

# The Open Source Software – One of the Possible Successful Solutions for Digitisation in the GLAM Institutions (Based on the Experience of the NALIS Foundation - Bulgaria)

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Transform4Europe:  
The European University for Knowledge Entrepreneurs  
Letter. Heritage. Identities  
Roundtable  
Sofia University “St. Kliment Ohridski”  
29.01.2025

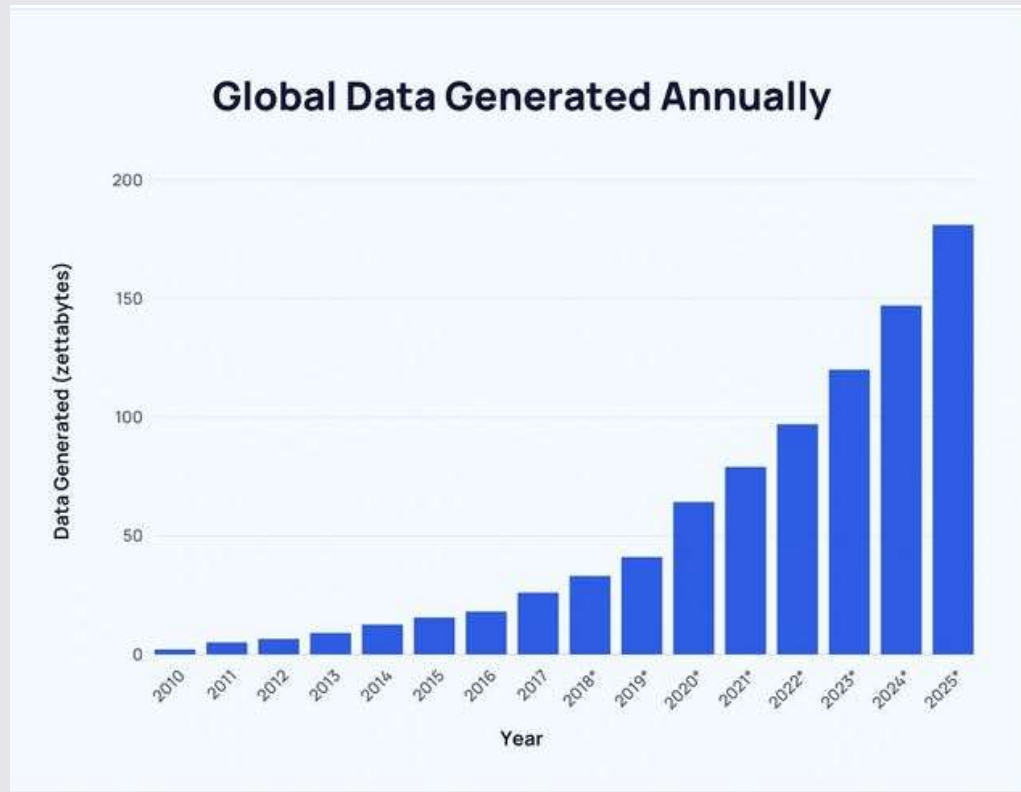




# Context Is Everything!

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# Data Creation Growth Projections



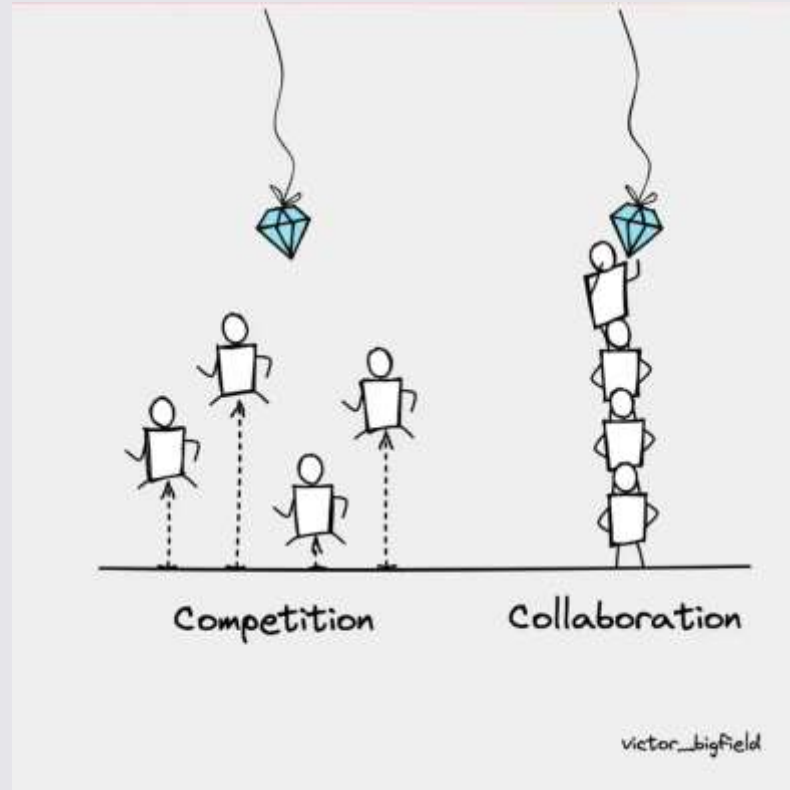
The **120 zettabytes** generated in 2023 are expected to increase by over 150% in 2025, hitting **181 zettabytes**.

# What is the right solution?

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# Collaboration is inevitable



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# To Shared Consortial Systems



Marshall Breeding

“Transitions from individual library implementations to shared consortial systems may be able to produce lower technology costs per institution and increased impact of collection resources.

Discrete institutional system implementations represent the most costly model of automation and may be a luxury many libraries will not be able to justify in times of extreme budget pressures...”

# Overcoming of mistrust of open-source software



Marshall Breeding

“Open source software is a key option libraries should consider when implementing strategic technologies.”

“... open source products provide a viable alternative and exert competitive pressures, both in cost and innovation.”

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# Overcoming of mistrust of open-source software



Paul Pollan

Debunked several myths, existing in our society:

- Open Source is not sustainable;
- Open Source is not reliable;
- Open Source is free (cost nothing);
- Open Source need a IT proficiency.



# Our Practice

<http://www.nalis.bg/>





NALIS

FOUNDATION

NATIONAL ACADEMIC

LIBRARY AND INFORMATION

SYSTEM

*Click to knowledge*

founded on March 6, 2009

<http://www.nalis.bg/>



# Main objectives:

- **technological improvement** of Bulgarian libraries
- create a **national union catalogue** providing access to academic and regional library resources via a single portal
- develop a **national digital platform** to preserve Bulgarian cultural heritage and scientific achievements



# A model for shared use of hardware and open-source software guarantees:

economic efficiency	library optimization
Reduction of the costs for software, hardware and salaries of IT specialists, as we work at one place and at optimal workforce organization	Standardized and centralized method of libraries activities saves time since many of the processes in the different libraries can now be performed at one place
The subscription fees decrease when more libraries get involved in the project	This method also enables easier management of the information resources
An easier way of planning and cost accounting based on advance guidance for hardware and software development	Optimizing the time for providing with the necessary information the science and business in Bulgaria



## A model for shared use of hardware and open-source software guarantees:

Ready bibliographic records could be used. Another asset is that good practices could be shared among the libraries

24-hour access to the systems gives independence to the patrons while searching for information. It increases the self-service and registered patrons as it lowers the number of those physically present at the library. An increase of libraries popularity.

vufind<sup>®</sup>

Search. Discover. Share.

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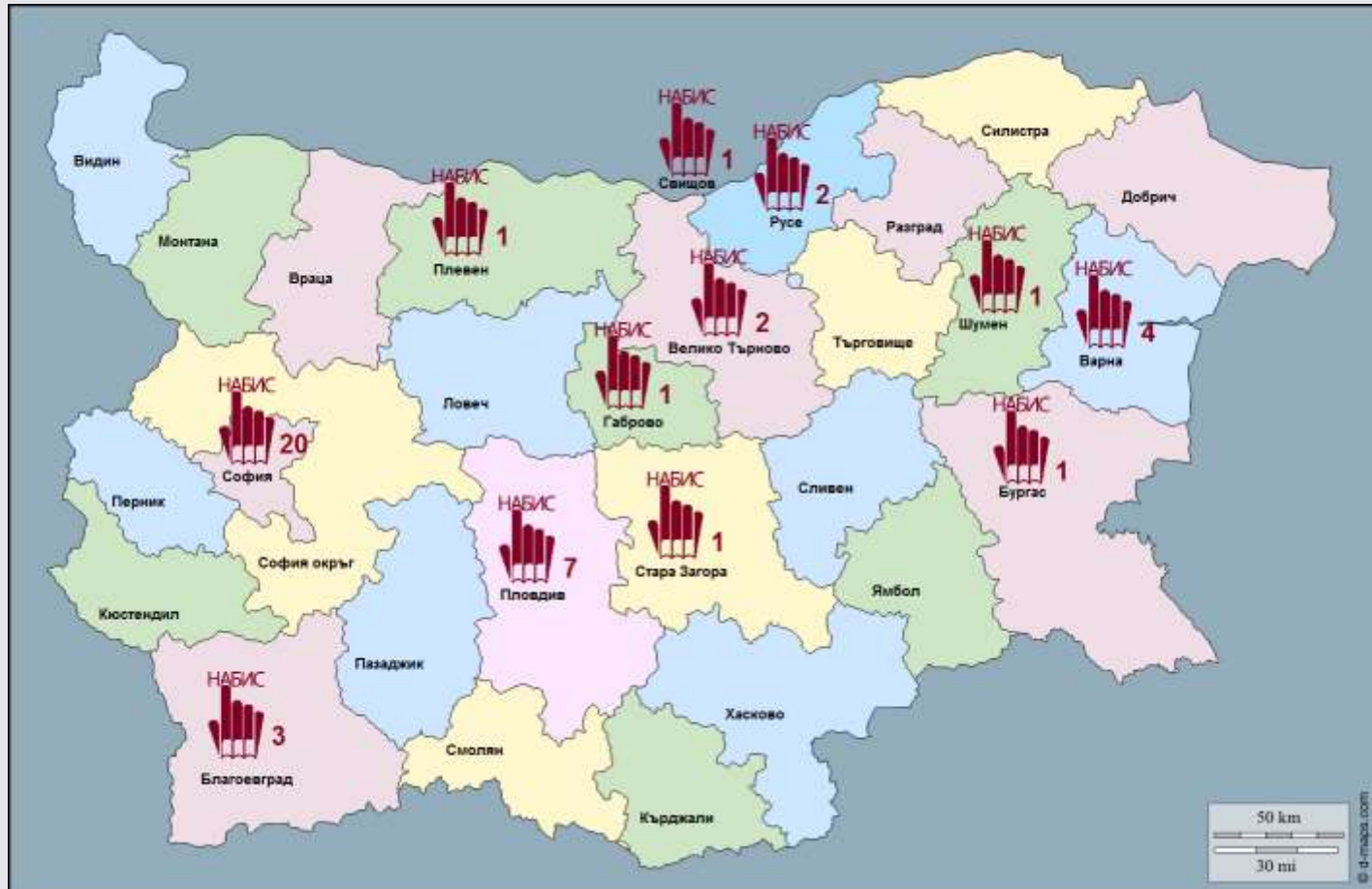
# NALIS Union Catalogue

(NEARLY 3,6 MILLION BIB RECORDS)



from OPAC

of more than 45 Bulgarian libraries



- ✓ University libraries – 41
- ✓ Public libraries - 7



# The integration of data created by different software systems and standards

- ALEPH500 by ExLibris
- EOS.Web by Sirsi Corporation
- Koha, open-source software
- DSpace, open-source software
- EPrints, open-source software
- Automated Library software of PS-TM Ltd.
- i-Lib software of SoftLib Ltd.

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# NALIS Union Catalogue

The screenshot shows the NALIS Union Catalogue search results for the query 'annals'. The interface includes a search bar at the top with the text 'annals' and a 'Find' button. Below the search bar, there are filters for 'Institution', 'Format', and 'Call Number'. The 'Institution' filter shows results from Sofia University Library (1,288), Bulgarian Academy of Sciences (687), American University in Bulgaria (158), New Bulgarian University Library (12), American Research Center in Sofia (25), and Medical University of Plovdiv (22). The 'Format' filter shows results for Book (1,288), Serial (201), eBook (111), Article (184), Journal (58), and Electronic (58). The 'Call Number' filter shows results for Q - Science (62), D - World History (58), H - Social Science (75), P - Language and Literature (31), B - Philosophy, Psychology, Religion (21), and R - Medicine (18).

Suggested Topics within your search include History (118), ИСТОРИЯ, средновековие (20), ИСТОРИЯ General (20), and ИСТОРИЯ Historiography (18).

Search alternatives: annals > [annals](#)

Showing 1 - 20 of 2,386 for search: 'annals'. Sort: Relevance

**Annals**  
by: Tacitus, Cornelius  
Published: 2008  
Call Number: PA6785 .A6 B4 2008  
Available at American Research Center in Sofia

**Annals**  
by: Tacitus, Cornelius  
Published: 1983  
Call Number: PA6785 .A6 B4 1985  
Available at American Research Center in Sofia

The **annals** : the reigns of Tiberius, Claudius, and Nero  
by: Tacitus, Cornelius  
Published: 2008  
Table of Contents: ... Chronology of Significant Events, Map of the Roman Empire in the Julio-Claudian Period, THE **ANNALS** , Appendix...  
Call Number: DG207.T3.Y37.2008ob  
Online Access from American University in Bulgaria

The **annals** the reigns of Tiberius, Claudius, and Nero  
by: Tacitus, Cornelius  
Published: 2008  
Call Number: DG207.T3.Y37.2008ob  
Online Access from American University in Bulgaria

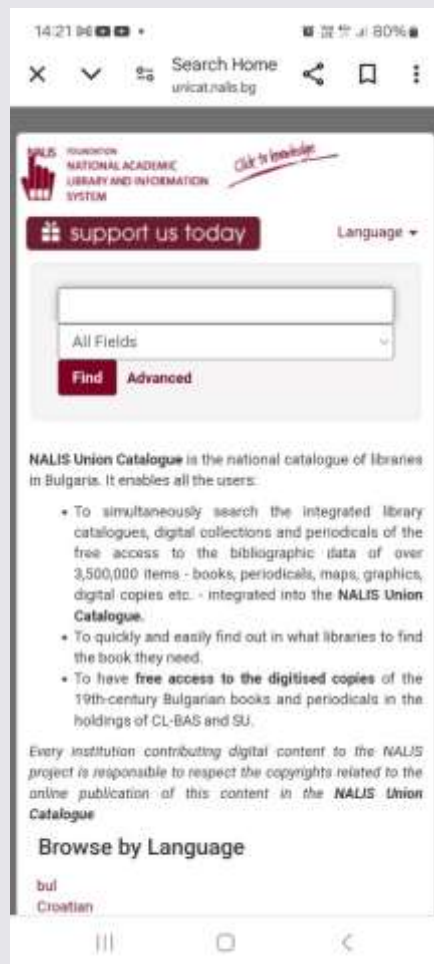
The **annals** : Books IV-VI., XI-XIII. :  
by: Tacitus  
Published: 1998  
Call Number: B71-7 T 11  
Check holdings at New Bulgarian University Library

The **annals** : Books XIII-XVI. :  
by: Tacitus

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# NALIS Union Catalogue – mobile version

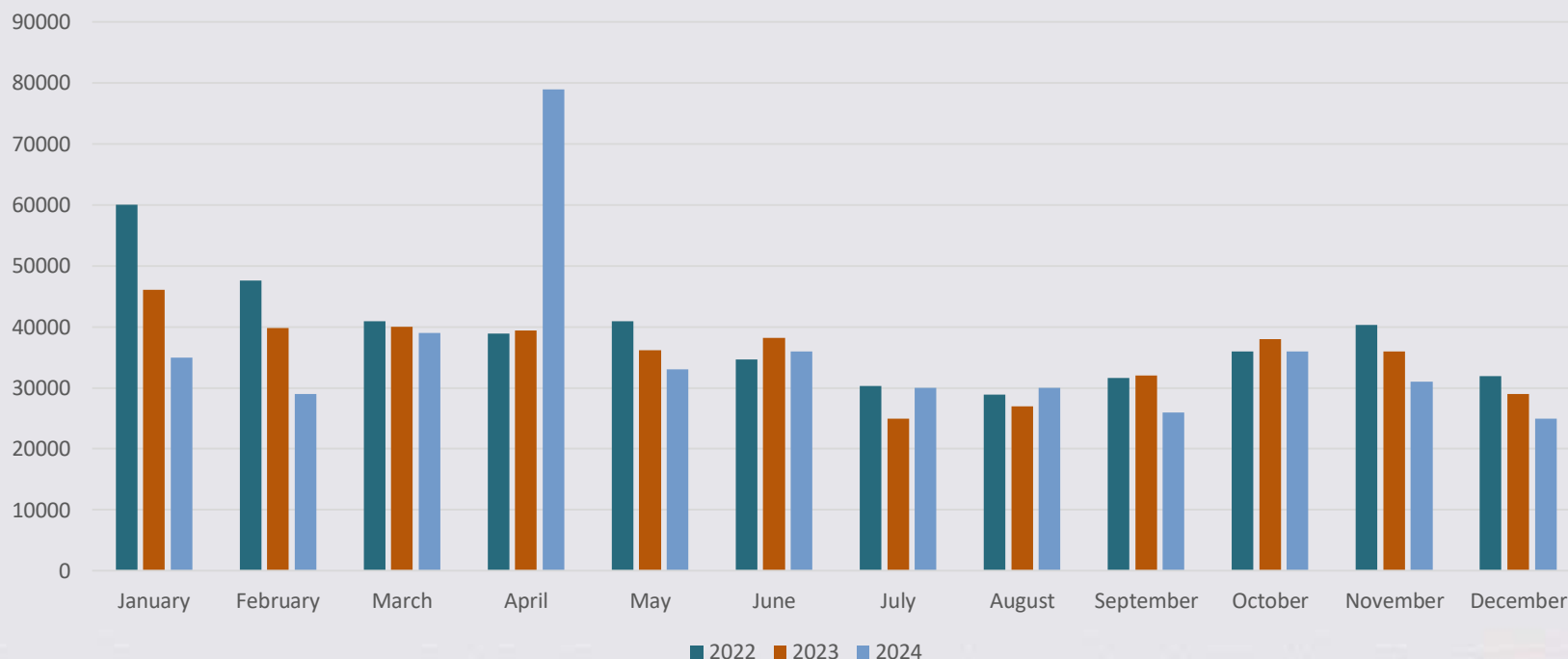


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# OVER 1,175 SEARCHES PER DAY

Number of Searches in the NALIS Union Catalog per months



<http://www.nalis.bg/>



# Potential:

Creating a register of Bulgarian scientists:

- Scientific biographies
- Register of publications
- Access to abstracts and full texts
- Information on availability of their works in Bulgarian libraries
- Links to major bookstores

<http://www.nalis.bg/>





OPEN SOURCE LIBRARY SYSTEM

<http://www.nalis.bg/>





Software and Hardware for Shared Use:



Software on User's Hardware:



<http://www.nalis.bg/>





<http://www.nalis.bg/>





# NALIS Repository

Old printed books

Old printed periodicals

Manuscripts on paper

Manuscripts on microfilms

Archival documents

Photographs

Audios  
Videos

<http://www.nalis.bg/>





DSPACE

Until 2021 Software and Hardware for Shared Use:



Software and Hardware for Shared Use:



ТРАКИЙСКИ УНИВЕРСИТЕТ  
СТАРА ЗАГОРА

Software on User's Hardware:





## Latest installation Software and Hardware for Shared Use:



<http://www.nalis.bg/>



# The NALIS Collection is funded by the EuropeanaPhotography Project -

CIP ICT PSP pilot B project  
1-st February 2012 – 31-th January 2015



<http://www.nalis.bg/>



# More than 15 000 images submitted by NALIS



Boris III of Bulgaria and Giovanna of Italy –  
the celebration of the royal wedding in Sofia, 1930

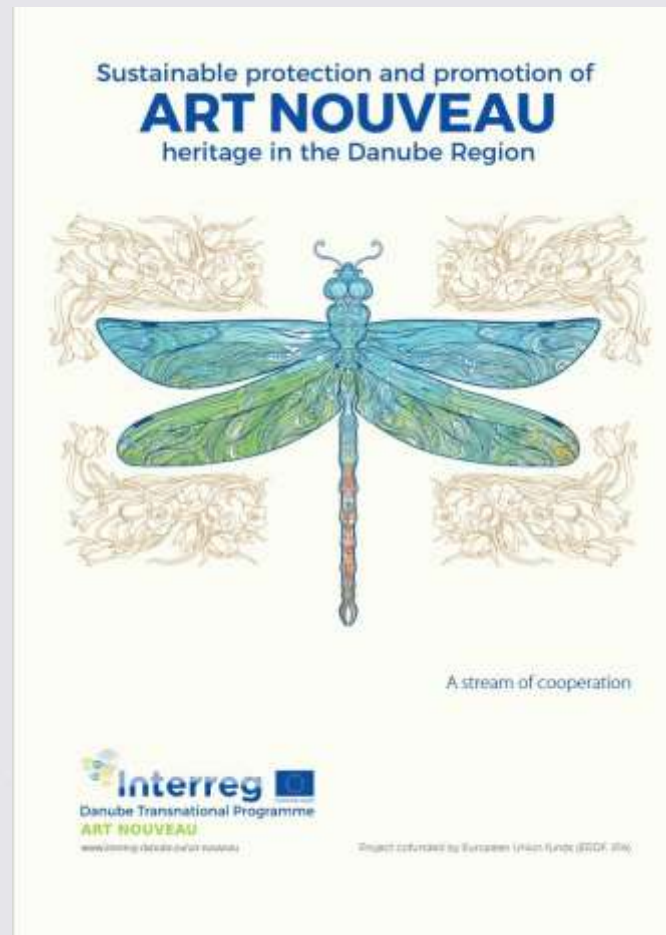
<http://www.nalis.bg/>

# The project expands into:



<http://www.nalis.bg/>

# ART NOUVEAU (01.01.2017 – 30.06.2019)



# REviveU (2019 – 2020)





# CitizenHeritage 2021

**citizen Heritage** Home Resources and Events ▾ Results About the project ▾ News Contact

## History in pictures from Bulgaria



Ekaterina Karavelova with her eldest daughter Vola. Image in PD, NALIS Foundation.  
Ekaterina Karavelova (1860-1947) is the founder of the Bulgarian Women's Union, chairwoman of the Bulgarian section of the International Women's League for Peace and Freedom, founder of the Committee for the Protection of Jews, wife of Petko Karavelov.

### PROGRAMME

**26th May 2021, h. 10-12 Bulgarian time**

- 10.00 Welcome greetings, *prof. Milena Milanova, Sabina Aneva*
- 10.15 Presentation of Citizen Heritage project, *prof. Fred Truyen (PDF)*
- 10.30 Scope of the workshop, *Antonella Finsa (PDF)*
- 10.40 **Participants' survey**, *prof. Trilce Navarrete*
- 10.45 CrowdHeritage: a crowdsourcing platform for enriching cultural metadata, *Spyros Bekiaris (PDF)*
- 11.00 Methodology of participatory annotation, *Sofie Taes (PDF)*
- 11.15 Hands-on experience >> [GO TO THE TOOL](#)
- 12.00 Conclusions

**27th May 2021, h. 10-12 Bulgarian time**

- h. 10.00 – 12.00 After a recap by Sofie Taes (PDF), the annotation work continues (session in Bulgarian language)

# Potential:

Expanding the NALIS Repository with cultural and historical heritage items kept in:

- Museums
- Galleries
- Radio Stations
- Film Archives
- TV Stations

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# Potential:

Expanding the NALIS Repository  
with scientific research items:

- Archive of scientific experiments
- Archive of archaeological excavations and other field works
- Restoration and conservation, etc.

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# See more on our website

<http://www.nalis.bg/>

**FOUNDATION NATIONAL ACADEMIC LIBRARY AND INFORMATION SYSTEM**

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Go to the  
**NALIS Union Catalogue**  
One click to 3,638,186 titles from 40 libraries in Bulgaria!  
NALIS Repository

support us today

11.10.2014  
On 11 October 2014, NALIS Foundation joined the Transnational Alliance for a Sustainable...

06.11.2014  
On 6 October 2014, at the annual General Meeting of the Charter Sofia Knowledge Dis...  
Knowledge Dis...  
Executive Director of NALIS Foundation was elected as a member of the Charter Sofia Knowledge Dis...

11.04.2014  
On October 10, 2014 Sofia became Executive Director of NALIS Foundation and was elected in an expert meeting of the Charter for a Service of National Excellence (CSE).

11.06.2014  
On September 11, 2014, NALIS Foundation was unanimously accepted as a full member of the Charter Sofia Knowledge Dis...

20.08.2014  
Prof. Dr. I. C. Stankov, the Chairman of the Board of Trustees of NALIS Foundation, with several national newspapers and magazines. The meeting was held at the Sofia University of the "St. Kliment Ohridski" and published on the 24.08.2014 on the WWW site.

Share news...

The founders of the National Academic Library and Information System Foundation (NALIS Foundation) are the Central Library of BAS (CL-BAS), the Sofia University "St. Kliment Ohridski" (SU) and the Adelphi University in Bulgaria (AUBG). The libraries of these institutions take the active part in the NALIS project started 2009 - apart from the CL-BAS, there are the Sofia University Library (SU) and the AUBG Library (AUBG).

# Thank you for your attention!

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