Open access and free GIS database framework for biological studies

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Workshop 03 Nature that counts - Monitoring biodiversity
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http://openbiomaps.org

What is it?

Example databases in the framework

Duna-Ipoly National Park Database with limited public access

Dead Animals Database

a full public scientific database

Danube Fish Database full Public DanubeParks database

Harlekin Database mirrored scientific database

Bioregio Charpatians Database

Aims

- Create a reliable system for scientist and National Parks

- for create and employ different biological databases

- Create a long-term supported system with open source tools and economic maintain

The framework features

- Standard GIS protocols

- Closed user community and free data access

- Every user can invite new users

- Every user can introduce a new database

- User level authentication, rights and verification

Database usage and features

- The queries are savable, repeatable and referable

- Data history

- Data access from other applications

- Synchronizable with other databases

- Users can score data and other users which help to evaluate the reliability of the data

Who manage it?

Universities and National Parks:

Grasslands Research Centre

The OpenBioMaps Consortium

Acknowledgements

CONTACT

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Welcome everybody
I am glad to be here and
Thank you for the opportunity to the
organizers to provide the chance for this short
presentation

I'm going to talk about a computer program, a
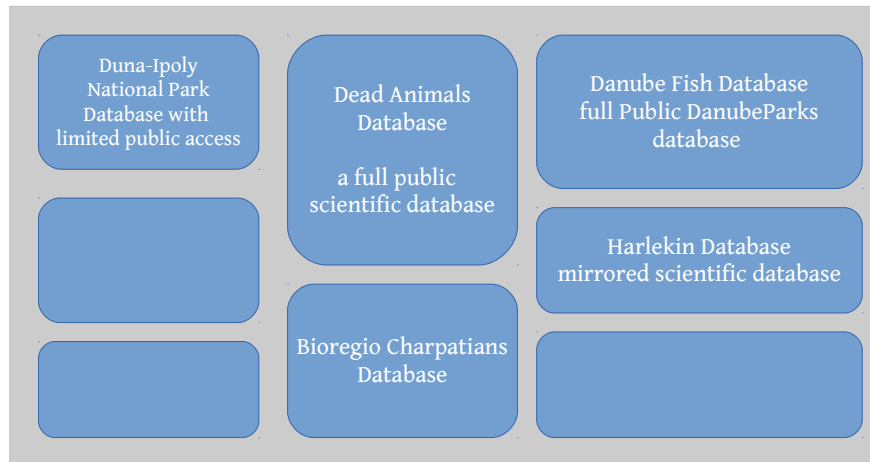database framework system

http://openbiomaps.org

This project has a name and a central web site where you can find the links to the included databases and other information

What is it?

Example databases in the framework

Duna-Ipoly National Park Database with limited public access	Dead Animals Database a full public scientific database	Danube Fish Database full Public DanubeParks database
		Harlekin Database mirrored scientific database
	Bioregio Charpatians Database	

What dose database framework mean? The framework means that this application contain independent databases.

    This is a recently developed web application specifically created to be used mainly by Scientists and National Park employee.

    This application was designed to keep and maintain geo-referenced botanical and zoological data in public and free databases by taking into account individual needs.

    In this example you can see five independent databases with different usage, aims and users' group.

Aims

- Create a reliable system for scientist and National Parks

- for create and employ different biological databases

- Create a long-term supported system with open source tools and economic maintain

Our aim with this development to create a reliable tool for Scientist and National Parks.

In our opinion this framework can provide informational connection between the professional conservationist and scientist.

Furthermore this tool can be useful in scientific publications and in Teaching

Also we can provide availablities for small databases for mirroring or migrating

And finally we would like to provide a long-term supported system, where the key features are the simplicity, efficiency and economic (nincs fizetett alkalmazott)

The framework features

- Standard GIS protocols

- Closed user community and free data access

- Every user can invite new users

- Every user can introduce a new database

- User level authentication, rights and verification

HOW IS IT OPERATE?

It is providing web map services and database access through the use of standard GIS protocols which is thus accessible from different kinds of applications.
    The openbiomaps community is closed but every member can invite new users
    and every member can introduce a new GIS database
    and the databases contain the biological data with spatio-temporal and taxonomical attributes.
    The database definition rules are simple and there are very few general regulations. However the database owners can set up individual rules for usage
    and accessing data.

Database usage and features

- The queries are savable, repeatable and referable

- Data history

- Data access from other applications

- Synchronizable with other databases

- Users can score data and other users which help to evaluate the reliability of the data

Every database have unique structure, and there are only one strictly defined part in the databases: the spatial information. However all data row should contain taxonomical information as well.
The database queries are repeatable and referable by unique IDs.
The data changes have reversable history.
The databases and the queries are savable and exportable to different file formats.
The databases are synchronizable with the source databases.
There is no central verification but the users can score data and other users which help to evaluate the reliability of the data

Who manage it?

Universities and National Parks:

Grasslands Research Centre

The OpenBioMaps Consortium

This application system is operated by several Universities and National Parks and the databases involved are maintained by the data providers.

Actually The Grasslands Research Centre is the technical maintainer

and we are working on to establish a Consortium
specifically for this project:

The OpenBioMaps consortium

Acknowledgements

Thank you for your attention!

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If you have any question don't hesitate to ask or write me

Thank You