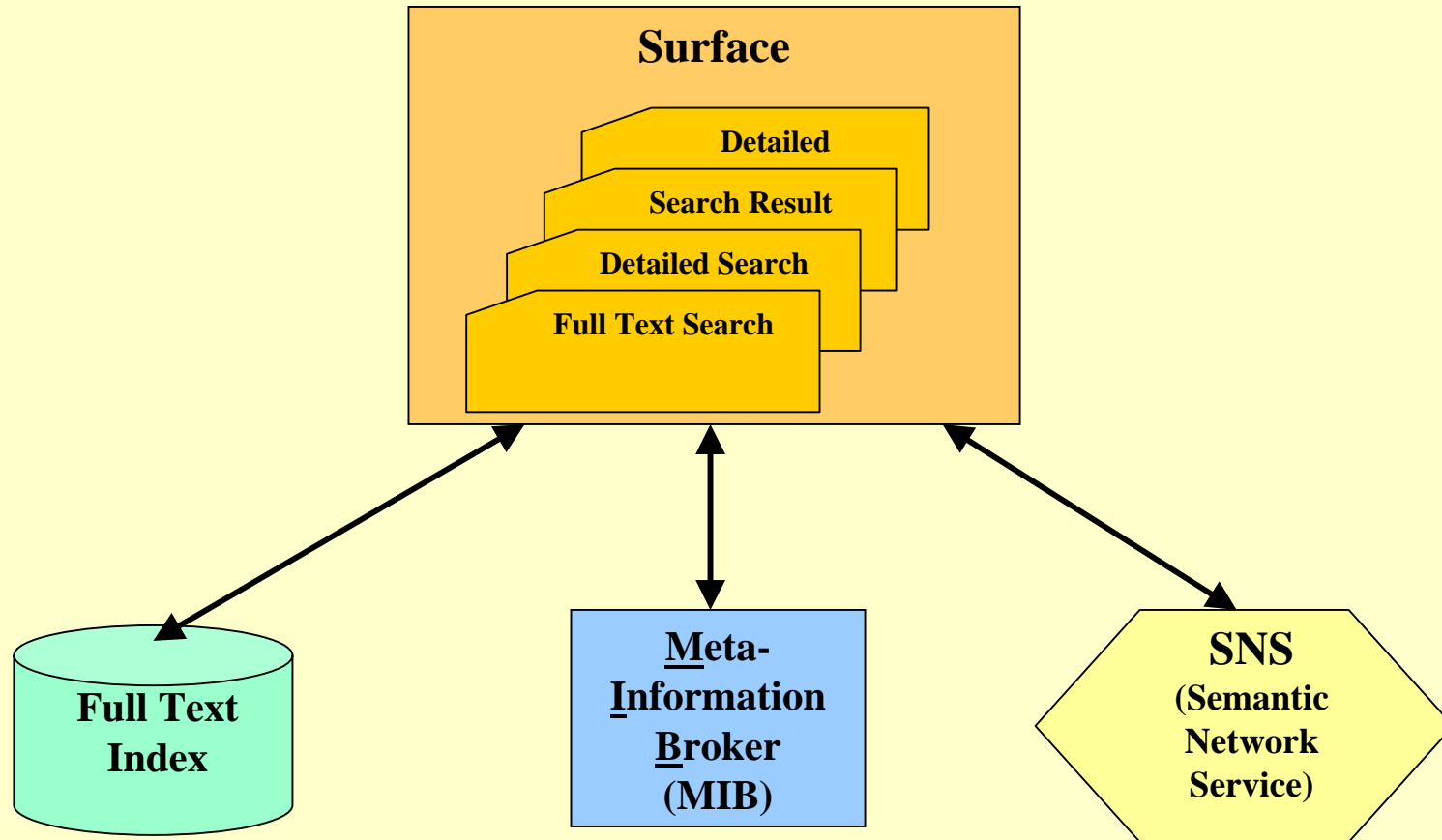
- Only one application in future → gein<sup>®</sup>
- Same look & feel for all components
- UDK is the metadata component of gein<sup>®</sup>
- All functionality has to be preserved
- gein<sup>®</sup> can also be installed by the partners of the administrative agreement
- gein<sup>®</sup> can be reduced to the metadata component

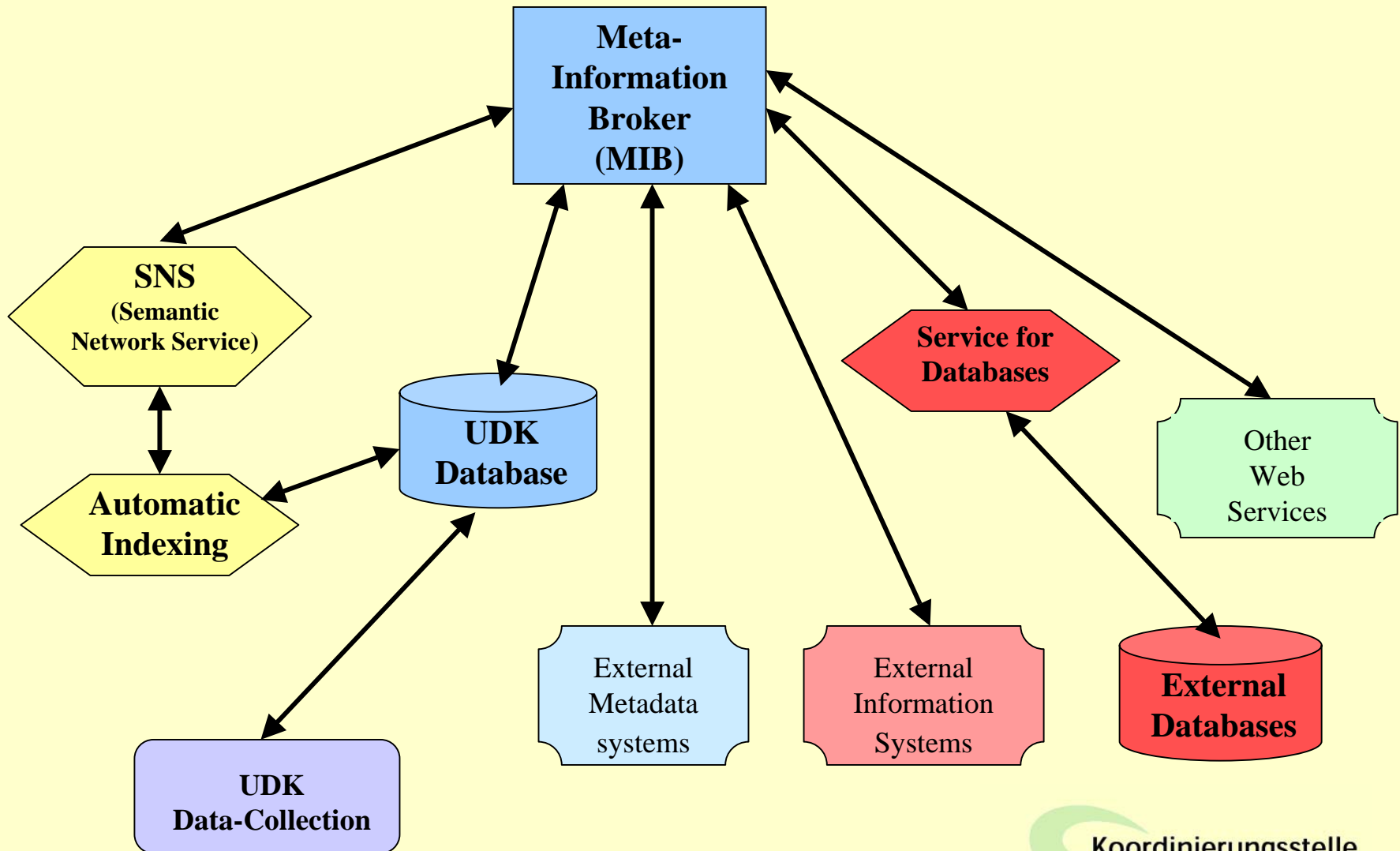
- EU Directive 2003/4/EC on public access to environmental information entered into force
- gein<sup>®</sup> has to fulfill the requirements of the directive

- gein<sup>®</sup> has to fulfill the requirements of the directive on public access to environmental information
  - gein<sup>®</sup> has to be the application for active dissemination of environmental information
  - as far as possible gein<sup>®</sup> has to provide electronic access to environmental information
  - gein<sup>®</sup> has to assist the federal government and the states to create reports on the state of the environment
  - The standardization process for metadata management and data exchange has to be forced by gein<sup>®</sup>

- Search engine
  - Simple search (on surface)
  - Detailed search (next level)
- Topic pages
- Actual pages
  - News
  - Data
- Chronology

- Simple search (full text search)
- Detailed search (topic-search, spatial search, temporal search, etc.)
- Search based on a map
- Search for addresses
- Search in special databases
- Presentation of the search results
- Presentation of the detailed information of the metadata





- MIB-interface (supporting the whole UDK data model, UDK addresses, all UDK classes etc.)
- OGC and ISO compliant interface (exchange of geographical metadata)
- g2k profile (historical gein<sup>®</sup> interface)
- Implementation of services for access of databases
- Interfaces to other services (e.g. map services)

Oct 2003:	Finalise rough conception
Spring 2004:	Finalise detailed description of the components
Summer 2004:	Begin of realisation of the application
End 2005:	Production version of the new application
End 2006:	New application for data collection

## **Next generation of gein®:**

- Portal for environmental issues
- Adapted to the requirements of EU Directive 2003/4/EC (public access to environmental information)
- Integration of the UDK as Metadata Component
- Various interfaces for the integration of diverse information systems
- Standard services for data access

[www.udk-gein.de](http://www.udk-gein.de)

[www.gein.de](http://www.gein.de)

[www.umweltdatenkatalog.de](http://www.umweltdatenkatalog.de)