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)

Sabina Aneva
(Executive Director of NALIS Foundation - Bulgaria)

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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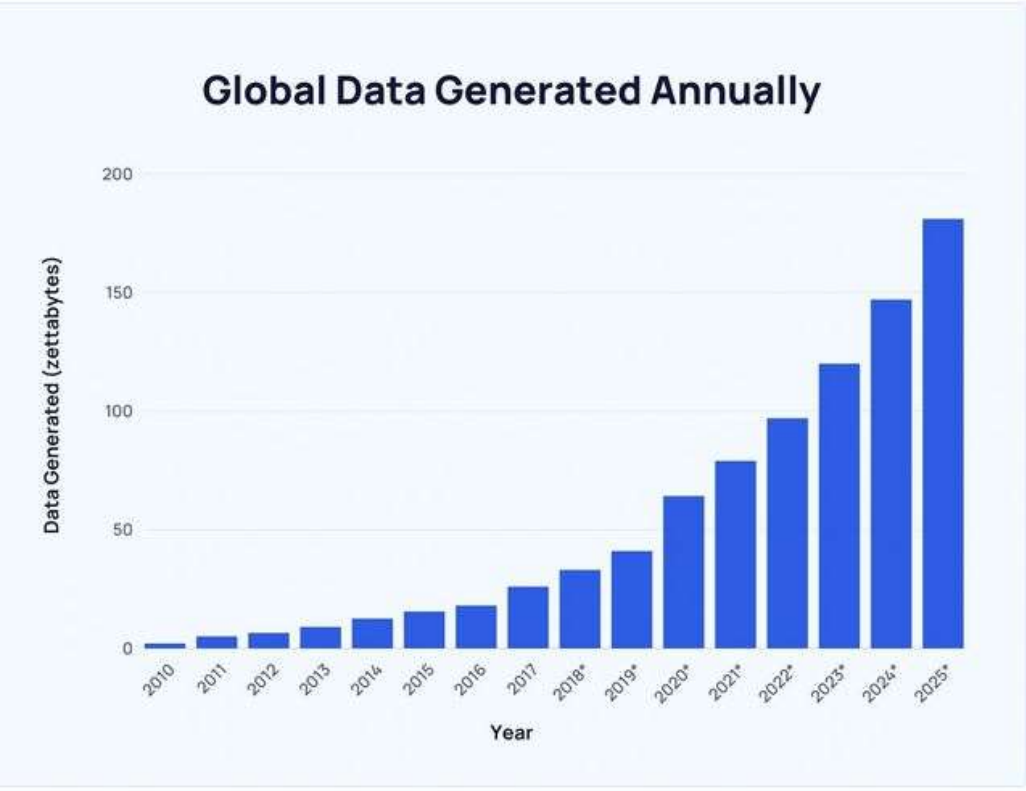
Data Creation Growth Projections



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

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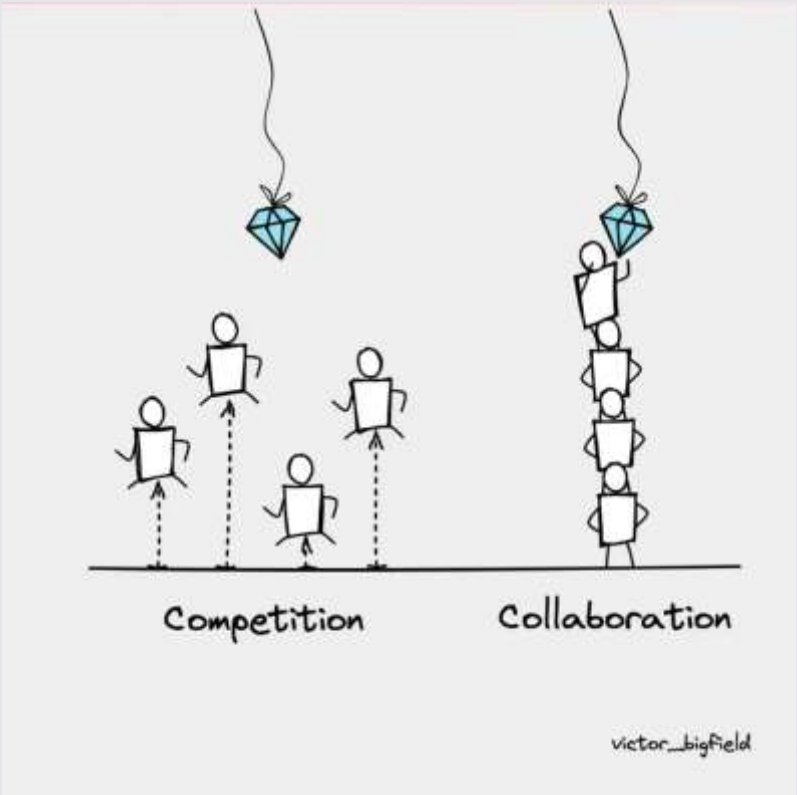
What is the right solution?

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 if free (cost nothing);
- Open Source need a IT proficiency.

Our Practice

NALIS FOUNDATION
NATIONAL ACADEMIC LIBRARY AND INFORMATION SYSTEM

Click to knowledge

founded on March 6, 2009

http://www.nalis.bg/

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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

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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.

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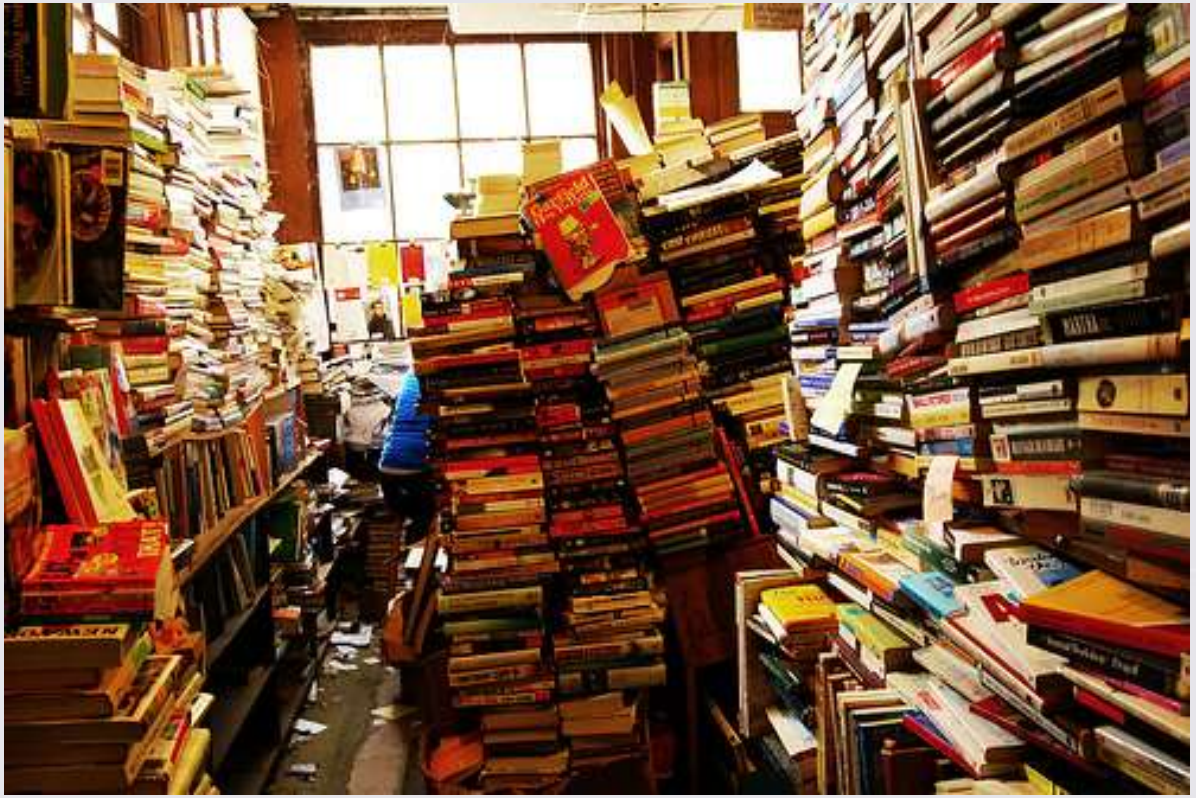
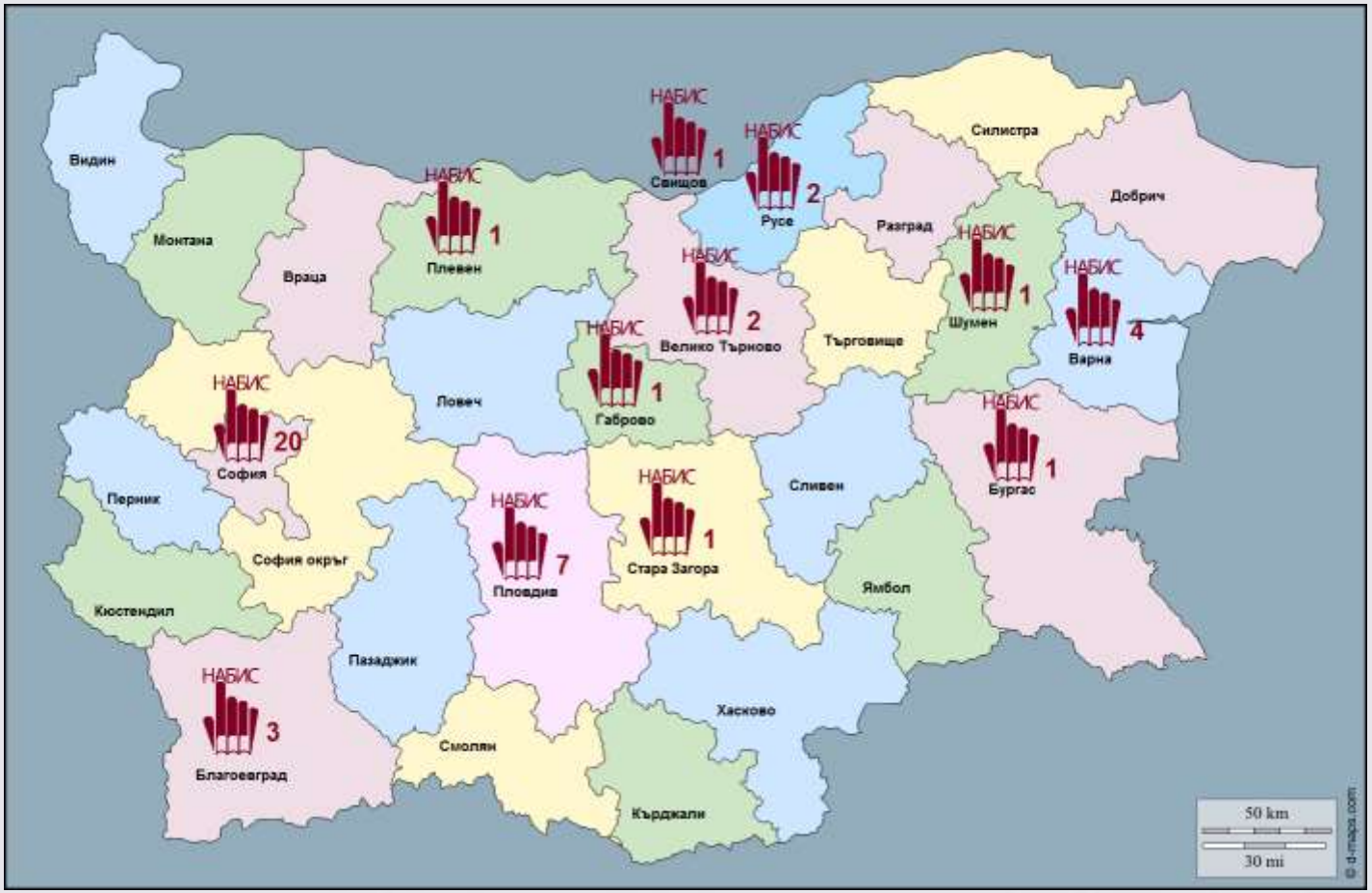
NALIS Union Catalogue

(NEARLY 3,6 MILLION BIB RECORDS)



from OPAC

of more than 45 Bulgarian libraries



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

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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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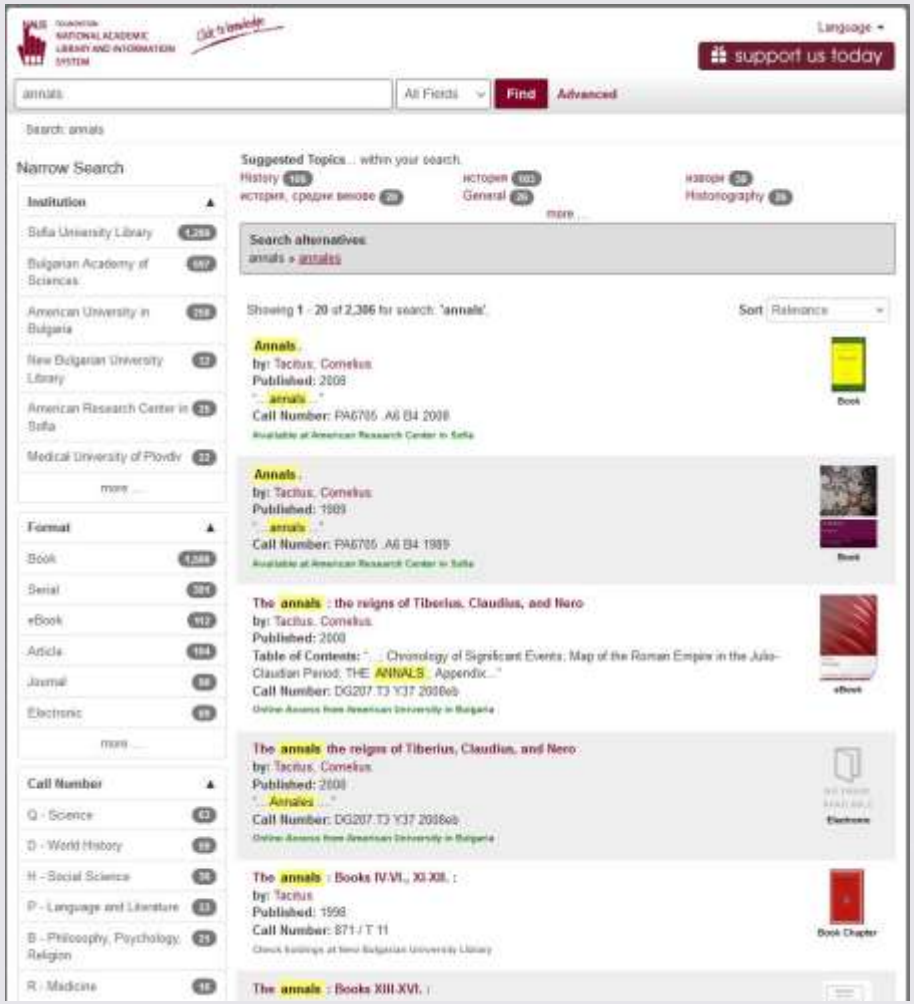
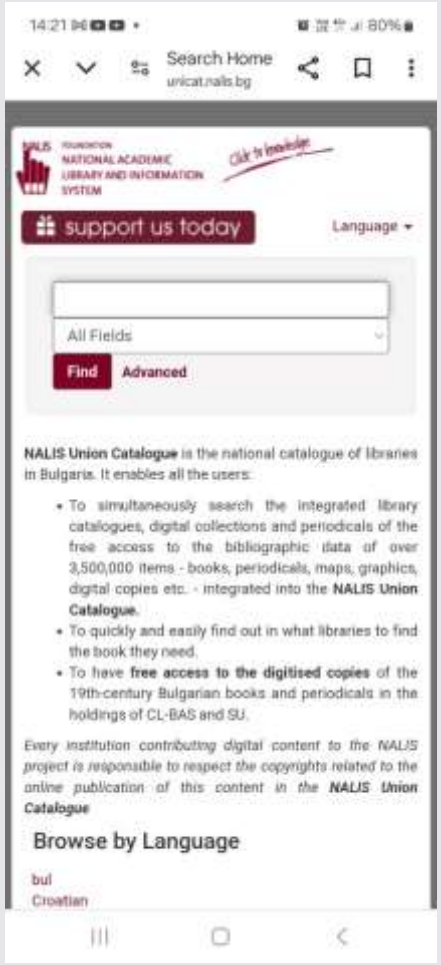
NALIS Union Catalogue



http://www.nalis.bg/

NALIS Union Catalogue – mobile version



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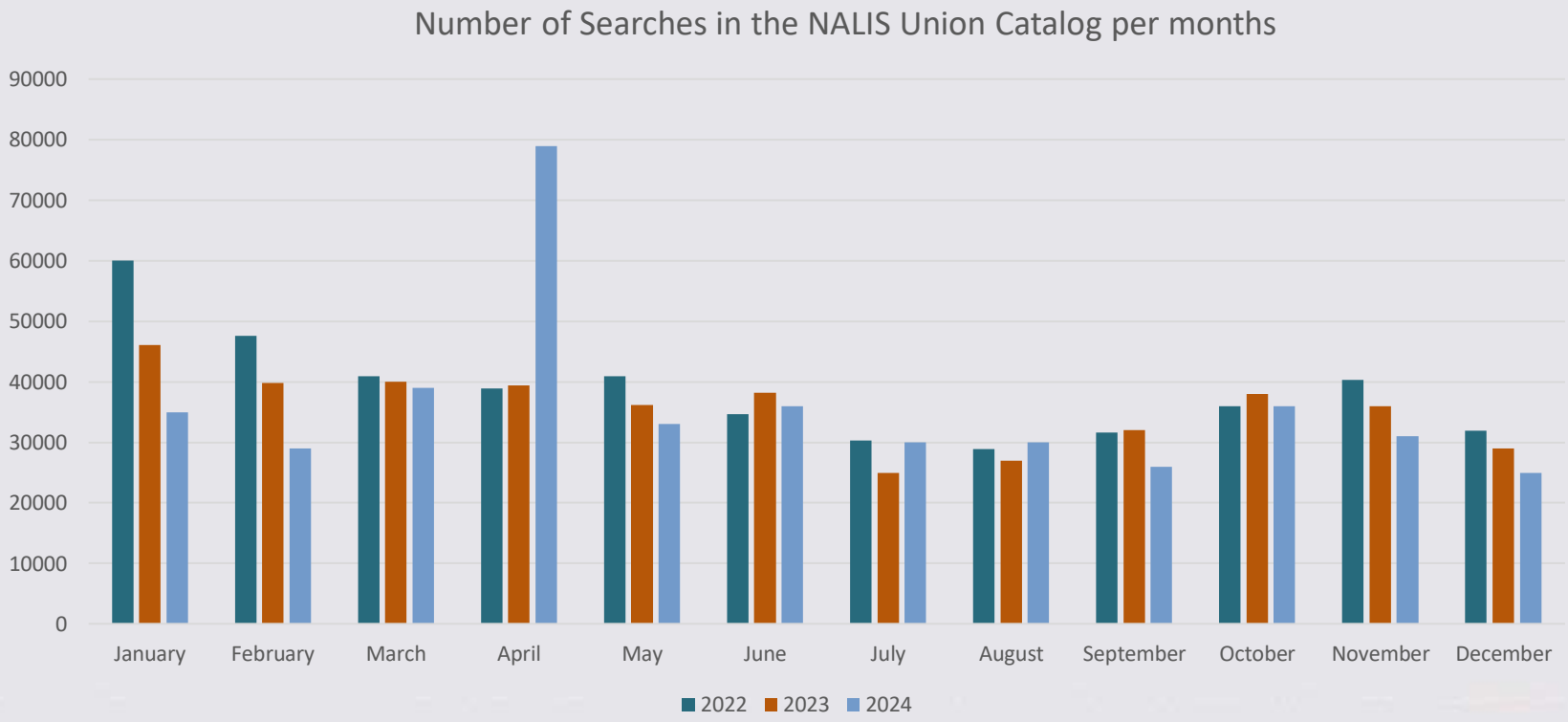
OVER 1,175 SEARCHES PER DAY



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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

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koha

OPEN SOURCE LIBRARY SYSTEM

Software and Hardware for Shared Use:

СИБ

65 ГОДИНИ

БИБЛИОТЕКОЗНАНИЕ
НАУЧНА ИНФОРМАЦИЯ
И КУЛТУРНА ПОЛИТИКА

Software on User's Hardware:

МЕДИЦИНСКИ УНИВЕРСИТЕТ ВАРНА

„ПРОФ. Д-Р ПАРАСКЕВ СТОЯНОВ"

120 години софийска духовна семинария

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NALIS

DSPACE

http://www.nalis.bg/

NALIS

NALIS Repository

Old printed books

Old printed periodicals

Manuscripts on paper

Manuscripts on microfilms

Archival documents

Photographs

Audios
Videos

http://www.nalis.bg/

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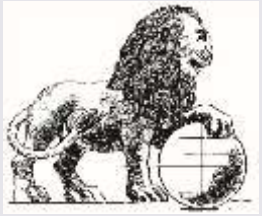
DSPACE

Until 2021 Software and Hardware for Shared Use:



AMERICAN UNIVERSITY INBULGARIA

Software and Hardware for Shared Use:

НОВ БЪЛГАРСКИ УНИВЕРСИТЕТ

65 ГОДИНИ БИБЛИОТЕКОЗНАНИЕ НАУЧНА ИНФОРМАЦИЯ И КУЛТУРНА ПОЛИТИКА

ТРАКИЙСКИ УНИВЕРСИТЕТ СТАРА ЗАГОРА

Software on User's Hardware:

„ПРОФ. Д-Р ПАРАСКЕВ СТОЯНОВ"

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DSPACE

Latest installation

Software and Hardware for Shared Use:

http://www.nalis.bg/

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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/

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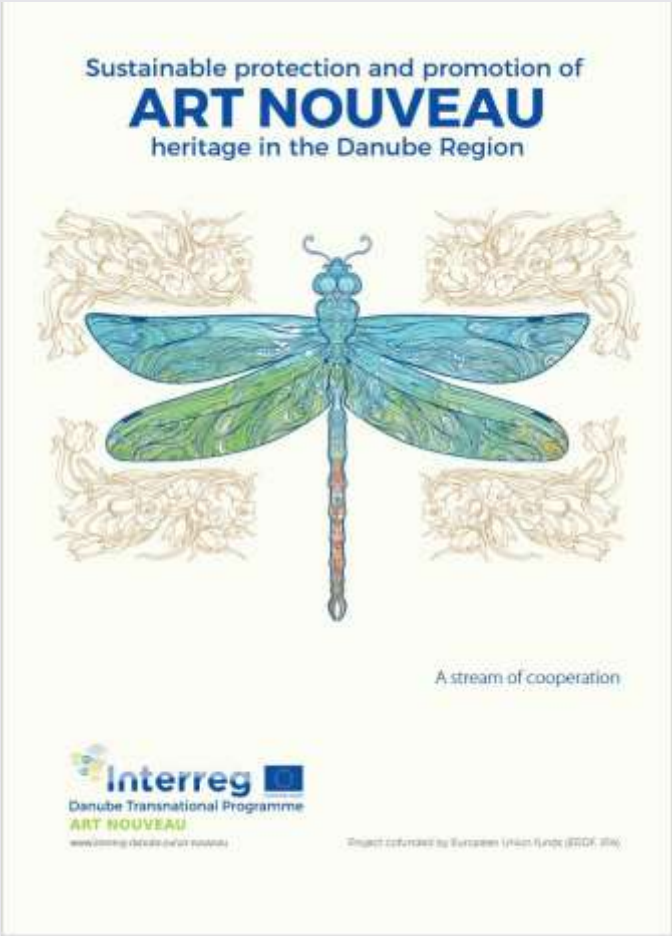
More than 15 000 images submitted by NALIS

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 Vida. 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 Fresa* (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)

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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.

See more on our website

http://www.nalis.bg/

Thank you for your attention!

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http://www.nalis.bg/