



Národní knihovna
České republiky
National Library
of the Czech Republic

The 2022 Annual Report

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The Introduction by the Director General

Dear colleagues, readers and users of the services of the National Library of the Czech Republic!

When we looked back at the endeavours and activities undertaken in 2021 in our previous annual report, we also had to take into account the limitations that came with the repeated waves of Coronavirus prohibitions, which had a significant impact on our work procedures and habits. This complicated period unequivocally accelerated the need for remote services, increased the value of the libraries' long-standing activities in the area of digitisation and also changed how organisations used the diverse datasets, which were the subject of an entire range of long-term projects. Unfortunately, not only society in general, but also our unique library network, including the National Library of the Czech Republic, faced further difficult tests in 2022. The most significant threats definitely included those based on cyber security, the deepening of internal disputes as to the definition of our national identity and the still ongoing military conflict in Ukraine and its economic effects, which have impacted each of us. It is, however, with great professional pride that I can boldly state here that the libraries performed well in these difficult times and confirmed their



exceptional standing in society. They further expanded their services on offer to meet any current needs (in both a physical and virtual form), they extended their role as community centres, built assistance centres to provide direct assistance, organised educational courses and provided further assistance to those in need.

The National Library of the Czech Republic also fully lived up to its privileged role in the overall library system in the previous year. I would like to take this opportunity to mention several areas that I consider critical. The organisation's most significant activities have long included the area of the digitisation of library collections and the provision of access to this data. The National Library of the Czech Republic not only successfully coordinated the digitisation process itself, but also undertook further steps as part of the improvement of access to electronic sources, continued coordinating the provision of access to data under special licensing conditions, launched an automated List of Out-of-Commerce Works, but also became the first cultural organisation to launch fully-fledged identity verification using a so-called bank identity and, last but not least, provided selected databases under open licences. All these steps can be considered to constitute significant feats in the area of the computerisation of the state sector.

The National Library of the Czech Republic also continued to present itself as an exceptional research organisation involved in national

and international projects focussed on the entire area of its activities. In 2022, its fundamental and applied research resulted in approximately fifty outputs, especially certified methodologies, software tools or expert monographs. It has also systematically dedicated itself to popularising its expert activities by means of unique exhibition events that were seen by thousands of visitors. The National Library of the Czech Republic also fundamentally highlighted its reputation as a respected organisation that is open to international cooperation in 2022. The library presented the results of its work through the organisation of significant international events, such as the Congress of Music Libraries and IAML Archives, in presentations at conferences or by participating in specialist working groups or organisations, by means of which it actively supported the presentation of the Czech Republic and Czech culture abroad.

I am aware of the fact that 2023 will once again be demanding for us. We have therefore naturally started the year with a number of concerns, but also with faith in our experience, abilities and our first-rate employees who are always open to new ideas, as well as in the stability of the National Library of the Czech Republic, an institution, for which terms such as democracy, social responsibility, education and progress are not just empty words, but basic principles for its everyday operations.

Mgr. Tomáš Foltýn
Director General

The background of the page is a halftone-style image of a library interior. It shows rows of bookshelves filled with books, and a person is visible in the foreground, sitting and reading a book. The image is rendered in shades of blue and white, with a grid-like pattern of dots.

The year's events

Securing access to the digital content of out-of-commerce works

The National Library of the Czech Republic dedicated itself intensively to the digitisation and provision of access to cultural heritage in a digital form. 2022 was the first year that can be considered to be standard from the point of view of the provision of access to digitalised documents in the out-of-commerce works (OOCW) mode. Four digital libraries offered the service providing access to digital documents in the OOCW mode in 2022:

- the National Digital Library of the National Library of the Czech Republic;
- the Digital Library of the Moravian Library in Brno;
- the Digital Library of the Czech Academy of Sciences;
- the Digital Library of the Research Library in Hradec Králové.

The main access to out-of-commerce works was provided via the *DNNT.CZ* portal, which also contains detailed information on all aspects of the OOCW service. The offer included more than 178,000 volumes of digitalised books from Czech publishers published up to 2007 and periodicals issued prior to 2012. In addition, the digital libraries also offered over 30,000 works in the public domain.

6,686,658 digital pages were displayed throughout 2022. Of that number, 3,524,470 pages (53 %) were from monographs in the OOCW mode, 2,122,047 pages (32 %) were from periodicals in the OOCW mode and 1,040,141 pages (15 %) were from public domain works. As such, approximately 557,000 pages were displayed every month. As Graph 1 indicates, the numbers of pages fell most significantly in the months of July and August, after which there was further growth.

263 libraries offered their users the OOCW service in 2022. Almost 1.6 million users, who were able to use the digital libraries in the OOCW mode, were registered in these libraries. A significant number of large libraries already offer the OOCW service, but smaller libraries are still hesitating about introducing new services. Most libraries use the edulD system to identify their users (151 libraries). The users from a further 112 libraries use the National Digital Library identity system (ID NDL) for identification.

The digital library at the National Library of the Czech Republic was used the most (74 % of the displayed pages), followed by the Moravian

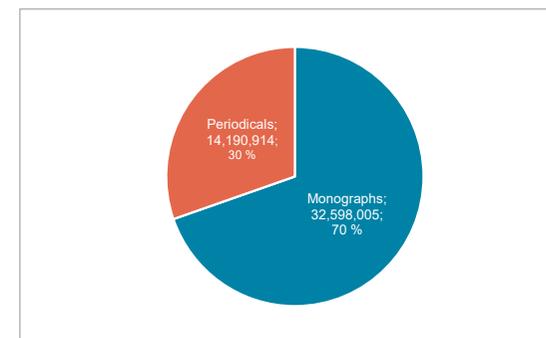
Library in Brno (21 %), the Research Library in Hradec Králové (3 %) and the Library of the Czech Academy of Sciences (2 %).

The *new system for the List of Out-of-Commerce Works (LOOWC)* operated by the National Library of the Czech Republic has been live since June 2022. The LOOWC is also one of the important prerequisites for the conclusion of licensing contracts on the provision of access to digitalised documents that are protected by copyright and also on the provision of access to the library's own documents between the collective administrators and the National Library of the Czech Republic.

The new application created with the support of the Ministry of Culture offers greater connectivity with the work agenda for evaluating applications and proposals and enables the transparent management of the agenda using a modern user interface with a higher degree of accessibility to the summaries and datasets of the works. The application enables the administration of requirements using the REST API machine interface and it can be further integrated with other library systems using the OAI PMH protocol. The application enables native integration with the Kramerius 7 system for the direct management of the published works without any need for direct intervention.

A significant step towards expanding and improving the access to the digitalised book collections in the years to come will include the new development of the *Czech Digital Library (CDL)*. In October 2022, representatives

of the National Library of the Czech Republic, the Moravian Library and the Library of the Czech Academy of Sciences signed a contract regulating their mutual cooperation during the development of the Czech Digital Library Project in the presence of the Minister of Culture, Martin Baxa, and the President of the Czech Academy of Sciences, Eva Zažímalová. In the future, it will be possible to use this digital library to search for and read the majority of the documents digitalised in the Czech Republic, i.e. not only those that are in the public domain, but also those copyrighted works that have been made accessible, for example, in the OOCW mode. The users of the Czech digital library will find expert books and magazines, as well as maps, manuscripts and early printed material, pictorial documents, sound recordings and sheet music among them.



The approximate number of pages of digitised periodicals and monographs offered in 2022 in the OOCW mode.

Opening the library databases in the so-called open data mode

In 2022, the National Library of the Czech Republic made three databases accessible to the public under a CC0 public licence:

- the Czech National Bibliography (CNB);
- the National Authority Database of the NL CR (AUT);
- the Central Directory of Libraries and Information Institutions of the Czech Republic (ADR).

The public CC0 licence enables the widest possible use of the database, both for commercial and non-commercial uses, without the need to state the authorship. The publication of the database under a public CC0 licence was undertaken with the approval of the Ministry of Culture of the Czech Republic, which is the founder organisation of the National Library of the Czech Republic.

A summary of the databases that have been made accessible can be found at <https://www.nkp.cz/o-knihovne/odborne-cinnosti/otevrena-data> (in Czech) and <https://www.en.nkp.cz/about-us/professional-activities/open-data> (in English). The databases have been made available in the XML format (the Czech National Bibliography and in the Dublin Core format) and are updated 1× a week.

The Czech National Bibliography database contains over 1,180,000 bibliographical records of documents published within the territory of the Czech Republic.

The National Authority Database of the NL CR contains over 1,138,000 authority records of the names of individuals, organisations and events, material terms, geographical terms, chronological information, unified names, formal terms, the Conspectus group etc. The National Authority Database of the NL CR has also been issued in the form of independent datasets according to the type of authority records, i.e. in a total of eight independent datasets.

The database of the Central Directory of Libraries and Information Institutions of the Czech Republic contains over 8,000 entries for institutions that cooperate or have cooperated in building the CEZL/CASLIN union catalogues, participate in interlibrary services, are in contact with the Librarianship Institute of the NL CR or are registered with the Ministry of Culture of the Czech Republic.

The databases have been registered in the National Catalogue of Open Data and are accessible to the wider public. A total of eleven datasets have been registered. The issued datasets are intended to serve as data for science and research (for example, linguistic or literary science research), data journalism and so on. They mainly involve bibliographical records (records of literary works) and authority records (records of authors, records about organisations, geographical names, themes and so on).

The provision of access to book metadata under a public CC0 licence and its interconnection in a digital environment constitutes one of the strategic goals of the *Koncepce rozvoje*

knihoven v České republice na léta 2021–2027 s výhledem do roku 2030 [Concept for the Development of Libraries in the Czech Republic in 2021–2027 with a view to 2030], is in compliance with the IFLA recommendation and may contribute to the development of the knowledge economy and therefore also to an increased standard of living in our society.

Publishing the NL CR databases in their original form has given everyone the option of evaluating the data, referring to it, drawing attention to any errors and in doing so contributing to the increased quality of the data created at the NL CR.

The provision of access to its databases under a public CC0 licence means that the National Library of the Czech Republic can now be ranked alongside a number of other significant international libraries, such as the national libraries in Denmark, Estonia, Finland, Latvia, Luxembourg, Germany, Poland, Austria, Sweden and the USA, which have also granted access to their data under similar licences.

The NL CR has prepared the *Using the Open Data Published by the National Library of the Czech Republic* web form for feedback.

The NL CR has long been involved in cooperating with Wikimedia Česká republika. Publishing the NL CR databases under the CC0 licence and the option of including them in Wikidata will lead to an improvement in the information on Wikipedia and in any further projects using Wikidata.

You can find information on the published NL CR datasets on the library's website, in the *National Open Data Catalogue* and in the *data.europa.eu* portal.

The new remote registration option for users of the National Library of the Czech Republic

The NL CR was the first library in the Czech Republic to launch the fully-fledged identification of its users using a so-called bank identity in 2022. From 5 May 2022, parties interested in using online resources at the NL CR can register remotely using their bank identity. In this way, the NL CR has responded to the need for a greater degree of computerisation, including with regard to the registration of that group of users that only requires online access to services and online resources.

The remote registration using a bank identity is designated for individuals over 15 who are not already registered at the NL CR. A further precondition involves the fact that those interested in remote registration must have an activated bank identity at a bank that supports the use of this identity outside the state sector. In 2022, the clients of six banks (AirBank, Česká Spořitelna, a. s., ČSOB, Komerční Banka, Moneta Money Bank and Raiffeisenbank) were able to remotely register in this way.

The simple process of remote registration using a bank identity takes place completely online and fully automatically starting with the

acquisition of the identity and the verification of any possible reader duplication in the NL CR user database through to the online payment (provided the system designates that the party interested in remote registration is subject to the obligation to pay a registration fee) and on to the completion of the registration, including the creation of a comprehensive record in the library system and the provision of access to selected online services and resources. Users who have remotely registered in this manner have acquired access to, for example, the National Digital Library (and therefore to the out-of-commerce works) and the licensed electronic resources of the NL CR within just a few minutes.

The remote registration using a bank identity is based on cooperation between the external <https://registrace.nkp.cz> tool and the Aleph library system. The communication with BankID and the payment portal is secured by the external <https://registrace.nkp.cz> tool. The <https://registrace.nkp.cz> tool also communicates with the Aleph library system from a certain phase of the remote registration process.

The access to the services of private entities (i.e. to remote registration at the NL CR) on the basis of a bank identity takes place via the BankID service. Therefore, an essential step in the process of integrating BankID into the services of the NL CR involved the conclusion of a contract with Bankovní identita, a. s., which operates the BankID service.

During the first eight months of operation, 246 new users registered remotely with the NL

CR using a bank identity. This most frequently involved individuals aged 40–49 (24.8 %) and 15–25 (24.39 %), but for all that every age group is represented among the users who have registered remotely using a bank identity, including senior citizens. This method of registration was also used by holders of disability cards in three cases.

From May 2022, those individuals who are interested in the online resources of the NL CR have had the option of registering remotely using either a bank identity or a verified signature (signature verification, for example, at a Czech POINT). The very first months of remote registration using a bank identity showed that the majority of individuals interested in online services preferred this path. This may be due to the simplicity of the process and to the greater progressiveness of this type of registration in cases where those interested in remote registration have a bank identity.

The opening of new reading rooms and other news about the services of the NL CR

On 16 May 2022, the National Library of the Czech Republic opened a newly created Chill Out Zone and Individual Study Zone at the Clementinum. The goal of the zone is to offer services and spaces, which have been missing at the Clementinum to date, to the registered users of the NL CR and any visitors to the library. The Chill Out Zone and Individual Study Zone is located on the ground floor in seven interconnected rooms with a total area of 254 m². 46 diverse study areas and 12 places mainly designated for relaxation have been created there.

The Chill Out Zone and Individual Study Zone comprise areas with three different characteristics:

- the **Relaxation Zone** offers the option of resting during studies in a less formal environment (couches, armchairs), albeit that a number of students also use this area as a place to study their own documents or to work in small groups. The Relaxation Zone includes small SWAP corners, from which users can take books or leave their own books, which they have already read and would like to make available to somebody else.
- the **Individual Study Zone** is available to anyone looking for a peaceful environment for work or studying their own materials.
- Two **Team Reading Rooms** provide space for study or work in larger groups. One has room for up to ten people to study, while the

second reading room offers facilities for up to 16 people. They are equipped with whiteboards, flip charts and projectors, including a large interactive projector installed in the larger team reading room.

Unlike the classic reading rooms at the NL CR, which are subject to relatively strict rules with regard to the consumption of food and beverages or modes of behaviour (a quiet study environment), the Chill Out Zone and Individual Study Zone offer a greater degree of freedom. With the exception of the team reading rooms, users can eat and drink there and their communication is not at all limited. Unlike the classic reading rooms, documents from the NL CR collection are not released to these areas, i.e. the users are welcome to bring in their own documents or any that they have duly borrowed for a home loan. The Chill Out Zone and Individual Study Zone are specific within the environment of the NL CR due to the fact that this is largely a self-service facility and its security is monitored using the camera system. The assistance of a librarian is only necessary for entry into the team reading rooms.

The Relaxation Zone and the Individual Study Zone are freely accessible to registered users of the NL CR and visitors to the library. The team reading rooms are accessible to registered users on the basis of a reservation in their reader account. They may be accompanied by users with a valid reader card or with a single-day entry into the reading rooms. The individual

sections of the Chill Out Zone and Individual Study Zone were open to 7 pm until 28 August 2022. The opening hours were then extended to 10 pm on weekdays from 29 August 2022 on the basis of the positive user feedback.

In 2022, the Chill Out Zone and Individual Study Zone as a whole were used by 5,642 users, of whom 92 users worked in the team reading rooms. Readers started visiting the newly created zone immediately after it was opened. According to the responses to date and the ways that they have been used, it seems that the National library's users and visitors like these areas. The more relaxed regimen, which applies to the majority of this new zone, and the large degree of self-service also suits them. The layout of the Relaxation Zone was modified at the start of October 2022 based on the experience from the use of the zone during the first five months of operations. A further four places enabling small groups to study were added and new divider screens were installed in the Individual Study Zone in order to increase the feeling of privacy in the individual workplaces.

In addition to opening the Chill Out Zone and Individual Study Zone, it was also our goal to make the time spent in the other NL CR areas more pleasant. Since August 2022, the vestibule of the General Study Room has contained more than 70 lockable lockers for the safe storage of beverage containers. We have prepared two armchairs in the Social and Natural Sciences Study Room for those who would like to sit down with their loaned documents. Throughout

2022, we expanded the range of services that can be paid for online to include online payment of fines (these especially involve overdue fees) and the fees associated with interlibrary services.

The completion of the research activities under the NAKI II projects

The so-called NAKI II program of the Ministry of Culture in support of applied research and the development of a national and cultural identity took place in 2016–2022. This program followed on from a similar program in 2011–2017, which was known as NAKI.

The NL CR contributed or co-contributed to the completion of 12 program projects in 2016–2022, where it was the main project promoter in four cases and contributed its research capacity in the rest. The overall grant for these projects from the research, development and innovation budget of the Ministry of Culture amounted to 109.5 million CZK for the NL CR alone.

Our projects were from the areas of digital codicology or the provision of digital access to book collections, the protection of book collections, archiving digital data, the use of web archive data, musicology and the so-called digital humanities. All the projects were for five years with the exception of one three-year project. The financing of the projects was enabled thanks to the successful handling of project tenders in 2015 (4 projects), 2017 (7 projects) and 2019 (1 project).

A total of 105 research results, of which 51 were publications and 51 were applications, were applied in these 12 projects. The publication results included, amongst other things, 5 books, 8 book chapters and 26 peer reviewed articles. The application results included, amongst other things, 3 exhibitions with critical catalogues, 1 utility model, 10 certified methodologies, 13 types of software, 1 verified technology and 5 pilots.

The NL CR can be considered to have made a highly successful contribution to the realisation of the NAKI II program for the aforementioned reasons.

The NL CR intends to continue further in this vein: to date, five projects with our participation have been chosen for the follow-up NAKI III program for 2023–2030.

Moreover, the NL CR is part of a very large research infrastructure in the area of the humanities, is involved in completing a project for the Technology Agency of the Czech Republic and, last but not least, is home to institutional research taking place in 10 areas, in which 137 results were achieved over the same period. In addition, it is also necessary to figure in the results from other research activities that have been achieved without state support for research, development and innovation (75 results, of which 59 were achieved with support from other public funds or from the budget of the NL CR).

The overall research capacity of the NL CR as a state budgetary organisation that mainly provides services to the public has shown itself to be highly successful.

Recognition for the National Library of the Czech Republic at the Library of the Year award ceremony

The National Library of the Czech Republic received the first prize in the category of significant acts in the area of the provision of public communication and information services at the Library of the Year 2022 competition organised by the Ministry of Culture of the Czech Republic. The subject of the award was the publication *Jak řídit knihovnu: příručka pro začínající vedoucí/ředitele knihoven* [How to manage a library: a handbook for new library heads/managers]. The goal of the publication is to help new workers in executive functions to perform their work responsibly. The handbook clearly guides executive library workers through the principles, tools and methodologies that are essential for good library management. The handbook is the result of joint work by a collective of authors consisting of Daniela Divínová, Lenka Dostálová, Jitka Kotisová, Šárka Pazderová, Vít Richter, Richard Ščerba and Marie Šedá. It has been published in printed form and is currently also available in an interactive form on the website of the National Library of the Czech Republic: <https://prirucky.ipk.nkp.cz/rizeni/start>, where it

has been supplemented with numerous annexes to the individual chapters (texts of legal regulations, sample forms and internal regulations that a library can use when compiling its own documents). The text is regularly supplemented with up-to-date information and sources. Further educational activities for library executives also followed on from the publication of the handbook.

The “Tirsch and the others... Czech Jesuits in Mexico” exhibition

An exhibition about Ignác Tirsch and other Jesuits from the Czech lands who were active in Mexico and the surrounding areas was prepared to mark the occasion of the one-hundredth anniversary of the establishment of diplomatic ties between the former Czechoslovakia and Mexico. The exhibition informed visitors about the preparation of the members of the order for their mission in the New World, the circumstances surrounding their demanding journey from Europe to Mexico and in particular all the activities that they realised in that part of the world. Special attention was paid to the life and work of a native son of Chomutov, the missionary Ignác Tirsch, and his *Codex Pictoricus Mexicanus*, which constituted the exhibition's main exhibit. The unique manuscript is adorned with Tirsch' drawings depicting a now partially extinct nature and culture in the southern part of the Californian peninsular. Visitors were also

able to view other manuscripts and early printed materials that were thematically associated with the activities of the Jesuits sent from Bohemia to Mexico, historical maps of the territory of Mexico drawn by significant cartographers of the modern age or several illustrations aimed at depicting the Aztec culture to the Europeans of the day. The exhibition was held in the Clementinum Gallery from 19 October to 27 November 2022.

Co-hosting an international congress

Prague hosted the international IAML congress, a meeting of music librarians, documentarians and musicologists, in the last week of July 2022 under the patronage of the Minister of Culture, Martin Baxa, and the Lord Mayor of the City of Prague, Zdeněk Hřib. Thanks to the good partnership between the National Library of the Czech Republic, the City Library and the Bohuslav Martinů Institute and the help received from the National Museum, the Czech Museum of Music and the Municipal House, a calm setting was created for approximately 330 participants from 30 countries around the world to enjoy the presentation of thought-provoking papers, informative posters and other discussions and workshops. The IAML Congress was held in Prague for the second time in its long history. The first, held in 1991 as a conference, lives on in the memories of colleagues from music libraries as being unforgettable and the feedback that

we have so far received suggests that the same will also apply to this one. The lectures and subsequent discussions dealt with the issue of protecting and providing access to historical music collections in both the digital and classic space. Two plenary sessions were dedicated to presentations of Czech libraries, archives, museums and documentary centres and dealt with the issues surrounding the compilation and publishing of thematic catalogues for music collections and the critical publication of works of music. There was also an extensive accompanying program in the form of concerts, exhibitions and excursions. The Music Department at the NL CR prepared an exhibition on the music printed by Czech publishers, for which a catalogue was also published in English. All the programs were well attended and positively received.

The congress was organised with financial contributions from the Ministry of Culture of the Czech Republic and the City of Prague and sponsorship from publishing houses involved in the publication of musical documents: Nkoda, Harasowitz, Hollitzer, ProQuest, Bärenreiter Praha, Berliner Philharmoniker DigitalCocert Hall, QwestTvEdu, PWM Edition, Breitkopf & Härtel and Czech Radio. The publishing activities of these sponsors were presented throughout the entire week of the congress and printed copies were for sale. Volunteers from the ranks of our colleagues, some even from Slovakia, also helped with the organisation of the congress.

The library's main activities

Providing access to digital collections

The modern literature from the collections at the NL CR that has already undergone digitisation is available to readers in the National Digital Library (NDL, <https://ndk.cz/>), which uses the Kramerius system. The digital library includes more than 70 million pages of literary works, of which just under 12 million are freely accessible, while a further 44 million are remotely accessible after registration.

In 2022, there was a fall in most of the use indicators for the NDL digital collections in comparison with the previous year. This was most probably caused by the reduction in visitor numbers to the digital library based on the relaxation of the exceptional measures associated with the epidemic situation, which enabled readers to return to the reading rooms. In 2022, a total of 166,330 users (approximately 76 % in comparison with the previous year) visited the NDL environment and made use of the free access service, during which they viewed 3,502,641 pages over the course of 500,412 visits.

The NL CR was actively involved in the ongoing development of the Kramerius system in 2022 as part of the multifaceted develop-

ment team at the RightLib project managed by the LCAS. The most important benefit is the finalisation of the new version, Kramerius 7, along with the optimisation for the launch of the new generation of the Czech Digital Library (CDL) in a format established and enshrined in a tripartite contract concluded between the NL CR, the ML and the LCAS on 31 October 2022. The work on the solution for the coordinated creation and administration of virtual collections over the contents of the NDL or the CDL which took place in 2022 is also associated with this. A methodology intended for digital library content administrators was created on the basis of the information garnered from the testing of the new Kramerius 7 interface and it will provide a description of the basic procedures from curatorial practise. A no less important part of the project involved the review of the existing virtual collections at the NDL, preparations for their gradual supplementation and a proposal for their restructuring for subsequent use in the new version of the Kramerius 7 application.

The provision of access to out-of-commerce works

In 2022, the National Library continued in its long-term efforts to enable its readers to search and view the contents of the digital library by means of remote access without having to visit the library in person.

It further secured the provision of access to out-of-commerce works on the basis of licensing contracts with the collective of copyright ad-

ministrators from 2019. At the end of 2022, 263 libraries were already connected to the system. Upon logging in, the readers of the connected libraries have approximately 56 million pages from the NL CR collection and further millions from the collections of the ML in Brno, the Library of the CAS and the Research Library in Hradec Králové.

The list of out-of-commerce works

In 2022, the National Library replaced the existing solution for securing the fulfilment of its obligations based on the provisions of section 97f of the Copyright Act concerning the list of out-of-commerce works with a completely new system. In addition to a modern user interface, this offers a range of new functions not only for the public, but mainly for the copyright holders and any other interested parties. The new solution has also been prepared for the automated transfer of information to the Kramerius digital libraries. The website at <https://sdnnt.nkp.cz/> not only enables easy searches, but also provides direct access to the searched work. At the end of 2022, 577,770 versions of works were included in the list of out-of-commerce works, while a further 18.8 thousand works were in the phase of being proposed for inclusion.

The digitisation of modern literature

In 2022, 3,722,895 pages of monographs and periodicals were digitised in the environment of the digitisation system at the NL CR. The overall volume of the digitisation after the standstill in

2021 is therefore once again growing significantly. A total of 70,088,958 million pages of the collection have already been processed and stored on a long-term basis in the NDL environment, which represents 239,608 works.

Four new versions of the NDL standards were published, the standards for the digitisation of monographs, periodicals, gramophone records and phonographic cylinders were updated and the expansion of the standards to include support for the digitisation of graphic art or the option of describing regional variants and publications of periodicals were prepared.

69,066 new archive packages with a volume of 25 TB were accepted into the long-term storage system (LTP) in 2022. The LTP data storage site is therefore currently storing approximately 352 TB of data. More than 4000 archive packages were updated last year as part of the logical data protection. More than 2 thousand archive packages were copied from the LTP for the purposes of interlibrary replication.

The checks on the copyright pertaining to the works in the National Digital Library continued as part of the curation of the digital library's contents and as such more than 2,500 titles with expired copyright (more than 357,000 pages) were released into the public domain. The traditional checks of the works of authors whose copyright lapses in 2023 were undertaken towards the end of the year. More than 126 authors were checked.

The realisation of the internal self-audit undertaken in the LTP system was a significant

event in the area of digital data protection. A document was compiled in compliance with the Digital Preservation Coalition Rapid Assessment Model (DPC RAM) methodology and it provided significant information for future development.

The National Library also actively involved one of its virtual collections in the German Coding da Vinci project in 2022. This hackathon offered new views of digital cultural heritage, the aim of which is to provide free data to artists and programmers for new and creative use.

151 regulators, who can assign URN:NBN identifiers to digital documents, were registered in the ČIDLO system (a persistent identification system for documents of digital heritage) in 2022. As such, 146,775 identifiers were assigned to new digitised documents in 2022.

The Webarchive

In 2022, the Webarchive accumulated 70.27 TB of new data. The total administered data volume thus exceeded 505 TB. 9 licensing contracts were concluded with publishers enabling 45 new sources to be made accessible outside the building of the NL CR, while a further 54 websites issued under Creative Commons licences were assigned to the selected collection. In addition to its regularly expanded thematic collections, the Webarchive newly prepared an extensive thematic collection pertaining to the military conflict in Ukraine, the 2022 Olympic and Paralympic Games, the 2022 Municipal and Senate Elections, collections dedicated to the

history of the Czech internet or, for example, to phenomena such as video rental stores, the demonstration scene or warez. Prior to the termination of the Sweb service, which was one of the important domestic providers of web hosting and concluded its activities in November, it had harvested approximately 85,000 sources on this domain under a thematic collection of the same name. The Webarchive continued testing the harvesting of content on social media and its cooperation with the Institute of Czech Literature of the CAS in the area of the harvesting of literary web sources. It contributed to the international collection initiated by the International Internet Preservation Consortium, which focussed on the Olympic and Paralympic Games. In the first half of the year, it realised an extensive customer survey focussed on researchers' awareness of web archives and their information needs. It interpreted the results in the ProInflow magazine. It designed the Extinct Websites application designed to automatically detect any extinct websites in association with the efforts aimed at mapping vanishing web content. The activities of the Webarchive were presented at both Czech and international conferences (Bibliothekskongress Leipzig 2022 in Leipzig, ILIDE – Innovative Library In Digital Era 2022 in Jasná, Slovakia, Archives, Libraries, Museums in the Digital World in Prague and the 46th seminar of librarians, museums and galleries 2022 in the North Bohemian Museum in Liberec), in the media (Teorie vědy, the Bulletin of the Association of Library and Information

Professionals, Médiář and ProInflow), on social media (the “Mrtvé weby” Instagram account) or as part of the workshop on Webarchive data and the options for its use aimed at researchers.

Research and development activities and further projects

A. Institutional research: The long-term concept for developing the research organisation at the National Library of the Czech Republic in 2019–2023

Period: 2019–2023

Coordinator: Adolf Knoll

Financial support: the Ministry of Culture of the Czech Republic

URL: <http://www.nkp.cz/o-knihovne/projekty-a-programy/nk-vyzkumna-organizace>

The National Library of the Czech Republic (NL CR) continued implementing the expanded, updated version of its *Dlouhodobé koncepce rozvoje výzkumné organizace Národní knihovna České republiky na léta 2019–2023* [Long-Term Concept for the Development of the Research Organisation at the National Library of the Czech Republic in 2019–2023].

Area 1. Research into the history of book culture

Project leader: Dr Kamil Boldan

The members of the realisation team continued their work on ascertaining the original owners of the mediaeval books housed at the NL CR. They undertook research into the provenance of

approximately 400 mediaeval manuscripts and 120 incunabula volumes with the complete transcription of the provenance notes. As part of the research, Renáta Modráková has systematically devoted herself to the area of the book culture in mediaeval convents, Milada Svobodová has been involved with the history of the Lobkowitz Library in Prague, Lucie Heilandová has been researching the history of lithography and Moravian letterpress printing, Kamil Boldan has been studying the history of letterpress printing, the book trade and book binding workshops in the 15th century and Jan Vojtíšek has been involved in researching the history of cartography and urban book culture. They have published three monographs in addition to eight expert studies: *Knížní kultura kláštera benediktinek u sv. Jiří na Pražském hradě* [The Book Culture of the Benedictine Convent of Saint George in Prague Castle] (Renáta Modráková), *Rukopisy palácové knihovny hrabat Czerninů z Chudenic*. [Manuscripts from the Palace Library of the Counts Czernin of Chudenic] Vol. 1 (Milada Svobodová), *Středověká knihovna Starého Města pražského* [The Medieval Library of Prague's Old Town] (Michal Dragoun, an external team member). The members of the research team prepared two lectures as part of the Clementinum Treasures popularisation cycle: Lucie Heilandová's lecture was on the topic of Krünitzova Oeconomische Encyklopädia a fenomén vydávání encyklopedií v 18. století [The Krünitzsche Oeconomische Encyklopädia and the phenomenon of encyclopaedia publication in the 18th century],

while Kamil Boldan gave a lecture on the topic of the Kodex z knihovny uherského a českého krále Matyáše Korvína [Codex from the library of the Hungarian and Czech king, Matthias Corvinus].

Area 2. Musicology

Project leader: Mgr. Zuzana Petrášková

Research on the as yet unprocessed collections at the Church of the Exultation of the Holy Cross in Litomyšl and the Church of Saint John the Baptist in Teplice continued, including the submission of records to the RISM database. A study on the Teplice collection was published in the *Knihovna: knihovnická* magazine, 2022, no. 2.

The entries in the watermark database were checked. There are 1536 entries available for use; the database is used by collaborators from the RISM and other researchers at: <http://aleph.nkp.cz/web/watermarks/intro.htm>. Furthermore, an online catalogue of the printed sheet music from Marco Berra's publishing house (1811–1855) was also made available at: <https://aleph.nkp.cz/web/berra/cze/intro.htm>. The database currently holds 1704 records. The stored records are regularly subjected to an in-depth inspection and corrected and supplemented with as yet unknown printed works, including from other libraries (Vienna: the Austrian National Library, Gesellschaft der Musikfreunde, the Prague City Library, the Kinsky Library, the Archive at the Prague Conservatoire). The in-depth inspection and cataloguing work on

transferring the paper documentation from the collections that have already been recorded in the Union Music Catalogue to the RISM database continued, including printed works, but especially with regard to the manuscripts from the Loukov u Semil parish collections and the Paseky nad Jizerou collection. The review of the Strachota family collection was completed in preparation for the publication of the 13th thematic catalogue in the *Catalogus artis musicae in Bohemia et Moravia cultae* editorial series of the NL CR. The preparation of an expert study on the collection of Elise Countess Schlick and Schönborn-Lobkowitz took place at the Conservatoire Archive in Prague and work started on processing the composer manuscripts written by significant personalities of music culture that are stored in the archive. In-depth reviews of the records held in the music archive in Český Krumlov, including their submission to the RISM database, took place regularly. All of the stored entries are available online at: <http://opac.rism.info>. The cooperation with the international RISM editorial centre focussed on online consultation, especially dedicated to the processing of printed historical musical documents. A study on Josef Páleníček's music estate was published in the *Knihovna: knihovnická* revue magazine (2022, no. 1) in relation to the area of research into the music culture of the 19th and 20th centuries. Studies on the composer manuscripts of Otakar Ostrčil and Vítězslav Novák from the Music Department's collection are ready for publication. A study on the French letters from the

Music Department's collection was published in the *Fontes Artis Musicae* magazine, 2022, no. 4. Papers on the work performed under the project were presented at the IAML international congress of music librarians in Prague.

Area 3. Slavonic Studies

Project leader: Dr Lukáš Babka

This area involves the expert development of disciplines in Slavonic studies and Slavonic librarianship, which are guaranteed at the NL CR by the independent Slavonic Library (the SL). The objective is to perform expert research into the collection of historical manuscripts and old printed documents and the cartographic and visual collections at the SL with a focus on the provenient characteristics of the documents and the study of any phenomena discovered during the course of the research. The objectives include the first-rate cataloguing of any historical documents designated for digitisation and the transfer of the cataloguing entries from the SL database to the Manuscriptorium. The SL further focuses on research into specific phenomena associated with the existence of the library and the composition of its collection: the issue of Russian and Ukrainian interwar emigration, the personal libraries in the SL collection and so on.

The cataloguing of all the monographs issued in 1796–1800 and the remaining relevant periodicals was completed as part of the fulfilment of a sub-objective involving the publication of the fourth volume of the *Katalog starých*

ruských tisků z fondů Slovanské knihovny tištěných azbukou [Catalogue of Early Printed Russian Documents from the Slavonic Library's Collections Printed in Cyrillic]. The introductory study has been completed. The entire manuscript has undergone a peer review.

A total of seven manuscript documents and two historical printed documents from the SL collection were examined and catalogued according to the appropriate parameters before subsequently being digitised as part of the VISK 6 program. Their digital copies are available in the Manuscriptorium.

An expert study entitled *The Old Believers' Printed Books from Klinty in the Slavonic Library, Prague. History, Context, and Tradition* was published as a result of the expert research into selected historical printed documents.

The research into printed documents published in Czechoslovakia by members of the Russian and Ukrainian émigré communities and the relevant archive sources continued. The monograph *Ruskaja emigracija v Prage (1918–1945): putevoditel' = Ruská emigrace v Praze (1918–1945): průvodce* [Russian emigration in Prague (1918–1945): a guide] was published as part of this topic; three expert studies dedicated to the activities of the Ukrainian diaspora in interwar Czechoslovakia were published and the classification, cataloguing and digitisation of the collection of materials dealing with the public life of the Ukrainian diaspora in 1915–1947 (T-UEP) was completed. An inventory list of the collection was posted on the internet and the

digital copies of the documents are published on the www.esbirky.cz portal.

A monograph dedicated to the SL's history and collection is under preparation. The classification of the collection of documents related to the history of the SL (approximately 2000 newly described entries) is currently ongoing.

Area 4. Digital codicology and librarianship

Project leader: Dr Zdeněk Uhlíř

In 2022, access to Manuscriptorium 4 was provided in parallel to Manuscriptorium 3. As such, the user interface was innovated so as to suitably respond to the diversity of content, which has been significantly expanded in comparison to Manuscriptorium 3. The end user can therefore now get to the full Manuscriptorium content simply and in less procedural steps.

The TEI XML coding was standardised and the relationship between the internal mark-up and the visual representation for the end user was modified within the framework of the already created full text database that provides access to the modern edition of original historical documents. The need for a digital tool/tools for working with coded information has become apparent and this will be the subject of research and development in the following period.

IIIF technology enabling the complex creation of manifestos for collections (book collections), comprehensive documents (individual books), partial digital objects (individual pages) and fragments (details on the pages) was developed to the level of interoperability

between sources, Europeana being first among them. As a result of this, it is also possible to use data from other sources within the framework of an individualised Manuscriptorium account and as such to significantly expand the options for electronic publishing. The IIIF technology has thus become an effective means of creating and developing a virtual environment for the provision of access to historical documents and collections so that there is also the option of using an eventual meta-version when working with various sources.

The system for administering TEI documents has been commissioned and become a tool for other Manuscriptorium partners that also simplifies and deepens the communication between them, including data harvesting.

The EDM ARMA Specification Sandbox, created under the ARMA project in 2021, has been implemented in the Manuscriptorium and coordinated with the TEI P5 ENRICH Specification Sandbox, meaning that the Manuscriptorium now enables work in a heterogeneous environment for various standards and formats without the need for any mutual conversions, which constitutes exceptional relief for any work with aggregated content.

At the end of 2022, the Manuscriptorium contained 390,586 file records, 168,073 comprehensive digital documents and 23,358 binder's volumes.

Area 5. Web archives for scientific research

Project leader: Mgr. Marie Haškovcová

Research activities continued on the provision of access to archived data and metadata from the web archive for further scientific research. The Grainery software had been designed in previous years to provide access to technical and administrative metadata. A certificated methodology for creating, storing and providing access to technical and administrative metadata from the web archive, which offered a theoretical framework for improved work with metadata and the inclusion thereof in further research, was created on the basis of this software. The team then concentrated on research into current user problems in the area of web sources within an international context and analysing the further options for the provision of access to archive data and metadata. It dealt with the issue of vanishing web content and the grasp of the term extinct website, which is associated with the effort to provide new knowledge about the vanishing sphere of the internet. This year, the team realised research with the objective of mapping academia's awareness of the existence and use of web archives. The goal was to ascertain whether researchers work with web archive data and how they would like to use it in their research. The quantitative survey research method was chosen for the investigation. The research, which was realised for the first time ever in the Czech environment, was presented to the public in the *Používáte Webarchiv? Průzkum potřeb uživatelů českého webového*

archivu [Do you use the Webarchive? Research into the needs of Czech web archive users] study published in the *Proinfo* peer reviewed journal. The research activity in the area of vanishing web content led to the development of the Extinct Websites curatorial application that enables the automated detection of extinct websites on the basis of a comparison of the status codes and metadata. The application creates and records further metadata about extinct websites and helps in identifying websites for a specialised database, which provides the information on extinct websites to the users.

Area 6. Archiving digital data

Project leader: Bc. Václav Jiroušek

The research into long-term archiving undertaken in the last period followed on from the results of previous years. Analysis especially continued into the area of the technical and administrative metadata necessary for the long-term logical protection of digital documents, as did research into the area of the selection of suitable file formats for the long-term archiving of digital data. In 2019–2021, the PREMIS metadata standard was analysed, the area of the significant properties was researched and a proposal regarding the significant properties of digital documents was drafted for various types of data, including methods of entering them into the metadata of digital objects. Filip Pavčík presented the acquired information in 2022 in his article *Možnosti zápisu technických metadát u digitálních objektů a vytvorenie vlastnej*

metadátové schémy pro elektronické publikace [Options for the entry of technical metadata in the case of digital objects and the creation of our own metadata diagram for electronic publications] published in the ITlib periodical. In 2022, the research into the area of file formats continued as a follow-on from the preparation and proposal of a methodology for evaluating formats suitable for long-term archiving from 2019 and 2020. Vojtěch Kopský and Natalie Ostráková presented the findings in an expert article entitled Archival file format selection and design of file format sustainability matrix for the National library of the Czech Republic in the Review of the National Center for Digitization periodical. Analyses also continued in the area of file formats that are suitable for archiving electronic publications and audiovisual documents from library collections. A format analysis was undertaken of 1,585 electronic publications stored at the NL CR and a study looking into the option of converting e-publications between the PDF and PDF/A formats was completed using a sample of 460 stored files, including the subsequent verification of the completeness and authenticity of the resulting archive copies. The results of the completed analyses were published by Jana Hrzinová and Václav Jiroušek in an expert article entitled Výběr archivačních formátů pro povinný depozit e-publikací v ČR [A selection of archive formats for the legal deposit of e-publications in the Czech Republic] in the Itlib periodical. Vojtěch Kopský dealt with the issue of the selection of formats suitable for archiving audiovisual

documents in an expert article entitled Výběr video formátů v paměťových institucích [The selection of video formats at memory institutions] published in the ProInflow periodical. An updated version of the methodology for the creation of SIP packages was also prepared in 2022 and its certification is planned for 2023. An expert monograph dealing with the issue of digital archiving was also prepared and there are plans to publish it in 2023.

Area 7. Protecting book collections

Project leader: Ing. Petra Vávrová, Ph.D.

The main and final result of the project in 2022 was an exhibition with a critical catalogue entitled Restaurování pokladů Národní knihovny České republiky aneb tajemství práce restaurátora [Restoring the treasures of the National Library of the Czech Republic or the secrets of a restorer's work]. The exhibition acquainted visitors with everything that has to be done in order to permanently preserve books for future generations. Various professions such as restorer, preserver, bookbinder, microbiologist, restoration technician, climatologist and so on were presented along with the history of the protection of the collections and the personalities who stood at the genesis of this field. The wide range of restoration procedures was presented using examples of complex pieces of restoration work on historical books. The public was also acquainted with the used tools and with specific materials used for restoration and conservation. The exhibition took place in the Clementinum

Gallery on 18.8.–2.10.2022. Approximately 3,000 people visited the exhibition. The exhibition was also viewed by the delegates to the international ICOM general conference and the English texts in the QR codes on the panels enabled the foreign visitors to become acquainted with the project and its results. The research into the physical condition of the modern book collections continued, as did the work in the CZBRD aplikace pro průzkum fondu [CZBRD application for collection research] environment which is mainly aimed at establishing the original states of the specimens predominantly from the Universal Library Collection, the 19th Century Collection and the Music Collection. 16,292 new records were created in the research database, as were 300 cards with deacidification actions. 4,015 records were further modified in 2022. The records were created in previous years and only edited now. The editing took place due to the establishment of intervention cards, predominantly involving deacidification, but also mechanical cleaning, conservation and simple repairs. A further reason involved the addition of photographic documentation, the weight of the specimen or the uploading of bibliographical data from Aleph. A total of 20,307 records were worked on in 2022.

The work on the development of new deacidification methods also continued. The in situ book deacidification method requires the paper in the deacidified books to achieve a sufficient water content so that the compression of the book block leads to a continuous liquid

phase being established due to the contact of the surfaces of the adjacent pages which then enables the diffusion of the inserted alkaline compounds from the place of insertion to the surrounding pages in the book. At the end of the year, we succeeded in proving that the currently used hydrogels could be replaced with paper containing around 7 % of a superabsorbent, which has significantly better properties when compared to the hydrogel used to date for deacidification.

In 2022, the Book Collection Protection Department acquired an automatic Nebula[®] machine for disinfecting collections of books, newspapers, magazines and binders or folders of documents. The issue of disinfecting the book collections would now appear to be a very relevant topic, especially after the implementation of energy saving measures at the depositories. The collections are being increasingly attacked by micro-organisms. That is why the testing of this machine for automatic disinfecting currently makes great sense. Once the effectiveness and any possible risks have been tested, it will be possible to deal with greater numbers of books affected by mould more effectively and quickly.

The principle of the Nebula[®] machine lies in halting the activities of any bacteria, mould and viruses by means of the biocidal effects of the QAC substance. The books pass through an atomiser chamber where the disinfectant solution is applied to all the outer parts of the book, followed by quick drying in the drying chamber. The machine is easy and safe to use, because

the system operates in a safe, vacuum sealed atomiser chamber and with a precisely guided air stream in the drying chamber.

A so-called mobile collection research set has been developed due to the long-term interest in research into the physical condition of the book collections in various institutions throughout the entire Czech Republic. The mobile set contains all the necessary equipment and consumables for investigating the physical condition of book collections, for example a camera, scales, a pH meter, a laptop, but also other materials such as buffer solutions, cellulose, a wash bottle and so on. In 2022, the sets were used for educational purposes as part of the courses in the VISK 2 sub-program. The sets have enabled employees to become acquainted with the individual components and to try using them directly in the depositories for their own collections, which has in turn led to the gradual expansion of the equipment found at the individual institutions so that they can perform fully-fledged research into the collections in their workplaces. The sets are also a clear example of the necessary equipment and materials that have to be acquired for each workplace involved in research into the physical condition of collections.

The contamination of the internal atmosphere in the exhibition halls constitutes a serious risk for the artistic items stored there. The concentrations and composition of any aerosol particles, the temperature, the relative humidity and the concentrations of CO₂, O₃,

SO₂, NO₂, gaseous NH₃, HNO₃ and organic acids were monitored in the internal atmosphere of the Baroque Book Hall. It is apparent from the concentration of fine particles over time that these particles have penetrated into the book hall from the external environment and that they have most probably been generated by traffic. During the course of the tourist season, the internal concentrations of coarse particles displayed periodic growth starting at the beginning of visitor hours, reaching their maximum at the end of visiting hours and then followed by a subsequent drop to the initial levels. It is therefore apparent that the visitors were the source of these particles. The main water soluble, inorganic compounds were sulphate, nitrate and ammonium ions. The amount of the internal nitrate concentrations dropped to zero values. This was caused by the evaporation of the ammonium nitrate after its penetration into the internal environment. The internal concentrations of gaseous ammonia also increased as a consequence of this process.

Area 8. Modern publications in the Czech Lands after 1800

Project leader: Mgr. Anna Vandasová

In 2021–2023, this research area has mainly been involved in research into extensive periodicals with regional editions and in developing and optimising a tool for effectively recording them, as this will significantly simplify the administration of these publications in the individual conservation collections located in libraries

around the Czech Republic, as well as making these records more transparent.

The work on the optimisation and further development of the PerMonik tool, which enables highly detailed records of the information about periodicals' individual editions and about those periodicals that published such regional editions, has not only been a subject of interest of the experts at the NL CR, but also of those from other significant libraries with conservation collections; especially the ML in Brno, the Olomouc Research Library and the Ústí Regional Library. The fundamental questions that the research team dealt with this year involved, for example, supplements from extensive periodicals, which the PerMonik tool will be modified to effectively record, as well as, for example, the issue of the graphic labelling of the variant editions or the depiction of the condition of the given specimen. The NL CR is also preparing further years of *Československý sport* [Czechoslovak Sport] and other large periodicals with regional editions and entering their units into the Aleph system so that they can subsequently be entered into the PerMonik database. The records of all the modifications were also maintained in the Github repository in the form of issues in 2022: <https://github.com/NLCR/evidence.periodik/issues>.

The researchers also focussed on the preparation of a methodology for researching regional periodicals, which has been planned as a result for 2023. The methodology should describe in detail the issue of regional variant editions or the variant editions of extensive periodical titles,

their form to date and the not overly optimal method of processing them in libraries, as well as providing a detailed manual on how to use the PerMonik system for periodical records.

Anna Vandasová presented this system as part of an expert forum in her paper entitled *Systém pro evidence periodik PerMonik – nástroj (nejen) pro digitalizaci* [The PerMonik system for recording periodicals – a tool (not only) for digitisation] and at a regular regional digitisation seminar, which took place at the ML in Brno on 15.–16.11. The activities in this area were also presented in a peer reviewed article by Anna Vandasová and Aleš Brožek entitled *PerMonik jako nástroj pro evidenci periodik a jeho využití při průzkumu regionálních mutací Československého sportu v Severočeské vědecké knihovně* [PerMonik as a tool for recording periodicals and its use during research into the variant regional editions of Czechoslovak Sport at the Ústí Regional Library] which was published in the *Itlib* periodical.

Area 9. Digital humanities

Project leader: Jan Holomek

Further steps in developing the competencies to support data manipulation and the application of digital humanities were undertaken throughout 2022. Teaching lessons were undertaken in the areas of machine learning, practical programming and feature engineering, i.e. designating the key properties of texts with the help of various pre-processing procedures, for example delexicalization (the replacement of certain

words with more common properties), with the participation of NL CR employees. Here, we managed to launch a specialised tool called the *Authorguesser*, which enables the preparation of models and the subsequent designation of the probability of authorship for individual texts. Czech prose writers of the late romantic period of the 19th century were used as an interesting dataset for this tool from a data point of view. Research by students from the Mathematics and Physics Faculty at Charles University in Prague was also undertaken along a parallel axis using the same dataset as part of the exercises for the NPFL054 HW2 (JS 2022) subject. An international authorship conference called *Authorial style, its analysis, and limits of automatic recognition* was also held at the Clementinum. The conference was promoted using the website of the Czech Association for Digital Humanities – CZADH. The all-day conference was attended by experts on the topic of authorship, who also presented research into topics from various methodological backgrounds. A server and data processing line (the Authorship Attribution Line) using the central Authorguesser algorithm were launched in 2022. The approach of the NL CR Digilab will be described in detail in two texts designated for the expert and librarian public in 2023. There is a plan to present the results of the Digilab in 2023 as part of the platform of the AI4LAM international consortium. The Digilab is planning to demonstrate the use of its approaches with the results of the currently completed NAKI DL4DH (DG20P02OVV002) and

NAKI Centralised Interface (DG18P02OVV016) projects for the purposes of popularisation. This will enable project synergy within the framework of the adjustment of the newly available NL CR digital services and the further promoted procedures dealing with authorship (on a wider level, dealing with the data of the NL CR) for experts in the digital humanities, but also for potential interested parties from the ranks of students and the initiated public.

Area 10. The book as a medium in the Middle Ages and the Modern Age

Project leader: Mgr. Jan Vojtišek

From the point of view of the research into the book as a societal medium, the research into St. Ludmila as an example of the interpretation of a specific historical individual within the production of medieval and modern narrative threads was completed, with the exception of the continuation of the systematic processing of the topic, while new research commenced from a different methodological point of view focussing on the process of the dissolution of the monasteries under the Josephine Reforms and the influence of this phenomenon on the fates of the monastic libraries. Four convents were chosen for the study, as they provided a view of both the use and the influence of book production in the convent environment.

The presentation of the results focussed mainly on exhibition activities, the target group for which was both experts and the wider lay public. *The Book and the Veil. 1100 Years from*

the Death of Princess and Saint Ludmila exhibition, which presented the public with a picture of St. Ludmila in individual literary genres and thematic units or written production dating from the early Middle Ages to the Enlightenment by means of a series of panels and exhibits, including the most valuable manuscripts and early printed materials, came to an end. The critical catalogue offered the expert community a deeper analysis of the individual themes that the exhibition had focussed on. The second exhibition based on the study of historical book production and books as a means of transferring knowledge was the exhibition entitled *Tirsch and the others ... Czech Jesuits in Mexico*. It was also held in the Clementinum Gallery in October and November 2022. It presented the public with the story of the Jesuit missionary journeys to Mexico, including the preparations for these journeys, and book documents associated with the discovery of the New World, including the main exhibit, the pictorial Codex Pictoricus Mexicanus created by the Czech Jesuit Ignác Tirsch and based on his missionary journey. The results of the research were presented in the nine-lecture *Z klementinských pokladů* [Clementinum Treasures] cycle, which was divided into spring and autumn parts. Two lectures from the spring part of the cycle were dedicated to the issue of Saint Ludmila and one of the autumn lectures was associated with the Tirsch and the others exhibition. The other lectures focussed on various aspects associated both with man-

uscript production and with printed books and cartographic material.

B. Research and development program projects

A number of projects were undertaken in 2022 thanks to special-purpose financing from the NAKI II program of the Ministry of Culture of the Czech Republic and the ÉTA (2018–2025) program of the Technology Agency of the Czech Republic in support of applied social and humanities research, experimental development and innovation:

Synthetic materials in book collections

Grant recipient: the National Library of the Czech Republic

Project leader: Ing. Petra Vávrová, Ph.D.

Project period: 2018–2022

The project's objective involved specialised research into extensive book collections focused on synthetic materials, especially those with a lower stability and lifespan (this most commonly involves materials such as PVC, nitrate or acetate cellulose and polyurethanes), research and development into non-destructive and slightly destructive diagnostic methods and procedures for evaluating the safety, durability and economic aspects of the application of modern materials and technologies. The project further focused on the development of procedures for restoring and preserving synthetic materials. The results of the development and verification of the methods and work procedures pertaining

to the conservation and restoration of synthetic materials will not only be of use to book collections, but also with regard to any cultural heritage produced from plastics in general. In 2022, the cooperation between the research teams at NL CR and the University of Chemistry and Technology in Prague continued and the project approached its culmination. The plan and the scheduled stages were completed in accordance with the project documentation, while the project and its results were successfully concluded and also disseminated amongst the expert community. The project overlap involves the activities of the project team's members in relation to the activities of the Plastic Working Group under the Conservator-Restorer Committee at the Association of Museums and Galleries of the Czech Republic. The Plastic Working Group has brought together specialists from a number of museums, galleries, archives, libraries and universities from all over the Republic since 2014 and its objective is to share information and cooperation with regard to taking care of the modern synthetic materials found in collections, the numbers of which are constantly rising.

The project's focal point in 2022 involved finalising the planned main and secondary results. The *Doba plastová v knižní vazbě* [Age of plastic in bookbinding] exhibition was realised with a critical catalogue. The cooperation between the research teams was excellent, the results were discussed and the each workplace's results were mutually supplemented. The Age of plastic in bookbinding exhibition was held in the

corridors of the Clementinum on 4.8.–8.10.2022 and it also took place during the 26th ICOM General Conference which was held in Prague on 20.–28.8.2022; the texts were available in English via QR codes. As such, the exhibition was visited by the majority of the delegates at the international conference.

RightLib – The provision of electronic access to protected publications

Grant recipient: the Library of the Czech Academy of Sciences

Project leader: Ing. Martin Lhoták

Responsible individual on behalf of the NL CR: Dr Vít Richter

Project period: 2018–2022

The project is a joint venture between three libraries that have long been involved in developing and optimising the Kramerius digital library, which is mainly designated for the provision of access to digitalised modern documents: namely the Library of the Czech Academy of Sciences (LCAS), the Moravian Library (ML) and the NL CR. In the project's last year, the team focussed primarily on concluding the last main output, namely the RightLib system for the provision of access to protected documents which has been tested in pilot operations. This has been achieved by means of the deployment of the Czech Digital Library (CDL) in a new instance, which has been gradually created on the ML infrastructure and is based on the latest version of the Kramerius 7 system. Within the CDL, it was necessary to optimise the indexer according

to the data of the harvested libraries, to create a statistical module, to secure the connection to the List of Out-of-Commerce Works (LOOWC) and to implement the licence administration and the user log-in to the central level of the CDL.

From the point of view of licences, the unequivocal priority was to achieve the optimal method of making out-of-commerce works (OOCW) accessible, which is a global licence that enables an above-standard approach to the content of the digital libraries in the Czech Republic thanks to a contract concluded between the NL CR and the copyright owners. This agreement is also relatively unique in international terms from the point of view of the degree of access that it enables. RightLib is a significant positive element for the project that amplifies the effect of the project and its applied outputs. The *Metodika pro zajištění bezpečného přístupu k datům v rámci různých režimů zpřístupnění digitálního obsahu* [Methodology for securing safe data access as part of various modes of access to digital content] material was finalised in 2022. The methodology's objective is to define the legislative and contractual conditions, organisational measures and technological procedures for securing safe access to digitised documents that are protected by copyright and are made accessible by libraries online in the OOCW mode. The methodological-legal section of the methodology focusses on the detailed characteristics of the licence conditions for the provision of access to out-of-commerce works, which arise from

the provisions of the Copyright Act and from the licensing contract concluded between the NL CR and the collective of copyright administrators. Attention has been paid to the definition of the basic terms in this specific area. The overall system for the provision of access to out-of-commerce works has been characterised and the functions, rights and responsibilities of its basic elements have been described, i.e. the NL CR, the collective of copyright administrators, the NDL, the LOOWC, the libraries mediating the services and the service users. The technical sections of the methodology set out the basic parameters for the functionality of the LOOWC application, including the architecture for the connection of the LOOWC to the Kramerius digital library and the tool for identifying the users accessing the digital library remotely or via a terminal at a library. Mgr. Tomáš Foltýn and Dr Vít Richtr presented the RightLib project in a paper entitled Works unavailable on the market: Czech experience of the digital content availability via the internet in the “Covid times” at the LIBER 2022 conference in Denmark in 2022.

The virtual reconstruction of dispersed book collections of Czech provenance in local and international libraries

Grant recipient: The National Museum

Project leader: Dr Richard Šípek, Ph.D.

Responsible individual on behalf of the NL CR:

Mgr. Anna Vandasová

Project period: 2018–2022

This joint project between the National Museum, the National Heritage Institute and the NL CR is based on the previous experience of the individual parties with regard to research into the issue of book provenance. The project’s objective is to virtually reconstruct dispersed collections of Czech provenance in local and international libraries and to perform other activities associated with the popularisation of our book culture.

The main joint work realised by the researchers in 2022 was the *Metodika průzkumu, revize a pasportizace historického knižního fondu* [Methodology for the research, review and inventory of a historical book collection]. The researchers also contributed to the *Krásy šlechtických ex libris a supralibros* [Beauty of aristocratic ex libris and supralibros] exhibition which was held at the State Château in Konopiště. The exhibition and critical catalogue summarised the results of the provenance research in a series of book collection. Work also continued on the collection research and the mapping of the provenance symbols in the collections of the Manuscript and Early Printed Books Department – the Bibliotheca nationalis collection. Approximately 1,800 volumes from shelfmark series 50 (Historia profana nationalis), 51 (Historia sacra nationalis) and 52 (Rhetorica et poesis nationalis) were processed. The conclusions of the research to date were presented by means of the *Srdce knihovny: Bibliotheca nationalis* [Heart of the Library: Bibliotheca nationalis] virtual exhibition, which was released on 6.2.2022 and

is available online at <https://exhibition.indihu.cz/view/bibliotheca-nationalis>. The exhibition’s content is divided into three parts: part one focusses on the circumstances surrounding the establishment of today’s National Library in 1777, the establishment of the Bibliotheca nationalis collection and the figure of its founder, Karel Rafael Ungar. The second chapter, which is introduced with an animation, focusses on the individual elements in early printed books and manuscripts and is accompanied by extensive authentic pictorial material. The concluding third chapter presents significant book owners. Another segment of the work involves the creation of authority records for the national authority database, from whence they are subsequently imported into the Provenio database. They are created as both personal and corporate records. The systematic supplementation of the authority records with photographic documentation continued in 2022. 68 new records of personal authorities were implemented in the Provenio database. The consultation with supervisors continued. A summary of the existing research into the movements of book collections as a consequence of the Second World War was presented at the 30th Bibliotheca Antiqua librarian conference held in Olomouc on 8–9 November 2022. Marcela Sulženková’s paper on *Ohlédnutí za výzkumem transferu knižních celků* [A look at the research into book collection transfers] focussed on the specific features of this research in the environment of post-war Czechoslovakia, the records of the book units at the NL CR and

the option of other research and inter-institutional cooperation. The paper entitled *Ohlédnutí za výzkumem transferu knižních celků v důsledku 2. světové války v Národní knihovně České republiky a jeho další možnosti* [A look at the research into book collection transfers as a consequence of the 2nd World War at the National Library of the Czech Republic and its further options] was published in the conference anthology.

The development of a centralised interface for mining large amounts of data from web archives

Grant recipient: the National Library of the Czech Republic

Project leader: Mgr. Marie Haškovcová

Project period: 2018–2022

The final year of the five-year research project was mainly focussed on finalising the planned outputs. In 2022, the research team consisting of employees from the NL CR, the Sociological Institute of the Czech Academy of Sciences and the University of West Bohemia in Pilsen dedicated itself to completing the implementation of the software tools – the user interface and export application – and also the presentation of their use in applied science outputs presented in peer reviewed articles. The project's most significant output is the user interface called *WACloud: Centralizované rozhraní pro vytěžování velkých dat z webového archivu* [WACloud: A centralised interface for data mining from a web archive], which was developed as verified (Ztech) technology and is accessible in the NL

CR Reference Centre. It uses advanced machine processing procedures and approaches based on deep neural networks and as such enables researchers to work with the data that is archived in the Webarchive. The use of full text and faceted browsing enables datasets to be defined for further research, which provides new options for their analysis. Given the fact that it has been developed as open-source software, other institutions archive web data can also use it. The export application has also been created as open-source software. The developed tools were presented to the expert public by means of presentations at several conferences (Bibliothekskongress Leipzig 2022 in Leipzig, ILIDE – Innovative Library In Digital Era 2022 in Jasná, Slovakia and Archives, Libraries, Museums in the Digital World in Prague). Researchers were able to work with the tool and try it out under practical circumstances at the *Data webových archivů a možnosti jejich využití* [Web archive data and the options for its use] thematic workshop organised by the NL CR. In addition, the members of the research teams dedicated themselves to publishing expert articles about the issue of web data and the developed tool in magazines with an impact factor. The texts *Percepce souvislostí pandemie covid-19 a klimatické změny v české blogosféře* [The Perception of the connections between the Covid-19 pandemic and climate change in the Czech blogosphere] (D. Čermák, J. Stachová, M. Pilnáček) and *Fenomén #scicomm: využití big data a jejich analýzy při sledování komunikace vědy na internetových*

stránkách českých výzkumných organizací [The #scicomm phenomenon: the use of big data and the analysis thereof during the monitoring of science communication on the websites of Czech research organisations] (P. Raudenská, R. Topinková) were published in the Czech Sociological Review. M. Šimon's study *Fantomové hranice jako zdroje dat pro porozumění volbám* [The phantom border as a data source for understanding choices] was published in *Geografické rozhledy and the text Internet jako pramen výzkumu: přístup k archivovaným webovým zdrojům a možnosti jejich zpracování* [The internet as a research source: access to archived web sources and the options for processing them] (Z. Vozár, M. Haškovcová, A. Prokopová) was published in the Theory of Science magazine. In 2022, a legal expert also compiled a final analysis evaluating the development and the current state of the legal environment with regard to the provision of data which has an impact on the option of using datasets.

The use of display methods to study hidden information in books

Grant recipient: the National Library of the Czech Republic

Project leader: Ing. Petra Vávrová, Ph.D.

Project period: 2018–2022

The project's objective involves specialised research undertaken in the extensive book collections focused on the hidden information contained in books and bindings, the reading of invisible texts, rendering usually invisible details

visible and so on. The project's focal point in 2022 involved the finalisation of its main results – mainly the exhibition entitled *Tajemství knih* [The Secrets of Books] with a critical catalogue, which was held in the corridors of the Clementinum on 2.6.–3.9.2022. The exhibition, which presented the results of expert research into manuscripts and printed books using special recording equipment, light sources and x-rays, focussed on examples of hidden elements in books and the visualisation of invisible information for the naked eye. It described the individual methods, including a critical evaluation of their options and limitations. The exhibition was also viewed by the delegates to the international ICOM general conference and the English texts in the QR codes on the panels enabled the foreign visitors to become acquainted with the project and its results. An expert workshop entitled *Využití zobrazovacích metod pro studium skrytých informací v knihách* [The use of depiction methods to study hidden information in books] was held at the depository in Hostivař on 13.10.2022. Books that were expected to include secondarily used materials or fragments of vanished or removed texts were sought out in the SL, but also newly in the NL CR music collections. The research focusses on the oldest copies in the collection and on documents where there is an increased need to search for signs of provenance or information about the owner or user of the given copy. The efficiency of the individual depiction techniques (a video spectral comparator, radiography)

was tested on samples, as well as on real specimens of book bindings. The selected methods were tested for the purpose of verifying their safety for the book collection materials and whether they would cause them any damage. Further tests were undertaken on examples of watermarks and the knowledge gained on the properties of paper and forms were summarised. The specific results acquired by using the depiction methods, specifically radiography for the depiction of any hidden information in the book bindings, were presented at a number of events. The pictorial output of the depiction methods and their graphic processing were also evaluated throughout the course of the year. Graphic modifications are used to perform the most detailed research into the images acquired from the devices designated for the research and for testing the materials in the NL CR book collection, which are important from the point of view of scientific research, material analysis and restoration research. An expert article was published about these graphic modifications as a project result.

The new phonograph: let us listen to the sound of history. The creation of procedures and tools for records, digitisation, the provision of access and the long-term protection of audio records on historical media held at memory institutions

Grant recipient: The National Museum

Project leader: Filip Šír, DiS, the National Museum

Responsible individual on behalf of the NL CR:

Mgr. Zuzana Petrášková

Project period: 2018–2022 (for the NL CR 2018–2020)

Four institutions participated in the project: the National Museum, NL CR, LCAS and the Faculty of Arts at Masaryk University. The participation of the NL CR in this project was no longer financially supported in 2022 based on the contract. However, contact with the researchers continued. The study on the collection of historical audio documents stored at the NL CR has been completed. It will be published in the *Fontes Artis Musicae* magazine.

The research and development of advanced book and manuscript cleaning technologies

Grant recipient: the Czech Academy of Sciences, the Institute of Chemical Process Fundamentals

Project leader: Ing. Jiří Smolík, CSc., the CAS Institute of Chemical Process Fundamentals

Responsible individual on behalf of the NL CR:

Ing. Petra Vávrová, Ph.D.

Project period: 2018–2022

The project was part of a cooperation agreement with the laboratory at the Department of Chemistry and the Physics of Aerosols and the Department of Laser Chemistry at the CAS Institute of Chemical Process Fundamentals. The project's objective was to create new procedures that can be used when restoring book and archive collections, specifically laser cleaning and the pneumatic cleaning of document surfaces using a dual-phase spray. These

newly developed methods have the potential to become a suitable alternative to traditionally used procedures. The objective of the culminating project was research into new methods for cleaning the surfaces of archive objects that have become soiled with fine particles, nanoparticles and other types of soiling. This is especially important, because the fine dust particles and nanoparticles present in the depositories make the biggest contribution to the degradation of the book and archive collections. The development of a methodology for cleaning using both procedures was undertaken using various types of book and archive materials which had already been used in previous studies. This involves materials based on cellulose (Whatman 1 filtration paper, handmade paper from Velké Losiny and industrially produced lignin-containing paper dating from 1960) and collagen materials (binding parchment and tannin-treated binding leather), which will be soiled with real dust either through long-term exposure in selective archives or mechanically. Both techniques will also be used to clean book materials that have become soiled by means of an increase in micro-organisms and the effects of natural disasters (floods, fires), where difficult to remove traces, such as mould or coloured stains, have remained on the surface of the materials. The work in 2022 mainly resulted in the approval of the two methodologies and the organisation of a conference and the project workshop. In the previous years, two utility models were completed, one of which exceeded

the framework of the planned results, and three articles were published in specialist periodicals. At present, the last of the planned results is undergoing the assessment process, namely the *Linka pro čištění knihovních a archivních fondů pomocí pulzního infračerveného TEA CO2 laseru* [Line for cleaning book and archive collections using a pulsed infra-red TEA CO2 laser]. A project website providing access to all the results has been created at <http://cas.icpf.cas.cz/DG18P020VV048/index.htm> and on the NL CR website <https://www.nkp.cz/o-knihovne/projekty-a-programy/vyzkum-a-vyvoj-naki/pp-naki>.

DL4DH – The development of tools for the more effective use and mining of data from digital libraries in order to reinforce research in the digital humanities

Grant recipient: the Library of the Czech Academy of Sciences

Project period: 2020–2022

Project leader: Ing. Magdaléna Vecková, LCAS
Responsible individual on behalf of the NL CR: Mgr. Zdenko Vozár

2022 was the last year of the DL4DH research project, in which the members of the research team mainly focussed on completing the Kramerius+, TEI Converter and DL4DH Feeder software, which had been developed throughout the three years of the project. The Kramerius+ database has mainly been designed for the curators and administrators of digital libraries and it is used for storing the enhanced text data and meta-data found in the Kramerius system. The TEI

Converter is a tool that can be used to convert enhanced data into the TEI format, which is one of the formats that is frequently used by scientists from the digital humanities. The last tool known as the DL4DH Feeder is a web client that provides users with access to enhanced data.

All of these tools were tuned and tested at regular research team meetings with the supplier company in 2022 in order to ensure that they function correctly. The testing environment for Kramerius+ and the DL4DH Feeder was created on the NL servers. The certified *Metodika přípravy dat z digitálních knihoven pro využití v digitálních humanitních vědách* [Methodology for preparing data from digital libraries for use in the digital humanities] was also prepared in direct association with these steps with contributions from the members of all the participating organisations. The methodology not only contains a general summary of the issues surrounding the use of digital data in the humanities, but also presents the aforementioned tools and their potential implementation in other digital libraries. This document also included the creation of use cases, i.e. research questions from the individual fields of the humanities representing practical options for working with the developed tools. One of the use cases, which was compiled by the members of the research team from the NL CR involved a literary map of the links between meanings relevant to religious studies, which was published on the dl4dh.nkp.cz website under the name *Religionistická mapa literárních významů: Citace Bible v prvorepub-*

likovém tisku [A religious studies map of literary meanings: Bible quotes in the First Republic press]. This extensive use case represents the conclusions of a case study focussed on the detection of biblical quotes in the First Republic period press between 1925 and 1939. The results have been presented using interactive network graphs that serve as an explorative virtual religious studies map of literary meanings that presents the presence of biblical quotations in the public Czech language environment using descriptive statistics and network analysis. Curator's collections were also created at the NL CR, the contents of which were defined in the first year of the project. These collections were completed this year and contain both the digitisation itself and the final inspection of the contents of individual selected titles. As such, new collections entitled *Český místopis* [Czech toponymy], *Spiritistická literatura v Čechách v letech 1870–1945* [Spiritualist literature in Bohemia in 1870–1945], *Česká esoterická literatura v letech 1870–1950* [Czech esoteric literature in 1870–1950] and *Zednářská literatura v Čechách v letech 1870–1950* [Masonic literature in Bohemia in 1870–1950] were created at the NL CR and can now serve the needs of users in any further research. At the end of 2022, a conference was also held with the name *Vytěžování obsahu digitálních knihoven pro výzkum v humanitních vědách* [Mining the contents of digital libraries for research in the humanities], which also presented the practical uses of the tools developed under the DL4DH project, amongst other things.

Czech book illustrations in the early Modern Age

Grant recipient: The National Library of the Czech Republic

Provider: the Technology Agency of the Czech Republic

Project leader: Mgr. Vojtěch Šícha, the Library of the Czech Academy of Sciences

Researcher on behalf of the NL CR: Mgr. Lucie Heilandová, Ph.D.

Project period: 2021–2023

The project has been realised by a team of specialists from the LCAS, NL CR and the inQool technology company. The objective (<https://e-ilustrace.cz/>) is to provide access to pictorial material located in old printed works published in the Czech lands up to the second half of the 16th century and in doing so to create a virtual research environment for the study of book illustrations with the help of new digital tools that provide a new view of the visual and material culture of the early Modern Age in the Czech lands. The prepared online database will enable a comparison of the pictorial material and offer a pleasant research environment, thanks to which researchers will be able to monitor, for example, woodcut block production, its use, copying and circulation, the sources of inspiration for its production or the occurrence of any iconographic motifs and the transformation of any artistic styles within the framework of the entire Czech printed output up until the mid-16th century. In 2022, the work on processing the pictorial material located in thousands of Czech

printed works from up to the mid-16th century located in both the NL CR collections and those of other memory institutions (for example the Olomouc Research Library, the National Museum, the Bayerische Staatsbibliothek and the Universitätsbibliothek der Ludwig-Maximilians-Universität München) continued. During cataloguing, emphasis has not only been placed on recording all the information about the origins (information about the author, the printer, the creator of the woodcut, the illustrator or the designer or about the source of inspiration), but especially on the actual description (the description using the nominal and material national authorities has been expanded with an index of keywords), which is regularly supplemented by means of a description according to the ICON-CASS international classification system. The catalogue record also includes a pictorial annex (a picture of the entire page and a segment with the described illustration), which is essential when working with pictures and will be further used to create a virtual environment. The data has been presented within the framework of the *Knihověda.cz* portal, which unites the Czech Knihopis and Bibliografii cizojazyčných tisků national retrospective bibliographies. International cooperation was established from the very beginning; the online database will use the digital tools developed by the external project partner, the Visual Geometry Group from the University of Oxford, while the provision of access to the pictorial material has been consulted with members of Digital Humanities Oxford, who

have long been involved in dealing with this issue. The fact that the data has been expanded to include a description using the ICONCLASS classification system has opened up the option of connecting our data with the Arkyves system.

C. Involvement in large research infrastructures

LINDAT/CLARIAH-CZ

Grant recipient: the Faculty of Mathematics and Physics at Charles University

Project leader: Dr Jan Hajič, Dr, the Faculty of Mathematics and Physics at Charles University

Responsible individual on behalf of the NL CR:

Mgr. Bc. Michaela Bežová

Project period: 2019–2022

In 2022, the NL CR was once again involved in this large research infrastructure where the main researcher is the Faculty of Mathematics and Physics at Charles University. A further 12 scientific research institutions and universities are involved in the project. In 2022, each institution focussed on activities associated with the activities in the area of digital humanities, the administration and archiving of digital data, the creation of digital repositories, lessons in the digital humanities and so on.

The NL CR featured in the framework of this infrastructure along with the other two libraries that are affiliated with it: the ML in Brno and the LCAS. This close cooperation, not only within the framework of this research infrastructure, also resulted in the signing of a Contract of

Cooperation pertaining to the operation of the CDL, which had previously been administered by the LCAS. Thanks to this cooperation, the activities will be divided among these three organisations, so that the first instance of the CDL will run on ML servers, the second instance will run on NL CR servers and the LCAS will be involved in developing this digital technology. The NL CR will also be involved in the administration of the digital collections as part of the operations of the CDL.

The LINDAT-CLARIAH/CZ project led to the further partial development of the NL CR digital library in 2022, when the quotation server was deployed for the Kramerius system. Significant emphasis was also placed on out-of-commerce works (OOCW) this year when, for example, a new method of designating documents according to the licences defining the access options in compliance with the newly set rules was implemented. This year also saw the launch of an application for OOCW, which simplifies the work with the List of Out-of-Commerce Works both for curators and, for example, for publishers or authors.

Standard curatorial work was also performed in the digital library under this research infrastructure and titles were identified that should be digitised for inclusion in the digital collections.

D. Other application projects

1. National projects

1.1 The Library Public Information Service (VISK) Program

All the projects in the individual sub-programs are for a one-year period. These projects concern support for specific library activities in the areas of education, the operation of the digital libraries, the production of digital data (the retrospective conversion of catalogues and the digitisation of collections), the operation of information portals, access to digital sources and so on. The list of projects no longer includes the statutory activities that were formerly financed from the VISK program, for which the NL CR received funds directly into its budget.

VISK 1

The VISK coordination centre program

Responsible employee: Dr Vít Richter

URL: <http://visk.nkp.cz/>

The VISK coordination centre program secured all the specialist, organisational and coordination activities associated with the realisation of the entire VISK program.

The conversion of GOOGLE document data into the TEI P5 ENRICH format

Responsible employee: Dr Zdeněk Uhlíř

URL: <http://www.manuscriptorium.eu/>

In 2022, further batches of documents – early printed material – were converted and digitised in cooperation with Google (ca 15,269 individual comprehensive digital documents).

The coordinated creation of virtual collections above the content of the NDL – part of the NL CR

Responsible employee: Ing. Petr Kukač

The project was undertaken in cooperation with the ML and it mainly involved increasing work effectiveness with virtual collections that conceal significant potential from the point of view of their presentation and the acquaintance of readers with the contents of the digital libraries. The initial objective involved the establishment of a uniform concept for the creation of virtual collections within the Kramerius 7 environment. The new version of the system will bring innovative options for the creation of virtual collections, their organisation, presentation and ways of working with them. The first part of the project focussed on the testing of new tools and the procedures for the creation of virtual collections in the Kramerius 7 system, which was launched in a test version at the ML at that time. The new version of the Kramerius 7 system will bring a new perspective to virtual collections and the work with them, place them at the level of independent documents, enable the creation of hierarchically arranged collections and generally provide curators with greater room for their creation and presentation. A methodology intended for digital library

content administrators was then created on the basis of the information garnered from the testing of the new interface and it will provide the described basic procedures from curatorial practise. A no less important part of the project involved the review of the existing virtual collections at the NDL, preparations for their gradual supplementation and the creation of proposals for their restructuring for subsequent use after the transition to the new version of the Kramerius 7 application. The establishment of contact with several institutions also gave rise to proposals for the creation of completely new virtual collections.

The NDL Complex Validator

Responsible employee: Bc. Václav Jiroušek

The project's objective in 2022 was to create an updated form of the Complex Validator tool so that it supports the validation of data created according to the latest versions of the NDL standards for the digitisation of audio and printed text documents in the given year. The tool is used to validate the adherence of the created data to the rules for long-term archiving. Pilot operations of the Complex Validator web version, which is intended to serve users as a fully-fledged alternative to the desktop version of the tool in the future, were launched in addition to the updated version of the application.

VISK 2

Innovative information literacy courses

Responsible employee: Mgr. Roman Giebisch, Ph.D.

URL: https://ipk.nkp.cz/akce/03_OV_Akce/ino-vacni-kurzy-2022

The objective of the new innovative courses was to provide the required skills for working with ICT and at the same time to offer the option of deepening and expanding any advanced knowledge in the area of ICT to those who have already acquired the basic skills.

Educational courses for librarians in the area of book collection protection

Responsible employee: Mgr. Roman Giebisch, Ph.D.

In 2022, six expert courses focussing on preserving the good physical condition of the book collections in the Czech Republic were organised. They were targeted at the employees of public libraries of all types, especially those involved in the conservation of collections. The *Průzkum fyzického stavu knihovních fondů* [Research into the physical condition of book collections], *Preventivní péče v knihovnách* [Preventive care in libraries] and *Ambulantní opravy knihovních fondů* [Simple repairs in book collections] courses were held twice during the year and were attended by more 150 participants. The courses were led by qualified lecturers from the Book Collection Protection Department as part of their methodological roles. The courses' objec-

tive was to improve and permanently develop the care for the physical condition of the book collections in the Czech Republic by the employees of libraries from Prague and its environs, but also from the entire Czech Republic. The courses contributed to the systematic support for librarian education at the level of regional libraries (and furthermore at the level of their regional roles within the framework of their methodological obligations), specialised libraries and other workplaces that are involved in the performance of acts of conservation at their facilities.

Requalification courses according to the National Register of Qualifications

Responsible employee: Mgr. Roman Giebisch, Ph.D.

URL: https://ipk.nkp.cz/akce/03_OV_Akce/04_OVrekv.htm

The project's objective was to secure funds to finance the lecturers at librarianship courses in order to minimise the participation costs in these courses. The course content is based on the National Register of Qualifications and the teachers are accredited specialists from the NL CR and external institutions. The courses are attended by people who are employed at libraries, but also by those who are getting ready to work in libraries. In 2022, only the *Knihovník v přímých službách* [Librarian in direct services] course was opened due to the demand and the pandemic restrictions. A total of 27 participants enrolled in the course.

VISK 3

The development of NDL identities

Responsible employee: Mgr. Zdenko Vozár / Ing. Petr Kukač

In 2022, the project's objective was to follow on from the existing operating experience of the identity management system implemented within the NL CR environment to support the authentication and authorisation of those NDL readers entering from connected libraries that are not members of the eduID federation.

The project dealt with the identification of any potential security weaknesses in the existing solution and the proposal of measures to eliminate them and respond to them commensurately. Specific specifications for the modification of the system were created using the results of an external audit and penetration tests performed by an independent entity. They were then supplemented with requirements for a review of the application's internal processes during the import of new users from a connected library, a solution for the detailed administration of the individual user account records, the modification of the process for the initial login of a new reader, a procedure for blocking an institution based on a breach of the contractual conditions and so on. The NL CR concluded a contract with a supplier of the required modifications on the basis of the specifications process; these modifications were deployed in the production environment in the 4th quarter after they had been accepted.

The project's objective was fully achieved and the NDL identity management system is currently being securely used in everyday operations.

VISK 5

The retrospective conversion of the General Catalogue for NL CR Universal Library Collection I

Responsible employee: Mgr. Nataša Mikšová

The project's objective involved the pre-selection and preparation of approximately 45,100 printed records. The records were prepared for a further stage of retro-conversion. 15,500 new records in the MARC 21 format, to which access has been provided in the NL CR online catalogue and transferred to the SL CR. 5,050 records were created or merged in the NL CR online catalogue. Field 920 with a TIFF image number from the General Catalogue of the NL CR Universal Library Collection I was added to these records. This mainly involved records of monographs that contain several works or reprints and have been analytically processed in the General Catalogue of the NL CR Universal Library Collection I. The records from the international book production of 1801–1950 were processed in the alphabetical range of KRAUS-LEFE. 4,300 records that had already been the subject of a retrospective conversion were supplemented with selected elements from the material description.

VISK 6

The digitisation of historical documents at the NL CR

Responsible employee: Dr Zdeněk Uhlíř

URL: <http://www.manuscriptorium.eu>

In 2022, a total of 52 documents, i.e. 21,805 images/pages, from the NL CR (the Manuscript and Early Printed Books Department and the SL) collection were digitalised. All of the digitalised documents have been included in the Manuscriptorium digital library.

The digitisation of rare historical manuscripts and printed works from the Music Department's collection

Responsible employee: Mgr. Zuzana Petrášková

URL: <http://www.manuscriptorium.eu>

29 manuscript documents from the Music Department's collection, i.e. a total of 4,358 images, were digitalised in 2022. The selected sheet music involves vocal-instrumental spiritual and operatic works by international and Czech authors. The digitalised sheet music is connected with an entry in the RISM International Inventory of Music Sources and is accessible to the researchers who use this database at www.rism.info and in the Manuscriptorium digital library.

The mass digitisation of historical and rare documents in cooperation with Google – the continuation of the program

Responsible employee: Dr Lukáš Babka

In 2022, the second year of the preparatory work necessary for the planned continuation of the joint NL CR and Google digitisation program continued. The project focusses on the comprehensive pre-digitisation preparation of the documents from the collection of the Slavonic Library (SL). The SL performs part of the preparatory work associated with the realisation of the program as part of its own activities. The funds for the project enable cataloguing work with the documents prior to their digitisation and the processing of the appropriate metadata (amongst other things, equipping the documents with bar codes, the creation of new catalogue records, the modification, expansion and improved accuracy of the catalogue records, the creation of so-called hidden records in the case of multi-volume works, the processing of the appropriate metadata structures in the case of multiple-volume works and the compilation of the relevant authority data). The preparatory work has been distributed over three years (2021–2023) so that the digitisation can smoothly continue in 2024. During 2022, 1,800 document units were dispatched and verified. The physical condition and the content and formal aspects of the documents have enabled the digitisation of 1,400 such units, which have been fully prepared for transfer to Google and digitisation.

The successful conclusion of the preparatory work and the fully-fledged realisation of the digitisation have been put at risk by the fact that the project has not been approved for 2023.

VISK 7

The reformatting of Čs. sport and Svět práce (Stage III) and the mass deacidification and research into the Czech language documents from the NL CR collections

Responsible employee: Mgr. Bc. Michaela Bežová

URL: <http://kramerius-info.nkp.cz/>;

<http://visk.nkp.cz/visk-7>

2022 was the last year when the NL CR was able to request a grant for the activities associated with both the digitisation and protection of book collections in a single project.

This year, funds were secured for the mass deacidification of the collections (a total of almost 550 kg of book material was deacidified), development work on the *Aplikace pro průzkum novodobých fondů* [Modern collection research application] and the *Registr odkyselených dokumentů* [Register of deacidified documents], as well as for the purchase of 1 pH meter, 5 electrodes and 1 set of scales used in the collection research. The part-time workers working on this project in 2022 spent a total of 1,827 hours systematically investigating the book collections in the individual depositories. It was also possible to use miscellaneous personnel costs to finance the activities that are associated with digitisation – the loosening of book bindings and simple repairs. The miscellaneous personnel costs were also used to support the production of protective packaging from acid free cardboard not only for the digitised Čs. *sport* and *Svět práce*

periodicals, but also for the deacidified documents.

In addition to the actual work on the project, the regular autumn seminar for the VISK 4 and VISK 7 grant programs was also held and took place at the CDH, as well as using online platforms, at the start of November. Almost 100 people attended this seminar. The 2nd year of the Meet and Greet VISK event also took place at the end of November and it was attended by V. Richter (VISK 3), P. Vávrová and J. Neoralová (VISK 4), N. Mikšovská (VISK 5) and T. Foltýn (VISK 7). The purpose of this online meeting is to answer any questions concerning the tender documents brought by individuals interested in the grant programs and it once again met with a positive response.

VISK 8/A

Multi-license access to electronic information sources

Responsible employee: Mgr. Barbora Korandová
URL: <http://visk.nkp.cz/visk-8-a>

The service securing the provision of access to electronic information sources continued in 2022. This once again involved both Czech and international information sources, to which access was provided in the public libraries that had registered in the project. This involved the Newton media database company, which 56 libraries registered to use, as well as the ASPI legal information database, which was chosen by 26 libraries, while 29 libraries selected the

PressReader database that offers foreign dailies and popular educational magazines.

VISK 9

The Union Catalogue of the Czech Republic, including its development

Responsible employee: Dr Eva Svobodová
URL: <https://skc.nkp.cz> or <https://www.caslin.cz>
As of 31. 12. 2022, the SL CR database contained 8,204,745 records (consisting of 181,616 serials, 325,039 early printed books and 621,903 special types of documents). 4,806 interlibrary loan service requests (from a total of 131 different libraries to 241 different libraries) were sent within the SL CR environment. A total of 513 libraries contribute to the SL CR. The number of libraries enabling the harvesting of records to the SL CR using the OAI protocol rose to 181 in 2022 (a ca 10 % year-on-year increase). This is also associated with an increase in the number of libraries with automatic write-offs for titles that have been withdrawn from the SL CR. These libraries are provided with expanded feedback with regard to the quality of the records that they supply. The SL CR harvests data on the Czech fiction processed by the Prague City Library under the CENTRAL project four times a day and in doing so enables its immediate use (download) by other libraries via the Z39.50 protocol. 103,678 duplications were manually removed from the SL CR in 2022. 3,364 records were connected with the National Authority Database. At the end of 2022, the Union Catalogue Department

held its annual seminar in cooperation with the National Name Authority Department, which was attended by 281 librarians from all over the Czech Republic.

The coordination of record supplementation and the administration of the ANL database

Responsible employee: Dr Petra Šťastná
As of 31.12.2022, the ANL database (a selection of articles in Czech newspapers, magazines and anthologies) contained 1,921,572 records. A total of 45,700 records from 28 regional and specialist libraries were added in 2022 via the projects from the VISK 9/1 program or by exception. A total of 13 libraries (11 regional and 2 CAS libraries) contributed under the VISK 9/1 program and in doing so submitted 19,185 records (the libraries had committed to submitting 20,420). In 2022, the database administrator performed more than 82,000 modifications targeted at the correction and supplementation of the name and material authorities, the attachment of full texts or a material review of the records, including 779 new records.

The automatic synchronisation of the authority records with Wikidata

Responsible employee: Dr Petra Šťastná
The project follows on from the previous mutual cooperation activities between the NL CR as the administrator of the national authority database and Wikimedia ČR, which is contributing, amongst other things, to the construction of the Wikidata structured database. In 2020, a system

was created for the regular extraction of any additions to the national name authority database for import into Wikidata, which, however, remained predominantly dependent on human work. The project focusses on a further shift towards automating selected processes. The project undertook an analysis and proposed possible technical solutions. A set of commands were created that can be used for the quick robotic synchronisation of Wikidata with the national authority database. The results of the project, including the accessible scripts and appropriate documentation, are available on the Github platform (<https://github.com/wmcz/WMCZ-scripts>).

1.2 Cultural activities

The projects from the Cultural Activities program of the Ministry of Culture of the Czech Republic last for one year.

The Bookstart project

Responsible employee: Mgr. Roman Giebisch, Ph.D.

The compilation and publication of a methodological handbook from the Bookstart VI project entitled *Jak opravdu vstoupit s knížkou do života* [How to really have a book for life] was intended for the employees of the children's departments at the libraries involved in the international Bookstart project. The project's objective is to convince the parents of newborns or young children that one of the most important things in a child's development is spending time with

their parents and a book (communication and interaction, gentle and natural guidance towards reading and understanding of the spoken word), to explain the significance of reading skills for a child's success in life, to advise parents on how to achieve this and at the same time offer support services from libraries and space to share with other parents and so on. The project helps shape libraries so that they are popular places and become a natural part of people's lives that remains of interest and needed throughout every stage of life. The Bookstart project stands at the very beginning of this life cycle of a person and a family (children aged 0–6 let + their families). The project is realised in close cooperation with the leadership of the towns and municipalities.

The preparation for the 2021 Library of the Year awards ceremony organised by the Ministry of Culture of the Czech Republic in the Mirror Chapel at the Clementinum

Responsible employee for the NL CR: Dr Vít Richter

The official award ceremony for the 2022 Library of the Year awards presented by the Ministry of Culture of the Czech Republic took place in the Clementinum's Mirror Chapel on 4 October 2022 in the presence of the Minister of Culture, Martin Baxa. In addition to the awards from the Ministry of Culture of the Czech Republic, the SKIP award for the 2022 Municipal Library of the Year and the MARK award for young library employees were also presented.

The handbook for personnel work in libraries

Responsible employee for the NL CR: Dr Vít Richter

Richard Ščerba's publication *Personalistika v knihovnách. Příručka pro personální práci* [Human resources management in libraries. Human resources handbook] was published. The handbook, which is designated for executive employees, can also be of use to other library personnel. The publication especially deals with maintaining the HR agenda, labour-law relations, employment, terminating employment, employee qualifications and education, working from home, collective bargaining, remuneration for work, personal data protection, the ethical codex and other topics.

The České děti a mládež jako čtenáři v době pandemie 2021 [Czech children and young people as readers during the pandemic of 2021] publication

Responsible employee for the NL CR: Dr Vít Richter

The Czech Children and Young People as Readers during the Pandemic of 2021 publication was published in cooperation with the HOST publishing house in Brno. It presents the results of representative nationwide research, which took place in 2021 and followed on from research undertaken in 2017 and 2013. The publication answers a number of questions. How did the pandemic change the free time of children and young people? To what extent are electronic

books competing with traditional printed books? Do children still use libraries? How do young people imagine the ideal library?

2. International Projects

2.1 Program Connecting Europe Facility in Telecom

ARMA (the Art of Reading in the Middle Ages)

Project period: 2020–2022

Project leader: Narodna in univerzitetna knjižnica, Ljubljana, Slovenia

Responsible employee for the NL: Dr Zdeněk Uhlíř

The ARMA project, which was initially planned to last until 30 April 2022, but was then extended until 31 August 2022, was completed. The objective of gathering together collections of medieval manuscripts and providing access to them in Europeana was achieved. The NL CR contributed to the creation of the EDM ARMA Specification and IIF ARMA Specification methodologies (best practices), which have become the standard for interoperability with Europeana. Sandbox ARMA, which was created for cooperation with Europeana was expanded into the TEI sandbox, which has been implemented in the Manuscriptorium. In addition to the harmonisation of the network digital environment between the Manuscriptorium, Europeana and third parties, which will simplify both the aggregation of documents in the Manuscriptorium and the integration of the services that the Manuscriptorium provides,

it will also be possible to work with partners' data without it having to be physically converted to the TEI P5 ENRICH Specification format used in the Manuscriptorium.

2.2 Czechoslovak cooperation during the acquisition of documents

The Czech Library at the Bratislava University Library and the Slovak Library at the National Library of the Czech Republic

Project period: continuously from 2006

Responsible employee for the NL: Mgr. Jeanne Janoušková

Financial support: the Ministry of Culture of the Czech Republic, the Ministry of Culture of the Slovak Republic

The Česká knihovna při Univerzitní knihovně Bratislava a Slovenská knihovna v NK [Czech Library at the Bratislava University Library and the Slovak Library at the NL] project has been realised on the basis of an agreement between the Ministries of Culture of both countries. Under the project, the NL CR purchased 830 book titles valued at 300,033 CZK for the Bratislava University Library in 2022.

The Ministry of Culture of the Slovak Republic provided the amount of 12,000 EUR for the purchase of Slovak publications for the collections of the NL CR and the Slavonic Library, whereby this was utilised to the amount of 11,990 EUR: a total of 746 publications were purchased for the NL CR and the Slavonic Library. According to a reader preference poll,

Slovak books have long been among the most loaned foreign language titles (second only to titles in English) at the NL CR.

The project has been highly successful and beneficial for both the participating parties, including thanks to the guarantee of mutual publishing access. The Slovak additions acquired throughout the years of the project's duration are accessible on the NL CR website at <http://aleph.nkp.cz/web/csknih/2022/index.htm>.

2.3 The Erasmus+ Program

Building a Network of Community Centered Librarianship (NEWCOMER)

Project period: 2020–2022

Project leader: Koninklijke Bibliotheek, the Netherlands

Responsible employee for the NL: Mgr. Vladana Pillerová

The NEWCOMER project, in which the NL CR is a partner along with six other European libraries, continued in 2022. The project focuses on cooperation between European libraries in the area of adult education and it is represented by seven countries: the Netherlands, Denmark, Germany, the Czech Republic, Slovenia and Italy. The Public Libraries 2030 organisation also contributes to the project. The project's objective is to make it easier for library workers who work with adults in their communities to investigate with their counterparts from EU countries why the provision of adult education differs so greatly, how to best support adult students within

the library environment and what examples of tried-and-tested procedures need to be used when meeting the needs of disadvantaged and marginalised groups. The project's main activity involves a series of international meetings with the participation of all the partners.

Three international project meetings and one closing meeting were held in 2022.

The first meeting took place at the NL CR in Prague on 27–28 April 2022. The participants at the meeting in Prague were presented with examples of community librarianship and adult education at libraries in the Czech Republic. Attention was also especially paid to the new services provided by Czech libraries for Ukrainian refugees and to media education. We visited the Jezerka branch of the Prague City Library, whose manager informed us of the community activities provided to its users by the branch.

The second meeting took place in Slovenia, at the Kranj City Library, on 7 and 8 June. The first day took the form of a conference, during which a paper on the topic of Czech libraries and refugees from Ukraine was repeated due to significant interest and a second paper dealt with the education system in the field of librarianship in the Czech Republic. During the second day, the project meeting's participants visited a number of small public libraries in the Kranj Region and were acquainted with their activities.

The third meeting was held in Germany, at the Cologne Public Library, on 1 and 2 September. On the first day, each participant informed the others as to how the lifelong education of

librarians was progressing in their given country and a discussion was held on the topic. The other topics especially involved the digital services of the future, the library as a democratic space and SDGs and STEM in libraries. On the second day, we visited a branch in the suburb of Kalk, which is home to large numbers of migrants, for whom the library organises a wide range of activities.

The closing meeting was held in Brussels on 8 and 9 November. In addition to the project participants, the representatives of the libraries or library associations of other European states (Finland, Poland, Latvia, Luxembourg, Austria, Ireland and others) were also invited to the meeting. Presentations were given to acquaint the participants with the course and the results of the project. A further point on the program involved a workshop where SDGs, migrants, co-creation and adult education were discussed. The second day involved a meeting with representatives of the member countries at EU institutions. The meetings were also attended by Yvona Havel, the Czech representative of the Steering Committee for Culture established by the Council of Europe. The MEP Michaela Šojdrová and other MEPs from the member countries were invited to a meeting in the European Parliament and the problems and challenges faced by public libraries were discussed.

All the international meetings planned in the project took place. The project will be formally concluded in the following year once all the mandatory outputs have been completed.

Consideration is being given to the continuation of the project, which would be focussed on the creation of an education course on community librarianship at a European level.

2.4 The Visegrad Collection

The Written Visegrad Heritage – Protection for the Future

Project period: 2020–2022

Project leader: Budapest Főváros Levéltára

Responsible employee for the NL: Ing. Petra Vávrová, Ph.D.

The project's objective is to share knowledge from the area of the disinfection of archive and book documents, the creation of methodological documents, workshops-practical exercises on how to proceed and the creation of a multilingual dictionary of the terms and terminology in the languages of the V4. The cooperating institutions are Budapest Főváros Levéltára (the Budapest Municipal Archive), Slovenská národná knižnica (the Slovak National Library) and Wydział Biologii Uniwersytetu Warszawskiego (the Faculty of Biology at the University of Warsaw). The individual countries are losing a significant part of their cultural heritage which is decisive for the preservation of their national identity and national cultural treasures. Archive and library documents are often used by the wider public; the management of memory institutions is directly responsible for preventing the spread of infectious diseases via loaned doc-

uments. It is also necessary to educate future generations in caring for their cultural heritage and protecting it. Specialist workshops for the archivists and librarians in the given region are planned under the auspices of the project. The objective is to provide access to the knowledge of restorers, to share specialist know-how as part of the cooperation between the V4 countries and to present knowledge in the area of the permanent preservation of collections and documents, including their deacidification. In 2022, there were another two workshops and a project team meeting in Martin, Slovakia and Warsaw, Poland, the subject of which was the creation and completion of the online five-language (English, Slovak, Hungarian, Polish, Czech) dictionary of specialist terminology and a global or general crisis plan in the case of any natural disasters and accidents, including the use of case studies. A dictionary consisting of more than 1,500 terms was created during the workshops (https://bparchiv.hu/sites/default/files/atoms/files/v4_five_language_dictionary_1.pdf) and published on the project's website during 2022: <https://bparchiv.hu/visegrad>. A further topic at the workshops involved the creation of a universal Emergency Plan and case studies (https://bparchiv.hu/sites/default/files/atoms/files/v4_emergency_protocol_guidelines_0.pdf), which should assist in securing the collections and their storage sites. Emphasis has been placed on risk identification and possible solutions and approaches in the case of different types of natural disasters or building emergencies.

2.5 Interreg Slovenia – Austria, the European Union – the European Regional Development Fund

ABC – Ancient Book Crafts

Project period: 2022–2024

Project leader: Dr Johannes Tintner-Olifiers, BOKU, Austria; Matija Strlič, PhD FIIC FRSC (he, him); Professor of Analytical Chemistry / Professor of Heritage Science, the University of Ljubljana, Slovenia
Responsible employee for the NL: Ing. Petra Vávrová, Ph.D.

The goal of the ABC project will initially be to systematically investigate potential dating methods based on evidence, existing historical methods associated with spectroscopy and the provision of non-destructive access to book materials. This will be achieved using Near Infra-red (NIR) or Attenuated Total Reflectance (ATR) Fourier-Transform mid-Infrared (FTIR) technology followed by multidimensional calibration based on a set of well dated objects from the collections in Klosterneuburg (Austria) and the National and University Library (Slovenia) in cooperation with other collections in the Czech Republic (NL CR). The first meeting of the realisation team and the individual teams took place in 2022 and the activity and workshop plan was drawn up.

Other projects

The integrated system for the protection of movable cultural heritage (ISO)

Hanwell system supplement – microclimate monitoring

Project leader: Ing. Petra Vávrová, Ph.D.

Financial support: the Ministry of Culture of the Czech Republic

In 2022, the project focussed on supplementing the Hanwell radio system for monitoring climatic parameters and modifying this system in the premises of the NL CR, specifically in the Clementinum (the existing reading rooms, the safe room, the corridors, some parts of the Baroque Book Hall, the depository with a special protection regimen and the Slavonic Library) and the Central Depository (the microfilm archive, the central catalogue and the cardboard store for archiving purposes). The results of the project – climatic condition monitoring – are already being used not only for the purposes of protection and the improved quality and efficacy of the care for book collections in the form of so-called preventative conservation, but also by the collection administrators or building administrators, who can note any deviations from the norm, malfunctions in the technical equipment or natural disasters operatively and in real-time and immediately respond to the arisen situation (the data from the sensors is also accessible remotely). It is not possible to ascertain the real values and secure the long-term stability of the climatic parameters and the

depositories, especially the temperature and relative humidity, without the long-term monitoring of the climatic parameters. The stability of the climatic parameters is a fundamental step in the preventative care for the book collections. A request for the expansion of the existing Hanwell climatic parameter monitoring system in the depositories and installed in the NL CR buildings (the Clementinum and the CDH) was issued on the basis of an expert consultation and the parameter measurements. The newly installed Hanwell wireless measuring system is currently fully functional in both buildings. The Hanwell system has been supplemented to include RH/T radio transmitters with a display (24), LUX light intensity radio transmitters (2), a LUX/UV logger with a probe on a cable (1), Y119 stainless steel brackets (27) and an SX and TX relay station, including the bracket to mount the module (1). The system design has been prepared and modified, the transmitter parameters have been set, the configuration and graphic design for the specific application have been prepared, the sensors have been installed in the selected areas and the entire system has been commissioned and handed over. This has resulted in flexible supervision of the climatic parameters (the temperature and relative humidity) in selected depositories in the CDH building by the employees in the Book Collection Protection Department (the climatologist, restorers, conservationists and technologists) and the collection and building administration workers in real-time and remotely.

The digitisation of the Czech Press Agency's (ČTK) photographic archive

Project period: 1.7.2019 – 31.12.2025

Responsible employee for the NL CR: Ing. Richard Ščerba

Financial support: the Ministry of Culture of the Czech Republic

The main objective of this project undertaken in a partnership between the NL CR and the Czech Press Agency involves the preservation of the cultural heritage consisting of the agency's photographic collection which has been stored on traditional analogue materials since its inception. The project secures the digitisation of the collection and at the same time the increased protection of the original physical media by means of their expert treatment and storage in suitable packaging. The project work was practically shut down at the end of 2021 due to uncertain financing.

The project activities were able to be gradually revived in the second half of 2022. As a consequence of this, a total of 128,569 images from black and white originals and 8,130 original envelopes from those originals were able to be processed and digitised according to the previously prepared methodology. The files of the digitised pictures were duly stored in backed-up storage sites at both the NL CR and the Czech Press Agency. The physical media were returned to the archive at the Czech Press Agency after having been expertly handled and placed in new packaging.

The expectation for 2023 involves a continuation of the digitisation of the black and white originals and the gradual start-up of similar processing for colour materials, including the preparation of the appropriate methodology and the establishment of adequate work processes. All the project activities will also be optimised based on the operating experience of previous years.



Economic indices, statistics, graphs

The basic statistical data of the National Library of the CR in 2022

Library items, total	7,654,504
of which manuscripts	21,394
Number of incoming periodical specimens	11,091
Number of library items on open shelves	54,600
New volumes	82,233
Lost volumes	1,735
Number of the NL's specialised databases (other than the Electronic Catalogue)	33
Number of licensed electronic information resources	404,472
Registered users	17,218
Visitors at the library (physical visits)	288,668
of whom visitors to loan departments and reading rooms	119,179
of whom using the internet in the library	4,739
of whom visitors of cultural events	62,182
of whom visitors of educational events	9,497
of whom visitors to other events where the NL CR is not the main organiser	93,071
Visitors to online services from outside the library	17,325,525
Visitors to the library's website	2,478,781
Loans, total	353,037
of which loans of periodicals	27,323
Requests for interlibrary services, total	5,458
of which ordered from abroad	1,361
Online information services (number of questions answered)	13,527
Meetings and consultations for librarians, booksellers and publishers	13,500

Educational events for librarians (seminars, courses, etc.)	509
Cultural events for the public (forums, exhibitions, tours, etc.)	298
Educational events for the public (seminars, courses, etc.)	190
Online seminars, workshops, lectures	54
Participation	736
Other events where the library is not the main organiser	349
Number the titles of non-periodical publications issued pursuant to Act no. 37/1995 Coll. as subsequently amended	14
Number of copies (in pcs)	6,600
Number of titles of periodicals issued pursuant to Act no. 46/2000 Coll. as subsequently amended	1
Number of copies (in pcs)	500
Number of electronic document titles issued, including the internet	6 e-publications, 4 e-periodicals
Number of study sites	537
equipped with a computer	30
of which computers with an internet connection	19
equipped with another technical device	20
Number of places in lecture halls and classrooms	539
of which equipped with a computer	19
Number of places for relaxation and refreshment	106
Library user area in sq. m	7,098
Number of opening hours per week	80
Library staff (full-time equivalent – FTE)	459.17

Financial management

The NL CR achieved a balanced economic result as of the 31 December 2022.

Basic data from the Profit and Loss Accounts

Item	in Thousands of CZK
Total costs	644,628
Operating costs	644,456
of which: material costs	321,460
Personnel costs	322,996
Financial costs	172
Income tax	0
Total revenues	644,628
Activity revenue	48,684
Financial revenue	207
Revenue of selected CGIs from transfers	595,736
Income from operations after tax	0

Financing shares to cover the costs of the NL CR from the library's own revenue and from transfer revenue

Item	in Thousands of CZK
Activity revenue and financial revenue	48,892
Revenue of selected CGIs from transfers – MoC provider	588,890
Revenue of selected CGIs from transfers – other providers	6,846
Total revenue	644,628

Chart of transfers and overview of the use of investment resources (current as of 31 December 2022, in thousands of CZK)

Activity/Program	Non-Investment Resources	Investment Resources	Source of Financing
I. Provided by the founding entity - MoC	592,719	12,984	MoC
I.1 Operating fund	549,257	1,247	MoC
Special-purpose subsidies	9,027	0	MoC
Cultural activities	477	0	MoC
Library Public Information Services (VISK)	9,635	0	MoC
Total	568,396	1,247	MoC
Institutional Research	14,596	1,815	MoC
Research Projects funded by the MoC	9,496	0	MoC
Systematic and individual subsidies	231	9,922	MoC
Projects funded through other institutions	6,390	0	
Revenue of selected CGIs from transfers + other providers	602,107	0	
E-Library - tax refund	-6	0	
Revenue of selected CGIs from transfers	19	0	

Other providers

The NL CR was actively involved in a number of projects financed by the Ministry of Youth, Education and Sport and the Czech Academy of Sciences as the main researcher or a partner. This especially involved research, development and innovation projects.

Mandatory indicators

The contributions towards operations and targeted grants provided throughout 2022 were used in accordance with the purposes, for which they were provided. They have been monitored separately in the accounting (analytical accounts, centres).

The levy from write-offs and structures

As of 31. 12. 2022, the amount of 41,590 thousand CZK was paid to the income account of the Ministry of Culture of the Czech Republic as the levied write-off from real estate. The liability designated by means of the breakdown of the approved NL CR budget for 2022 was met within the due date.

The levy on earnings from the sale of state real estate

The NL CR did not sell any real estate in 2022 and as such no such sales earnings were levied.

The conditional indicator for the use of the contribution to operations

9,027 thousand CZK were allocated in the contribution to operations to cover the payment of

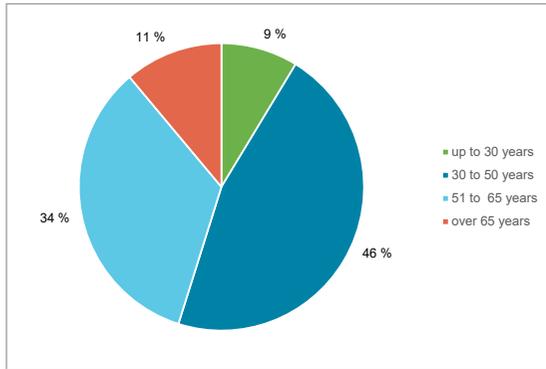
the costs for the realisation of those statutory activities that were formerly financed in the form of a targeted grant from the Library Public Information Service (VISK) of the Ministry of Culture of the Czech Republic; of that, 776 thousand CZK were provided for miscellaneous personnel costs.

The use of funds

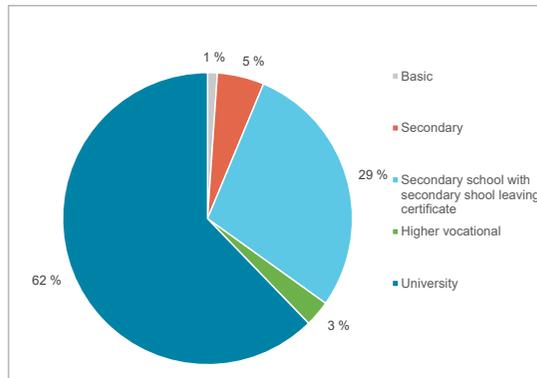
The Asset Reproduction Fund was budgeted at the amount of 35,800 thousand CZK as a supplementary source of financing for repairs, maintenance and the acquisition of low value assets. 28,422 thousand CZK were used. Finances from the Reserve Fund were utilised at the amount of 539 thousand CZK.

The limit for the recalculated number of jobs as part of the system of employment regulation was designated as 456.7 for the NL CR in 2022. This limit was adhered to and reached 456.67. The total number of jobs, including jobs whose wage costs were met using off-balance-sheet funds, amounted to 459.17 in 2022.

Personnel data



Breakdown of employees by age



Breakdown of employees by educational attainment

The Acquisition, Bibliography and Cataloguing Division

Statistics of domestic non-periodical production in 2022

The Annual Report on Non-Periodical Publications compiled by the NL CR is required for the official statistical reporting of the Czech Republic. It is sent to the Ministry of Culture of the CR, which submits it to the Czech Statistical Office. The data presented represent the book

production of the Czech Republic also abroad; they have been adopted by EUROSTAT as well as UNESCO. The tables of the report inform on non-periodical publications issued in the Czech Republic. The data have been processed according to the prescribed methodology, namely on the basis of legal deposit copies acquired by the National Library in 2022.

Table I

Titles of non-periodical publications by subject

Table II

Non-periodical publications by language of publication

Table III

Non-periodical publications – translations from other languages

I. Titles of non-periodical publications by subject

Subject Group		Total Number of Titles			First Edition Subtotals		
		Books	Pamphlets	Total	Books	Pamphlets	Total
1	Generalities	432	118	550	399	114	513
2	Philosophy, psychology	444	20	464	383	19	402
3	Religion, theology	481	65	546	399	58	457
4	Sociology, statistics	298	37	335	274	37	311
5	Politics, economics	359	36	395	300	35	335
6	Law, public administration, social relief and welfare, insurance	669	44	713	499	43	542
7	Military art and science	170	11	181	154	11	165
8	Education, teacher-training, leisure	897	356	1,253	607	267	874
9	Trade, communication, transport, tourism	141	31	172	109	27	136
10	Ethnography, cultural anthropology (customs, folklore, mores, tradition)	94	12	106	82	11	93
11	Philology, languages, linguistics	264	30	294	180	24	204
12	Mathematics	125	8	133	94	8	102
13	Natural sciences	429	145	574	356	134	490
14	Medical sciences, public health	533	129	662	421	122	543
15	Engineering, technology, industries, trades and crafts	292	74	366	260	74	334
16	Agriculture, forestry, stockbreeding, hunting and fisheries	349	137	486	316	130	446
17	Domestic science	280	23	303	237	21	258
18	Management, administration and organization	187	8	195	158	5	163
19	Physical planning, town and country planning, architecture	244	41	285	231	38	269
20	Plastic and graphic arts, photography	519	154	673	499	154	653
21	Music, performing arts, theatre, film and cinema	281	35	316	266	32	298
22	Games and sports	261	38	299	233	37	270
23	a) History of literature and literary criticism	169	11	180	160	11	171
	b) Literary texts	5,978	1,024	7,002	4,665	925	5,590
24	Geography	333	54	387	303	50	353
25	History, biography	1,364	85	1,449	1,209	82	1,291
Total		15,593	2,726	18,319	12,794	2,469	15,263
of which	School textbooks	554	152	706	241	84	325
	Children's books	1,910	1,309	3,219	1,381	1,168	2,549
	University textbooks	327	5	332	196	5	201

II. Non-periodical publications by language of publication

Language of Publication	Number of Titles
Total	18,319
Czech	15,884
Czech and other languages	995
English	630
Slovak	365
German	53
Russian	52
Polish	32
Italian	31
Ukrainian	27
Spanish	24
Hungarian	21
French	9
Romanian	9
Esperanto	7
Romani	4
Vietnamese	2
Albanian	1
Armenian	1
Belarusian	1
Bulgarian	1
Hindi	1
Indonesian	1
Yiddish	1
Korean	1
Mongolian	1
Norwegian	1
Slovenian	1
Serbian	1
Welsh	1
Multilingual (not including Czech)	161

III. Non-periodical publications – translations from other languages

Source Language	Number of Titles
Translations – total	7,050
English	3,808
German	1,000
French	433
Slovak	392
Italian	153
Polish	134
Spanish	132
Russian	128
Japanese	126
Swedish	77
Norwegian	50
Dutch	38
Ukrainian	27
Finnish	24
Modern Latin and Medieval	22
Chinese	20
Portuguese	20
Danish	19
Modern Greek	13
Classical Latin	10

Source Language	Number of Titles
Lithuanian	10
Croatian	9
Classical Greek	9
Hungarian	8
Icelandic	7
Belarusian	6
New Hebrew (ivrit)	6
Romani	6
Romanian	6
Slovenian	6
Modern Arabic	4
Esperanto	4
Serbian	4
Armenian	2
Azerbaijani	2
Old Hebrew	2
Hindi	2
Yiddish	2
Korean	2
Vietnamese	2

Source Language	Number of Titles
Flemish	2
Albanian	1
Bengali	1
Bulgarian	1
Kazakh	1
Latvian	1
Lusatian Serbian	1
other European languages	1
other old languages	1
Persian	1
different languages of Oceania	1
Sanskrit	1
Old Czech	1
Old Slovene	1
Tibetan	1
Turkish	1
Welsh	1
Multiple languages	307

Foreign Acquisitions in 2022

This does not include acquisitions by the Slavonic Library and the Librarianship Institute.

A. NON-PERIODICAL PUBLICATIONS

Total 8,555 library items

Printed documents 7,177

of which:

Exchange 2,179 (25.47 %)

Donations 1,663 (19.44 %)

Purchase 3,335 (38.98 %)

Non-printed documents 1,378

Microdocuments 1,347 (15.74 %)

Video recordings 2 (0.02 %)

Audio recordings 28 (0.33 %)

Electronic source 1 (0.02 %)

Analysis of total acquisitions by country

Country	Exchange	Donations	Purchase	Non-Printed Documents*	Total
USA	418	105	616	1,352	2,491
Germany	136	334	470	11	951
Great Britain	0	138	705	2	845
Spain	7	19	371	0	397
Slovakia	44	342	0	5	391
France	48	134	139	0	321
Russia	113	63	140	0	316
Poland	151	68	21	0	240

China	191	10	0	0	201
Finland	191	5	0	0	196
The Netherland	0	31	155	1	187
Portugal	0	3	158	0	161
Hungary	94	18	42	0	154
Switzerland	0	28	125	0	153
Austria	54	71	23	0	148
Italy	0	44	100	1	145
Moldova	132	0	0	0	132
Romania	61	7	51	0	119
Belarus	110	2	0	0	112
Serbia	93	13	2	0	108
Croatia	88	9	1	1	99
Ukraine	36	48	1	0	85
Belgium	7	10	46	1	64
Bulgaria	31	14	2	0	47
Azerbaijan	35	6	0	1	42
Japan	30	4	2	0	36
Mexico	26	0	7	0	33
Bosnia and Herzegovina	0	1	31	0	32
India	0	21	7	1	29
Canada	0	13	14	2	29
South Korea	24	4	0	0	28
Colombia	17	0	10	0	27

Brazil	0	6	17	0	23
Sweden	18	1	4	0	23
Singapore	0	1	20	0	21
Macedonia	6	12	0	0	18
Denmark	0	5	12	0	17
Greek	0	10	3	0	13
Kazakhstan	0	0	10	0	10
Luxembourg	7	3	0	0	10
Slovenia	5	5	0	0	10
Latvia	3	6	0	0	9
Egypt	0	5	2	0	7
Ireland	0	6	1	0	7
Turkey	0	4	2	0	6
Australia	0	2	3	0	5
Israel	0	5	0	0	5
other countries	0	0	5	0	5
Norway	0	3	1	0	4
Albania	0	3	0	0	3
Ghana	0	0	3	0	3
Georgia	0	1	2	0	3
Chile	0	1	2	0	3
Iran	0	1	2	0	3
Cyprus	0	3	0	0	3
Lithuania	0	3	0	0	3

Uzbekistan	3	0	0	0	3
Estonia	0	0	2	0	2
Philippines	0	2	0	0	2
Cuba	0	2	0	0	2
Malta	0	0	2	0	2
Thailand	0	2	0	0	2
Vietnam	0	2	0	0	2
Argentina	0	1	0	0	1
Barbados	0	1	0	0	1
Hong Kong	0	0	1	0	1
Pakistan	0	1	0	0	1
Peru	0	0	1	0	1
Saudi Arabia	0	1	0	0	1
Vatican City	0	0	1	0	1
Total	2,179	1,663	3,335	1,378	8,555
% of the total acquisitions	25.47	19.43	38.99	16.11	100.00

*) incl. CD-ROMs, microforms, video and audio recordings

B. PERIODICALS

	titles	%
Exchange	49	18.60
Donations	17	6.40
Purchase	198	75.00
total	264	100

An analysis of the total acquisitions by subject

Subject Group	Exchange	Donations	Purchase	Non-Printed Documents*)	Total	%
Generalities	155	68	192	38	453	5.30
Philosophy, psychology	41	150	125	0	316	3.70
Religion, theology	49	122	175	0	346	4.04
Sociology, statistics	136	111	170	6	423	4.94
Politics, economics	205	108	455	189	957	11.20
Law, public administration, insurance	227	35	54	612	928	10.85
Military art and science	40	52	86	81	259	3.02
Education, teacher-training, leisure	29	32	29	21	111	1.30
Trade, communication, transport, tourism	13	6	6	68	93	1.08
Ethnography, cultural anthropology	95	24	74	6	199	2.33
Philology, languages, linguistics	69	35	91	74	269	3.14
Mathematics	11	4	30	0	45	0.52
Natural sciences	50	40	121	0	211	2.47
Medical sciences, public health	145	27	43	43	258	3.02
Engineering, technology, industries, crafts	10	21	22	100	153	1.80
Agriculture, forestry	4	8	4	62	78	0.91
Domestic science	0	8	3	2	13	0.15
Management, administration and organization	1	12	6	37	56	0.65
Town and country planning, architecture	28	44	103	6	181	2.12
Plastic and graphic arts, photography	90	129	194	2	415	4.85
Music, performing arts, theatre, film and cinema	81	95	177	27	380	4.44
Games and sports	6	6	9	1	22	0.26
Literary studies	138	72	191	0	401	4.68
Geography	35	49	27	0	111	1.30
History, biography	416	181	923	3	1,523	17.80
Literary texts	105	224	25	0	354	4.13
Total	2,179	1,663	3,335	1,378	8,555	100.00

A commentary on the statistical analyses of the growth in international literature

Acquisitions are mainly focussed on documents from the main fields (the social sciences, natural sciences, culture and art). The acquired publications are incorporated into the National Conservation Collection (NCC) and the University Library Collection (ULC). The publications are also transferred to the Slavonic Library and the Librarianship Institute in exceptional cases.

The collections of the NL CR acquired a total of 8,555 book units of non-periodical literature, of which there were 7,177 printed documents and 1,378 non-printed documents.

The printed documents included 11 cartographic documents (2 for the NCC, 9 for the ULC), 0 graphic documents and 119 pieces of sheet music (1 for the NCC, 1 for the ULC and 117 for the Music Department). During 2022, 5,028 orders for international book products were verified and placed in the database.

All of the new additions were processed as acquisitions (additions that have been purchased and exchanged were also processed in the ACQ module).

In 2022, 1,940 volumes were sent abroad as exchanges, of which 1,000 volumes went to the EU. 1,592 publications were purchased for this purpose, while we received the remainder as donations. In total, we dealt with 524 orders from abroad.

In 2022, international documents were purchased for almost 4,000,000 CZK. The share of the purchased international literature in

the overall budget of the Foreign Acquisition Department (FAD) was once again higher than the exchanges (38.98 %), which confirms the falling trend in exchanges in favour of purchases as a form of acquiring international literature. A total of 3,322 volumes were purchased and 13 volumes were acquired as direct purchases. The average costs for one international volume amounted to 1,202.65 CZK.

In 2022, FAD employees exerted maximum efforts to acquire the profiled publications for the NL CR collections for the lowest possible costs through the use of special discounts offered by international suppliers/publishing houses and trade fair discounts. Despite that, however, the systematic price increases in the book market, rises in postage, the not insignificant VAT rate and the exchange rate for the koruna all influenced the purchases of international documents. It will be necessary to further focus on direct purchases at trade fairs in order to alleviate the negative consequences of the aforementioned factors.

The participation of the FAD at the international book trade fair in Frankfurt am Main was very successful. The discounts on the purchased publications regularly reached 40 %. Some of the Frankfurt publishing houses, with which we have long cooperated, sent us the ordered publications with the trade fair discount, even though they were not at the trade fair. 801,120.54 CZK were saved through discounts when purchasing foreign literature. 128,270.10

CZK were saved when purchasing Czech literature to exchange with partners.

In 2022, exchanges accounted for 22.47 % (2179 volumes) of the overall acquisition of foreign literature.

Exchanges continue to have an irreplaceable part to play in the overall acquisition of foreign documents, especially from countries outside the EU, and the exchange of periodicals is also significant, which is no doubt of benefit to the NL CR. In 2022, the share of exchanges in the acquisition of international printed periodicals fell slightly to 18.60 % (It was 22.50 % in 2021). On the other hand, exchanges throughout Western Europe and the USA have been stagnating for several years. The main type of acquisition in these areas is through purchases.

In 2022, 1,663 documents were registered from 50 donors at a total estimated value of 1,663,000 CZK. Some of the gifts are worth mentioning. Specifically, the library received an extensive gift of narrative international publications in February. The donor was Ottovo nakladatelství, společnost pro vydávání encyklopedické literatury, s r.o. The donated books fall under the area of the history of wars and weapons, general history, travelling, natural science and popular psychology. The martial subject matter in the collection is balanced by titles dealing with, for example, issues of human sexuality or angelology. The official presentation of a book donation to the National Library of the Czech Republic from the Tibetan-Government-in-Exile took place on 30.8.2022. The

library's collections were enhanced by 223 volumes of the Monlam Grand Tibetan Dictionary. The Director General of the National Library, Tomáš Foltýn, received them from the hands of Sikyong Penpa Tsering of the Tibetan-Government-in Exile in the presence of the Minister of Culture of the Czech Republic, Martin Baxa. The library also received an extensive book donation from the Ladislav Hejránek Archive. The collection contains approximately 8000 volumes, especially of expert literature mainly focussed on philosophy, periodicals and belles-lettres in Czech, German, English or French.

The statistical indicators for services

The National Library of the Czech Republic provides library and information services as a fundamental statutory activity under the conditions defined in the Rules and Regulations of the National Library. The spectrum of basic services is stable. In addition to the use of the physical collections on site, the provision of access to the contents of documents online and via digital libraries also constitutes a regular part of the library's fundamental services. With regard to the evaluation of the statistical indicators for 2022, the operations of the NL CR as a physical space for the public were still influenced by the Covid measures at the start of the year (for example, the limited number of study places) or the after-effects of the cyber-attack from May 2021, which remained in place for a significant

part of the year, especially in the area of the number and variability of the computers for readers. Nevertheless, we can generally state that the operating conditions at the NL CR in 2022 were considerably close to the standard regimen, including the traditional two-week closure in summer. It is pleasing that our visitors and users are gradually beginning to return to using the library's physical spaces and services, albeit that the work with electronic sources continues to be significantly strong. Graphs 11–12, as well as Graph 13, document the degree to which the licensed databases and especially the digital libraries were put to use. In the case of the National Digital Library (NDL), it is principally necessary to mention the fact that a relatively high degree of use has been preserved, despite the fact that its wide-ranging accessibility based on a "Covid exception" lapsed from the middle of 2021 and the access to the digitised documents in 2022 was then once again provided in compliance with the standard legal conditions (see the commentary below). The statistical indicators for the physical use of the services and spaces of the NL CR have shown significant growth in comparison with 2021, but it is necessary to keep in mind that Covid-19 continued to influence the habits and conduct of the users in the previous year. In other words, even though the gradual physical return of users within the context of the Covid years of 2020 and 2021 is promising, the degree of use of the physical services in 2022 was approximately 30 % lower than in 2019.

A further positive feature of 2022 most certainly involves the fact that technology has enabled us to offer users new services (remote registration using a bank identity, the expansion of the options for online payments), which can simplify the use of the library for them. Other users may have been attracted to physically use the National library by the new facilities in the Chill Out Zone and Individual Study Zone, which we opened in the middle of May 2022. The Periodical Department started the so-called re-cataloguing of its live collection in 2022. This involves the fast processing of the live collection after a loan at the minimum record level. In 2022, 2,160 volumes were processed and 20 new records were created. In this way, we are also endeavouring to increase user comfort and reduce the numbers of periodical volumes, which users can only order using the scanned catalogues.

The physical visitor numbers at the lending and reading rooms increased in 2022 compared to the previous year by 187 % (see the table entitled A summary of the provided services ... and Graphs 3 and 8). When evaluating this data, it is necessary to keep in mind that 2021 was significantly influenced by the Covid measures and furthermore by the cyber-attack, i.e. it was a year with a relatively significant fall in visitor numbers.

The Hall of Services continues to be the most visited reader area in its capacity as the initial reception centre for users and it recorded 52,353 reader visits. This number represents

approximately 140 % of the volume of the reader visits to this space in 2021. All the reading rooms providing basic services experienced a rise in visitor numbers of at least 189 % of the volume for 2021. The General Reading Room has long been the most used reading room and its visitor numbers rose to 258 % of the volume for 2021. This reading room has the largest number of study places (in February 2022, it was possible to increase the number of places to half and all the study places have been available since May 2022) as well as the longest opening hours: 75 hours a week. Of the reading rooms providing basic services, the visitor numbers at the Social and Natural Sciences Reading Room (240 %), the Reference Centre (220 %) and the Periodicals Reading Room (204 %) all at least doubled. In the case of the Scholars' Reading Room, which is primarily designated for a more closely defined group of users, the visitor numbers were slightly less than double (189 %) the numbers for the previous year. The return to a non-Covid way of life undoubtedly contributed to the increased visitor numbers, but for all that, as has already been said, it is necessary to realise that we are still in the area of approximately 70 % of the visitor numbers of 2019. Of the specialised reading rooms, the visitor numbers at the Manuscripts and Early Printed Books Reading Room (221 %) or the Slavonic Library (160 %) grew the fastest. In the case of the other specialised reading rooms, the numbers were in the realm of 130 % of 2021 (see the table entitled A summary of the provided services ... and Graphs 3 and 8).

The number of loans of physical volumes in 2022 (another of the monitored indicators) was slightly above 164 % of the value for 2021 on average. However, it is possible to observe significant fluctuations against the aforementioned averages at the individual workplaces providing loans in 2022. The greatest leaps forward were achieved by the Periodicals Reading Room (250 % of the number of loans in 2021) and the Social and Natural Sciences Study Room (249 %). This reading room focusses, amongst other things, on the provision of access to non-published documents, the accessibility of which was significantly influenced by the cyber-attack of 2021. The increase in the number of recorded loans is therefore associated with the renewed conditions for studying non-printed documents. Growth especially occurred in the number of loans of microfilms, which have replaced the periodicals removed from circulation in their paper form. The greater reader visitor numbers also manifested themselves in the number of loans recorded at the General Reading Room (211 % of the volume of 2021), the Scholar's Reading Room (169 %) and the Hall of Services (163 %). In the specialised reading rooms, the greatest increases in the numbers of loans in comparison with 2021 occurred at the Music Department Reading Room (230 %), the Manuscripts and Early Printed Books Reading Room and the Library and Information Science Library (each 159 %). The Hostivař Reading Room recorded a slight fall in the number of loans in comparison with the previous year (98 % of the volume of loans

in 2021). As in the case of the increased physical visitor numbers at the individual reading rooms, it is also possible to associate the increases in the volume of physical loans with the gradual return to regular life without the nationally applied Covid measures and, for example, the renewal of in-person learning at universities or at least its combination with remote learning. A certain role may also have been played by the fact that the provision of access to the National Digital Library in the NDL-Covid regimen ended in the middle of 2021 and remote access to the NDL is only possible for out-of-commerce works, i.e. registered users could no longer remotely access digitised documents from the most recent period, which were still on offer under NDL-Covid in 2021. Loans have had a falling tendency since 2014, while a dramatic fall occurred in 2021 as a consequence of the interplay of a number of circumstances (the closure of the NL due to Covid-19 and the cyber-attack). Thanks to its "normalcy", 2022 brought a certain reversal in this declining curve, while last year's renewal of the dispatch of books from the depositories, which were formerly long closed due to revitalisation, may have also played a positive role (see the table entitled A summary of the provided services ... and Graph 7). The development in the following year will show whether we can perceive this year's loan numbers as a reversal of the long-term trend or a mere blip caused by the extreme drop in loan numbers in 2021.

The fall in the number of reader orders (see the table entitled A summary of the provided

services ... and Graph 4) was of a permanent nature in 2014–2021. In the past, this was especially influenced by the impacts of the revitalisation of the depositories and the associated inaccessibility of the collections, while the Covid-19 pandemic, the cyber-attack and definitely the developments in the provision of access to digitised documents and the enforced change of lifestyle played a role in 2020-2021. The number of orders rose against 2020 and 2021 thanks to the gradual “normalisation” of the library’s operations in 2022. The majority of the orders were placed online. The users appreciate the comfort of the reminders and warnings, of which the automated loan systems send out tens of thousands. The positive resolution of the requests has achieved standardly high levels and in 2022 it had a 99.6 % success rate. The information related to new registrations also correlates with the aforementioned development trends. In recent years, the numbers of new registrations have had a falling tendency, while a more distinctive drop has been apparent since 2015 (see the table entitled A summary of the provided services ... the table entitled The basic services of the NL CR ... and Graph 2). This drop was interrupted in 2022 and the number of registered users grew slightly. The pleasing thing within this context was the fact that it is possible to observe increased interest in registration or the extension thereof in comparison with previous years (more than 22 % of extensions took place online). In other words, new users are arriving or their interest in using

the services of the NL CR is ongoing, no matter whether at the level of the physical services and space or in the area of online services. The interest in registration at the NL CR was not even affected by the change in the price list at the end of August 2022, which led to an increase in the registration fee for in-person and remote registration. From 29.8.2022, the amount of the registration fee differs by age (100 CZK for users up to 25, 150 CZK for users aged 26–69). The NL CR has also offered remote registration using a bank identity since May 2022 and an average of 30 remote users a month used this method of registration. This is designated for those users who are only interested in online access to the NL CR sources (the licensed databases, out-of-commerce works).

Interlibrary services in the world of the internet, prepaid databases with the provision of access online and the increasing interest in digital libraries cover any highly specialised requests for the acquisition of loans and copies. This usually involves difficult to acquire documents, the acquisition of which is highly financially demanding, especially if they have to be delivered from abroad. The data for 2022 confirmed the falling number of requests for both domestic and international interlibrary services (see the table entitled A summary of the provided services ... and Graph 5). The number of requests for interlibrary services amounted to more than 96 % of the volume of the previous year. The area of reprographic services experienced growth in 2022, especially in the number of printed

outputs (see the table entitled A summary of the provided services ... and Graph 6), to the level of 132 % of the previous year.

The services are being dynamically developed on the individual websites operated by the library. The virtual reference service known as Ptejte se knihovny [Ask the library] continues to be the most utilised domain that the library operates with more than 1.45 million hits. The visitor numbers to this domain have continually grown since 2018. On the other hand, the hits at the domain nkp.cz (see Graph 10) fell more significantly in comparison with 2021, which can once again be largely associated with the significantly non-standard nature of that year and the need to look up current information about the operations of the NL CR. Ask the library and www.nkp.cz have managed to remain above the level of 2 million hits, while still quite a long way behind the National Digital Library (see Graphs 11 and 12).

The numbers of visited and viewed pages at the National Digital Library fell to 50 % in comparison with 2021 (see Graphs 11 and 12). The drop in the degree of use of the NDL can be associated with the aforementioned end of the NDL-Covid regimen in the middle of 2021. However, we can also compare this data with the data from the “pre-Covid” period, specifically with 2019, for example. This comparison shows that the volume of pages displayed in the NDL for 2022 represents 258 % of the volume in 2019 (see Graph 12). The NDL visitor numbers have shown a more than fivefold increase, which

corresponds to 565 % visitors numbers at the digital library in 2022 compared with 2019 (see Graph 11). Therefore, even though the NDL was unable to maintain the level of use of the previous year in 2022, it is possible to infer from the available data that its importance or usability for users has increased significantly over the long term. A number of users have become acquainted with the NDL precisely during the period of the lockdowns and the complicated path to acquiring the information necessary for study or research. The NDL offers its users public domain works, out-of-commerce works, most of which are accessible after logging in, and works that are only accessible from the computers at the NL CR in association with the Copyright Act. The results of the digitisation process are also regularly added to the NDL, i.e. its contents are regularly enhanced with further documents. The out-of-commerce works mode provides users with access to hundreds of thousands of digitised documents for users while adhering to the given conditions. In 2022, the List of Out-Of-Commerce Works was also launched in a new form. A further impetus to use the NDL may arise for the users of other libraries in situations where they find information as to the existence of the digital form of an out-of-commerce work in their library's catalogue. In 2022, for example, the Research Library of South Bohemia in České Budějovice dedicated itself to this very topic. All of these individual "fragments" may constitute reasons for the aforementioned growth in the

use of the NDL in comparison with 2019 and 2022.

Electronic information sources (EIS) have long been one of the pivotal areas that most influence users and the public when evaluating the quality of a library's online information services. Standard library services include loans from electronic libraries to the library's own reading devices (especially ProQuest Ebook Central, EBSCO eBook Collection and Springer). The main library and electronic source catalogues are also available via the EBSCO Discovery Service (EDS) interface. The use of the service has been maintained at a more or less stable level. In 2021, the statistical indicators recorded 41,056 hits and 51,716 searches, i.e. this involved a slight fall in the use of EDS compared to 2021.

The library's standard activities include educational and cultural activities. The National Library is also a listed building that provides tours. The gradual return of life to its standard ways is also manifesting itself in the visitor numbers at educational and cultural and activities. The visitor numbers at events organised or co-hosted by the National Library rose almost sevenfold in comparison with 2021. Approximately 40,000 people attended the Signal Festival of Lights in the Clementinum courtyards, while the Behind the Door – Phoenix's Garden theatrical project was visited by approximately 3,500 people. All the physical exhibitions installed in various parts of the Clementinum were visited by 14,801 people and other readers

also saw the exhibitions in the Clementinum's corridors, which are freely accessible to the registered users of the NL. The most visited exhibitions were the *Book and the Veil* (3,404 people) and *Codex 1085* (3,174 people). 2,925 pupils and students became acquainted with the Clementinum by means of various collective education events especially oriented towards primary and secondary schools. There was a 277 % increase in the volume of these activities in comparison with 2021. The visitor numbers at events held in the Clementinum by other entities were more than double those of 2021 (240 %). Guided tours of the historical areas (the Baroque Book Hall and the Astronomical Tower) contributed significantly to this number.

An overview of the services provided in loan departments and reading rooms of the National Library of the CR 2022

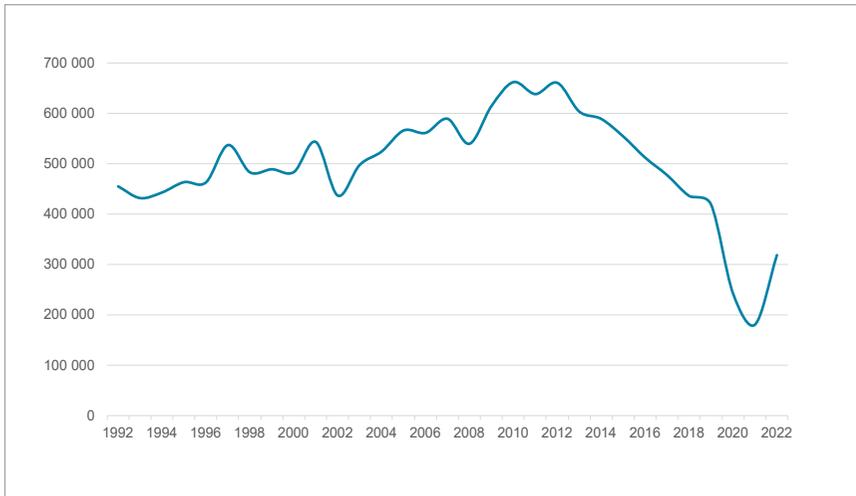
Items Monitored	Main Hall	General Reading Room	Social and Natural Sciences Reading Room	Scholars Reading Room	Study and relaxation zone	Reference Centre*	Periodicals Reading Room	Manuscripts and Early Printed Books Reading Room	Music Department Reading Room*	Reading Room in the National Library in Hostivař	Library and Information Science Library	Slavonic Library*	Archives of the NL CR
Registered loans	188,132	76,537	348	29,479		3,190	20,690	1,078	1,716	1,777	1,657	27,845	588
of which: home loans	182,064	0	0	0		1,004	378	0	48	0	1,037	19,882	14
in-house use of documents	6,068	76,537	348	29,479		2,186	20,312	1,078	1,668	1,777	620	7,963	574
Registered users	14,340					1,746						1,122	10
of which new library cards	3,988											210	
Library usage	52,353	33,098	7,554	4,067	5,642	5,346	3,099	466	615	350	462	6,053	74
Users Requests	113,166												
of which fulfilled	112,746												
Interlibrary-service requests						5,059						399	
of which ordered abroad						1,359						2	
Overdue notices sent through the lawyer's office	22											1	
Photocopying and printing for users	17,431		31,639			27,554	4,151			40		1,918	

* The service is provided in temporary space and in non-standard conditions.

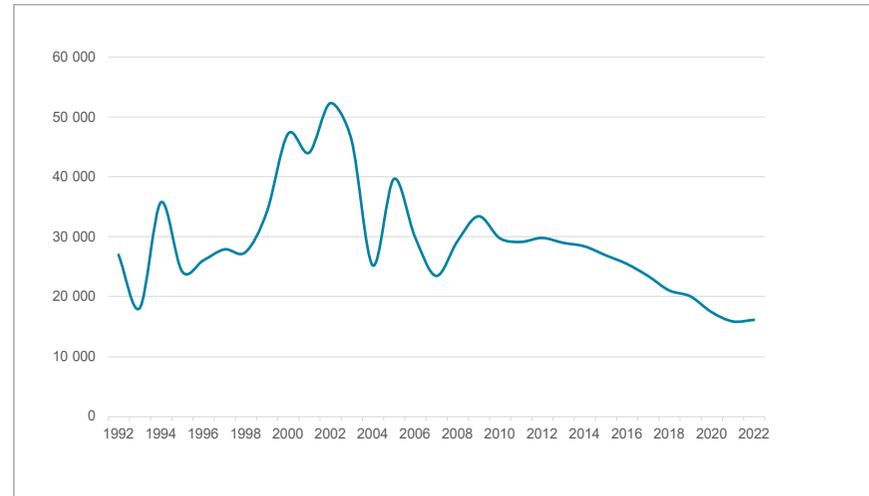
The basic NL CR services in figures in 2001–2022*

Items monitored		Registered loans	Registered users	Library visits (visitors of the Main Hall and main reading rooms)	Requests submitted by users	of which fulfilled	Request success rate in percentage	Interlibrary- service requests	of which ordered abroad	Photocopies and print-outs for users
2001–2010 average	number	553,764	35,324	435,476	290,720	278,075	95.65 %	24,447	6,987	492,546
	index	100	100	100	100	100		100	100	100
2011	number	638,731	29,130	344,362	322,766	317,151	98.26 %	18,040	4,784	460,736
	index	115	82	79	111	114		74	68	94
2012	number	661,102	29,799	350,179	343,971	341,394	99.25 %	16,582	4,622	386,132
	index	119	84	80	118	123		68	66	78
2013	number	603,926	28,975	322,987	295,804	293,403	99.19 %	15,882	4,541	354,532
	index	109	82	74	102	106		65	65	72
2014	number	589,323	28,388	316,529	316,044	313,910	99.32 %	15,671	4,612	303,696
	index	106	80	73	109	113		64	66	62
2015	number	554,506	26,897	294,118	283,068	281,632	99.49 %	15,081	4,552	249,712
	index	100	76	68	97	101		62	65	51
2016	number	512,280	25,453	270,898	261,799	260,866	99.64 %	12,757	4,230	203,597
	index	93	72	62	90	94		52	61	41
2017	number	477,488	23,433	226,803	231,391	230,340	99.55 %	10,884	3,378	168,503
	index	86	66	52	80	83		45	48	34
2018	number	436,287	21,013	140,505	205,886	205,103	99.62 %	9,625	2,712	127,530
	index	79	59	32	71	74		39	39	26
2019	number	419,067	20,021	139,854	173,721	173,174	99.69 %	8,635	2,451	147,230
	index	76	57	32	60	62		35	35	30
2020	number	242,473	17,386	84,427	102,124	101,783	99.67 %	5,965	1,439	76,162
	index	44	49	19	35	37		24	21	15
2021	number	180,259	15,827	58,281	77,674	77,502	99.78 %	5,532	1,419	61,266
	index	33	45	13	27	28		23	20	12
2022	number	318,376	16,086	111,159	113,166	112,746	99.63 %	5,059	1,359	80,775
	index	57	46	26	39	41		21	19	16

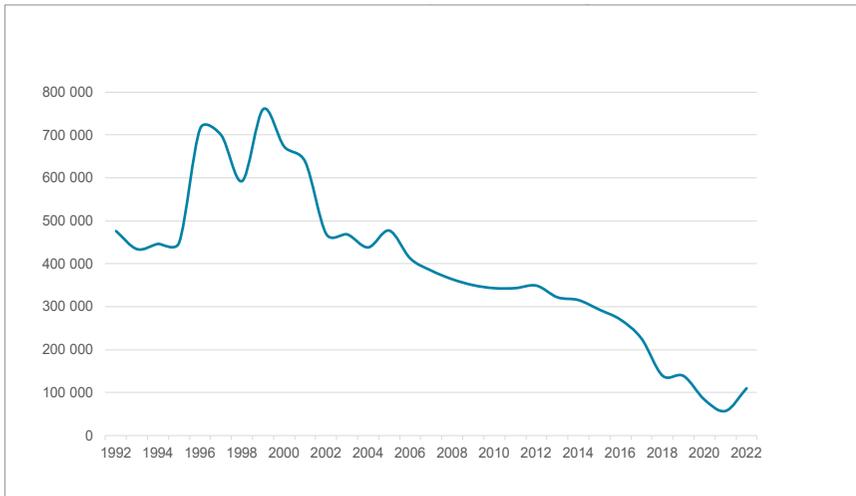
* Basic services include: Main Hall, General Reading Room, Scholars Reading Room, Social and Natural Sciences Reading Room, Reference Centre, Periodicals Reading Room.



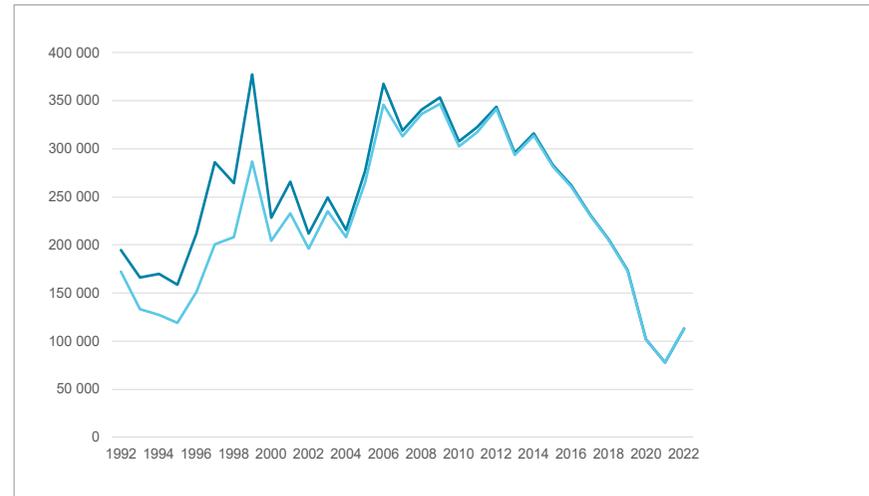
1 Loans



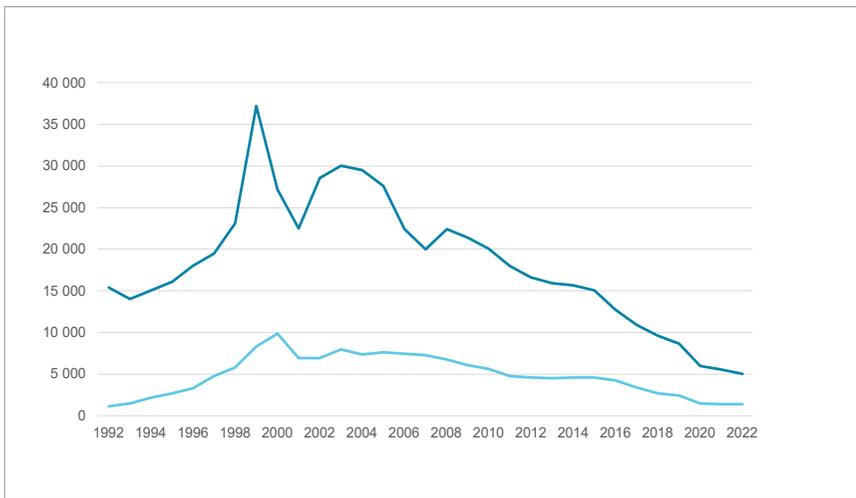
2 Registered users



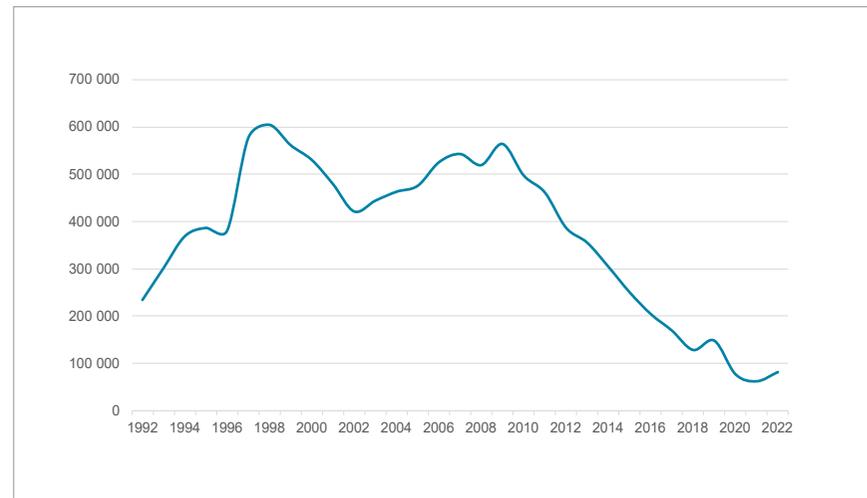
3 The visitor numbers at the loan departments and reading rooms



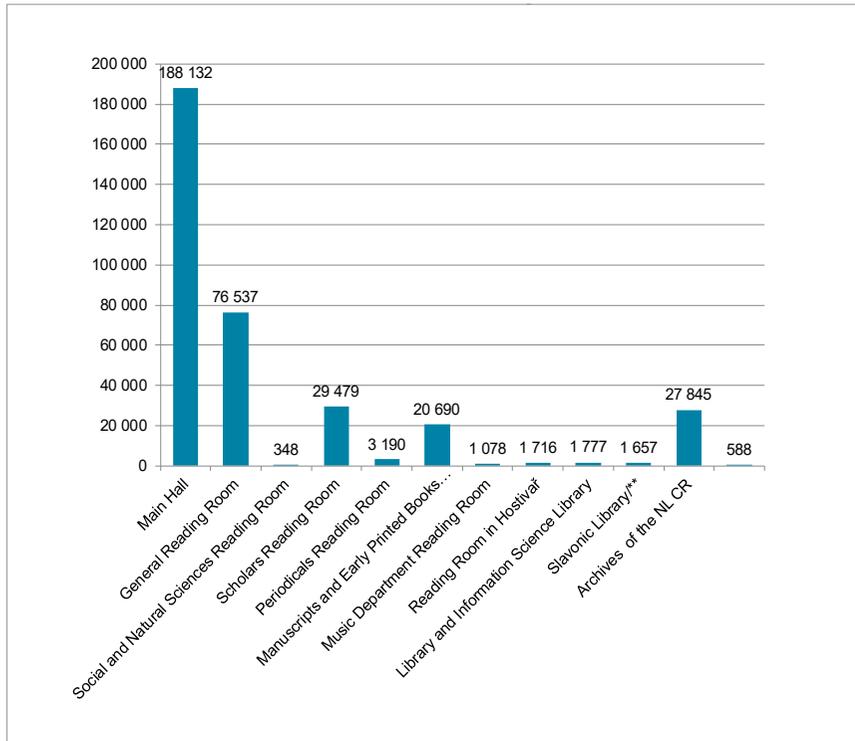
4 Requests



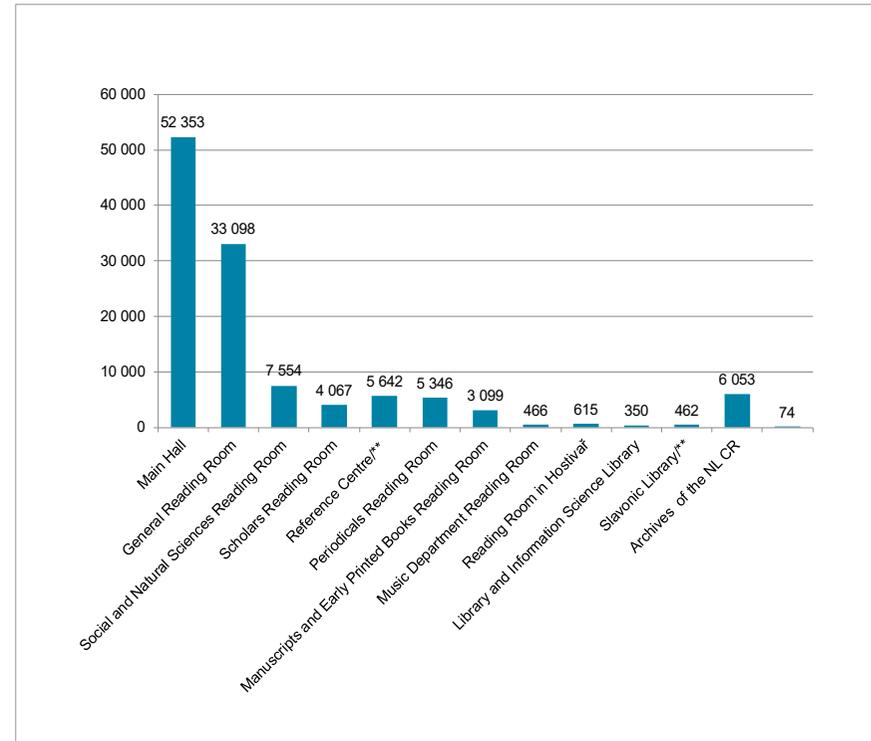
5 Interlibrary services



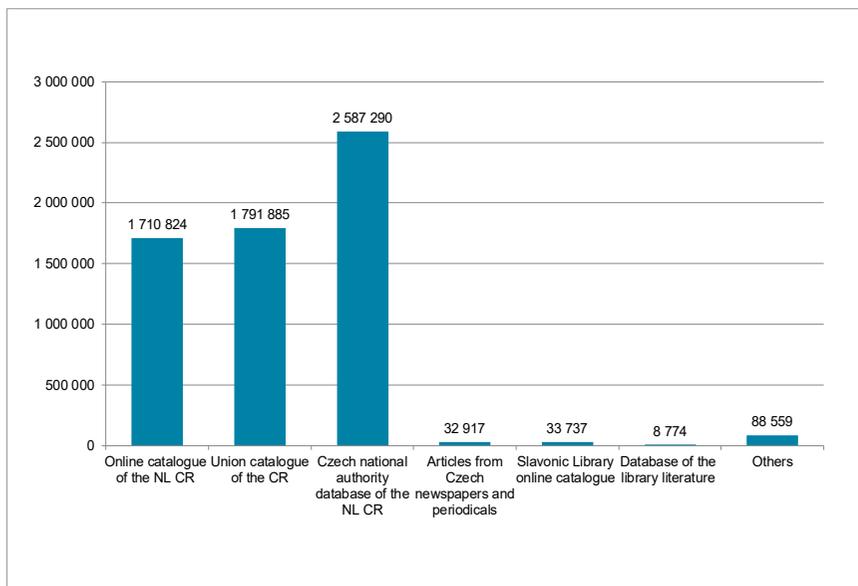
6 Photocopying and printing



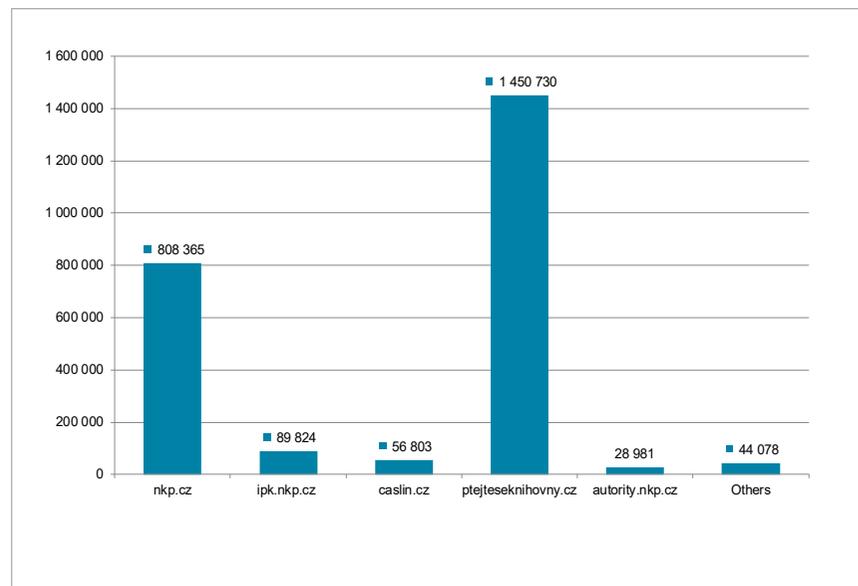
7 Registered loans



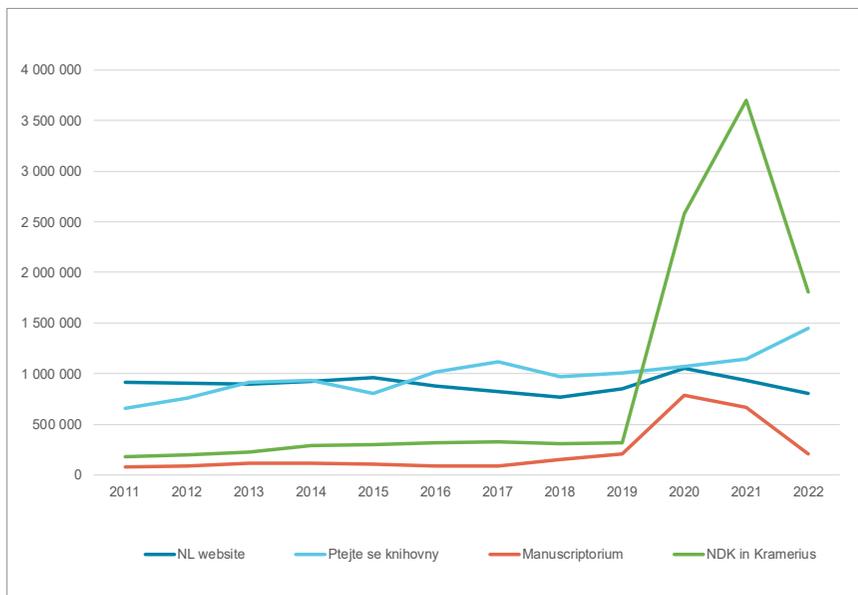
8 Library usage



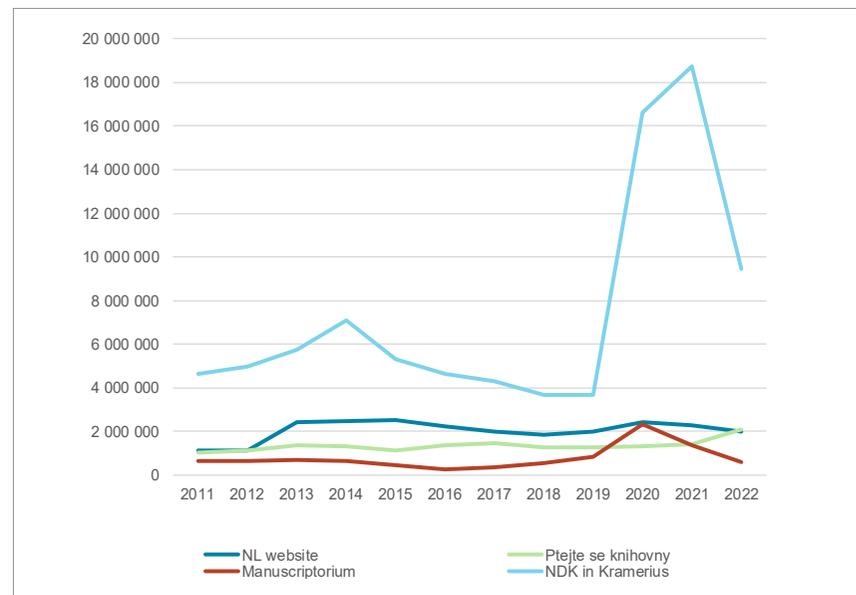
9 The use of the catalogues and databases at the NL CR



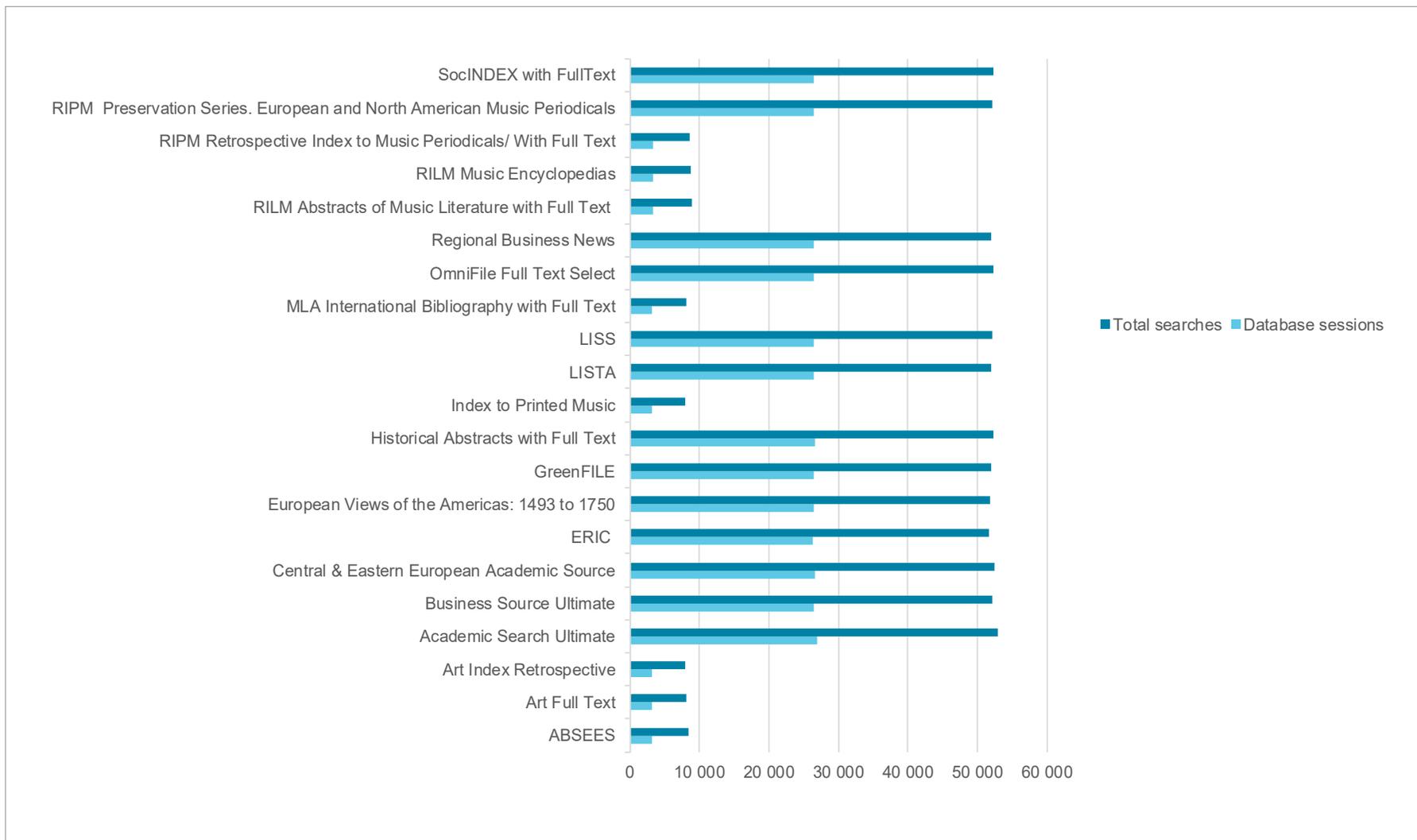
10 Website visitor numbers



11 Visits to the NL CR websites and digital libraries



12 Downloaded / displayed pages from NL CR websites and digital libraries

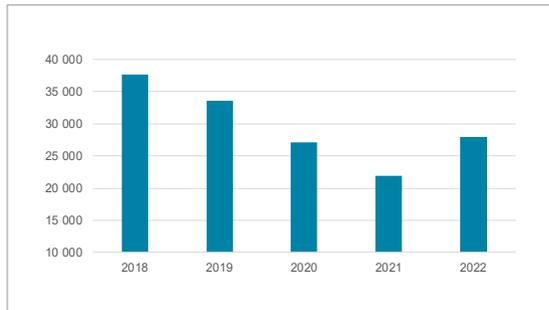


13 The use of licensed electronic information resources

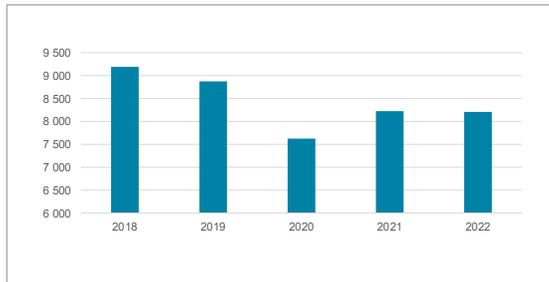
The Slavonic Library

Services provided

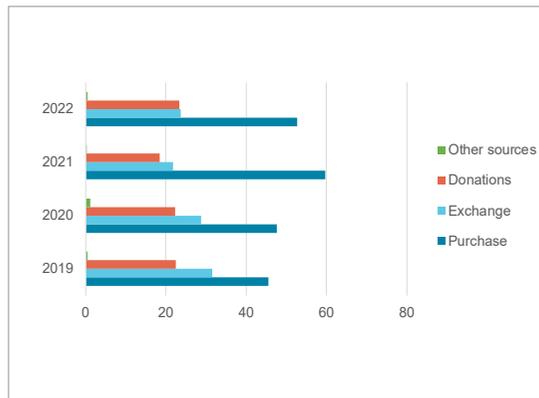
Registered users as of 31 December 2022	1 122
Library usage	6 053
Total number of loans	27 845



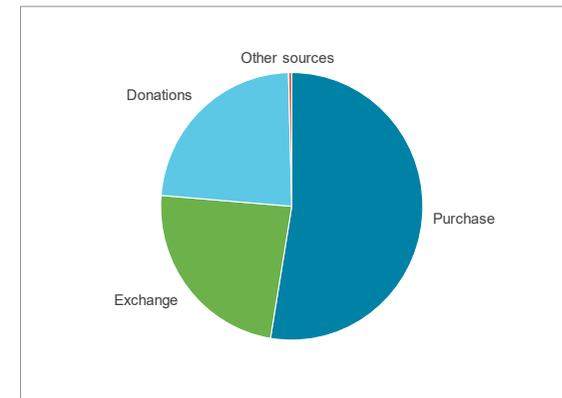
Development of the number of registered loans (2018–2022)



Collection acquisitions



The acquisition structure in the years 2019–2022 (in %)

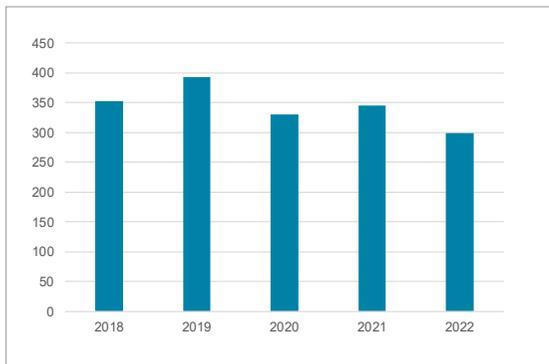


The proportion of individual acquisition sources in the total acquisitions in 2022

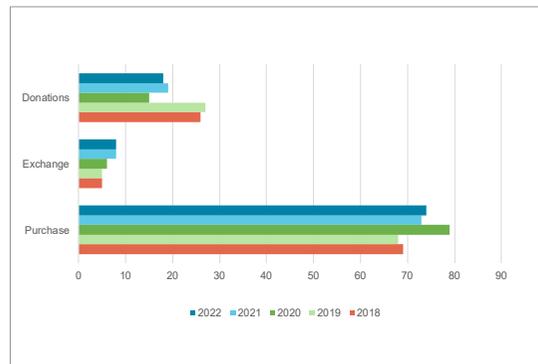
The Library and Information Science Library

Services provided

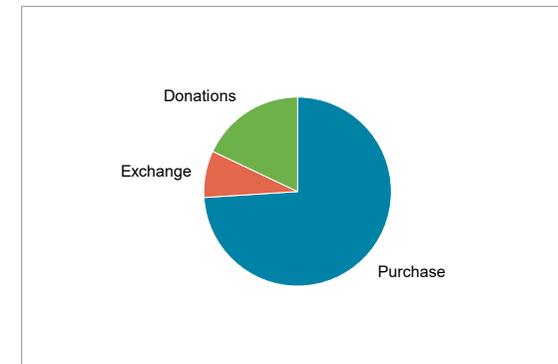
Library usage	462
Total number of loans	1 807



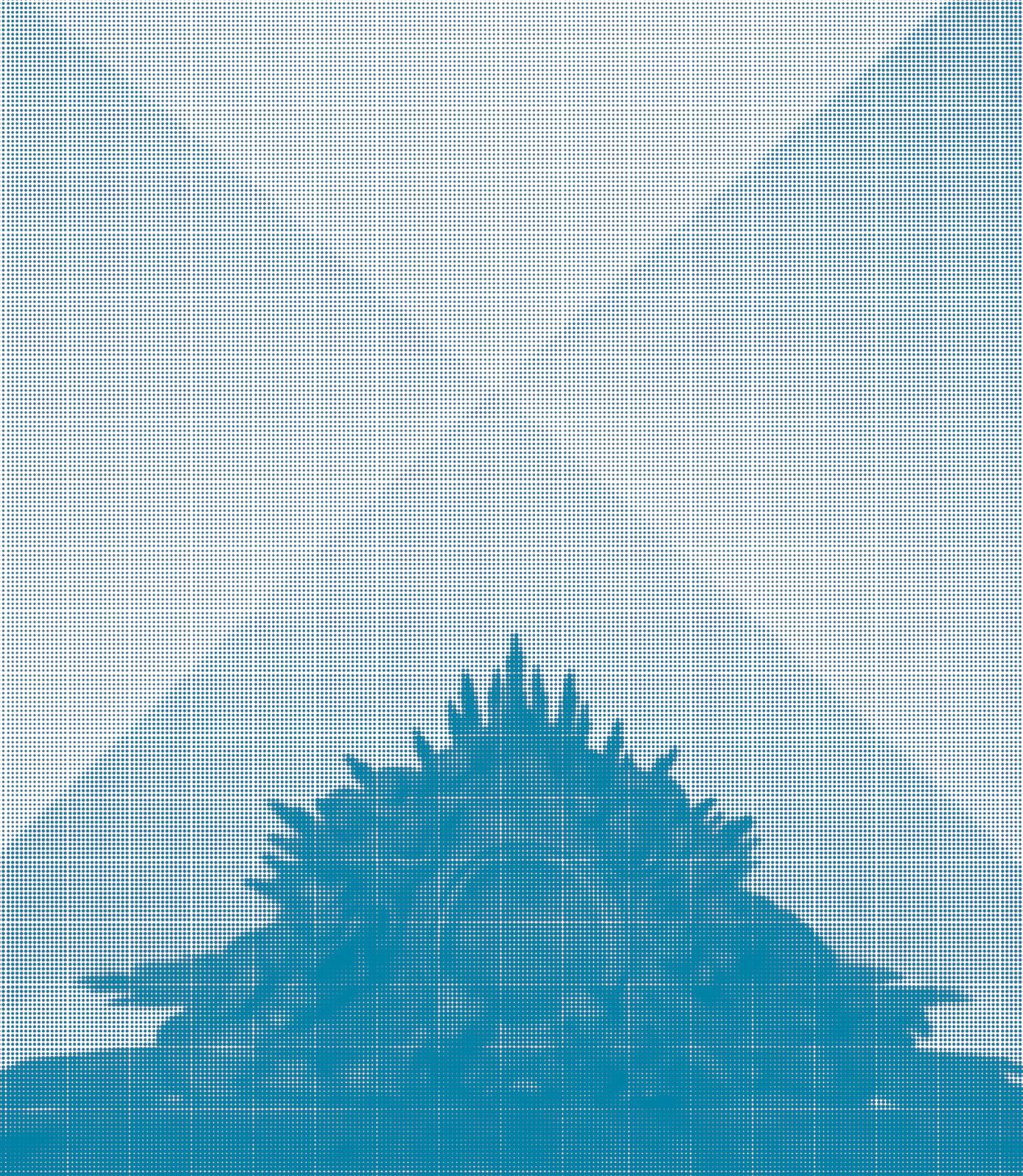
Collection acquisitions



The acquisition structure in the years 2018–2022 (in %)



The proportion of individual acquisition sources in the total acquisitions in 2022



The library's cultural, educational and publishing activities

Important events throughout the year

6 January

The NL CR gala evening for significant collaborators and partner institutions.

23 February

The NL CR signed a memorandum of cooperation with the National Cyber and Information Security Agency.

25 February

The filming of the Reading in the Digital World spots; a series of short spots mapping the problems of contemporary readership, including the period of the pandemic, was filmed with the support of the Czech Academy of Sciences.

12 March

My Thoughts... a musical-literary afternoon; a recital by Giorgi Koukl, a Czech-Ukrainian-Belorussian pianist, and the Duo MarOlja, supplemented with examples of Ukrainian and Belorussian poetry. It was organised by the Association of Ukrainians and Friends of Ukraine and the Slavonic Library.

23 March

Ars poetica; a literary afternoon dedicated to Blaga Dimitrova, the Bulgarian writer, literary critic and politician, held upon the occasion of the 100th anniversary of her birth. It was organised by the Slavonic Library, the Slavonic Institute of the Czech Academy of Sciences and the Bulgarian Cultural Institute.

29 March – 1 April

An expert visit to the NL CR by the Deputy Manager of the Slovenian National and University Library, Dr Ines Vodopivec.

1 April

A Night with Andersen at the Clementinum; The NL CR prepared an interesting program for its employees' children as part of the 22nd anniversary of the event held in support of children's reading.

7 April

The commencement of the Czech-Baltic Literary Century exhibition; important guests included the Ambassador of the Republic of Lithuania, His

Excellency Laimonas Talat-Kelpša, the Ambassador of the Republic of Estonia, Her Excellency Gita Kalmet, the Ambassador of the Republic of Latvia, Her Excellency Gunta Pastore, and the NL CR Director General, Tomáš Foltýn.

12 April

A visit from the Minister of Culture for the Czech Republic, Martin Baxa.

13 April

The Easter fair and book bazaar in the Clementinum's main courtyard, accompanied by tours of the exteriors and the Mirrored Chapel.

20 April

The provision of access to the NL CR database under the CC0 licence.

27 April

A visit from the members of the Cultural Committee of the Senate of the Czech Republic. Negotiations on support for the NL CR at the level of the passage of laws; a discussion about the joint activities within the framework of the Czech Republic's Presidency of the EU Council.

3 May

A transformation in the perception of Byzantium in the Russian (Slavophile and anti-Slavophile) thought of the 19th century; a lecture by the religious scholar and historian of philosophy, Dmitry S. Birjukov, as part of the Guest Professor Lecture Cycle at the Faculty of Arts of Charles

University. It was organised by the Slavonic Library and the Institute of Eastern European Studies at the Faculty of Arts of Charles University.

5 May

The NL CR launched the option of registering using a bank identity.

11 May

A visit by the President of the Republic of Bulgaria, General Rumen Radev.

17 May

The official announcement of the Jiří Orten Prize in the Mirrored Chapel; Vojtěch Vacek was named the Jiří Orten Prize laureate in 2022 for his poem Měňagon. The literary award is designated for young talented Czech authors under 30. The prize is awarded with the support of the Ministry of Culture of the Czech Republic, the State Culture Fund and the Municipal Authority of the City of Prague, while the Czech Literary Centre is a partner.

18 May

A visit from the Committee for Ethnic Minorities from the City Council of the City of Prague at the Clementinum, a presentation of the activities of the NL CR Communications Department.

19 May

The SONS and libraries conference; a conference with a thematic focus on the new options for using library premises to host activities for blind and sight impaired people took place in the Mirrored Chapel at the Clementinum.

19 May

A visit to the NL CR by the Ambassador of Armenia, Ashot Hovakimian, discussions about organising a joint exhibition.

27 May

A visit to the specialist workplaces at the CDH with the Minister for Science, Research and Innovation, Helena Langšádlová.

3 June

The opening of the Secrets of Books exhibition.

4 June

A benefit concert for International Children's Day in the Mirrored Chapel.

9 June – 12 June

Book World Prague 2022, the 27th international book and literary festival; presentations of the activities of the NL CR in the form of an unconventional open space stand and the interactive Library? National! educational trail.

10 June

The transfer of stucco fragments from the former Church of Saint Michael to the collections of the

National Technical Museum with the participation of the NTM Director, Karel Ksandr, and the Director General of the NL CR, Tomáš Foltýn.

23 June

The opening of the ... Paper and Lead... exhibition.

26 July

The NL CR and the Centre for Scientific and Technical Information of the Slovak Republic signed a cooperation agreement.

24 July – 29 July

The IAML 2022 international congress of music librarians; a work meeting of music librarians, documentarians and musicologists took place with cooperation from the NL CR, the Prague City Library and the Bohuslav Martinů Institute and with the assistance of the National Museum, the Czech Museum of Music and the Municipal House. Extensive specialist and accompanying programs were prepared for approximately 330 participants from 30 countries around the world.

4 August

The opening of the Age of Plastic in Bookbinding exhibition.

8 August – 12 August

The NL CR day camp with the theme of “the sustainable library”.

16 August

The Director General of the Czech Centres and the NL CR signed a new Memorandum of Cooperation between both institutions.

18 August

The opening of the Restoring the treasures of the National Library of the Czech Republic or the secrets of a restorer's work exhibition.

30 August

The presentation of a book gift from the Tibetan Government-in-Exile to the National Library of the Czech Republic; the library's collections were enhanced by 223 volumes of the Monlam Grand Tibetan Dictionary. The Director General of the National Library, Tomáš Foltýn, received them from the hands of Sikyong Penpa Tsering of the Tibetan-Government-in Exile in the presence of the Minister of Culture of the Czech Republic, Martin Baxa.

12 September – 18 September

František Skorina – a doctor, book printer and gardener; an international summer school held upon the occasion of the 500th anniversary of the transfer of Skorina's publishing activities from Prague to Vilnius. It was organised by the Institute of Eastern European Studies at the Faculty of Arts of Charles University with cooperation from the Institute for the Lithuanian Language, the Wroblewski Library of the Lithuanian Academy of Sciences, the Communication Faculty at Vilnius University and the Slavonic Library.

13 September – 15 September

The Library of the Present 2022; the largest librarian conference in the Czech Republic subtitled The library and its role in society traditionally took place in the premises of Palacký University in Olomouc with the participation of experts from the NL CR.

16 September

A meeting of the coordinators of the GLAM project with Czech librarians took place at the Clementinum as part of the program of the 4th European meeting of the coordinators of GLAMwiki (GLAM – Galleries, Libraries, Archives & Museums – is an international project of the Wikimedia Foundation).

20 September

The official presentation of the Rudolf Medek Prize for 2022; the prize named after the Czech writer, soldier, legionary and long-term Director of the Resistance Monument was awarded to the historian and populariser of modern history, Jan Adamec, and the journalist and commentator, Alexei Kelin. The prize is awarded by the Slavonic Library and the Russian Traditions Association.

21 September

The Gabrielis Foundation issued a prize named for the writer Ivona Březinová to the winners of the 4th year of its literary competition for children and young people with the theme the

Secrets of School Desks; the official ceremony took place in the Mirrored Chapel at the Clementinum.

23 September

The linguistic situation in Ukraine – the historical development and the present; a debate on the linguistic situation in Ukraine from a historical perspective, the increasing stratification of Ukrainian, the situation with Russian-Ukrainian bilingualism or the correct way of transcribing place names from Ukrainian into Czech. It was organised by the Czech Association of Translators and Interpreters with cooperation from the Institute for the Study of Totalitarian Regimes, the Czech Association of Ukrainian Scholars and the Slavonic Library.

27 September

A visit by Dr Łukasz Kamiński, the new Director of the Ossoliński National Institute, to the NL CR. Discussions on the future cooperation between both institutions.

28 September

An open day at the Ministry of Culture of the Czech Republic; a presentation of the activities of the NL CR.

4 October

Library of the Year 2022; The award ceremony for the Library of the Year 2022 took place in the Mirrored Chapel at the Clementinum with the

participation of the Minister of Culture Martin Baxa. The Local Public Library in Prague-Dolní Chabry became the Library of the Year 2022 in the basic category. The National Library of the Czech Republic received the main prize in the informative deed category for its publication of How to manage a library: a handbook for new library heads/managers.

6 October

A meeting of libraries with the right to legal deposits at the CDH with the participation of the Deputy Director for Library Collections and Services, Lenka Maixnerová, the Director of the Association of Czech Book Merchants and Publishers, Marcela Turečková, the Director of Acquisitions, Michal Závíška, the Director of the Study and Research Library of the Pilsen Region, Daniel Bechný, and the representatives of other libraries in the Czech Republic. It was organised by the NL CR in cooperation with the Association of Libraries of the Czech Republic (SDRUK).

12 October

The opening of the Famine in Ukraine exhibition.

13 October – 16 October

The SIGNAL Festival of Light at the Clementinum; a presentation of digital art and art/tech culture in light installations in the Clementinum's courtyards.

14 October

The autumn book trade fair in Havlíčkův Brod; a presentation of the activities of the Communications Department at the NL CR and an introduction to the Besedník platform for connecting authors and libraries.

17 October

A visit by the Ambassador of Mexico, Leonora Rueda Gutiérrez, to the NL CR. The official opening of the “Tirsch and the others ... Czech Jesuits in Mexico” exhibition.

20 October

A presentation of the implementation of the sustainable development targets into the NL CR methodological activities at the 13th year of the EVO Conference (education and training for critical thinking).

22 October

A visit by the Minister of Transport of the Czech Republic, Martin Kupka, accompanied by the Polish Minister of Transport Andrzej Adamczyk.

24 October

The planting of trees at the Central Depository Hostivař facility with support from the ČEZ Foundation as part of the People at the NL CR internal communication campaign.

26 October – 27 October

Día de Muertos; a traditional floral altar was installed in the Clementinum Gallery and another

accompanying program took place on the occasion of the Mexican “Day of the Dead” as part of the Tirsch and the others ... Czech Jesuits in Mexico exhibition.

31 October

The signing of a contract on the following stage of the development of the portal for the Czech Digital Library; the representatives of critical library institutions in the Czech Republic (the National Library of the Czech Republic, the Moravian Library and the Library of the Czech Academy of Sciences) signed a mutual cooperation contract to secure the future of the joint project entitled the Czech Digital Library in the premises of the Czech Academy of Sciences and in the presence of the Minister of Culture, Martin Baxa, and the Chairwoman of the CAS, Eva Zažímalová.

10 November

A visit by Mrs Véronique Firkusny-Callegari, the daughter of the piano virtuoso Rudolf Firkušný (1912–1994), and the American Russian scholar, Elena Sokol.

11 November

A visit by the Consul of the Embassy of the Republic of India, His Excellency Shri Abhijit Chakraborty.

16 November

A visit by the President of the Republic of Lithuania, Gitanas Nausėda.

21 November – 23 November

A seminar on the Czech and Slovak library – jointly organised by the Slovak National Library and the NL CR 30 years after the separation of the Czech and Slovak Republics.

23 November

A visit by the Minister of Culture and the Media of the Republic of Croatia, Nina Obuljen-Korić.

23 November – 24 November

The annual meeting of the Czech national group of the IAML; the meeting of music librarians, members of the Czech national group of the IAML, took place at the National Library of the Czech Republic. Elections to the Czech national group of the IAML were held, papers were presented on the materials stored at the Music Department of the NL CR and excursions to the Archive of the National Theatre and Czech Radio were organised.

30 November – 1 December

Archives, Libraries and Museums in the Digital World 2022; the 23rd year of the online conference was organised by the Association of Library and Information Professionals of the Czech Republic, the National Library of the Czech Republic and the Czech Information Society.

1 December

A Conference on the Literature of National Minorities organised by the House of National Minorities, the National Library of the Czech Republic and the National Museum.

2 December

Upcycling: decorate the Clementinum in a Christmas style; a creative workshop with the creation of Christmas decorations from recycled materials.

8 December

The Director General of the NL CR, Tomáš Foltýn, presented Czech #librarianship and its critical activities and projects during the closing meeting of the Cultural Affairs Committee of the European Council under the #CZPRES. He pointed out, for example, the existing concept documents, the digitisation and provision of access to the book collections, the international cooperation or the activities of specialist associations. The option of presenting Czech libraries to the representatives of European countries was an excellent conclusion to the CZPRES in the area of culture.

13 December

The NL CR and the Association of Czech Book Merchants and Publishers concluded a new memorandum of cooperation during the provision of access to digitised books and magazines protected by copyright under the condition that the works are not accessible in the book market.

14 December

The Christmas fair and book bazaar at the Clementinum also offered a visit to the Mirrored Chapel or an afternoon Christmas concert.

20 December

A meeting of the Collegium of the Dean of the Faculty of Chemical Technology at the University of Chemistry and Technology at the Clementinum associated with a presentation of the activities of the Book Collection Protection Department and the establishment of cooperation.

20 December

The first guided tour for the motion impaired at the Clementinum.

Regular events held at the Clementinum**From the Treasures of Clementinum****A lecture series**

The regular cycle of the Manuscript and Early Printed Books Department's lectures that commenced in October 2019 continued in 2022 without any limitations. The lectures are usually held once a month, excluding the summer holidays. In January, the lectures were associated with the Book and the Veil. 1100 Years from the Death of Princess and Saint Ludmila exhibition. Other lectures were dedicated to documents from the Clementinum historical collections and the exhibits of the month were associated with them.

Video recordings were made of the lectures and published on YouTube, as well as being live streamed on the NL social networks.

4 January

Princess Ludmila as a baroque saint (Jiří Mikulec)

18 January

The cult of Ludmila at the Benedictine monastery of Saint George in Prague Castle (Renáta Modráková, Lenka Panušková, Jana Vozková)

1 February

The Prussian intermezzo in the cartography of Bohemia (Jan Sobotka)

11 March

The Clementinum Codex from the library of King Matthias Corvinus (Kamil Boldan)

5 April

The Krünitzsche Oeconomische Encyclopädia and the phenomenon of encyclopaedia publication in the 18th century (Lucie Heilandová)

3 May

Early printed works in the Czernin family library (Tereza Paličková)

11 October

The Jesuit Ignaz Tirsch, a missionary, architect and artist in Mexican Lower California (Pavel Štěpánek)

8 November

Czech flora in Prague's Kanálka garden (Alena Císařová Smítková)

13 December

The Clementinum's Mathematical Library as part of the Mathematical Museum (Jana Vackářová)

Exhibition activities

The Clementinum Gallery**Until 30 January**

Kniha a závoj. 1100 let od úmrtí kněžny a světice Ludmily [The Book and the Veil. 1100 Years since the Death of Duchess and Saint Ludmila]

22 April – 12 June

Kodex 1085 – rukopis zblízka [Codex 1085 – The Manuscript in Detail]. The exhibition features works of the students of the Graphic School in Prague, specialized in Conservation and Restoration program.

24 June – 31 July

... papír a olovo ...: Hudebniny vydané tiskem v Praze v 19. století ze sbírky hudebního oddělení NK ČR [... Paper and Lead... Printed music published in Prague in the 19th century]. The exhibition was prepared by the Music Department of the National Library of the CR on the occasion of the IAML Congress (The International Association of Music Libraries, Archives and Documentation Centres), organized in Prague from

24 July to 29 July, 2022 in the National Library of the CR and the Municipal Library of Prague.

18 August – 2 October

Restaurování pokladů NK ČR aneb tajemství práce restaurátora [Restoration of the Treasures of the National Library of the Czech Republic or the Secrets of the Restorer's Work]

19 October – 27 November

Ignác Tirsch a ti druzí... Čeští jezuité v Mexiku [Tirsch and the Others... Czech Jesuits in Mexico]

The Clementinum, ground floor (gate A)**Until 8 January**

Ex Oriente lux. Mezi Orientem a probuzením Českého národa: Rudolf Dvořák (1860–1920) [Ex Oriente lux. Between Orient and the Awakening of the Czech Nation: Rudolf Dvořák (1860–1920)].

Until 22 January

Sto let Ruské pomocné akce (1921–2021) [100th Anniversary of the Aid to Russians in Czechoslovakia (1921–2021)].

20 January – 19 March

Božena Němcová: Osobnost – dílo – mýtus [Božena Němcová. Her personality – Work – Myth].

2 February – 4 April

V nejhlubší úctě [Faithfully Yours]. The exhibition features book dedications.

28 March – 5 May

Budoucnost v bublinách: Výstava komiksů inspirovaných tvorbou Stanisława Lema [The Future in Bubbles. The Exhibition of Comics Inspired by Stanisław Lem's Work].

4 April – 5 May

Česko-baltské literární století [Czech and Baltic Century – Literature].

3 June – 3 September

Tajemství knih [The Secret of Books]. Presentation of results of professional research of manuscripts and printed books using special recording devices and light sources as well as X-rays.

4 August – 8 October

Doba plastová v knižní vazbě [The Plastic Age in Bookbinding]. The exhibition brings visitors closer to the issues of the care of books with synthetic elements.

12 October – 10 December

Hladomor na Ukrajině (1932–1933) [The Famine in Ukraine (1932–1933): on the ninetieth anniversary of the outbreak].

31 October – 31 December

Věda fotogenická [Photogenic Science].

Mirror Chapel

14 – 16 January

Most Precious Originals On Special Display in the Klementinum Mirror Chapel. An accompanying project to the exhibition The Book and the Veil, held in the Klementinum Gallery.

Student Yard

1 – 30 June

Kořeny osobností [Roots of Prominent Personalities]. An outdoor exhibition of photographs features a unique project of the Prague Botanical Garden.

Virtual Exhibition

Astronomical engravings of the 17th century from the collections of the National Library of the Czech Republic

Exhibit of the Month

Every month, one specimen from the rich collections hidden in the Clementinum vaults was presented in the foyer of the General Reading Room. The Manuscripts and Old Prints Department of the NL continues its more than a century-long tradition of presenting rare originals from its historical book collections, which are the most expensive of all memory institutions in the Czech Republic.

January

Bible hallská [Bible of Halle]. It is the evangelical redaction of the biblical text in Czech. NL Prague shelf mark 54 S 284, 2nd edition, 1745

February

Mauer (ca 1730–1788): Neu topograph. Karte von der umliegend-Gegend von Wien. A five-color map of Vienna and its surroundings. NL Prague shelf mark 62 B 9, Vienna, 1786

March

Thomas Aquinas, Commentarius in Aristotelis De coelo et mundo libros. Codex from the famous library of King Matthias Corvinus with commentary by Thomas Aquinas. NL Prague shelf mark VIII H 73, Florence, approx. 1485–1490

April

Johann Georg Krünitz, Oekonomische Encyclopädie. NL Prague shelf mark 17 H 763/T., 17 H 2/T. 1, Berlin, 1773–1858

May

Staré tisky v czerninské rodové knihovně [Early prints in the Czernin family library].

June

Velikaja i predivnaja nauka b[o]gom preos[vě] ščenago učitelja raimunda ljulija... Raimundus Lullus (Ramón Llull, 1232? –1315). SL shelf mark T 4310 (R 091/6)

November

Franz Willibald Schmidt, Flora Boëmica iconibus illustrata. NL Prague shelf mark 16 AA 29/2, Prague, 1793–1794

December

Jakob Leupold, Theatrum Machinarium. NL Prague shelf mark 17 B 8, Leipzig, 1725

Publication activities

I PROFESSIONAL TEXTS FROM THE AREAS OF LIBRARY SCIENCE, INFORMATION SCIENCE AND BOOK CULTURE

a) Proceedings, handbooks, studies, bibliographies and promotional material

Covidočtení: co s naším čtenářstvím udělala pandemie [Covidereading: What the Pandemic has done to our Readership] Hana Friedlaenderová, Vít Richter, Jiří Trávníček

The National Library of the CR in cooperation with the publishing house Host, Brno–Prague 2022, first edition, 83 pp., ISBN 978-80-275-1095-5 (Brno, Host), ISBN 978-80-7050-764-3 (Praha, Národní knihovna ČR)

České děti a mládež jako čtenáři v době pandemie 2021 [Czech Children and Youth as Readers in the Time of Pandemic 2021] Hana Friedlaenderová, Hana Landová, Pavlína Mazáčová, Irena Prázová, Vít Richter

The National Library of the CR in cooperation with the publishing house Host, Brno–Prague 2022, first edition, 189 pp., ISBN 978-80-275-1378-9 (Brno, Host), ISBN 978-80-7050-775-9 (Praha, Národní knihovna ČR)

Doba plastová v knižní vazbě: syntetické materiály v knihovních fondech [The Plastic the Age in Bookbinding: Synthetic Materials in the Library Collections] Petra Vávrová and coll.

The National Library of the CR, Prague 2022, first edition, 122 pp., ISBN 978-80-7050-764-3

Jak řídit knihovnu: příručka pro začínající vedoucí/ředitele knihoven [How to Manage a Library: A Beginner's Guide for Library Managers/Directors] Daniela Divínová, Lenka Dostálová, Jitka Kotisová, Šárka Pazderová, Vít Richter, Richard Ščerba a Marie Šedá

The National Library of the CR – The Librarianship Institute, Prague 2022, first edition, 155 pp., ISBN 978-80-7050-760-5 (pdf)

Kniha a závoj: 1100 let od úmrtí kněžny a světice Ludmily [The Book and the Veil: 1100 Years since the Death of Princess and Saint Ludmila] Renáta Modráková – Jan Vojtíšek and coll.

The National Library of the CR, Prague 2022, first edition, 271 pp., ISBN 978-80-7050-768-1

Knižní kultura kláštera benediktinek u sv. Jiří na Pražském hradě [Book Culture of the Benedictine Convent of St. George at Prague Castle] Renáta Modráková

The National Library of the CR, Prague 2022, first edition, 611 pp., ISBN 978-80-7050-751-3

National Library of the Czech Republic: Annual Report 2021

The National Library of the CR, Prague 2022, <https://www.en.nkp.cz/files/other/ar2021.pdf>, ISBN 978-80-7050-759-9 (online; pdf), ISSN 1804-8633

... paper and lead: Sheet Music Published in 19th Century Prague and Housed in the Collection at the Music Department of the National Library of the Czech Republic Ludmila Šmídová

The National Library of the Czech Republic, Prague 2022, first edition, 107 pp., ISBN 978-80-7050-763-6

Personalistika v knihovnách: příručka pro personální práci [Personnel Management in Libraries: A Handbook for Personnel Work] Richard Ščerba

The National Library of the CR – The Librarianship Institute, Prague 2022, first edition, 156 pp., ISBN 978-80-7050-772-8

Tajemství knih: využití zobrazovacích metod pro studium skrytých informací v knihách [The Secret of Books: Use of Imaging Techniques for the Study of Hidden Information in Bookbinding] Petra Vávrová and coll.

The National Library of the CR, Prague 2022, first edition, 99 pp., ISBN 978-80-7050-762-9

S knížkou do života (Bookstart): jak opravdu vstoupit s knížkou do života: metodická příručka pro práci knihoven s rodiči a dětmi v novorozeneckém a kojeneckém věku [How To Really Start Life with a Book. Methodical handbook for libraries to work with parents and their newborn and infant babies] Zlata Houšková and coll.

The National Library of the CR – The Librarianship Institute, Prague 2022, first edition, 56 pp., not for sale ISBN 978-80-7050-770-4 (paperback) and ISBN 978-80-7050-773-5 (pdf)

Restaurování pokladů Národní knihovny České republiky aneb tajemství práce restaurátora [Restoration of Treasures of the National Library of the Czech Republic or the Secrets of the Restorer's Work] Petra Vávrová and coll.

The National Library of the CR, Prague 2022, first edition, 145 pp. Not for sale. ISBN 978-80-7050-766-7 (paperback edition) and ISBN 978-80-7050-774-2 (pdf)

Rukopisy palácové knihovny hrabat Czerninů z Chudenic v Praze na Hradčanech dochované ve fondu pražské lobkowiczské knihovny v Národní knihovně České republiky. Svazek I., číslo 1–99 (signatura XXIII A 9–XXIII D 89) [Manuscripts of the Palace Library of Counts Czernin of Chudenice in Hradčany, Prague, Preserved in the Collections of the Lobkowicz Library in the National Library of the Czech Republic. Volume I, No. 1–99 (shelfmark XXIII A 9–XXIII D 89)] Milada Svobodová
The National Library of the CR, Prague 2022, first edition, 377 pp., ISBN 978-80-7050-769-8 (online; pdf)

Středověká knihovna Starého Města pražského [The Medieval Library of the Old Town of Prague] Michal Dragoun
The National Library of the CR, Prague 2022, first edition, 456 pp., ISBN 978-80-7050-767-4

20. výročí knihovního zákona [The 20th anniversary of the Library Act]
The National Library of the CR – The Librarianship Institute, Prague 2022, first edition, 115 pp., ISBN 978-80-7050-765-0

b) Periodicals

Knihovna [Library] Year 33, Nos. 1, 2 (2022) ISSN 1801-3252 ISSN 1802-8772 (online)

Knihovna plus [Library Plus] Year 18, Nos. 1, 2 (2022) ISSN 1801-5948 (online)
O. K. – Ohlášené knihy [O. K. – Reported Books] Year 30, Nos. 1–24 (2022) ISSN 1801-6391 (online)

Přirůstky odborné literatury ve fondu Slovanské knihovny [Acquisitions of specialised publications for the collection of the Slavonic Library] Year 32 (48), Nos. 1–4 (2022) ISSN 1802-3797 (online)

II SLAVONIC LIBRARY PUBLICATIONS

Československo-jihoslovanská liga (1921–1929) a Československo-jihoslovanská revue (1930–1939): bibliografie časopisů [Czechoslovak-South Slavic League (1921–1929) and Czechoslovak-South Slavic Review (1930–1939). A Bibliography of Journals] Edited Kateřina Kolářová
The National Library of the CR, Prague 2022, first edition, 354 pp. (Bibliografie Slovanské knihovny; 82), ISBN 978-80-7050-757-5

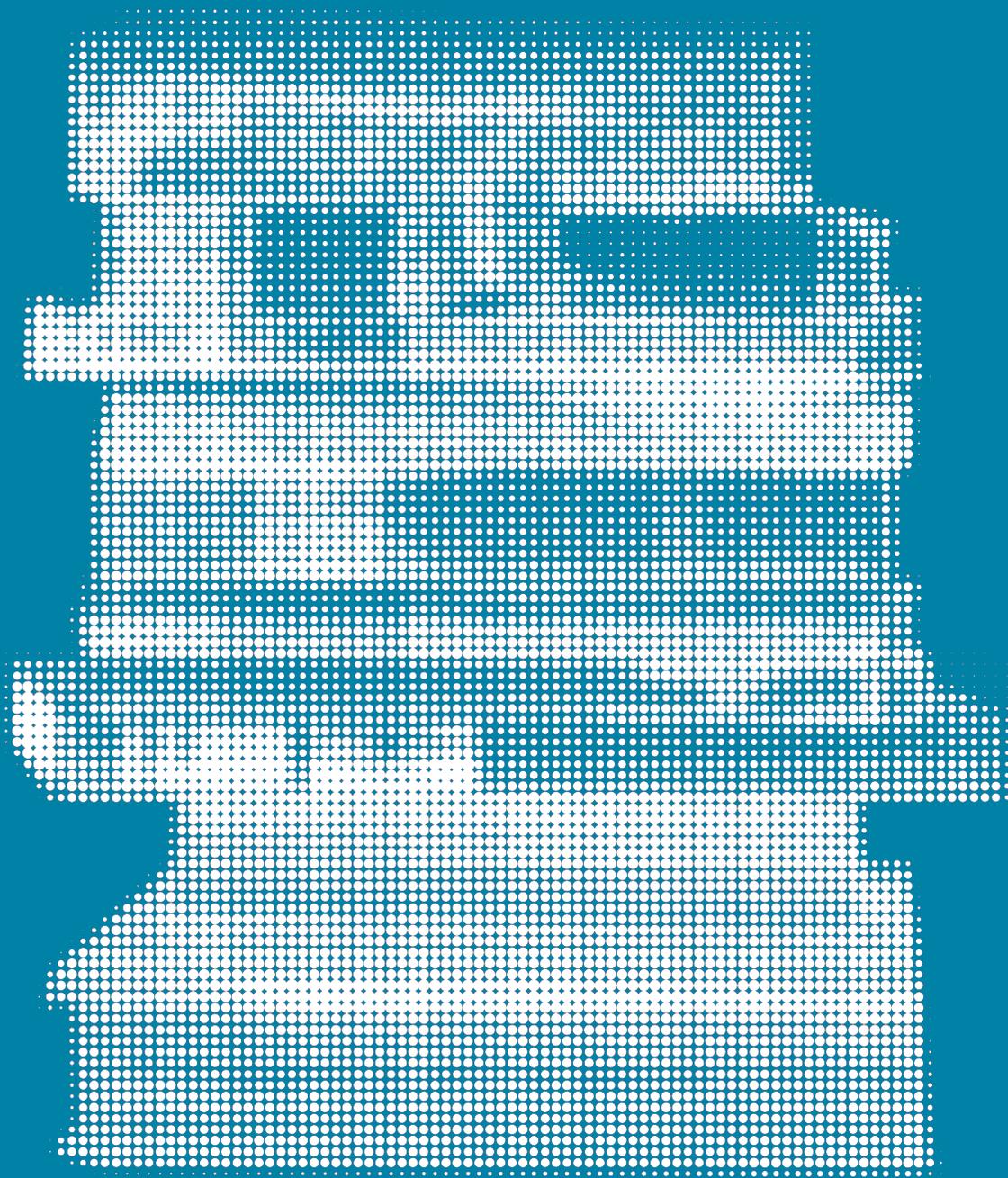
Russkaja emigracija v Praze (1918–1945): Putevoditel' = Ruská emigrace v Praze (1918–1945): průvodce [Russian Émigrés in Prague (1918–1945). A Guide] Anastasija Kopršivova, Lukaš Babka

The National Library of the CR, Prague 2022, first edition, 205 pp. (Publikace Slovanské knihovny; 87), ISBN 978-80-7050-741-4

III OTHERS

A Desk Calendar for 2023

Knižní obálky tří století [The Book Covers of the Three Centuries]

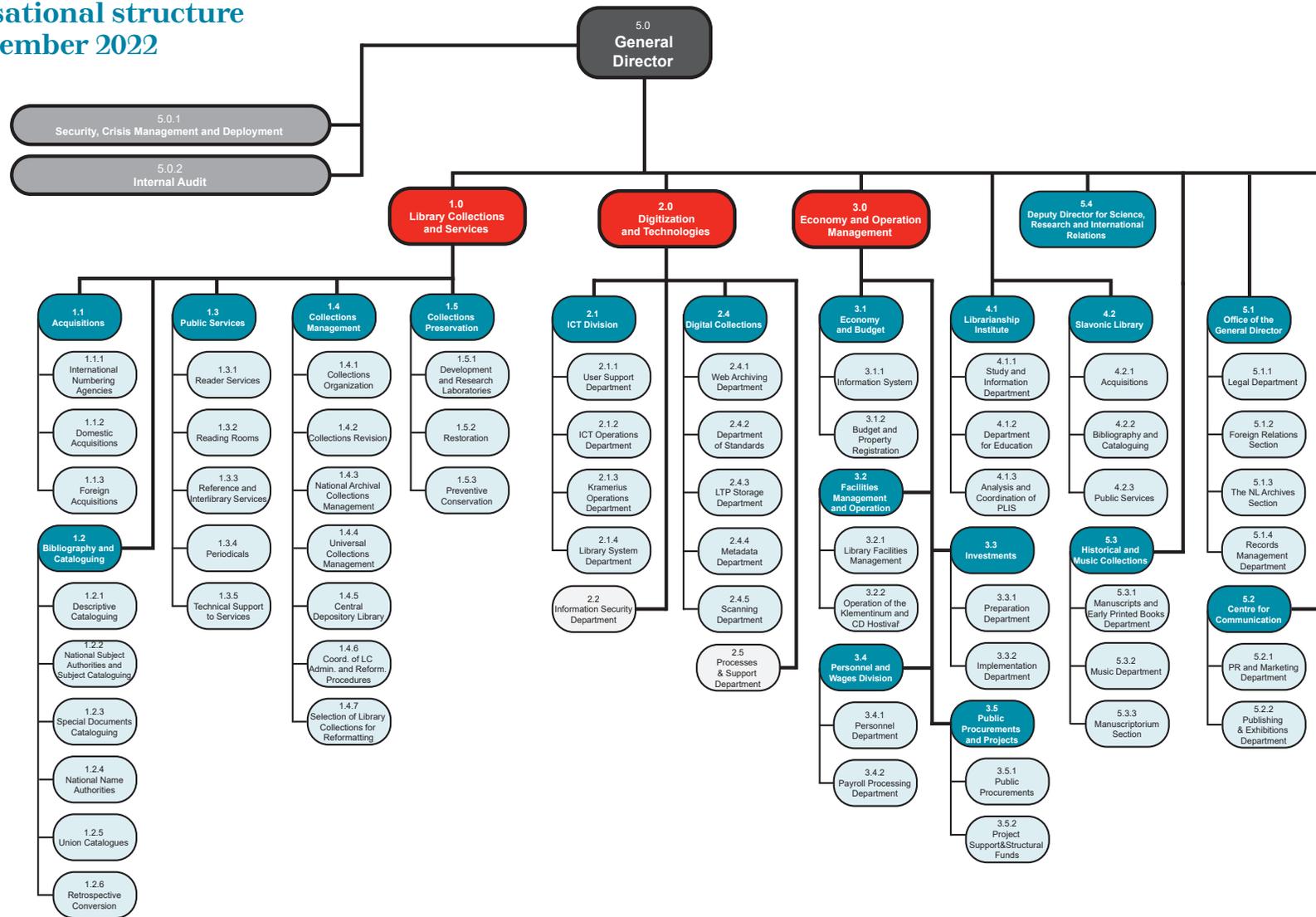


The appendices

Abbreviations

l. i.	Library item
MARC 21	Machine Readable Cataloguing
MoC	the Ministry of Culture of the Czech Republic
NDL	the National Digital Library project
NL CR	the National Library of the Czech Republic
RISM	the Répertoire International des Sources Musicales
SKIP	the Association of Library and Information Professionals of the CR

The organisational structure as of 31 December 2022



Contacts

The National Library of the CR, the Clementinum

Clementinum 190, 110 00, Prague 1
switchboard: (+420) 221 663 111
information: (+420) 221 663 331
electronic filing room: posta@nkp.cz
data case: 5qt8sy8

Office of Director General

(+420) 221 663 262, (+420) 221 663 187, sekretariat@nkp.cz

Director of the Centre for Communication

(+420) 221 663 275, martina.kosanova@nkp.cz

Director of the Library Services Department

(+420) 221 663 161, sluzby@nkp.cz

Foreign Relations Department

(+420) 221 663 468, oms.ur@nkp.cz

The Main Hall

Loan Department: (+420) 221 663 244
Information Desk: (+420) 221 663 248
Reprographic Services: (+420) 221 663 131
hala.os@nkp.cz; pujcovna.os@nkp.cz

The Reference Centre

Reference and Interlibrary Services :
(+420) 221 663 239, reference@nkp.cz
Interlibrary Loan Services:
(+420) 221 663 202, mvs@nkp.cz

The Librarianship Institute

Director: (+420) 221 663 338, vit.richter@nkp.cz
Study Room: (+420) 221 663 348, kkl@nkp.cz
Department for Education: (+420) 221 663 340,
roman.giebisch@nkp.cz

The Slavonic Library

Director: (+420) 221 663 354 (+420) 221 663 356
Loan Department: sluzby.sk@nkp.cz
<http://www.nkp.cz/slovanska-knihovna>

The National Library of the CR, Hostivař

Sodomkova 2/1146, 102 00, Prague 15
Switchboard: (+420) 221 663 377
Hostivař Study Room: (+420) 221 663 353
Collection Management: (+420) 221 663 521
Collection Preservation: (+420) 221 663 575
Acquisitions: (+420) 221 663 327
International Numbering Agencies:
(+420) 221 663 173, 221 663 306

The donation account
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