Access to all information sources including grey literature in the Surveying Library

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The Surveying library used the presented version of INVENIO system not only for its digital repository, but also as a solution of the single information access to all its funds. Search and access to the library catalogue, bibliography article, and digital Kramerius library, access to electronic information resources, gray literature and internal documents are provided via INVENIO system. INVENIO serves as a complete library system. Part of this article is presentation of BibCirculation module, which ensures lending library services. The Surveying Library is the first organization that uses this module in the Czech Republic.

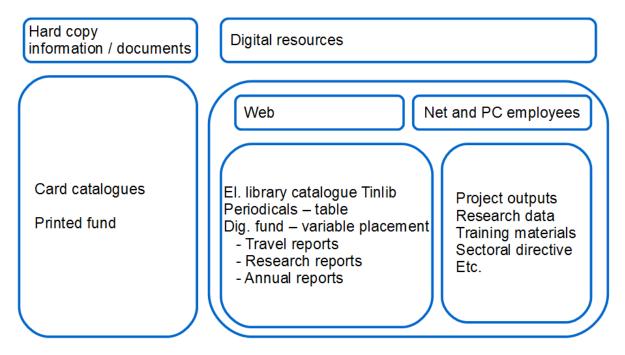
Key words: grey literature, INVENIO, BibCirculation, library system, digital repository, the Surveying Library

The Surveying Library is the part of the Research institute of Geodesy, Topography and Cartography (VÚGTK). The library has, thanks to its fund and the specialization of the subject's geography, geodesy, geodynamics, cadastre and metrology, the unique and exclusive position not only in the Czech Republic, but also on an international scale. Library is involved in many international activities of the cooperation and the provision of scientific information resources from the area of its competence. Its uniqueness has been confirmed by registration of the trade mark "The Surveying Library [®]" (hereinafter the library) in the register of trademarks, led by Czech Industrial Property Office. The library collects, in cooperation with the Czech Land Survey and Cadastral Office (hereinafter ČÚZK) expert travel reports for all employees of the resort ČÚZK, research reports, industry regulations and standards, all resort directives, professional newsletters and journals, proceedings of scientific conferences and meetings.

A few years before the demise of the library were threatened. Fortunately, the library with its unique fund managed to survive. The library has to solve the question of how to most efficiently transform itself so that it can offer the best possible service to all users. One of the areas that library has to change was the availability and accessibility of information about the library fund and other information sources. The existing information resources in the library have been fragmented. The paper catalogs card was register of library fund.

Only part of the fund was digitalized in the library system Tinlib that is already outdated and inadequate. List of titles available online journals that the library periodically subscribe, has been and still is only portrayed in the table on the Web site. Grey literature (research and annual reports and other materials) customers could search in different places and different levels on the site VÚGTK. In addition, the library uses other library system Kramerius where stores and provides access to digitized documents. Kramerius represented another separate system where customers can search.

Beside the library fund and the materials on the Web site VÚGTK still collects many other materials in digital form, which are available only locally on institute network or on the computers of employees. It is mainly different standards of the ČÚZKC and Surveying Office, materials of conferences, analytical and methodological materials, research data, promotional and training materials, the outputs from the projects, the departmental directive, etc.



Picture 1: Original information resources placement

The library, therefore, dealt with two issues, it needs both a library system and digital repository if the framework of insufficient finances funds and capacity building. From the perspective of maintaining research needs of VÚGTK, to ensure available high-quality library and information resources for all employees. Subsequently, the VÚGTK wants to act openly and share research outputs.

At the present time when budget is cutting permanently the library had a problem to purchase completely a new library system. It causes that purchases of books registering, journals and other information resources, as well as the registration of readers and borrowing were limited as well as the possibility of cooperation with national portals and enable to search using the Union catalogue or the Uniform Information Gateway. There are mainly commercial library systems currently available the Czech Republic and their prices excess of VÚGTK budget. Open source library systems are not so common in the Czech Republic. Evergreen [1] and the Koha [2] systems are two most popular.

Another problem that VÚGTK has to fix is how to preserve and make available the documents and research data. Only a small portion scientist outputs ate published in journals, anthologies and monographs while rest of them are hidden in individual researchers or team's computers including the primary data. Data back-up is often provided on the workers and usually non-systematic. The question is "How to spread information about your research, how to share primary data (results of the measurements, material analysis, etc.) and at the same time preserving their authorship?" Preferably through the institutional repository, with

¹ http://open-ils.org/

² http://www.koha.org/

publishing solutions related to auto-archive of publishing activities and in open access mode. As mentioned Jindra Planková "at present, it is necessary to understand the access as open access initiative, a global phenomenon" (Planková, 2007). Rosalia Ferrara mentioned that open access not only the standards and protocols that ensure interoperability and sharing in the world of but the social factor of the growth of the society (Ferrara, 2007)

The absence of institutional repositories often leads scientists to trying to build archives and disseminate them yourself, for example on CD/DVD media, as described in the case of the personal archives of the Ing. arch. Jana Meal (Vyčítalová, 2011). In the current time VÚGTK solves the problem by publishing the data through its Web site. Many of the Czech research institutions took this solution in the past and continue, an example is the analysis of the disclosure of full texts of research and technical reports on the Czech Web servers (Vyčítalová, 2007). But this solution is unsystematic and unsustainable as the nature of the rapid variability of the Web pages and from the perspective of the problematic finding and sharing.

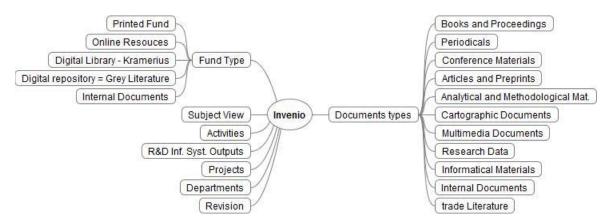
The library was looking for a solution that would ensure access to information about all of its information resources from one place to the widest possible range of users. The aim was to publish information about the library fund and products, online resources, digitized documents stored in the system Kramerius and gray literature.

In 2011, the VÚGTK was approached by the national technical library (the NTK) with the application of gray literature to passing the national repository of gray literature (hereinafter NUŠL). To promote cooperation with NUŠL offers NTL INVENIO system and open source methodology for storing, archiving and making available of gray literature, which can be further extended. INVENIO system has in itself also a module library system, which could be localized to the Czech environment.

This offer was accepted because of VÚGTK as well as other research organization is focused on the development of information technologies and processes and is methodically guided and supported by the work of scientific publications and data. There is lack technology and methodical help in the VÚGTK as well as other public research institutes that is provided in s large institutions such as the Academy of Sciences of the Czech Republic (ASCR) through the library of the ASCR. Large projects, designed the ASL, NK CR and MZK, due to their robust and technical performance for these small research institutions are not optimal. The basic requirement of these institutions is a unified and simply system for managing, storing and dissemination of scientific information and data. Another requirement is the technical and personnel system operated by lightweight. VÚGTK does not have the capacity to provide and maintain multiple systems = library system, the repository publishing, digital library, and more.

NTL offers a free system for processing preset INVENIO grey literature as one of the forms of cooperation. (Pejšová, 2011) The pre-setup library system INVENIO can be downloaded from the website NUŠL and install on your own hardware. There are also available installation instructions. Furthermore, the library's system INVENIO can be edited according to library needs. NTL also ensure the localization of INVENIO into Czech language. Another important reason was that stable development is ensured. The European Organization for Nuclear Research (CERN) in Geneva ensures INVENIO system has a team of developers who develops the system, regularly publishes new INVENIO version and has a clearly defined system development INVENIO for the future. However, the most important reason for this was that in the system library is already built-in INVENIO module that is able to provide all the services of the library. CERN library completely switched on the system of the INVENIO from Aleph system in 2012 without the restrictions of services.

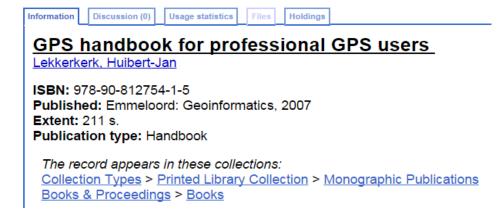
The original intention to use the INVENIO system as a library system and the digital repository has grown on the idea to take advantage of it unconventionally modeled after the discovery systems as a search point for both the printed and digital fund too. This idea library implemented as follows. Printed catalogue of the paper fund and article list were transferred from an obsolete bibliography system TINLIB to INVENIO system. Already digitized titles stored in the system Kramerius, have been revised and their records were accompanied by links to the digitized texts in Kramerius. Import records for prepaid available titles online magazines are being solve. Records of freely available professional online magazines have been added. We started with the VÚGTK materials as gray literature and internal documents, but access to internal materials is restricted.



Picture 2: Schema of collections in Invenio

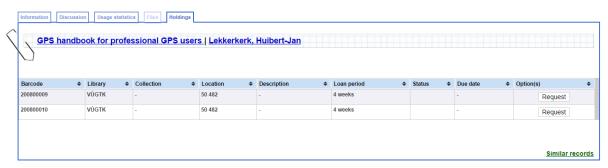
As already mentioned, various types of records in are recorded the INVENIO. These types are detailed presented in the following samples.

Primary they are records of the documents from the library. The library has carried out the conversion of bibliographic records and/or units that stored in the system TinLib, and migrate them to the INVENIO system. Approximately 40 000 records of monographs, 3000 records of scientific journals and 148 000 records of articles were imported. The check of imported records against documents holding in hand is performed in these days. We assume that the greatest number of records will be checked during the planned reconstruction of the library. Templates for inserting of new bibliographic records are prepared.



Picture 3: Preview of imported bibliographic record for monograph

If TinLib records had connected units, those records were also imported into INVENIO system. They are displayed along record preview of searched title on the folder marked "Holdings". If the user is logged in, he can enter the loan request to the selected units.



Picture 5: Displaying of connected units to the selected title

Another type of records which are made available through a system of INVENIO, are online journals. Only titles online freely available magazines and journals have been inserted. Now we are looking for a convenient way how to import titles of online journals that the library regularly subscribes. In the preview of online magazines, a link to the full text is displaying.



Picture 4: Record of online available magazine

Part of the imported bibliographic records from TinLib was some titles that the library already digitalized and made available via Kramerius system. The records have been revised and supplemented by a link to digitized text in Kramerius system too.



Picture 6: Sample of record with a reference to Kramerius system

We also started to insert grey literature to INVENIO system. Part of the grey literature records is usually attached files with full text, which is possible to open directly in INVENIO system. In case of need to restrict access to the full text, it can be done by system tools available in the time of files inserting. If titles are also part of the library Fund too, they have in addition to the attached file also attached the unit.



Picture 7: The record of a collection of grey literature with accessible full text

INVENIO system serves in the library as registration of internal documents too. Access to the records of these documents can by authorized users only. Authorized users can see, after selecting records, the details of the title, and if there are sufficient permissions, can view attach full text too.



Picture 8: The record of internal document with restricted permission

In order to fully use the capability of INVENIO system, module BibCirculation was activated. All possible function/services will be used in this module, the borrowing services-register readers, record borrowing (including borrowing under the interlibrary loan services), reminders and loan orders and reservations. INVENIO system also has functions for acquisition that library will use in the future

After the opening of the BibCirculation module and finding a record of a reader, the librarian will get basic information about readers and a brief overview of the current number of requests on the loan, the borrowing and borrowing the MVS. Part of the list is also borrowing history and requirements of the reader. Functions for the implementation of the loan, the new loan request or send e-mail to the reader, are available.

PERSONAL DETAILS ID Drozda Jiří Name Email Jiri.Drozda@vugtk.cz Phone 226 802 349 Ústecká 98, 250 66 Zdiby Address Mailbox zaměstnanec Notes No notes New loan New request New ILL request Notify this born REQUESTS, LOANS AND ILL OVERVIEW ON WED OCT 15 11:38:44 2014 Requests More details 6 Loans More details 0 ILL More details HISTORICAL OVERVIEW 0 Requests More details 0 Loans More details ILL More details Back

Picture 9: Record of reader with a brief overview of his account

If the reader wants to borrow certain documents, the librarian finds his account and borrowing will record through the incremental numbers by specifying units. During this process, he has the option to record notes and/or to verify the names of the units. When the borrow is returning just the incremental numbers of returned units can be used.

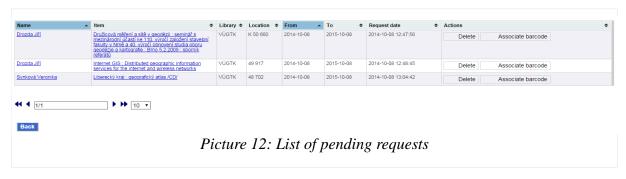
For now, the librarian must have input incremental numbers. The library started labeling of their units by QR codes. Part of the QR code is also an incremental number. The librarian will capture a QR code and an incremental number of loads will be downloaded into the appropriate field in the INVENIO. In addition, QR code will contained the name of the library and reference number to the bibliographic record in INVENIO system. QR code will serve not only to record the borrowing and returning of loan documents, but also as a source of basic information on the title, author and ownership.



Picture 10: Loan of selected titles to readers based on the incremental numbers

The librarian can view various reports – for example list of current borrowings, list of titles with excess borrowing time, order summary on loan and reservations. Adequate functions which can be use with selected record are always offered.





A user, who also set up access to his reader account through the Web interface, can check the status of his membership account online. If the borrowing period has not been

exceeded, he can extend his existing loan and/or may cancel the borrowing a requirement of titles for which is no longer interested in.

Your Loans

ltem	Loaned on 	Due date ◆	Action(s)≑
Praktičeskoje rukovodstvo po uravnovešivaniju setej geodezičeskich zaseček	2014-10-08	2014-11-07	Renew
Profilové zhuštění čs. sítě astronomicko-gravimetrické nivelace	2014-10-08	2014-11-07	Renew

Renew all loans

Your Requests

	waiting		Action(s)	*
	waiting		Cancel	
	pending		Cancel	
14-10-08	14-10-08	14-10-08 pending	14-10-08 pending	14-10-08 pending <u>Cancel</u>
		Parama	paramy	

Picture 13: The current reader account with current loans and requests

If the user finds the records that he wants to save for their own use, in order to later return to them, work with them, to borrow the titles and/or otherwise dispose of them, he can save records and sort then into the so-called baskets (folders). Baskets are sorted into thematic groups. Each thematic group can contain multiple baskets. To the entire basket or to individual titles his own notes can be added.

Display baskets



Picture 14: Basket preview

If the user is logged on, the system stores his queries that he ran. Queries are kept in the history for next 30 days. The user can use selected queries to set the alert services. The results of regularly running query can be sent via specified e-mail and/or stored in the basket.

Set a new alert

This alert will notify you each time/only if a new item satisfies the following query:

QUERY: Pattern: Eurogeographics

Field: title

Collections: Zeměměřická knihovna VÚGTK

Alert identification name: EuroGeographics
Search-checking frequency: weekly •
Send notification email? yes ▼ (if no you must specify a basket)
Store results in basket? - no basket - •
SET ALERT CLEAR DATA

Picture 15: Setting of alert queryy

Although the library has used the INVENIO system that NTK runs for grey literature within NUŠL project, the library greatly expanded its use for many purposes. The library stores in INVENIO system not only grey literature but a variety of other types of documents, including its library fund. Some records refer outside the INVENIO system (Kramerius, full text of online available journals and magazines).

Compared to INVENIO version, which is run by NTK, the library added to its installation some new elements as the MARC21, different templates and also adjusting the indexes for searching and displaying thumbnails for bibliographic records. A major extension was the activation of the BibCirculation module and functions for loan services in this

module. There is no experience with this module in the Czech Republic. Activation of BibCirculation module brought new changes and tasks as make familiar with available functions to register readers, entering orders, borrowing and return all related instruments for borrowing system. It also coincided with the need to localize the module into the Czech language. Location was really time consuming and still is not fully completed.

The main aim of the library are fully satisfied both internal and external users and always accessible and transparent information about the library fund, prepaid and freely available online resources and other information materials that the library can offer all users. The library is trying to achieve this goal by using the library system INVENIO that represents a single interface to search all the information resources of the library. Using INVENIO system the library also provides access to many full texts of which are attached to the bibliographic records or connected via a link in the bibliographic record. Access to full text of course respects both the license rights for prepaid online resources and copyright and on the other hand the internal nature of the information, which are stored in collections for grey literature and internal institutional repositories. Using INVENIO functions and features the access rights to the different user groups are distinguished.

Another important function, which the library fills, is the loan services. Librarian has available all the necessary features to record borrowing and readers to related information and tools. Registered user has after logging into his account overview of his borrowing and orders. He has the ability to take advantage of the history of queries that entered, saving of selected records to basket and/or the settings of the selected query so that it regularly informed him about new records related to the theme, by which the user is interested in.

The library within the beta still blends and optimizes the settings proposed procedures and processes. He believes that, after the planned reconstruction, will offer users of its resources and services in the new cover, the result being satisfied both internal and external users.

The library within the trial period still blends and optimizes the settings proposed procedures and processes. We believe that, after the planned reconstruction of depositary and reading room, the library will offer all users its resources and services in the new cover, the comparable result will be satisfied both internal and external users.

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