

# Technological Background of the UIS BW

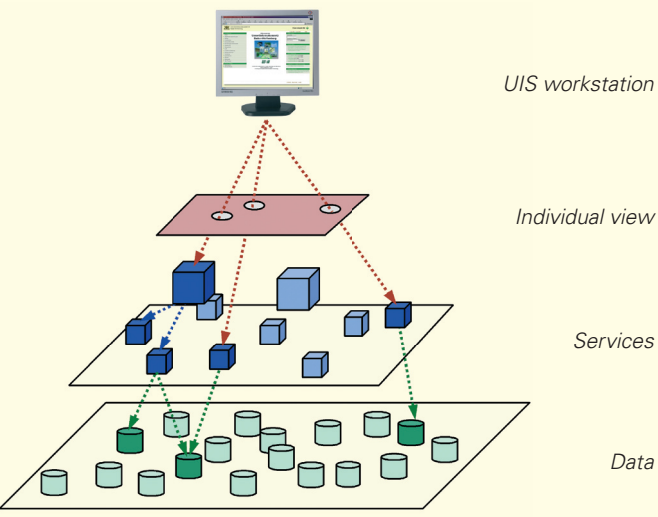
Modern information technology is required to meet the various demands facing the UIS BW. During several years of research and development, a comprehensive service concept has been established and implemented, which fulfils the current and future demands. The guidelines of the service concept are documented in the framework conception of the UIS.

The service concept includes a large number of diverse services, which grant data access according to user requirements. Instead of separate, uniform applications for large user groups, the UIS provides options to set up customised user interfaces, matching the specific demand for information. The multiple use of components considerably increases the economic efficiency of the UIS.

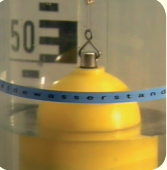
High-performance data management systems (lower level) form the basis of the service-oriented UIS, as illustrated in the figure on the right. Open data interfaces facilitate easy data exchange. A common data model, used in most thematic areas, allows a large number of users to work with these data.

The UIS offers a rich variety of services (middle level), which include navigation and data access as well as the integration of standard office applications and semantic search services. Standard web services, combined through a central directory service (UDDI), are increasingly used, in order to implement a service-oriented architecture (SOA). This causes more effective workflows as well as the advancement of public e-services as demanded by the E-Government Concept.

Together with the data, the services represent the resources of the UIS. Customised user interfaces enable the user to access the resources from the personal UIS workstation (top level), without demanding specialised knowledge of the system. According to the personal settings, the relevant resources are selected and then provided through a user-friendly interface, thereby substantially improving the workflow within the authorities. Web-based data bases and web content management systems bring further efficiency.



The UIS workstation in terms of the service concept: customised user interfaces for individual requirements



The most important value of the UIS, however, is the environmental data itself. In course of the environmental monitoring, a large number of data is continuously collected by self-operating measurement stations, automatically evaluated and uploaded to the UIS databases. The high degree of automation allows access to real-time data for decision makers e.g. in case of a flood event.

Monitoring networks provide continuously real-time data

# Information on the Internet



**PUBLIC ACCESS TO ENVIRONMENTAL INFORMATION**

The website [www.umwelt.baden-wuerttemberg.de](http://www.umwelt.baden-wuerttemberg.de) provides public access to up-to-date and high-quality environmental information in Baden-Württemberg. All relevant environmental information of the public authorities can easily be retrieved by this portal. The spectrum of information includes press releases, environmental reports and data from monitoring networks, as well as data from data bases, which usually cannot be found using commercial search engines. Public environmental information from Baden-Württemberg is also available through the German Environmental Information Portal at [www.portalu.de](http://www.portalu.de), the portal for administrative services of the Federal State and the local authorities in Baden-Württemberg at [www.service-bw.de](http://www.service-bw.de) and the state portal at [www.baden-wuerttemberg.de](http://www.baden-wuerttemberg.de). All these sources of information help to fulfil the obligation to publish environmental information according to the Environmental Information Act of Baden-Württemberg.

An overview of the current environmental situation in Baden-Württemberg is given in the printed report “Umweltdaten”, which is released by the Ministry of the Environment (“Umweltministerium”) on a regular basis. It is available at the delivery service of the State Institute for Environment, Measurements and Nature Conservation, located at the JVA Mannheim, Herzogenriedstraße 111, 68169 Mannheim, Germany or online at [www.lubw.baden-wuerttemberg.de](http://www.lubw.baden-wuerttemberg.de).

# UIS BW

## Environmental Information System of Baden-Württemberg



## Comprehensive Information for the Benefit of Environmental Precaution

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