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### **Integration of Polish National Bibliography within Repository Platform for Science and Humanities : the Case of SYNAT Project.**

The SYNAT Project aims to develop an universal open hosting and communication platform for knowledge resources for science, humanities, education and open information society. It is being developed since 2010 by 16 institutions (libraries, universities, research centers and networks) and is scheduled for completion in 2013. The assignments for National Library of Poland and other library partners include identification and description of relevant collections to be integrated in SYNAT System. It covers the Polish National Bibliography and digital collections. Another field of interest is the problem of identification, selection and cataloging of high quality web resources, which will be part of SYNAT platform. The final effect of SYNAT Project will be the integrated system of knowledge resources, including national bibliography and other bibliographic databases, digital collections, institutional and domain repositories, theses and dissertation databases and high quality web resources for science, humanities and education.

The process of integration of Polish National Bibliography within the SYNAT Project includes inter alia metadata issues, information retrieval models and techniques and modes of information presentation. The metadata level includes the use of ontology as a method for modeling the bibliographic universe. The formal models of data representation together with MARC21 records and authority records conversions allow for integration with SYNAT processing mechanisms. Research conducted on this level aims to adapt existing ontologies (CIDOC CRM, SWRC - Semantic Web for Research Communities, etc.) for SYNAT requirements. It will enable the application of semantic search mechanisms on information processing level. The SYNAT will be a distributed system which allows for different levels of scalability. Therefore access to the Polish National Bibliography will be standalone or integrated within multisearch interface. System will act as a networked communication platform and the Polish National Bibliography can be used for construction of list of publications or topical/subject bibliographies. The integration of the Polish National Bibliography within SYNAT Project allows for multifaceted use of its content both on information retrieval and social levels.

Another field of interest for library partners within SYNAT Project is to broaden the bibliographic offer with database of high quality web resources for science, humanities and education. A methodology for identification, selection and description of relevant web resources has been developed. The lesson we have learned from subject gateways approach allowed for establishing a list of selection and quality criteria for web resources. The documentation of DESIRE Project (Development of a European Service for Information on Research and Education) was a basis for a methodology of assessment information quality. The MARC 21 for electronic resource has been chosen as a basis data format. It allows for data integration with OPACs and also for direct record presentation on library catalogue level. The collection of web resources descriptions eventually will be converted into SYNAT Dublin Core Application Profile. The research which is being done by The National Library of Poland together with other library partners is an important step towards inclusion of description of web resources in national bibliographies. The results allow for development of consistent methodology and tools for these activities held by Polish national bibliographic agency.