

PROJECT "THE ADAPTATION OF AGRO METADATA TO THE POLISH SCIENTIFIC BIBLIOGRAPHY AND POL-INDEX" - INTENSIFICATION OF INFORMATION AND FUNCTIONAL ADVANTAGES AGRO DATABASE

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Abstract

A promotion of the project is a subject of the paper: "Adaptation of AGRO metadata to the Polish Scientific Bibliography and POL-index." A harmonization of records of the AGRO database and implementing new elements of metadata in order to ensure the cohesion and standards with the system are an aim of the project of the Polish Scientific Bibliography and POL-index. The project implementation enables to use data of the AGRO database in the comprehensive evaluation of the scientific activity of scientific units through the participation in the Information System about the Higher Education POL-on, via the Polish Scientific Bibliography. Information about publications of Polish scientific individuals and researchers affiliated in them contains metadata of the AGRO database. The AGRO base is being opened on the platform "Opened Learning," which the Interdisciplinary Centre of the Modelling of the Mathematical and Computer Warsaw University (ICM) is an operator. Applying standardized standards in entering bibliographical descriptions into the base and widening records of the base for affiliations of all authors will let the evaluation of academic achievements of researchers. Moreover authors are showing processes taking place in the project implementation, his value, figures both bases concerning records, of full texts and the like, as well as latest statistics of using the AGRO database since January for June 2015 by users.

Key words: AGRO database, bibliographical bases, scientific information, natural sciences, agriculture, bibliography, computer technology, POL-index, Polish Scientific Bibliography

1. PROMOTION OF PROJECT

The EU project fulfilled by the Main Library and the Centre of Scientific Information of Poznan University of Life Sciences 2014-2015 years an extremely important rise to the growth in importance constitutes AGRO bases under the information and functional account.

Title of the project it: "The adaptation of AGRO metadata to the Polish Scientific Bibliography and POL-index". The total value of the project amounts to 3 287 216,00 PLN, including the participation of the European Union 2 794 133,60 amounts to the PLN.

This project co-finance is from funds of the European Development Fund Regional in frames of the Operational Programme Innovative Economy. Measure 2.3 Investments connected with development of IT infrastructure of science. He is an entity responsible for performing a task: Poznan University of Life Sciences in Poznan, and with place of performing a task (location) there is a Main Library and Centre of Scientific Information of Poznan University of Life Sciences, Poznan, 45, Witosa Street.



Fig. 1. Main Library and Centre of Scientific Information of Poznan University of Life Sciences



Fig. 2. The table promoting the project

A harmonization of records of the AGRO database and implementing new elements of metadata in order to ensure the cohesion and standards with the system are an aim of the project of the Polish Scientific Bibliography and POL-index. The project implementation enables to use data of the AGRO database in the comprehensive evaluation of the scientific activity of scientific units through the participation in the Information System about the Higher Education POL-on, via the Polish Scientific Bibliography. Information about publications of Polish scientific individuals and researchers affiliated in them contains metadata of the AGRO database. The AGRO base is being opened on the platform "Opened Learning", which the Interdisciplinary Centre of the Modelling of the Mathematical and Computer Warsaw University (ICM) is an operator. Applying standardized standards in entering bibliographical descriptions into the base and widening records of the base for affiliations of all authors he will allow for the evaluation of academic achievements of researchers. Putting in individual records index of publication of the enclosure bibliography, using the AGRO database for the purposes of calculations of the index will enable to quote scientific journals that is to determine the number of quoting the Polish Impact Coefficient (POL-index) according to next announcements of Minister of Science and Higher Education from day 17 of September of 2012 and from 29 May 2013 on criteria

and the mode of the evaluation of scientific journals. The completeness and the high quality of data field an important link constitutes AGRO bases in building the index of quoting and prevents the need for the repeated data capture. The AGRO database will be accomplishing the important role in the development of bibliographical modules of the system POL-on. They in the period of two years of the duration of the project are going to expand the base about 90 000 of records.

Funding the base partially allows for the significant quantitative and quality development of the database, as well as for implementing new elements to her, so as:

1. Scanning abstractions of articles index in the database, both in Polish and with English, with using the Optical Character Recognition software (OCR).
2. Adding summaries to existing and newly occurring records of the AGRO database.
3. Scanning the enclosure bibliography of articles index in the database at using OCR softwares.
4. Adding the enclosure bibliography for existing and newly occurring records of the database AGRO.
5. Translating keywords from Polish into English in existing and newly occurring Polish records of the base. In records in English of the keywords they are crucial created only in English.
6. In the period from September 2012 to April 2015 to the AGRO base 160 new titles were accepted of scientific journals in the destination of their indexing. They reported to the publisher new titles to the AGRO database after the announcement by Minister of Science and Higher Education on criteria and the mode of the evaluation of scientific journals from 17 September 2012. The AGRO database is shortlisted of referential databases of the above mentioned announcement in the thematic scope: exact sciences, natural, medical and technical sciences.
7. Full texts of articles - titles of scientific journals in the AGRO database with full texts are diversified in terms of the chronological reach. At present (state to 21.07.2015) the database contains 18356 of articles with available full texts from the level of the base and 1026 articles with full texts available on the outside cabinet.
8. New layout of the base - widened possibilities of searching and looking information through gathered in the base.
9. The digital identifikator DOI badges (Digital Object Identifier) of articles index in the base, they are being led from 2014.



Fig. 3. AGRO database – start page

The AGRO database is indexing 1045 titles which they are coating with the spectrum of Polish scientific journals from natural and agricultural sciences. In the base an automation of taking metadata from publishers of journals in the appropriate format in order to streamline the flow of information is an innovative element.

The AGRO database contains bibliographical descriptions (records of the base) of publications put in Polish journals spent in Polish and English or other foreign languages with summaries in Polish or English. Number of titles index there is a variable in the base, since some publishing companies are suspending activity. Successively to the base they are reporting to the publisher new titles of journals. They are in the base index, if thematically bases correspond to the scope. In the system of creating and providing functioning of the AGRO database an information-search tongue is applicable about special functions enabling to reconstruct contents and to search for documents for asking the user. An information-search tongue is phrases called keywords, based on the natural language, formed by authors of records of the base. Dictionaries of keywords (Polish and English) they are put in alphabetical order, don't contain synonyms, are dictionaries systematically controlled by editors and are friendly for users.

2. HISTORICAL ASPECT

A few pieces of information about the history of the base. The AGRO database was created in 1993. The base is registering articles from, popular-scientific and professional scientific journals from the scope of natural sciences and agricultural sciences. The thematic detailed scope of the base looks as follows: agriculture, forestry, wood technology, theory about feeding, dietetics, human diseases, plants and animals diseases, animal husbandry, plant breeding, agricultural technique, land reclamation, horticulture, wood technology, ergonomics, environmental protection, ecology, zootechnics, veterinary science, the economics of agriculture, biotechnology, biochemistry, microbiology, farm tourism, wood industry, food industry, leather industry, refrigeration industry, meat industry, fermentation industry, processing of fruit and vegetables, bakery and confectionery industry, environmental engineering, European integration along with the EU legislation, quality management, quality systems, organization of enterprises, managing of the organization, food safety, food economy, geodesy and other.

To December 2006 she was a base commercial, available only to authorised users. From January 2007 by now she is being made available in the free access.

A signed funding partially the project of the Fri. agreement stayed in 21 September 2009: "The expansion and converting the bibliographical AGRO database into the base bibliographical-abstract with using the YADDA software", between Minister of Science and of Higher Education represented by Grzegorz Żbikowski - of the head of a Department of Computer Systems and with Poznań University of Life Sciences, represented by the Prof. Grzegorz Skrzypczak - the rector of Poznań University of Life Sciences and Barbara Gierszewska-Szrajber - of bursar of Poznań University of Life Sciences. Project co-finance was from centres of the European Regional Development Fund as part of the operational programme Innovative Economy "Subsidies to innovations - we are investing in your future".

Applying advanced technologies computer, administered to the purpose was an aim of the project creating quick electronic information about stores and results of researches and providing access to them for the scientific community and organizations in Poland and abroad and enabling to keep the more_than_regional database, containing information about results and conditions of the access to results of research projects. The project was carried out from

1 January 2009 to 31 January 2014, but the total cost of implementation amounted

4852298, 00 PLN. To the moment of receiving funding partially records of the AGRO base didn't contain abstractions and the enclosure bibliography.

3. REALIZATION OF THE LATEST PROJECT

In the project carried out at present 25 working persons were employed in scanning abstractions and enclosure bibliography of both attaching them for records existing and new-incurred of the AGRO database, with using the OCR software and attaching full texts to chosen titles and annual bound volumes of journals (agreements with publishers) and in translating keywords from Polish into English in records existing and new-incurred of the AGRO database. Records of the base (bibliographical descriptions of individual articles along with affiliations of all authors and with keywords reflecting the plot of articles) 34 persons are creating. Annually he is moving the 45 000 base of records in. For 22 July 2015 the number of records in the base ended with the 541 700 number of records. All scanning persons and authors of records were trained, before setting about working in the project implementation, under the angle of the specificity of performed tasks.

4. ELEMENTS OF THE PROMOTION OF THE PROJECT

As part of the promotion of the project an exhibition was organised: "Information Advantages and Functional AGRO database". The exhibition is put in the entrance hall of the Main Library and Centre of Scientific Information of Poznań University of Life Sciences, 45, Witosa Street in Poznan. The exhibition is made available from 06.07.2015 – 31.12.2015.



Wystawa

„WALORY INFORMACYJNE I UŻYTKOWE BAZY AGRO”

Tytuł projektu:

Adaptacja metadanych AGRO do Polskiej Bibliografii Naukowej i POL-indexu

Nazwa beneficjenta	Uniwersytet Przyrodniczy w Poznaniu
Wartość projektu	3 287 216,00 PLN
Udział Unii Europejskiej	2 794 133,60 PLN
Okres realizacji	2014-2015

PROJEKT WSPÓLFINANSOWANY PRZEZ UNIĘ EUROPEJSKĄ
Z EUROPEJSKIEGO FUNDUSZU ROZWOJU REGIONALNEGO



Poznań, 6.07.2015 – 31.12.2015

Fig. 4. Front page of the leaflet from the exhibition promoting the project

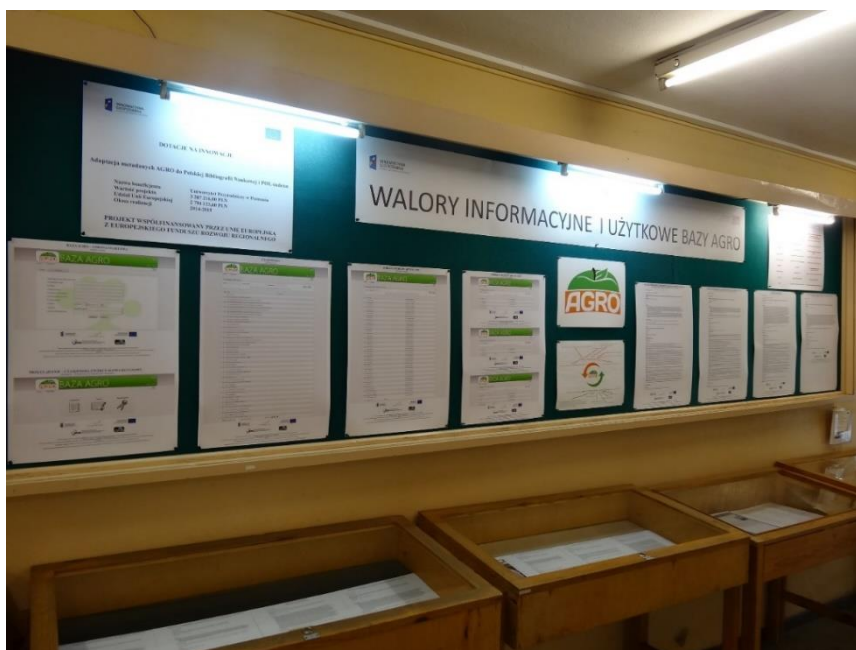


Fig. 5. Fragment of the exhibition promoting the project

5. USERS OF THE AGRO DATABASE AND ELEMENTS OF THE STATISTICS OF FOR HER USING

AGRO database, enjoying the meaning position on the market of digital information, very much with good opinion at users, created through experienced unite author's and senior staff, having source adequate resources, he is ensuring the appropriate quality of data and is being used every year by the large number of users.

The degree of an interest in the AGRO base is very high what quoted below statistical data of using the base in years 2012 are attesting to and 2013. Number of users unique IP is in 2012 a year of 6256 persons monthly (an average number of users was accepted), e.g. in December the number of users amounted to 8 838 of persons. In January 2013 we are observing the appreciable increase of using the base, monthly average (from the January up to the March) is ending with number 12160 monthly unique IP. This number in 2013 is twice higher than, in the last year. The number of the visit on the website in 2012 took the AGRO base out 258046, from the January up to March 2013 appropriately 103558.

Scenes on the side i.e. to the Web server bases in the analysed period are closing the number of enquiries sent by viewers oneself with number 15449281 in 2012, whereas in 2013 the year in the period since January is taking out into the March 4489394. The number of fulfilled enquiries through the server in the discussed period is taking out appropriately: in 2012 - 11477704, in the period from the January up to March 2013 - 3412744.

Statistical data from the first half of 2015 (01.01.2015 - 30.06.2015) look as follows: number of users unique IP amounts to 106 423, the number of the visit on the website took bases out within 6 months 2015 of 158 283 year. Scenes on the side i.e. to the Web server bases in the described period are closing the number of enquiries sent by viewers oneself with 2 513 434 number, but the number of fulfilled enquiries on the side it is 16 539 407.

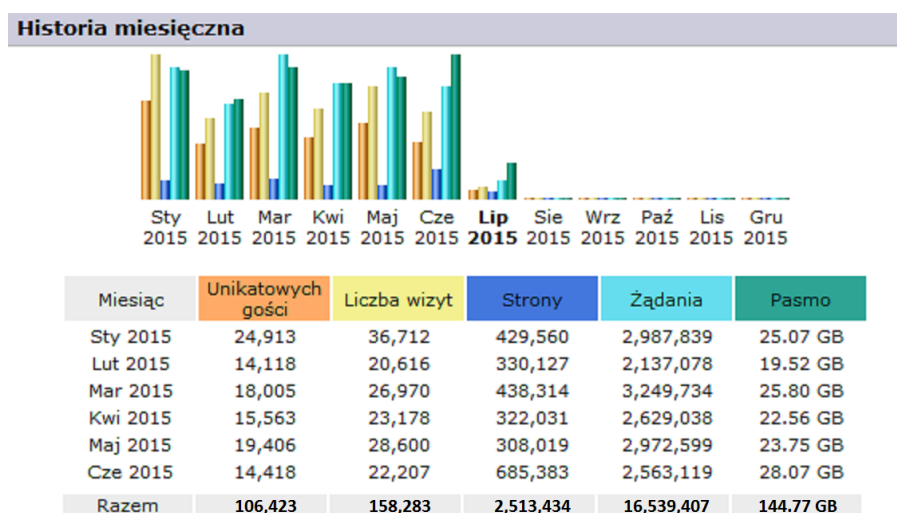


Fig. 6. Statistics using AGRO database

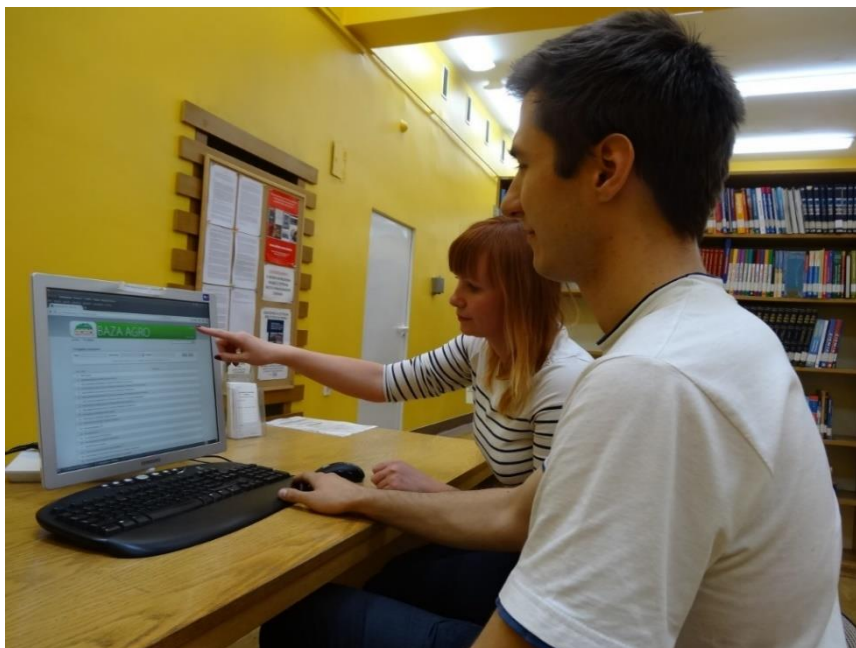


Fig. 7. AGRO database users

The graphical new construction of the base allows for redoubling search possibilities for the users searching for literature to the subject it being interested in them. Platform the Library of the Learning lets the contents of the base the inspection according to titles of articles, surnames of authors, titles of journals and keywords in Polish and with English. Two dictionaries of keywords are put in the interface of the base: Polish and English.

Using the base one should choose the tongue. It is possible to search the base simultaneously in two languages using the OR operator. Narrowing the subject of searched documents by using the AND operator is a great convenience. Searching the AGRO database according to titles of journals the user has an access in all index titles, generations, volumes and numbers and articles. It is possible also to search for articles according to names of their authors.

They are new elements of the graphical structure: colours, decorative advantages and implementing the AGRO logotype. At present the AGRO database is holding agreements with publishers for putting full texts of articles in 83 titles of journals. It is possible to search metadata of the base also under the executioner of full-text journals.

6. COOPERATION OF AGRO AUTHORS WITH ICM, OTHER DATABASES AND PUBLISHERS OF JOURNALS

For the author bases are cooperating with the Interdisciplinary Centre of the Modelling of Mathematical and Computer of Warsaw University in Warsaw in the current maintenance and the maintenance of the server, in it of the software maintenance, the archiving, the safety assurance and the data integrity, providing the server and the lease of the place for the contact on the server and all activities essential for keeping the service about character of system administration. The cooperation is developing also, through common trainings and trade meetings, with other Polish databases which are being spread on the ICM platform "Library of the Learning", that is: CEJSH, BazEkon, BazTech, PSJD and DML. A cooperation with publishers of journals is very important to a base, both under the account arrange the meeting for putting of full texts articles in the base, as well as of close cooperation of the AGRO database associated with creating and sending metadata by publishers of magazines to POL-index.

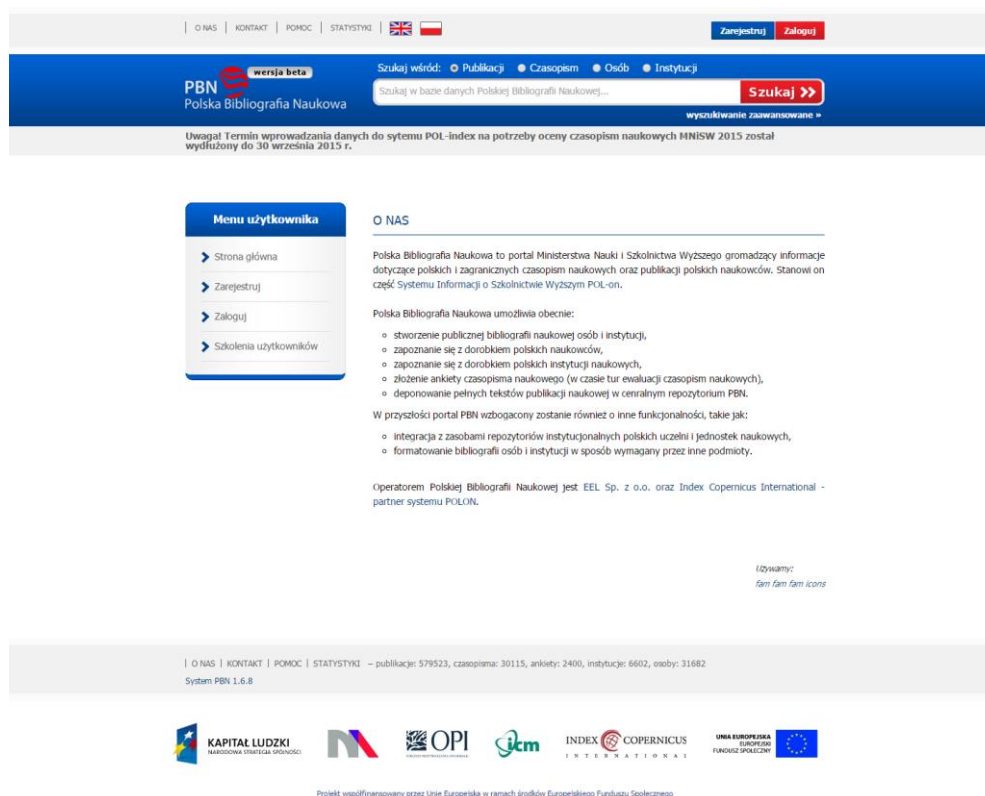


Fig. 8. Polish Scholarly Bibliography <https://pbn.nauka.gov.pl/>

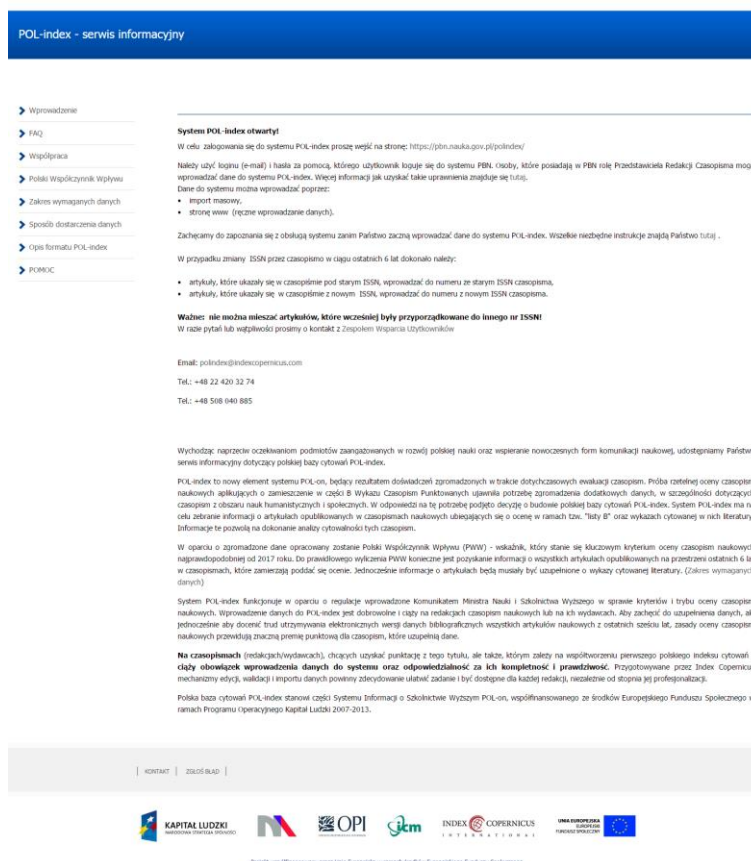


Fig. 9. POL-index <https://pbn.nauka.gov.pl/polindex/info/>

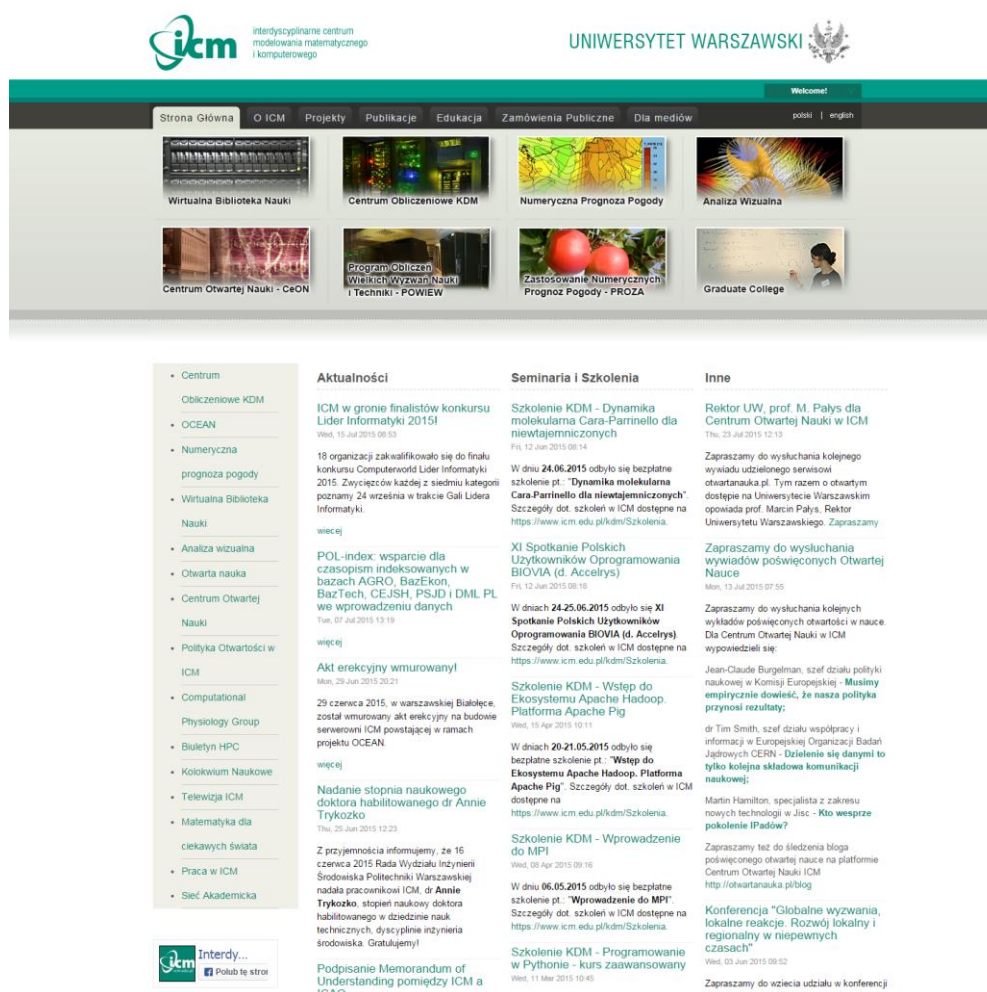


Fig. 10. Interdisciplinary Centre of the Modelling of the Mathematical and Computer Warsaw University (ICM) <http://www.icm.edu.pl/web/guest/home>

On 4 July 2015 a Regulation of Minister of Science and the Higher Education came into effect from 29 June 2015 on the Information System about the Learning, D. U. of 2015 pos. 944, data preparations implementing substantial changes for scientific units in the scope for contributing towards the Polish Scientific Bibliography. It is crucial, from the perspective of the Polish Scientific Bibliography legal document, determining: legal grounds of the accumulation of some data, the scope of data, as well as dates of leading them.

With reference to the above bibliographical bases forming the Library of the Learning, including the AGRO base, declared the readiness of supporting journals in putting data in the POL-index system. On 22 July 2015, after acquiring appropriate laws of the user, they effected the first test export from the AGRO database into the publisher of the title of the journal index in the AGRO base to the required format. From now on, at the request of publishers of journals, authors of the base are ready AGRO for sending metadata required by the mentioned above Regulation for the purposes of POL-index and the Polish Scientific Bibliography. Fulfilling this task requires employing the entire team carrying out a project, and without funding partially this task would exceed abilities of the library and would be unfeasible.

Summary

The AGRO database as the tool in the digital form about the content of Polish journals, thanks to applying IT new technologies, is contributing in the time of the information society to the rise of the importance of science in the economic development, to the increase in the competitiveness of the Polish science, as well as increasing the innovation of enterprises.

System of the providing access to information included in the base is creating the electronic public service for citizens and entrepreneurs. He guarantees the development of Polish digital stores on the Internet, which stores are essential and meaning for the Polish economy and the entrepreneurship development. Within the author's team built 21 years and strengthened the mark of the AGRO base as information products and services. He guaranteed the appropriate level and the development and making the service rich by giving new elements and the function. Put effort into creating the AGRO database caused, that she is recognizable on the market, provides satisfaction for users through the quality, meeting their needs and expectations in the European sector of the public service.

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