

# The Case Study of Environment Web Portal

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## Abstract

The Environment Web-portal (EnviWeb) is the unique complex environment web-portal in the Czech Internet (it is located on the address <http://www.enviweb.cz>). It was launched in October 2001 and it became the most visited portal in this branch.

Portal is divided into these sections: Water, Air, Waste, Chemicals, Disasters, Noise, Nature, Soil, Forest, Geology, EIA, EMS and Misc.

EnviWeb is primarily intended for experts, professional public, firms, government and for citizens. It contains most useful directory of companies in Czech Republic, directories of inspections, ministry, regional offices, department offices, branch associations, hygienic offices, organisations which provide business support, etc. EnviWeb offers access to complex environment legislation in Czech Republic. Important parts of this portal are the archive of articles, which is divided into popular, technical and business articles and archive of events.

In my poster I will present functionality background of this portal, used technology, knowledge and experience from its management together with experience of freedom access to environmental information using EnviWeb.

## 1. History

In August 1998 there was an idea to create the waste web-portal, which will provide by testament no. 125/1997 Sb. (laws of Czech Republic) offering waste for further waste utilization. The firms, which work with waste can demand waste on this portal.

On May 1. 1999 was launched the waste server on the address <http://www.skladka.cz> which provided offer and demand of waste, and offered complex service in the waste management (list of companies, laws in force, technical articles, waste software, literature, advertising etc.).

By reason of very small constituency of portal Skladka we decided that on background of our experience we would build new Environment Web-portal. His name is EnviWeb, his location is <http://www.enviweb.cz> and it was launched in October 1. 2001.

The target group of server visitors are professionals in environment, enterprise ecologists, workers of firms providing services in the branch and producing or selling products and technology for environmental protection and labour safety, representatives and students of TU focused on environment, representatives and members of professional unions, employees of state administration and self-government, organizers and participants in specialist events, editors and readers of professional publications

## 2. Structure of portal EnviWeb

The structure of portal EnviWeb is divide to this interests sections.

- Water - section devoted to water management, and his aspects.
- Air - section devoted to problems with air protection, monitoring of pollution sources and their limitation.

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- Waste - section devoted to waste management, demeaning production of waste and waste recycling.
- Chemicals - section devoted to ecological aspects of treatment with chemicals a their influence on living environment.
- Disasters - section devoted to prevention of grave industrial accidents, reactions on accidents and removing their consequences.
- Noise - section devoted to problems with noise, they measurement, reducing, modeling and prevention before abnormal noise.
- Nature - section devoted to problems with nature protection.
- Soil - section devoted to soil conservation and ecological agronomy.
- Forest - section devoted to forest management and forest protection.
- Geology - section devoted to environment aspects of geologic prospecting, extraction and recultivation.
- EIA - section devoted to Environmental Impact Assessment
- EMS - section devoted to Environmental Management Systems
- IPPC - section devoted to Integrated Prevention and Pollution Restriction
- Misc - this section contain articles, links, firms atc., which can't be class unique to other sections, or their have universal intent.

### **3. Realization, used technology**

Portal EnviWeb is running on UNIX system (Linux ver. 2.4.13) with Apache ver. 1.3.22 as web-server. As programming language We used Personal Home Page (PHP), a server-side HTML-embedded scripting language. For programming are used two PHP packages. First is PHPLib ver. 7.2. and second Metabase ver. 1.25.

Metabase is a PHP package intended to provide DBMS (DataBase Management System) independent means to install, access and maintain SQL based databases. It provide a unified interface to access distinct SQL based DBMS. Using the same interface, programers may develop database application that may run with DBMS of diffrent vendors.

PHPLib is a PHP application development framework that provides you with an easy to manage Object Oriented way to handle sessions, authentication and permissions in your PHP application. PHPLib also has serveral helper classes, prominent amongst them are the DB\_sql, template, OOH forms and cart.

The library help you to write medium to large sized data-driven web applications. "Medium to large sized applications" are applications that consist of multiple database queries, have to generate tables from database data, need a user interface that generates SQL queries or need a comfortable and user-friendly way to protect pages or functionality on pages. "Data-driven" applications are applications that make use of a supported SQL-database to create HTML content and that use HTML forms to drive database transactions.



Fig. 1: Main page of EnviWeb

#### 4. Destinations

EnviWeb is primarily intended for experts, professional public, firms, government and for citizens. The primary purpose of EnviWeb is to provide public environmental information and enable freedom access to environmental information.

The second part are services for companies, like providing and upkeeping environmental legislations of Czech republic, providing and managements "The Waste Stock", offers special softwares for companies, providing informations about tenders, etc.

#### 5. In fine

During four years the portal was visited by more than 550 000 persons who had read about 3 000 000 pages. EnviWeb has thus become the second most visited portal in the field of environment being ever more visited (at present over 850 visits a day). This year the EnviWeb portal is the mass media partner of conference EnviroInfo 2005.