Questionnaire
Summary of the main activities of a research institute of the Slovak Academy of Sciences

Period: January 1, 2016 - December 31, 2021

1. Basic information on the institute:

1.1. Legal name and address

Institute of Archaeology SAS
Akademická 2
949 21 Nitra, Slovakia

1.2. URL of the institute web site

http://archeol.sav.sk/index.php/sk/
http://archeol.sav.sk/index.php/en/

1.3. Executive body of the institute and its composition

Directoriat	Name	Year of birth	Years in the position, from - to
Director	doc. PhDr. Matej Ruttkay, CSc.	1961	2008 -
Deputy director	PhDr. Karol Pieta, DrCs.	1941	1998 -
Deputy director	Mgr. Lucia Benediková, PhD.	1975	2016 -
Economic director	Ing. Anna Šupová	1970	2016 -
Scientific secretary	PhDr. Klaudia Daňová, PhD.	1977	2010 -

Add more rows for any changes during the evaluation period

1.4. Head of the Scientific Board

doc. PhDr. Gertrúda Březinová, CSc.

1.4.1 Composition of the International Advisory Board

Prof. Dr. Dr.h.c. Claus von Carnap-Bornheeim	Stiftung Schleswig-Holsteinische Landes-museen Schloss Gottorf, Germany
Prof. Dr.hab. Judyta Rodzinska-Nowak	Universytet Jagielloński, Kraków, Poland
doc. PhDr. Luděk Galuška, CSc.	Moravské zemské museum, Czech Republik
PhDr. Pavel Kouřil, CSc.	Archeologický ústav ČAV, v.v.i., Czech Republik

1.5. Basic information on the research personnel

1.5.1. Fulltime equivalent work capacity of all employees (FTE all), FTE of employees with university degrees engaged in research projects (FTE researchers)

2016		2017		2018		2019		2020		2021		2016-2021	
FTE all	FTE researchers	FTE all	FTE researchers	FTE all	FTE researchers	FTE all	FTE researchers	FTE all	FTE researchers	FTE all	FTE researchers	average FTE all per year	average FTE researchers per year
129,72	69,70	130,50	69,70	127,70	70,05	124,86	65,51	118,18	61,27	121,07	65,54	**125,34**	**66,96**

1.5.2. If applicable, add also a short information on the merger of the institute in the evaluation period. You can also add rows in the above table corresponding to the founding institutes

1.6. Basic information on the funding of the institute

1.6.1. Institutional salary budget, other salary budget[1], non-salary budget[2]

Salary budget	2016	2017	2018	2019	2020	2021	average
Institutional salary budget *[millions of EUR]*	1,473	1,506	1,221	1,953	2,093	2,173	**1,737**
Other salary budget *[millions of EUR]*	0,154	0,169	0,653	0,330	0,382	0,416	**0,351**
Total salary budget *[millions of EUR]*	1,627	1,675	1,874	2,283	2,475	2,589	**2,087**
Non-salary budget *[millions of EUR]*	0,443	0,404	0,416	0,646	0,414	0,507	**0,472**

1.7. Mission Statement of the Institute as presented in the Foundation Charter indicating the years when it was adopted and revised

According to its Foundation Charter, the Institute of Archaeology of SAS (hereinafter refered to as the Institute) was in the evaluated period a type of scientific organization with budget economy. The Institute was founded in 1939 and is a legal person capable of receiving rights and undertaking obligations independently. It manages assets obtained from its own activity or assigned to finance its functions and business activity. These assets are recorded in its financial and operating records. The Institute of Archaeology of SAS is the oldest and the best personally and technologically equipped institution dealing with archaeology in Slovakia. Its structure includes specialists from other fields of study necessary for effective archaeological research (geology, geophysics, zoology, botany, numismatics, anthropology, etc.).

The Institute's activities according to the Foundation Charter include:
- development of scientific research activity in the sub-group of sciences – historical sciences and archaeology, classical archaeology and museology;
- archaeological research in Slovakia and abroad according to generally valid legal regulations;
- providing doctoral studies according to generally valid legal regulations. The Institute is a training institution for education of new scientists in the field of archaeology (together with Faculty of Arts Commenius University in Bratislava and Faculty of Arts Constantine the Philosopehr University in Nitra), provides education and preparation of PhD students for the Institute itself as well as for

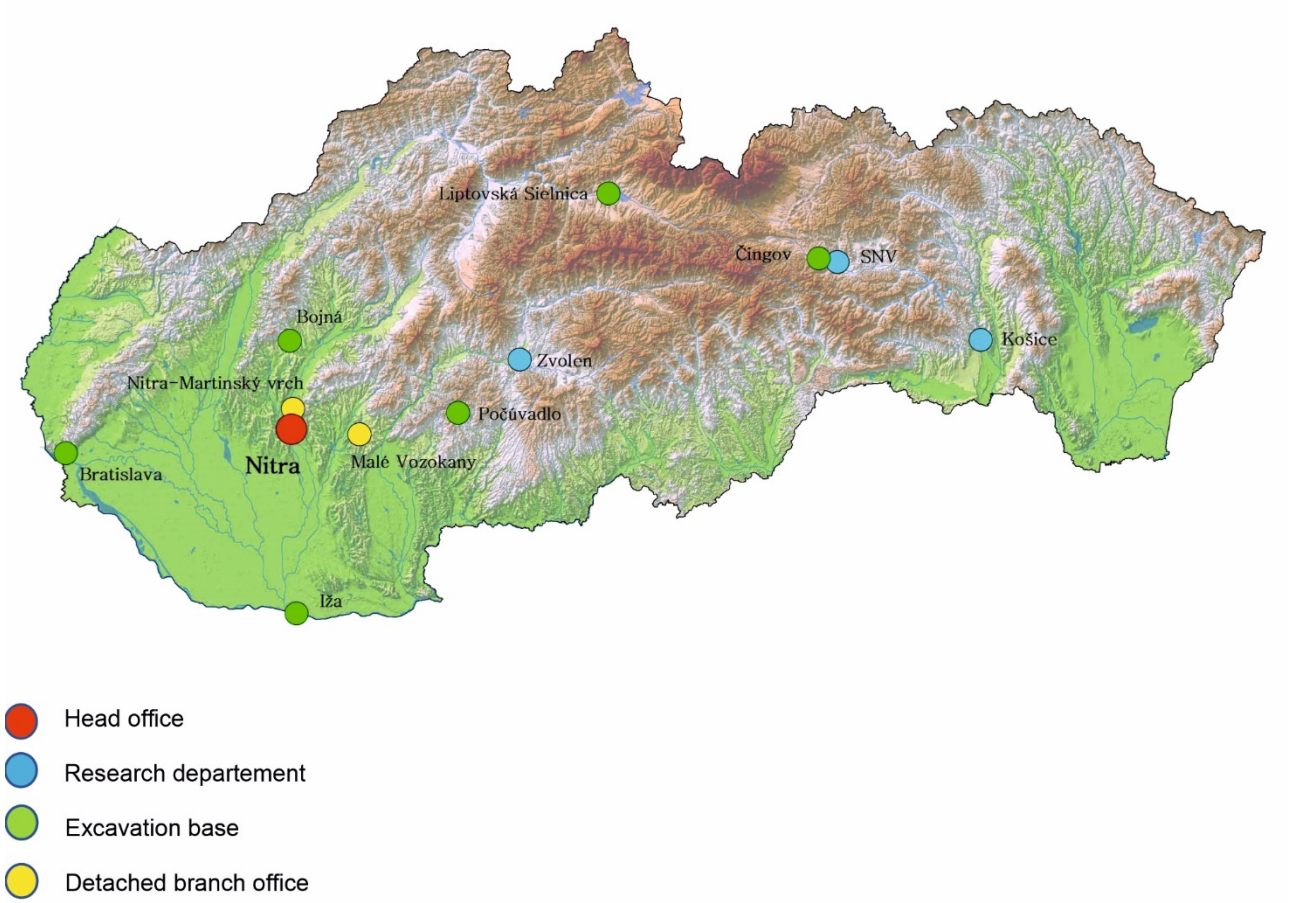
[1] Salary budget originating outside the regular budgetary resources of the organization, e.g. from the project funding.
[2] Includes Goods and Services and PhD fellowships

other organizations, provides practical terrain lessons for Slovak and foreign students of all degrees, organizes summer schools of archaeology in cooperation with foreign partners;
- providing publishing of the results of scientific research activity in periodicals and non-periodical journals ruled by resolutions of the SAS's Presidium. It edits and publishes: journals of Slovenská archeológia, Študijné zvesti AÚ SAV, the annual Archeologické výskumy a nálezy na Slovensku, Východoslovenský pravek, participates in publishing of the journal Archaeologia historica. Monograph series Archaeologica Slovaca Monographiae, Acta interdisciplinaria Archaeologica, Archeologické pamätníky Slovenska have been active for many years as well as the edition of proceedings from scientific events Communicationes, the series of VARIA and in cooperation with the National Numismatic Committee and the A. Točík´s society, the annual slovenská numizmatika, it published an edition of proceedings from scientific events;
- creating and administration of study and comparative collections documenting human activities in prehistory, early history and the Middle Ages; it manages a collection of archaeological finds from the Institute's investigations;
- presents the results of its investigation activities also in form of exhibitions and expositions in Slovakia and abroad;
- in accordance with Act no. 49/2002 Coll. on the protection of the monuments and historic sites, it manages and administers the Central register of archaeological sites in Slovakia and elaborates expert opinions and statements for self-governing regions, state administration and specialized state administration;
- in accordance with Act No. 15 Article 6 Act no. 133/2002 Coll. on the Slovak Academy of Sciences, it can conduct business activities related to its main tasks;
- it provides cosultations in the fields of archaeology, archaeometry-geophysics, paleozoology, paleoanthropology, archaeobotany,numismatics;
- organizes national and international specialized seminars and scientific conferences and congresses;
- it publishes specialist and popular-science publications;
- carries out archaeological investigations and excavation, including non-destructive surveys (aerial and surface prospecting, geophysics, etc.);
- organizes educational programmes (education, presentation of archaeological sites, exhibitions);
- elaborates studies and reviews on influences of construction activity on archaeological sites and environment.

Organizational scheme of the departments in the Institute of Archaeology of SAS:
1. Department of prehistorical archaeology (OAP);
2. Department of early historical archaeology and related natural science disciplines (OAV);
3. Department of archeology of the Middle Ages and early Modern History (OAS);
4. Department of rescue archaeology and prospecting (OZV);
5. Department of research of Eastern Slovakia (OVVS);
6. Department of scientific and technical information and restoration laboratories (VTI);
7. Technical and economic administration (THS);
8. Secretariat/permanent administrative office

The Institute resides in Nitra, Akademická 2. Besides the head office in Nitra, the Institute has the following branches:

a) Research department in Košice for works in the region of East Slovakia
b) Research departement in Spišská Nová Ves for works in North Slovakia
c) Research departement in Zvolen for works in Central Slovakia
d) Excavation bases in Bojná, Bratislava, Čingov, Iža, Liptovská Sielnica, Počúvadlo
e) Detached branch office – special facility (also depository) in Malé Vozokany; Nitra – Martinský vrch, Dobšinského street



1.8. Summary of R&D activity pursued by the institute during the evaluation period in both national and international contexts. Describe the scientific importance and societal impact of each important result/discovery. Explain on general level – the information should be understandable for a non-specialist (recommended 5 pages, max. 10 pages for larger institutes with more than 50 average FTE researchers per year as per Table 1.5.1.)

The Institute of Archaeology of the Slovak Academy of Sciences (IA SAS) is professionally the most significant scientific research centre for historical, protohistorical, medieval and early modern era archaeology in the Slovak Republic. It carries out prospecting and registration of archaeological sites, their research and theoretical evaluation by scientific methods, and publication of the results in the European cultural and historical context. At the same time, it performs the tasks prescribed by the Act 49/2002 on the protection of the monument fund – the Central registration of archaeological sites in Slovakia and the management, protection and restoration of more than 1 million archaeological finds – property of the state – in Slovakia. The realization of a relatively large number of theoretical and field scientific researches and their publication is possible mainly due to the relatively high success in obtaining research projects, whether from the VEGA agency (agency of the Ministry of Education, Science, Research and Sport and the Slovak Academy of Sciences) and APVV (Slovak Research and Development Agency).
The Institute of Archaeology is a part of the IIIrd department of the Slovak Academy of Sciences. In addition to scientists – archaeologists, it also employs researchers from other scientific disciplines (history, numismatics, geology, geophysics, gemology, anthropology, zoology, botany, museology, geodesy). At the same time, a large group of technical staff – specialists (chemical laboratory technicians, field archaeological technicians, conservators, documentarians, 3D documenters, etc.) is an integral part of the working team. This is distortingly reflected in the SAV department when converting the institution's total wage bill into researchers or their scientific productivity. Due to the scope of its activities and spatial division, the Institute is one of the two scientific workplaces of the IIIrd department of the Slovak Academy of Sciences that has its own Technical and Economic

Administration, which is a direct burden on the budget of the Institute. In the scientific work of the Institute, research on targeted topics through research teams plays a decisive role.
The scientific programme of the Institute is organised in five scientific departments, and these departments interact with each other in the context of scientific research projects. Three of them – the Department of Prehistoric Archaeology, the Department of Early Historical Archaeology and Related Natural Science Disciplines, and the Department of Medieval and Early Modern Archaeology – correspond to the three main temporal and civilizational stages of ancient development as the subject of research. The fourth, organisationally cross-cutting segment is the Department of Rescue Research and Prospecting with a specific mission and demanding – scientific and managerial – tasks, especially by in advance rescue research carried out on investment construction sites, but also in the field of non-destructive prospection and protection of archaeological sites (aerial survey, geophysical survey, etc.) and modern 3D documentation. The fifth scientific department is the Department for Research of Eastern Slovakia, based in Košice and Spišská Nová Ves, which has dedicated scientific research tasks mainly related to the regions of eastern Slovakia and adjacent territories. Several research teams work permanently or seasonally at research bases in Bratislava, Spišská Nová Ves, Počúvadl, Iža and Liptovská Sielnica.
Closely related to the scientific programme is the Department of Scientific and Technical Information and Restoration Laboratories, embracing also scientific library (94 410 volumes and 546 international exchange partners, 146 of which are regular exchanges), the documentation department – a nationwide documentary archive, the editorial department, the largest scientific archaeological depositories in Slovakia, the conservation laboratory, draughtsmen and photographers.

The breadth of contacts is best evidenced by the high number of international projects and international cooperation agreements – in the period under review, the Institute had 49 contractually anchored partnerships of various types in different countries around the world (for details on project cooperation, see chapters 2.1.5. table, 2.3.1., 2.4.1.).

IA SAS carries out both basic (A) and applied (B) types of research.

A) BASIC RESEARCH

Basic research is carried out with respect to the Institute's key topics of interest, which are addressed by several thematically focused research clusters

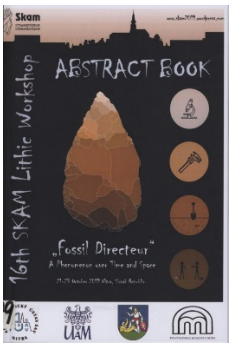
Cluster for the research of the earliest human settlements

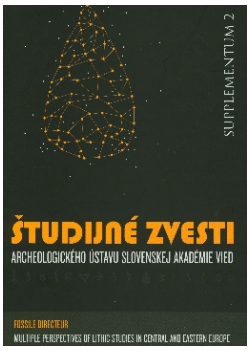
Key scientists: Ľ. Kaminská, I. Cheben, A. Nemergut, M. Soják

In the evaluated period it was possible to stabilize a larger working team for the oldest period of human history – the Early and Middle Stone Age – Paleolithic, Mesolithic. Thanks to the systematic processing of older collections, it was possible to use modern methods to evaluate older sites. New field investigations and surveys have brought new discoveries in the field of extraction of stone raw materials and far-reaching movements of Palaeolithic communities. Among the investigations, particular mention should be made of the research of the Slovak-Polish expedition in the Hučivá diera cave in the High Tatras, where it was possible to capture a settlement documenting the migration routes of prehistoric reindeer hunters from present-day Poland. Multidisciplinary and multi-institutional cooperation with geologists, pedologists, botanists and zoologists was instrumental in the acquisition of new knowledge and in the refinement of the absolute dating of several sites. Unique discoveries include the discovery of a probable Paleolithic tent dwelling structure from the Trenčianske Bohuslavice site. The effectiveness of the research team was also ensured by the acquired projects, e.g. VEGA and two national projects APVV-14-0742 and APVV-20-0521 (chapter 2.4.3, 2.4.4.), which dealt with the problems of occurrence, extraction, processing and distribution of stone in the earliest periods of human history. Members of the cluster are actively involved in the COST project: CA 19141 - INTEGRATING NEANDERTAL LEGACY:

FROM PAST TO PRESENT (iNEAL), but also in other international research activities (see chapter 2.3.1.). The new findings were presented at several international conferences, e.g. also at the SKAM conference organised by the Institute of Archaeology of the Slovak Academy of Sciences in 2018. The results are also materialized in the engaging scientific publication "Painted Stories from the Depths of Time (Maľované príbehy z hlbín času)".

Selection of book outputs:



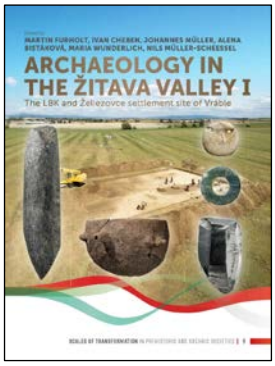


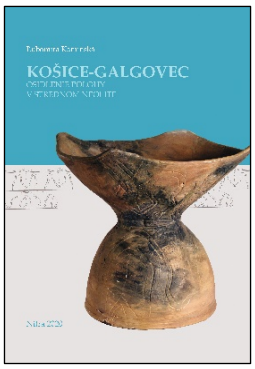
Cluster for the research of the earliest farmer and metallurgist communities

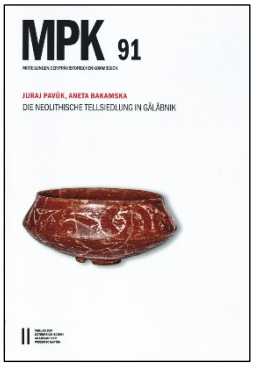
Key scientists: J. Pavúk, M. Gabulová, E. Horváthová, M. Cheben, I. Cheben, R. Malček, M. Soják

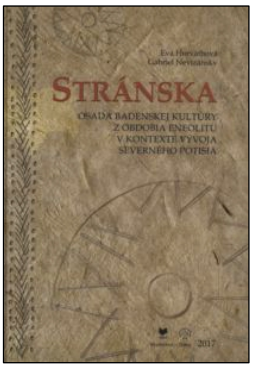
Investigations of the oldest agricultural communities of the Neolithic are traditionally associated with solving the problems of the chronology of the oldest pottery or technological procedures in the construction of buildings of settled farmers, the range of cultivated plants, bred species of animals and stone, and in the later period of history (Eneolithic) also copper raw material. It is also important to recognise the settlement strategies of these communities in relation to the characteristics of the natural environment and landscape.
The members of this research cluster were part of the research team of the projects APVV-20-0521, APVV-18-0276, APVV-14-0742 (see chapter 2.4.3), VEGA 2/0030/15, 2/0084/18 (see chapter 2.4.4). In the framework of international cooperation, we can mention the involvement in a number of international projects, which include, for example, field research of the mounds on the Polish-Slovak border in the eastern part of Slovakia (see chapter 2.3.1.).

Selection of book outputs:







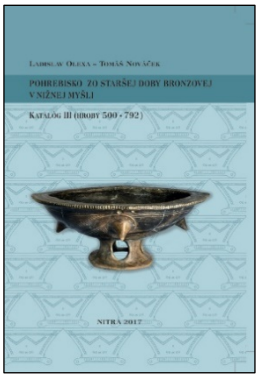


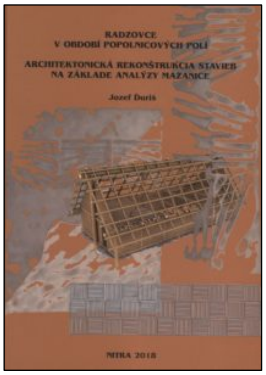
Cluster for the research of the Bronze Age

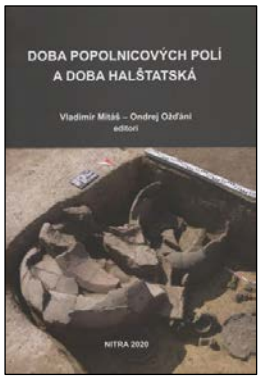
Key scientists: J. Bátora, P. Bobek, D. Oravkinová, K. Daňová, A. Kozubová, R. Kujovský V. Mitáš, L. Olexa, O. Ožďáni

The aim of the scientific team is to advance knowledge in the area of the distribution of individual cultures, contacts with the surrounding cultural environment and to gain an understanding of the raw material resources of their extraction and distribution. Emphasis is also placed on the relationship between landscape and man. Significant progress has been made in the research of fortified settlements, where it has been possible to capture the system of street building on the site of Vráble-Fidvár. Since 2018, extensive research has also been carried out on burial sites from the Early Bronze Age (Spišská Nová Ves, Nitra-Dolné Krškany). Thanks to new methodological approaches, we can more closely examine the burial ritual, which is a reflection of the socio-economic relations of communities.
A team of experts is working on several scientific projects that address the issue of the Bronze Age settlement of Slovakia APVV-16-0441, APVV-18-0276, VEGA 1/0411/16, 2/0091/16, 1/0100/19, 2/0139/21; see chapters 2.4.3. and 2.4.4.). Research on fortified settlements is the result of long-term cooperation with Germany on the basis of the project “Fidvár by Vráble – A Settlement at the Crossroads of the Early European Metallurgical Provinces” (see chapter 2.3.1). In 2021, the Institute of Archaeology of the Slovak Academy of Sciences joined the project „GEOarchaeology of DAily Practices: extracting Bronze Age liveways from the domestic stratigraphic record“ – 101001839 (Horizon 2020, see chapter 2.3.1.).

Selection of book outputs:







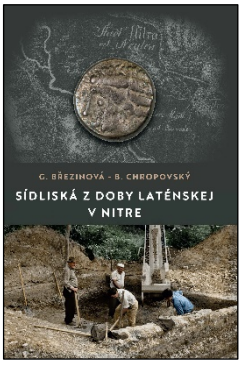
Cluster for the research of the Iron Ages and early historical period

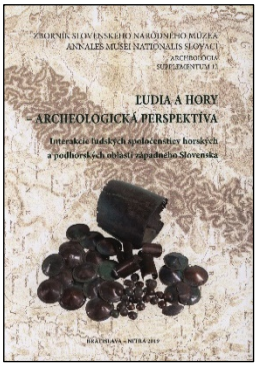
Key scientists: K. Pieta, L. Benediková, G. Březinová, B. Kovár, L. Luštíková, E. Miroššayová J. Rajtár, S. Stegmann-Rajtár

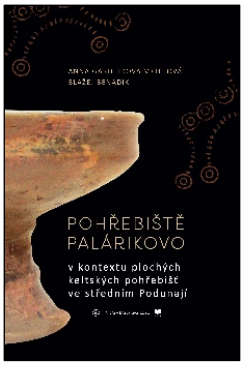
A multidisciplinary and stable team of experts, whose scientific interest is focused on solving questions related to the settlement of Slovakia in the Iron Age and the Roman period in the context of the settlement in the Middlel Danube region. It focuses on the relationships of settlements as well as the relationships of their inhabitants with the surrounding landscape, especially with regard to the acquisition of sources of subsistence and raw materials and absolute dating of the sites and events. It is based on the knowledge and discoveries of the power centres of the Hallstatt, Late Iron Age and Roman periods, as well as the unique discovery of a princely tomb in Poprad-Matejovce. Several grant schemes between 2016 and 2021 were directly aimed at research, presentation and publication of the above results (APVV-14-0842, APVV-15-049; VEGA 2/0121/15, 2/0150/15, 1/0243/17, 1/0399/18, 1/0358/18, 2/0001/18, Seal of Excellence/2019/692/BELT 2019-2022; see chapters 2.4.3., 2.4.4., 2.4.6. for more details).
In the period under review, the research team was the main organizer of major international conferences: the KELTI 2016, 28th Internationales Symposion Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum; KELTI 2019; 31st Internationales Symposion Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum.

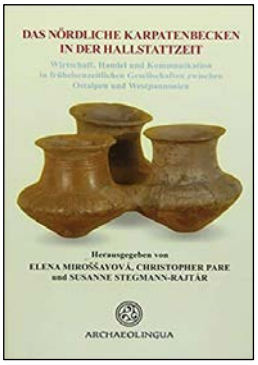
The members of the research cluster carried out a number of field investigations, e.g. the ritual site in Slatina nad Bebravou, Roman-era marching camps in SW Slovakia (see chapter 2.6.1.), Iron Age highland sites in the Liptovská basin, Považie, Upper Ponitrie and in Turiec, Roman period production sites in Kráľova Lehota, etc.
The outputs of the activities of this research cluster include several scientific monographs and proceedings, as well as a number of scientific papers in journals.

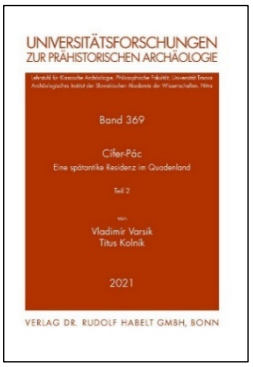
Selection of book outputs:

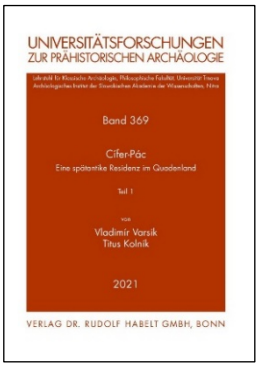


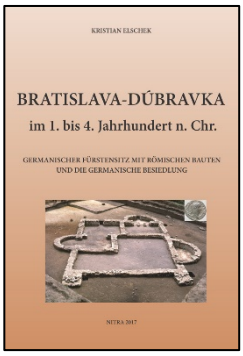


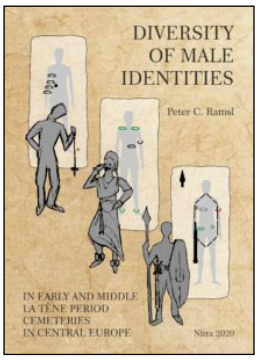


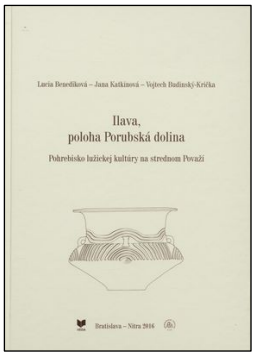










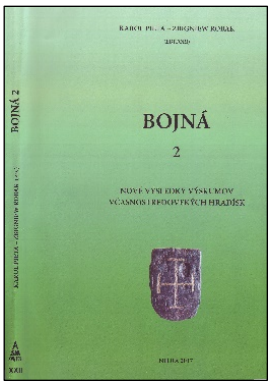


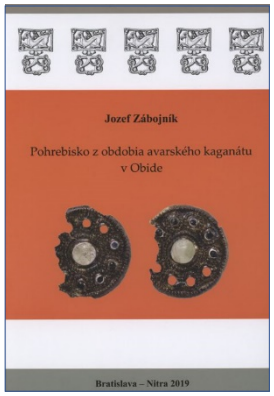
- **Cluster for the reasearch of the early medieval power centres**
  Key scientists: M. Ruttkay, K. Pieta, P. Bednár, M. Jakubčinová, T. Vangľová, G. Fusek, M. Hanuliak, M. Holeščák, Zb. Robak, P. Prohászka, P. Šalkovský, J. Zábojník

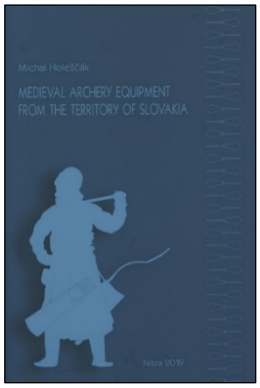
The research team focused not only on the processing of older, generally unpublished field research, but also on new thematic field research and systematic surveys of early medieval power centres and their hinterland. Extensive sets of radiocarbon and dendrochronological data confirmed a new paradigm fundamentally changing the historical view of fortification of fortified settlements in Slovakia – it turned out that the decisive construction activities were much later than previously assumed, i.e. as late as the end of the 9th century. This also changed the historical interpretation of the development of Great Moravian society. It also confirmed that in the previous period power centres did not have to be fortified. Subsequently, similar observations were

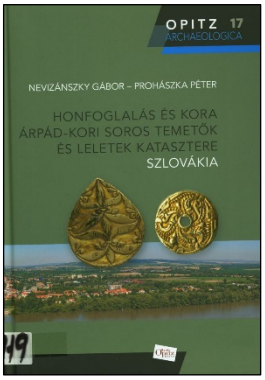
confirmed in Austria, Hungary and Moravia. The next stage of the building of fortified centres in the first half of the 11th century has also been unequivocally documented.
The team's work also includes field research and surveys, constantly discovering new significant sites (fortifications, settlements, mining complexes, burial sites) illustrating the picture of life in early medieval society. Multidisciplinary research and the publication of results in scientific and popular science publications and studies on both material culture and the economy and society of the Middle Ages are a matter of course. At the same time, the health of the population of the time, diet, the impact of man on the landscape, etc. are reconstructed. The team has been successful in obtaining APVV-14-0842, APVV-19-0563 and VEGA 2/0121/15, 2/0075/16, 2/0175/16, 2/0084/18, 2/0088/20, 2/0124/20, 2/0159/21 projects (see chapter 2.4.3. and 2.4.4.) as well as larger projects: 2 COST projects, participation in the ERC project Histogenes, collaboration with the DNA laboratory of Uni. Vienna, partnership in the Interrreg project Virtualarch, etc. (see chapter 2.3.1.). Part of the research on the Early Medieval period is the processing of materials from earlier excavations of large burial sites from the Avar Khaganate period (8th–9th centuries). In the evaluated period 3 sites were monographically published.
The excavations of this research cluster had a huge response in mass media. Several researches became part of feature-length documentary films (Bojná, Svätopluk, etc.).

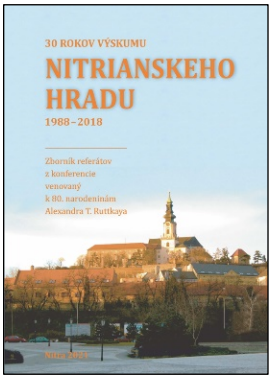
Selection of book outputs:

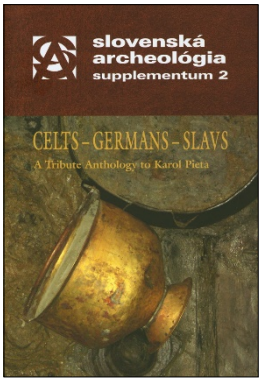












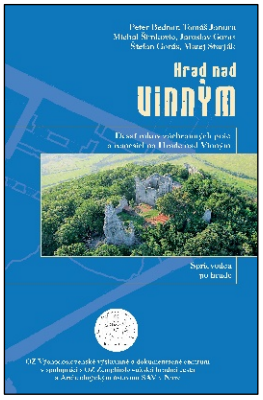
Cluster for the research of the Middle Ages

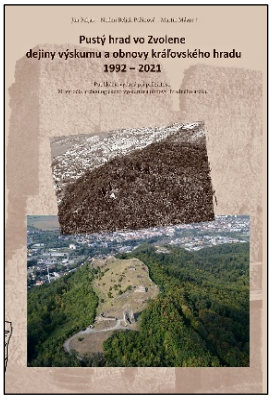
Key scientists: P. Bednár, J. Beljak, M. Bielich, E. Fottová, Z. Poláková, P. Prohászka

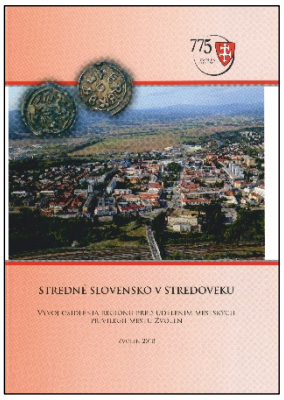
The necessity of restoring the extensive fund of medieval castles in Slovakia required the establishment of a specialized interdisciplinary and inter-institutional scientific team, which gradually implements short-term and long-term research projects at more than 20 castles (e.g. Nitra, Bratislava, Plavecké Podhradie, Šášov, Čabraď. Kamenica, Hrušov, Gýmeš, Revište, Sklené Teplice, Muráň, Fiľakovo, Divín, Markušovce, Vinné, Žarnovica, Lietava, Slanec) in Slovakia. It is a research activity, which is carried out in close cooperation with municipalities, towns and NGOs, as

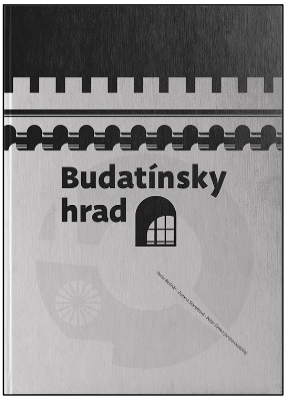
well as with organizations focused on tourism development. The knowledge gained has fundamentally changed the existing knowledge about the development, appearance and especially the function of castles and their hinterland in the medieval settlement structure (see chapter 2.4.6., 2.6.1., 2.7.1.). These investigations and publications have also had a great resonance with the general public, who have become involved in the process through the volunteer work of archaeology enthusiasts, seniors but also, for example, scouts. Several of the excavations were operated as summer schools of archaeology for students from Slovakia and abroad.
A large number of monographs **(a book on Budatín Castle was awarded the Prize for Scientific and Review Literature in the category – Social Sciences from the Literary Fund)** and dozens of studies have been published at home and abroad. The research was funded thanks to several APVV projects – APVV 16-0449 APVV 17-0441, APVV 19-0563 and VEGA projects No. 2/0156/14, 2/0144/14, 2/0195/14, 1/0280/14, 2/0170/15, 1/0095/17, 2/0143/18, 1/0608/21, 2/0083/21, 2/0143/18, 2/0037/17 (see chapter 2.4.3. and 2.4.4.).

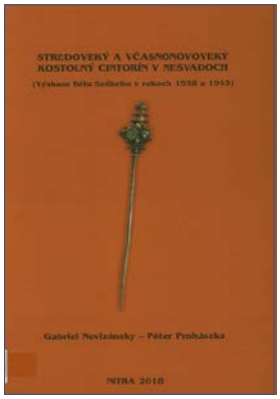
Selection of book outputs:









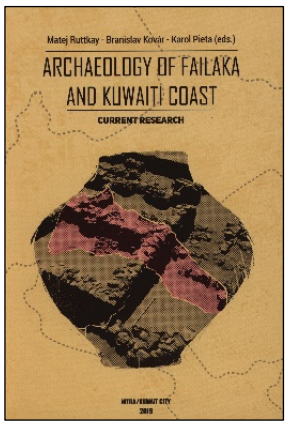


- **Cluster for the research outside Europe (Kuwait and Sudan)**
  Key scientists: K. Pieta, M. Ruttkay, K. Daňová, B. Kovár, Z. Robak

Research activities in the Middle East and North Africa represent the involvement of the IA SAS in international research networks active in this cultural and geographic region.

Kuwaiti-Slovak Archaeological Mission
In the period under review, the IA SAS renewed its cooperation with the National Council for Culture, Arts and Letters, State of Kuwait, on research on the island of Failaka (see chapter 2.3.1., 2.6.1.). Three research seasons were conducted. The subject of the research is the extensive 7th–8th century settlement of Al-Qusur, consisting of more than 140 settlement units used for housing, crafts, animal husbandry and recreation. These were the remains of the activities of the Christian Nestorian community in the pre-Islamic and early Islamic periods in the area. The research has produced evidence of a large building complex, literally a palace-like structure with a huge volume of finds, especially pottery and glass, which is exceptional in the wider area. The assemblage of

other finds (pottery, metal objects, semi-precious stones) is also unique, both in volume and composition. The reconstruction, conservation and documentation of the finds is an obvious part of the mission's work. The completion of the next stage of the excavation and detailed three-space documentation of the field is a huge contribution.
The expedition's research work also includes the progressive processing of a large finds assemblage from the Bronze Age site of Al-Khidr, which was investigated during the first phase of the KSAM in 2004–2009.
A Slovak Research Day in Kuwait was also regularly organised at Failaka in cooperation with the Slovak Embassy, which was of great interest to the public.
The results were published in the form of studies in prestigious journals abroad and one book summarizing the results of the research so far was published. Currently, Bahrain has expressed interest in our research team.



Slovak research in the Sudanese site Duweym Wad Haj

Research from 2018 to 2022 in the cooperation of the Slovak (IA SAS, Institute of Oriental Studies SAS) and Sudanese Institutions supported with APVV-17-0579 (see chapter 2.4.3.).
The Duweym Wad Haj site is located on the left bank of the Nile River opposite the UNESCO site of Gebel Barkal, the southern residence of the Ancient Egyptian god Amun. Based on surveys, an ancient temple is expected to be discovered under the old mosque at the Duweym site. The occurrence of temples on the left bank of the Nile River proves also the Sanam site. The project is based on an interdisciplinary cooperation between humanities and natural sciences and on modern excavation and documentation methods. An emphasis is also placed on conservation of cultural heritage. The project consists of three main parts: archaeological interdisciplinary research in the Sudan, scientific research in Slovakia, and popularization. The main objectives of the project include gaining new knowledge of the site through basic research, confirming the presence of the temple architecture, the 3D documenting of architecture, and exploring the construction and settlement history in the context of sacral architecture in space and the surroundings.
Outputs: Scientific outputs were published as journal and proceedings articles. From popularization outpust the series of 8 documentary movies can mentioned (one of the parts here: https://www.rtvs.sk/televizia/archiv/18253/300110; see also chapter 2.6.1.).

Archaeometric research cluster

Key scientists: Z. Bielichová, M. Krošláková, Z. Hukeľová, J. Jakab, M. Cheben, I. Murín

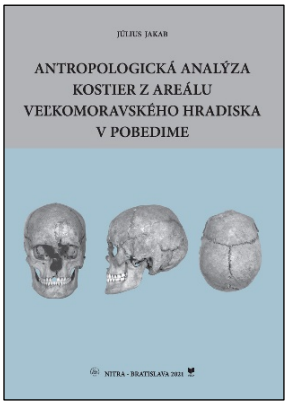
The Institute of Archaeology of the Slovak Academy of Sciences employs experts from several natural science disciplines who contribute significantly to the success of the Institute.
They are an integral part of archaeological research from its field research part through laboratory analysis to interpretation and evaluation of results.
During the period under review, our collaborators – anthropologists, archaeozoologists, geophysicists, numismatists, archaeobotanists, geodesists, LIDAR data analysts, etc. – have been involved in archaeological projects which seek and result in obtaining a comprehensive picture of the life of human societies in the past. As modern archaeological science puts high demands on the quality of the experts as well as on the narrow specialization of natural scientists within their disciplines, the Institute cannot possibly employ the full range of scientists needed. Nevertheless, or precisely for this reason, we cooperate closely with colleagues from other institutions on joint projects (VEGA, APVV), or we use the know-how of experts from foreign institutions within the framework of bilateral international cooperation agreements as well as large EU project schemes (see 2.3.1. and 2.6.1.)
The results are presented in the form of scientific articles in journals and magazines at home and abroad, or are part of monographic treatments of other partial topics

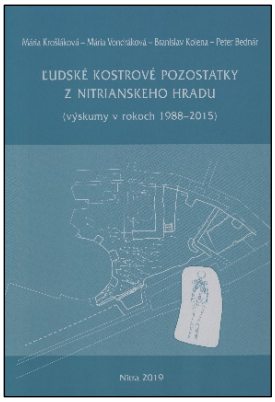
Selected areas of interdisciplinary research at the Academy of Sciences of the Slovak Academy of Sciences

Archaeozoology

Research has recently focused on the animal economy and food habits of the first historical ethnics settled on the territory of Slovakia (Celts, Germans and Romans) and the settlements of the medieval and modern elite (castles and monasteries). These were activities e.g. within the projects APVV-15-0491, APVV-16-0449, VEGA 1/0243/17, 2/0001/18 (see chapters 2.4.3. and 2.4.4.). Interesting findings in terms of archaeozoology were brought by the research of finds from the important historical monument Zobor Monastery near Nitra (see chapter 2.6.1.). The international conference Archaeologia Historica was devoted to the issue of food (see chapter 2.3.2.).

Anthopology





After decades when analysis of human remains from Slovakia was focused only on measurements and basic demographic evaluation without any further interpretation, the anthropology research at the Institute of Archaeology of the Slovak Academy of Sciences is starting to catch up with the worldwide trends. By finally acknowledging human remains as valid and important archaeological artifacts, the anthropologists at the Institute examine local populations not only macroscopically, but they also try to gain additional information from the skeletons via cooperation with local and foreign laboratories (aDNA analysis, X-raying, histological analysis, …). At the IA SAS, we were able to gain funding for the first bioarchaeological grant VEGA 2/0145/20, anthropological research is also part of other grant projects e.g. VEGA 2/124/20, APVV-19-0563 (see chapters 2.4.3., 2.4.4.).

Archaeobotany

Like archaeozoology, archaeobotany contributes to the knowledge of subsistence strategies and economies of past populations. Research in the evaluated period focused both on the processing of older or recently acquired archaeobotanical assemblages, and on the development of research strategies to address the questions of the relationship between humans and their environment or climate change in the past and its impact on the development of human societies (e.g. project in cooperation with the University of Konštatntín Philosopher VEGA 1/0399/18 and APVV-20-004 (see chapters 2.4.3., 2.4.4.).

Geophysics

Another discipline fwithin interdisciplinary research is geophysics, where we have been extremely successful in locating and documenting sites in a non-destructive manner, using a variety of geophysical measurement methodologies. This method of research has a number of advantages, especially in the prevention and protection of cultural heritage, and is an essential part of field archaeological research. On the basis of the established extent of the site, the plan of an archaeological research can be planned more precisely. These were activities e.g. within the projects APVV-20-0563, VEGA 2/0101/19, 2/0075/21, 2/0100/19 (see chapters 2.4.3., 2.4.4.).

Underwater archaeology research cluster

Key scientist: K. Daňová

Slovakia is one of the countries that protect cultural heritage even underwater. Inland countries do not have a tradition of underwater research. However, the proliferation of discoveries from rivers has triggered the need to protect monuments also underwater. For this reason, a team of staff with diving licenses was created in 2017 and trained at the University of Zadar. The underwater research in Slovakia is carried out in a cooperation between the Institute of Archaeology SAS and the University of Trnava. The obtained VEGA 2/0146/18 (see chapter 2.4.4.) was a stepping stone to the first important discoveries. In the river Váh several modern bridges were investigated, in the

river Nitra a prehistoric settlement was investigated. The biggest discovery, however, is a bridge probably dating back to the Roman era, which was discovered by sonar. It is a find of European importance. The bridge connected the province of Pannonia with Barbaricum. A team of underwater archaeologists regularly participates in researches abroad, e.g. Slovenia (Roman harbour in Portorož-Fizine, Zavod za podvodno Arheologijo), Croatia – research of a 16th century shipwreck at Gnalić (University of Zadar).
The results of the activities so far are presented in the form of scientific articles in journals and proceedings.

B) APPLIED RESEARCH – addressing issues of social praxis

- **Management of the archaeological heritage**

The Institute of Archaeology of the Slovak Academy of Sciences is associated not only with the research of cultural heritage, but also with its protection, documentation and presentation. The first part – basic rescue field research responding to the needs of social practice, anchored in legislation – is carried out by the Department of Rescue Archaeology and Prospecting.

Documentation and presentation is mainly dealt with under the Department of Scientific and Technical Information and Restoration Laboratories (see chap. 2.1.5., 2.6.1., 2.8.3.). This task has been also anchored in legislation. On the basis of Act 49/2002, the Institute keeps in physical form archaeological documentation from all archaeological field activities in Slovakia, i.e. from all institutions authorised to carry out this research – CEANS (Central Register of Archaeological Sites in Slovakia). At the same time, it manages an archive of negatives and slides from excavations and finds, as well as two information systems (ISAU for sites and Museion for finds).

The application of modern non-destructive research methods and the provision of high-quality instrumentation and personnel for these activities contribute to greater protection and knowledge, or more targeted research. IA SAS is the best equipped highly specialised workplace (all infrastructure acquired from projects) in Slovakia, which has a number of technological innovations at its disposal. Institute was the first in Slovakia to start airborne laser scanning (LIDAR) of selected parts of Slovakia in cooperation with National Forest Centre in Zvolen. The findings resulting from these data are verified in the field. Regular aerial surveys continue to be carried out (see chapter 2.8.3.).

- **The contribution of archaeology to solving current societal problems**

In accordance with its long-term programme, the Institute of Archaeology is dedicated to researching the fate of civilisations, population movements, conflicts or epidemics, collapses, transformations or climate change – processes that often happened without the apparent intention of the populations or their elites at the time, but were sometimes deliberate activities.
As recent years have shown, archaeology can also be a strategic science from this
perspective. In fact, by investigating the above processes, it contributes to understanding how past human societies have coped with crises of various origins, how they have responded to them, and whether and in what form they have survived them. At the same time, such research provides answers to the questions to what extent crises can be prevented and, if they have already occurred, how a given community can cope with them in a way that has the least negative impact on its future existence.
All these questions are addressed in the book monographs “Collapse through the Eyes of Archaeology” (2019), “The Power of Extinction: Collapses of Ancient and Medieval Societies” (2020) and “Epidemics in History” (2020). **Epidemics in History was published just in time for the onset of the COVID-19 epidemic and for a few months became one of the top three best-selling publications on the Slovak market. The book on collapses was included among the significant results in the annual report of the Academy of Sciences in 2019**.
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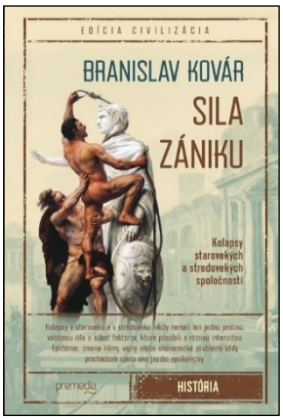
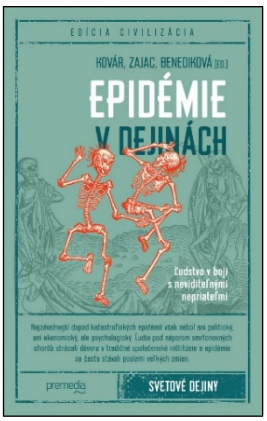
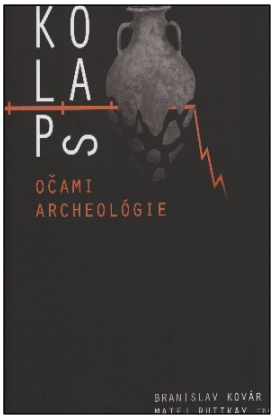
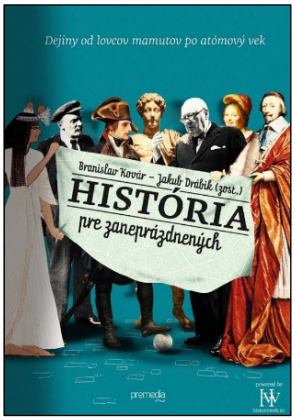








Presentation of cultural heritage

3D archaeology at the service of the public

Until recently, archaeological monuments were published exclusively in 2D and on paper. However, modern technologies make it possible to grasp artefacts or immovable monuments (buildings, tombs, fortifications, etc.) also in a viral 3D form. This provides the professional and lay public with a tool to better understand the function of solid artefacts or immovable monuments.
The IA SAS is not lagging behind this trend of modern presentation of archaeological cultural heritage. In the evaluation period, thanks to our infrastructure and specialists in 3D modelling and visualisation, we became part of the project team of the Interreg project (see chapter 2.1.5, 2.3.1.) http://archeol.sav.sk/index.php/en/virtual-arch/

Archaeoparks

The IA SAS became in the 1990s the founder of the first archaeopark in Slovakia (Liptovská Mara-Havránok).
In this area of applied research, which is closely related to the archaeological subdiscipline of experimental archaeology, the Institute was also involved in the period under evaluation. It participated in the establishment, construction and maintenance of several archaeoparks in Slovakia, both on his own and in cooperation with regional governments (see more in the chapters 2.1.5., 2.3.5., 2.7.1.).

Exhibitions

The preparation and organisation of exhibitions is also part of applied research. In addition to the "excavation" of movable and immovable monuments, their scientific processing and publication, the exhibitions must also be preceded by the professional conservation and restoration of monuments. Without this, artefacts cannot be presented (or only in exceptional cases), just as without conservation and restoration, unconserved immovable monuments, often presented in situ at the site of their discovery, would soon succumb to destruction. The team of restorers and conservators is also part of the working team at the IA SAS (see chapter 1.7.). In the period under review, the IA SAS was involved in the preparation of several major exhibition projects with an international impact, but also prepared countless smaller exhibitions for municipalities, church administrations or small museums, totalling 54 completed (see chapters 2.1.5., 2.7.1.)

Year	Number of exhibitions
2016	11
2017	8
2018	8
2019	16
2020	7
2021	4

2. Partial indicators of main activities:

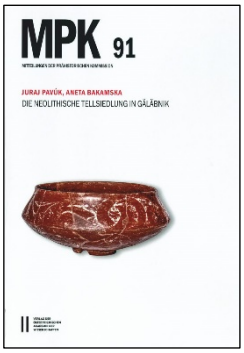
2.1. Research output

2.1.1. Principal types of research output of the institute: basic research/applied research, international/regional (in percentage)

Basic research/applied research
70% / 30%

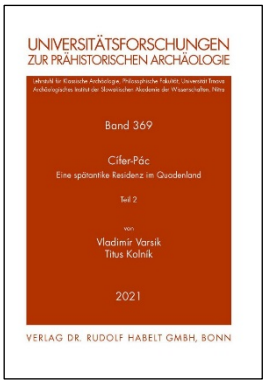
International/regional
30% / 70%

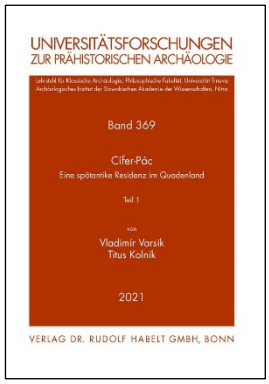
2.1.2 List of selected publications documenting the most important results of basic research. The total number of publications should not exceed the number of average FTE researchers per year. The principal research outputs (max. 10% of the total number of selected publications, including Digital Object Identifier – DOI if available) should be underlined. Authors from the evaluated organizations should be underlined.



1. PAVÚK, Juraj - BAKAMSKA, Aneta. *Die neolithische Tellsiedlung in Galabnik*. 1. vydanie. Wien: Österreichischen Akademie der Wissenschaften, 2021. 435 s. Mitteilungen der Prähistorischen Kommission, Band 91. ISBN 978-3-7001-8557-4.

The book is the result of many years of cooperation between Bulgarian and Slovak archaeologists. The Tell site is of great importance for the chronological classification of the Early Neolithic. Galabnik and other localities from the Struma River valley played an important role in the Neolithisation of Europe. Although a number of investigations have been made in the past but Galabnik is the only site that has been comprehensively published.





2. VARSIK, Vladimír - KOLNÍK, Titus - ŠTOLCOVÁ, Tereza - MINAROVIECH- RATIMORSKÁ, Jana. *Cífer-Pác: Eine spätantike Residenz im Quadenland*. Teil 1, Teil 2. Bonn: Verlag Dr. Rudolf Habelt ; Trnava: Lehrstuhl für Klassische Archäologie, Universität Trnava ; Nitra: Archäologisches Institut der Slowakischen Akademie der Wissenschaften, 2021.420 s. Universitätsforschungen zur prähistorischen Archäologie, Band 369. ISBN 978-3-7749-4335-3.

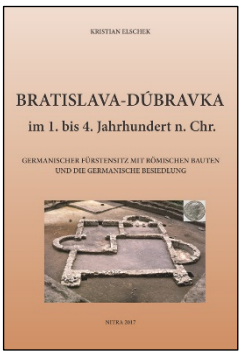
On the outskirts of an older and contemporary Germanic (Quadi) settlement, a fortified noble residence with an adjacent craft district was established in Cífer-Pac in the 4th century. A Roman building department was involved in its construction in the relatively peaceful period of late antiquity. The site reflects the extraordinary intensity of Roman-Germanic relations and changes the view of the socio-economic development and changes in the Quadi society in the last stage of its development in the Central Danube area.

3. BÁTORA, Jozef. *Slovensko v staršej dobe bronzovej* = Slovakia in the Early Bronze Age. Jozef Vladár, Egon Wiedermann (recenzenti). 1. vyd. Bratislava: Univerzita Komenského: Katedra archeológie ; Nitra: Archeologický ústav SAV, 2018. 446 s. ISBN 978-80-223-4605-4.

It is an extensive treatment of the problems of the older Bronze Age in Slovakia. The book maps in great detail the individual cultures, their extent, material culture and captures the life of the society of the time. Many years of research have yielded a wealth of new knowledge about the burial rite, demography of populations, settlement and production areas, as well as the way raw materials were obtained in the Early Bronze Age.

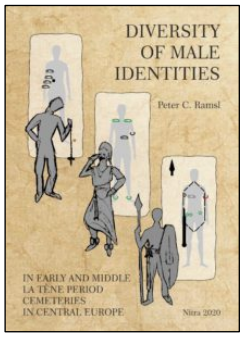
4. BŘEZINOVÁ, Gertrúda. *Šperk zo skla a sapropelitu u Keltov na Slovensku* = Glass and sapropelite jewels of the Celts in Slovakia. Jozef Bujna, Karol Pieta (recenzenti). 1. vyd. Nitra: Archeologický ústav SAV, 2018. 154 s. Archaeologica Slovaca Monographiae: Studia, Tomus XXX. ISBN 978-80-9196-018-5.

Monographic processing of jewellery made of glassand sapropelite from the Early Iron Age in Slovakia belongs to a series of similarly thematized works in our Central European neighbours. It offers a picture of the historical environment of the Latin in Slovakia from the perspective of glass and sapropelite as materials for the production of artefacts and historical glassmaking technologies and procedures of sapropelite processing. It also presents the way of using objects made of these materials as well as their chronological breakdown.



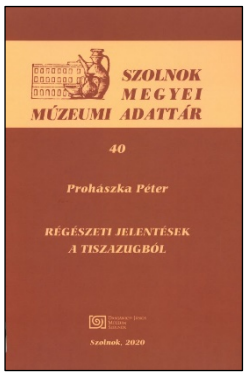
5. ELSCHEK, Kristian. *Bratislava-Dúbravka im 1. bis 4. Jahrhunderts n. Chr.: Germanischer Fürstensitz mit römischen Bauten und die germainische Besiedlung*. Recenzenti Eduard Droberjar, Vladimír Varsik. 1. vyd. Nitra: Archeologický ústav SAV, 2017. 396 s. Archaeologica Slovaca Monographiae: Studia, Tomus XXIX. ISBN 978-80-8196-010-9.

This is the first comprehensively edited book devoted to Roman architectural remains in the northern part of the central Danube region. Bratislava-Dúbravka is a Germanic princely residence with Roman buildings - Roman baths. For this reason, it represents an important work for the knowledge of Roman-Barbarian relations in the territory north of the Danube.



6. RAMSL, Peter Christoph. *Diversity of Male Identities in Early and Middle La Tène Period Cemeteries in Central Europe*. Reviewers Marko Dizdar, Mariana Egri, Károly Tankó. 1. vyd. Nitra: Archeologický ústav SAV, 2020. 192 s. Archaeologica Slovaca Monographiae: Studia, Tomus XXXII. ISBN 978-80-8196-040-6.

A monograph presenting the results of the SASPRO project (carried out by the author) on specific examples of male graves from Latenian burial sites in Slovakia, Moravia and Austria. The author defines several types of male identities on the basis of grave size, body position and orientation, anthropological designation and equipment, e.g. warrior, druid, craftsman, archer, old man, boy, individual with an indeterminate gender role, etc. The publication is richly illustrated both with pictures representing the combinations of equipment items in individual graves and with schematic models showing the relationships of the analysed components of society/community. The contributions of natural scientists in the book show the possibilities of using anthropology and DNA analysis to address the topic of identities in archaeology.



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It is a comprehensive publication of the archive of the former activities of the now defunct archaeological society operating in the Tiszaug Tiszaug river basin in 1876-1893. It publishes discovery and research reports on the activities of the society's members, including a catalogue and drawings of the objects and finds unearthed. A unique collection on the documentation of mostly now defunct archaeological sites that were destroyed as a result of the regulation of the Tisza River's flow.

8. BENEDIKOVÁ, Lucia - KATKINOVÁ, Jana - BUDINSKÝ-KRIČKA, Vojtech. *Ilava, poloha Porubská dolina: Pohrebisko lužickej kultúry na strednom Považí* = Ilava, Flur Porubská-Tal: Gräberfeld der Lausitzer Kultur im mittleren Waagtal. Nitra: Archeologický ústav SAV ; Bratislava: VEDA, 2016. 453 s. Archaeologica Slovaca Monographiae: Studia, XXVII. ISBN 978-80-8196-001-7.

The publication presents a comprehensive evaluation of the materials from the burial site of the Early and Late Bronze Age in Ilava. The necropolis, investigated in the 20s and 30s of the 20th century. offers the possibility of a relatively in-depth analysis of the immovable sources (construction and arrangement of graves) and the material culture in terms of typology, chronology and burial ritual. The position of the burial site in the contemporary environment of the Lusatian culture in terms of settlement strategies in the Bronze Age is addressed in a separate chapter using GIS.

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<http://www.cevnad.sav.sk/aktivita_1_1/Sidliska%20z%20doby%20latenskej_PLOTRE_18-01-21.pdf>. ISBN 978-80-8196-038-3

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2.1.3 List of monographs/books published abroad

AAA01 NEVIZÁNSKY, Gabriel - PROHÁSZKA, Péter. *Honfoglalás és kora Árpád-kori soros temetök és leletek katasztere Szlovákia* = Kataster der landnahmezeitlichen und frühárpádenzeitlichen Reihengräberfelder und Funde - Slowakei. Rec. Madaras László, Mesterházy Károly. 1. vyd. Budapest: Martin Opitz, 2020. 127 s. Opitz Archaeologica, 17. ISBN 978-963-9987-78-4

AAA02 PAVÚK, Juraj - BAKAMSKA, Aneta. *Die neolithische Tellsiedlung in Galabnik*. 1. vydanie. Wien: Österreichischen Akademie der Wissenschaften, 2021. 435 s. Mitteilungen der Prähistorischen Kommission, Band 91. ISBN 978-3-7001-8557-4

AAA03 PROHÁSZKA, Péter - TORBÁGYI, Melinda. *Regesten der antiken Fundmünzen und Münzhorte in Ungarn: Band 1. Komitat Tolna*. Budapest: Martin Opitz Verlag, 2017. 253 s. ISBN 978-963-9987-21-0

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AAA07 VARSIK, Vladimír - KOLNÍK, Titus - ŠTOLCOVÁ, Tereza - MINAROVIECH-RATIMORSKÁ, Jana. *Cífer-Pác: Eine spätantike Residenz im Quadenland*. Teil 1, Teil 2. Rec. Eduard Droberjar, Ján Rajtár, Jan Schuster. 1. vydanie. Bonn: Verlag Dr. Rudolf Habelt ; Trnava: Lehrstuhl für Klassische Archäologie, Universität Trnava ; Nitra: Archäologisches Institut der Slowakischen Akademie der Wissenschaften, 2021. 420 s. Universitätsforschungen zur prähistorischen Archäologie, Band 369. ISBN 978-3-7749-4335-3

ABA Monographic studies in journals and proceedings published abroad

ABA01 BENEDIKOVÁ, Lucia. Kulturkontakte des slowakischen Teils der Westkarpaten während der Hallstattzeit. In *Das nördliche Karpatenbecken in der Hallstattzeit: Wirtschaft, Handel und Kommunikation in früheisenzeitlichen Gesellschaften zwischen Ostalpen und Westpannonien*. - Budapest: Archaeolingua, 2017, s. 335-382. ISBN 978-615-5766-00-8.

ABA02 BENEDIKOVÁ, Lucia - BIELICHOVÁ, Zora - MIHÁLYIOVÁ, Jana - HENSEL, Karol. Sídlisko zo staršej doby rímskej v Likavke (okr. Ružomberok) = The Early Roman period settlement in Likavka (Ružomberok district). In *Jantarová stezka v proměnách času*. 1. vyd. - Brno: Moravské zemské muzeum, 2020, s. 465-500. ISBN 978-80-7028-534-3.

ABA03 DEMIDENKO, Yuri E. - ŠKRDLA, Petr - RÁCZ, Béla - NEMERGUT, Adrián - BÉRES, Sándor. The Aurignacian in the Carpathian Basin of Eastern Central Europe and its Proto-Aurignacian industry type. In *Scripta praehistorica: miscellanea in honorem Mariae Bitiri dicata*. - Târgovişte: Cetatea de scaun, 2021, s. 141-182. ISBN 978-606-537-5451.

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ABA05 CHEBEN, Ivan - BISTÁKOVÁ, Alena. Pottery and ornamental styles from the LBK and Želiezovce settlement site of Vráble. In *Archaeology in the Žitava Valley I: The LBK and Želiezovce settlement site of Vráble*. 1. Aufl. - Leiden: Sidestone Press, 2020, s. 265-362. ISBN 978-90-8890-897-2.

ABA06 KOMORÓCZY, Balász - RAJTÁR, Ján - VLACH, Marek - HÜSSEN, Claus-Michael. A companion to the archaeological sources of Roman military interventions into the Germanic territory north of the Danube during the Marcomannic Wars. In *Marcomannic Wars and Antonine Plague Selected essays on two disasters that shook the Roman World*. - Brno ; Lublin: Czech Academy of Sciences, Institute of Archaeology: Instytut Archeologii, Uniwersytet Marii Curie-Skłodowskiej, 2020, s. 173-254. ISBN 978-80-7524-026-2.

ABA07 MÜLLER-SCHEEßEL, Nils - HUKEĽOVÁ, Zuzana. The burials and human remains from the LBK and Želiezovce settlement site of Vráble. In *Archaeology in the Žitava Valley I: The LBK and Želiezovce settlement site of Vráble*. 1. Aufl. - Leiden: Sidestone Press, 2020, s. 159-235. ISBN 978-90-8890-897-2.

ABA08 STANIUK, Robert - FURHOLT, Martin - MÜLLER-SCHEEßEL, Nils - CHEBEN, Ivan. The archaeological features from the LBK and Želiezovce settlement site of Vráble. In *Archaeology in the Žitava Valley I: The LBK and Želiezovce settlement site of Vráble*. 1. Aufl. - Leiden: Sidestone Press, 2020, s. 95-158. ISBN 978-90-8890-897-2.

2.1.4. List of monographs/books published in Slovakia

AAB01 BÁTORA, Jozef. *Slovensko v staršej dobe bronzovej* = Slovakia in the Early Bronze Age. Jozef Vladár, Egon Wiedermann (recenzenti). 1. vyd. Bratislava: Univerzita Komenského: Katedra archeológie ; Nitra: Archeologický ústav SAV, 2018. 446 s. ISBN 978-80-223-4605-4

AAB02 BELJAK, Ján - BELJAK PAŽINOVÁ, Noémi - ŠIMKOVIC, Michal. *Pustý hrad vo Zvolene a hrad Peťuša: vo svetle aktuálnych výskumov*. Recenzenti Marta Mácelová, Dominik Repka. 1. vyd. Zvolen: Mesto, 2018. 100 s. ISBN 978-80-570-0010-5

AAB03 BELJAK, Ján - BELJAK PAŽINOVÁ, Noémi - MÁZOR, Martin. *Pustý hrad vo Zvolene - dejiny výskumu a obnovy kráľovského hradu 1992 - 2021: Publikácia vydaná pri príležitosti 30. výročia archeologického výskumu a obnovy hradného areálu* = Pustý hrad vo Zvolene - history of research and restoration of the royal castle 1992 - 2021. Recenzenti Marta Mácelová, Pavol Maliniak. 1. vydanie. Zvolen: Mesto, 2021. 148 s. ISBN 978-80-570-3645-6

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AAB05 BIELICH, Mário. *Archeologický výskum Kaplnky sv. Michala v Košiciach* = Archeological research of the Chapel of St. Michael in Košice. Recenzenti Michal Slivka, Rastislav Rusnák. 1. vydanie. Nitra: Archeologický ústav SAV, 2019. 128 s. Archaeologica Slovaca Monographiae: Catalogi, Tomus XXI. Dostupné na internete: <http://www.cevnad.sav.sk/aktivita_1_1/Bielich_sv_Michal.pdf>. ISBN 978-80-89315-69-7

AAB06 BORZOVÁ, Zuzana - PIETA, Karol - JAKUBČINOVÁ, Miriam. *Bojná 3: Poľnohospodárske náradie z hradiska Valy a jeho zázemia*. Recenzenti Lumír Poláček, Matej Ruttkay. 1. vyd. Nitra: Archeologický ústav SAV, 2020. 152 s. Archaeologica Slovaca Monographiae: Fontes, Tomus XXIV. Dostupné na internete: <http://www.cevnad.sav.sk/aktivita_1_1/Bojna%203.pdf>. ISBN 978-80-8196-046-8

AAB07 BŘEZINOVÁ, Gertrúda. *Šperk zo skla a sapropelitu u Keltov na Slovensku* = Glass and sapropelite jewels of the Celts in Slovakia. Jozef Bujna, Karol Pieta (recenzenti). 1. vyd. Nitra: Archeologický ústav SAV, 2018. 154 s. Archaeologica Slovaca Monographiae: Studia, Tomus XXX. ISBN 978-80-9196-018-5

AAB08 BŘEZINOVÁ, Gertrúda - CHROPOVSKÝ, Bohuslav. *Sídliská z doby laténskej v Nitre* = Settlements from the La Tène period in Nitra. Recenzenti Radoslav Čambal, Natalie Venclová. 1. vyd. Nitra: Archeologický ústav SAV, 2020. 185 s. Archaeologica Slovaca Monographiae: Fontes, Tomus XXVII. Dostupné na internete: <http://www.cevnad.sav.sk/aktivita_1_1/Sidliska%20z%20doby%20latenskej_PLOTRE_18-01-21.pdf>. ISBN 978-80-8196-038-3

AAB09 BUDAJ, Marek - HUNKA, Ján. *Nálezy mincí na Slovensku V/1* = Coin Finds in Slovakia. Dagmar Grossmannová, Jiří Militký. Bratislava: Historické múzeum SNM ; Nitra: Archeologický ústav SAV, 2018. 260 s. Nálezy mincí na Slovensku, V/1. ISBN 978-80-8196-026-0

AAB10 ĎURIŠ, Jozef. *Radzovce v období popolnicových polí: architektonická rekonštrukcia stavieb na základe analýzy mazanice* = Radzovce in der Urnenfelderzeit. Josef Unger, Zdeněk Farkaš (recenzenti). 1. vyd. Nitra: Archeologický ústav SAV, 2018. 198 s. Archaeologica Slovaca Monographiae: Fontes, Tomus XXIV. ISBN 978-80-8196-017-8

AAB11 ELSCHEK, Kristian. *Bratislava-Dúbravka im 1. bis 4. Jahrhunderts n. Chr.: Germanischer Fürstensitz mit römischen Bauten und die germainische Besiedlung*. Recenzenti Eduard Droberjar, Vladimír Varsik. 1. vyd. Nitra: Archeologický ústav SAV, 2017. 396 s. Archaeologica Slovaca Monographiae: Studia, Tomus XXIX. ISBN 978-80-8196-010-9

AAB12 FURMÁNEK, Václav - MITÁŠ, Vladimír - BUDINSKÝ-KRIČKA, Vojtech. *Radzovce in der Zeit der Urnenfelderkulturen: (Katalog des Gräberfeldes)*. Szilvia Guba, Milan Hanuliak, Milan Salaš (recenzenti). Nitra: Archeologický ústav SAV, 2016. 401 s. Archaeologica Slovaca Monographiae: Catalogi, Tomus XVI. ISBN 978-80-89315-99-4

AAB13 FURMÁNEK, Václav. *Radzovce in der Zeit der Urnenfelderkulturen: (Katalog der Siedlung)*. Recenzenti Jozef Bátora, Lubor Smejtek. 1. vydanie. Nitra: Archeologický ústav SAV, 2019. 195 s. Archaeologia Slovaca Monographiae: Catalogi, Tomus XX. Dostupné na internete: <http://www.cevnad.sav.sk/aktivita_1_1/Furm%C3%A1nek_Radzovce.pdf>. ISBN 978–80–8196–014–7

AAB14 FURMÁNEK, Václav - PAVELKOVÁ, Jaroslava. *Kyjatice: Zlatý vek na podhorí*. Recenzenti Ondřej Chvojka, Ondrej Ožďáni. 1. vyd. Nitra: Archeologický ústav SAV, 2020. 136 s. Archeologické pamätníky Slovenska, zv. 11. Dostupné na internete: <http://www.cevnad.sav.sk/aktivita_1_1/Kyjatice.pdf>. ISBN 978-808196-043-7

AAB15 GARDELKOVÁ-VRTELOVÁ, Anna - BENADIK, Blažej. *Pohřebiště Palárikovo v kontextu plochých keltských pohřebišť ve středním Podunají* = The Burial Ground of Palárikovo in the Context of Flat Celtic Cemeteries in the Middle Danube Region. Recenzenti Radoslav Čambal, Jana Čižmářová. 1. vydanie. Nitra: Archeologický ústav SAV ; Bratislava: VEDA vydavateľstvo SAV, 2021. 346 s. Archaeologica Slovaca Monographiae: Fontes, Tomus XXX. Dostupné na internete: <http://www.cevnad.sav.sk/aktivita_1_1/Palarikovo_text_def_m.pdf>. ISBN 978-80-8196-047-5

AAB16 HOLEŠČÁK, Michal. *Medieval archery equipment from the territory of Slovakia*. Reviewers Tomáš König, Petr Žákovský. 1. vydanie. Nitra: Institute of Archaeology of the Slovak Academy of Sciences ; Bratislava: VEDA, 2019. 124 s. Archaeologica Slovaca Monographiae: Studia, Tomus XXXI. ISBN 978-80-8196-033-8

AAB17 HORVÁTHOVÁ, Eva - NEVIZÁNSKY, Gabriel. *Stránska: Osada badenskej kultúry z obdobia eneolitu v kontexte vývoja severného Potisia*. Bratislava ; VEDA, vydavateľstvo SAV ; Nitra: Archeologický ústav SAV, 2017. 252 s. Archaeologica Slovaca Monographiae: Studia, Tomus XXVIII. ISBN 978-80-224-1583-5

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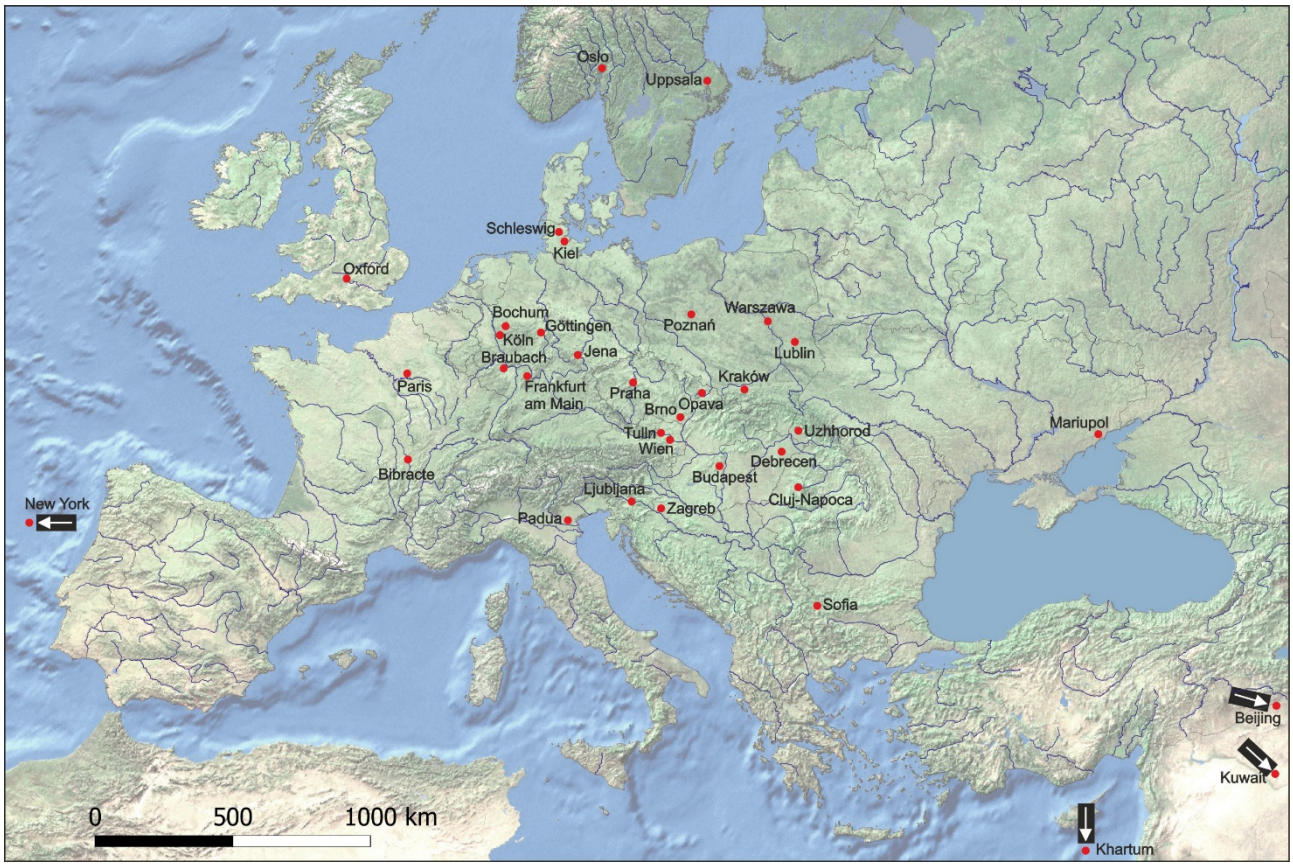
2.1.5. List of other scientific outputs specifically important for the institute, max. 10 items for institute with less than 50 average FTE researchers per year, 20 for institutes with 50 – 100 average FTE researchers per year and so on

1. INTERNATIONAL RESEARCH NETWORKS

An essential part of basic research is the Institute's involvement in the international research area. Our staff are part of bilateral research collaborations and international project research networks (see chapters 1.8., 2.3.1.,2.4.1.).

Partnership type	Number of projects 2016–2021
Project – H2020 (ERC) / IA as Associated Institution	3
Project – Interreg	1
Project – COST	4
Project – research outside Europe	2
Interacademic collaboration	4
Project – APVV bilateral	1
Bilateral international collaboration	35



2. BOOKS BY AUTHOR COLLECTIVES

In addition to monographs, the IA SAS also publishes books that are the result of research by several authors on a specific topic. These are either conference proceedings, jubilee volumes in the form of proceedings or supplement journals, but also monothematic scientific books created by several authors.

Selection (monothematic supplement journals and numerous conference proceedings):

Archaeology in the Žitava Valley I: The LBK and Želiezovce settlement site of Vráble. Ed. Martin Furholt, Ivan Cheben, Johannes Müller, Alena Bistáková, Maria Wunderlich, Nils Müller-Scheessel. 1. Aufl. Leiden: Sidestone Press, 2020. 541 p. Scales of Transformation in Prehistoric and Archaic Societies, Vol. 9. Dostupné na internete: <https://we.tl/t-jsNkbM5kb8>. ISBN 978-90-8890-897-2.

Bojná 2: Nové výsledky výskumov včasnostredovekých hradísk. Ed.Karol Pieta, Zbigniew Robak. 2. rozšírené vydanie. Nitra: Archeologický ústav SAV, 2017. 416 s. Archaeologica Slovaca Monographiae: Fontes, Tomus XXII. ISBN 978-80-8196-008-6.

Budatínsky hrad. Zostavovatelia Peter Bednár, Zuzana Staneková, Peter Šimko; Nitra: Archeologický ústav SAV; Žilina: Považské múzeum, 2019. 279 s. ISBN 978-80-88877-81-7.

Epidémie v dejinách: Ľudstvo v boji s neviditeľnými nepriateľmi. Ed. Branislav Kovár, Oliver Zajac, Lucia Benediková. Bratislava: Premedia, 2020. 293 s.
Civilizácia. ISBN 978-80-8159-836-4.

Kolaps očami archeológie. Branislav Kovár, Matej Ruttkay (editori) Nitra: Archeologický ústav SAV; Bratislava: VEDA, vydavateľstvo SAV, 2019. 210 s. Archaeologica Slovaca Monographiae: Communicationes, Tomus XXII. ISBN 978-80-8196-027-7.

Das nördliche Karpatenbecken in der Hallstattzeit : Wirtschaft, Handel und Kommunikation in früheisenzeitlichen Gesellschaften zwischen Ostalpen und Westpannonien. Hrsg. Elena Miroššayová, Christopher Pare, Susanne Stegmann-Rajtár. Budapest : Archaeolingua, 2017. 589 s. Archaeolingua, Volume 38. ISBN 978-615-5766-00-8.

Slovenská archeológia - Supplementum 2 : Celts - Germans - Slavs. A tribute anthology to Karol Pieta. Ed. Zbigniew Robak, Matej Ruttkay. In Slovenská archeológia : časopis Archeologického ústavu SAV v Nitre, 2021, suppl. 2. (2020: 0.306 - SJR, Q2 - SJR). (2021 - WOS, ERIH PLUS, SCOPUS, CEJSH). ISSN 1335-0102.

Slovenská archeológia - Supplementum 1 : Ultra Velum Temporis : venované Jozefovi Bátorovi k 70. narodeninám. Ed. Anita Kozubová, Erika Makarová, Martin Neumann. In Slovenská archeológia : časopis Archeologického ústavu SAV v Nitre, 2020, roč. 68, supplementum 1, s. (2019: 0.167 - SJR, Q2 - SJR). (2020 - WOS, ERIH PLUS, SCOPUS, CEJSH). ISSN 1335-0102.

3. SCIENTIFIC CONFERENCES

Scientific conferences are a space for "networking" of scientists working on scientific topics with a similar focus and a forum for presenting the results of their research activities.
During the period under review, the IA SAS organised or co-organised 15 national and 31 international conferences.
Books of abstracts and, subsequently, proceedings of presented papers were published from many of the scientific conferences (see chapter 2.3.3.).

List of events in the period under review see in chapters 2.3.2., 2.3.78., 2.3.8.

4. EXPERIMENTAL ARCHAEOLOGY

Experimentation is an integral part of scientific work in archaeology. Experimental methods help to learn and understand the technological procedures used by people in the past, for example in the extraction and processing of raw materials, the construction of dwellings, burial and cult rituals, etc.

Selected experimental activities:

Pottery making. The complex process from the selection of suitable clay, to its careful processing and shaping into a vessel as well as the firing process itself is the subject of the experiments tested. In the evaluated period, the archaeological sites of Havránok and Nitra-Martinský vrch were used for this experiments, where 11 series of production and firing of Celtic and medieval vessels were successively carried out.

Preparation and burning of wood charcoal. Wood charcoal was becoming a key raw material with the development of metallurgy, and both its consumption and production technology were increasing. An experiment as part of a PhD thesis (P. Debnár, 2019) successfully verified the differences in the use of the different woods used and the production methods employed, which are only marginally preserved in the historical literature.

Methods of antler (*Cervus elaphus, Capreolus capreolus*) **preparation for technical use**.
The experiment in the framework of the dissertation (M. Cerny, 2020) reconstructed an old technological procedure in the production processing of an important material for the production of prehistoric working tools and weapons.

Experimental production of bow and arrows and the method of archery among nomadic ethnic groups. In the framework of the dissertation Firearms of the Early Medieval Period in the Northern part of the Carpathian Basin (M. Holeščák), bows and arrows were experimentally produced and tested on the basis of ethnographic parallels as well as on the basis of archaeological findings.

5. RESEARCH ACTIVITIES AS PART OF THE PRESERVATION AND PRESENTATION OF CULTURAL HERITAGE

A) ARCHAEOPARKS

As stated above presentation of the immovable and portable heritage as the applied output of the IA SAS research is the part of our activities.
IA SAS has been involved in the establishment, construction and operation of several archaeoparks in the Slovak Republic on its own and in cooperation with regional governments.

Havránok archaeopark is the oldest open-air museum in Slovakia. Since 1991 it has been operated in cooperation between the IA SAS and the Liptov Museum. It presents the results of many years of excavations at a unique site from the Late Iron Age and the Early Roman period. The museum also serves as an experimental workplace of the Institute. It hosts annual side events, including a festival of Celtic civilisation.
https://liptovskemuzeum.sk

Nižná Myšľa archaeopark is the result of cooperation between the municipality, the East Slovak Museum and the IA SAS. It was established in 1998 and is part of an important site where the IA SAS is carrying out extensive research on a Brnze Age fortified settlement and a burial site. All the reconstructions created are based on the results of the research.
https://www.archeoskanzen.sk

Bojná. In addition to systematic excavations, the Institute has been building an archaeoskanzen here since 2011 in intensive cooperation with the municipality of Bojná and with the support of the Ministry of Culture of the Slovak Republic, which makes available to the public the significant results of the research of European monuments from the beginnings of Slovakia's national history. In 2018–2019, an experimental reconstruction of one of the largest wooden structures of the Early Middle Ages, the eastern gate of the central hillfort, was carried out here. A permanent exhibition is available for experts and the public, which was realised together with the municipality and regularly supplemented by new discoveries by the Institute of Archaeology. https://www.bojna.sk

Nitra-Martinský vrch. At the well-known archaeological site, the Institute in 2015–2018 established an experimental workplace open to the public, which also fulfils the objectives of the presentation of a cultural monument and an educational centre for public relations. It includes the reconstruction of the foundations of the historic church of St. Martin, three residential buildings and a furnace from the medieval period. Every year the site is part of historical festivals with high public attendance.https://www.cyril-methodius.cz/cs/martinsky-vrch/

Štrba-Šoldov. The construction of the archaeological site followed archaeological excavations that uncovered the relics of a vanished medieval village with a church and a cemetery. In cooperation with the village and our institute, a presentation of the floor plan of the extinct church together with an information system was carried out in the field. The site is located at the foot of the High Tatras and enjoys great tourist interest.
https://www.strba.sk/ine/tipy-na-vylety/zaniknuta-osada-soldov/

B) EXHIBITIONS

During the evaluated period, the IA SAS organised or participated in the organisation of a total of 54 exhibitions (see also chapter 1.8., 2.7.1.). Most of them were presented on the territory of Slovakia. Due to the rich cultural heritage of Slovakia, we regularly participate in exhibitions of European importance.

We select the following:

The heritage of Charlemagne. The Early Middle Ages as the cradle of European civilisation.
Openings: 17. 6. 2016 Bratislava, 22. 6. 2017 Košice, 14. 9. 2018 Zvolen.
The travelling exhibition was presented in Slovakia for the first time in 2016 at the Bratislava Castle, where the installation was supplemented with finds from the regions. The exhibition also included lectures introducing the exhibits and the Early Medieval period. The prestigious exhibition, as part of an international project of twelve academic and heritage institutions from nine countries, including the Institute, was realised within the Culture 2007–2013 programme.

Klima und Gewalten.
Opening: 26. 11. 2018 in Halle, Germany.
Approximately 800 exhibits from ten countries were on display, including important exhibits from the Institute's holdings, such as the Moravian Venus (Moravany nad Váhom, 22,800 B.C.), a Neanderthal skull (Šaľa, 100,000 B.C.). The representative European exhibition was a great success.

I confine dell´Impero Romano. Il Limes danubiano da Traiano a Marco Aurelio.
Opening: 6. 7. 2018 in Rome, Italy (Mercati di Traiano Museo dei Fori Imperiali).
The exhibition presented Roman monuments on the territory of Slovakia. Monuments such as Gerulata – the Roman baths or the Roman camp in Iža were an important part of the fortified frontier Limes Romanus in 1st–4th centuries.

Avari i Slaveni.
Opening: 22. 10. 2019 Zagreb, Croatia (Archeološki Muzej u Zagrebu)
Over a thousand exhibits from several European countries related to the Avars and Slavs were presented on an area of about 700 m^2. The Institute presented the results of its researches concerning the settlement of Slovakia in the 7th–8th centuries.

Biatec Nonnos. Celts on the Middle Danube.
Opening: 9. 5. 2019 in Frankfurt am Main, Germany (Museum of Frankfurt).
The exhibition presented the development of settlement in the Bratislava Gate area from the 8th century BC to the 1st century AD. The authors emphasized the Celtic settlement of southwestern Slovakia and especially the Celtic oppidum of European importance in Bratislava.

Romans and Slovakia. Romans and Slovakia
The exhibition presents the development of Slovakia, especially in the first four centuries A.D., when its territory bordered the Roman Empire. The exhibition is the result of cooperation between several Slovak institutions. A number of finds from the Roman period are avalaible for the visitor – many of them are exhibited for the first time.

Die Welt der Himmelsscheibe von Nebra - Neue Horizonte.
Opening: 4. 6. 2021 Halle (Germany)
In cooperation with the Institute, the exhibition presented to the public monuments of the European Bronze Age, contemporary with the iconic discovery of the "celestial shield" from Nebra, which is one of the earliest records of astronomical observations and maps of the sky in human history.

Reiternomaden in Europa – Riding nomads in Europe
Opening: summer 2022, Schallaburg (Austria)
Intensive collaboration on the exhibition organisation took place throughout 2021.

C) DOCUMENTATION AND VISUALISATION

Documentation and visualisation is handled by the Laboratories, Digitisation and 3D Documentation Unit (belongs to the Department of scientific and technical information and restoration laboratories). It is a unit of specialised activities related to the documentation of sites and finds using 3D technologies. Prepared virtual reconstructions serve researchers, for example, in examining ground plans of individual architectural phases or in elaborating the appearance of buildings in different periods. The technologies are used, for example, in the exploration of medieval castles. The department also uses a 3D printer. The reconstructions are also used for presentations and as a check on the condition of architectural monuments. Repeated scanning of monuments helps in detecting their degradation and in preparing their reconstruction.

6. INFORMATION SYSTEM AND CENTRAL REGISTER OF ARCHAEOLOGICAL SITES IN SLOVAKIA

The data are an inevitable condition of proper scientific work. Archaeology and archaeological data are not an exception. The basic data on the artefacts and sites are stored in the IA SAS archive from the beginning of its existence in 1930s. At first, they were, of course, only available in a paper form. Using the digital technologies the paper archive has been gradually digitalised and data were transformed to the database systems operated by the Institute. New information are already available directly in the digital form and are processed and loaded to the databases in the IA SAS Department of scientific and technical information and restoration laboratories. Nevertheless, paper copies of each report are still demanded and deposited in the documentation department.
Information systems contain the database of field activities (not only of the IA SAS but also of other institutions in the country carrying out the field archaeological research as they are by the law obliged to send the relevant information to the IA SAS) – ISAU (Information System of the Istitute of Archaology) and the database of the artefacts stored in the IA SAS depositories (MUSEION).
Central Register of Archaeological Sites in Slovakia (CEANS) represents the cleaned available data on the known archaeological sites in Slovak Republic. Test run is available here:

https://gp.sazp.sk/sk/map?wmc=http%3A%2F%2Fgeoportal.gov.sk%2Fwmc%2Fd3ddaf81-18bb-4f9b-9d56-cf91ac312587.xml

The activities related to the opearation and maintenance of the systems are rather time-, personnel- and finance-demanding. The Institute has to secure all necessary sourcing on its own costs.

2.1.6. List of patents, patent applications, and other intellectual property rights registered abroad

2.1.7. List of patents, patents, and other intellectual property rights registered in Slovakia

2.1.8. Narrative on the most important research outputs of the institute – especially focused on their importance for society (3-5 pages)

Archaeology is the science about the man of the past for the man of the present and the future. It is a **strategic science** in terms of understanding social and cultural development processes and human interactions with the environment, human interactions with each other, and the impacts of these developments and interactions. Archaeologists uncover the **stories of the past**, communicate them to the present and thus make it possible to uncover the secrets of ancient worlds without letting them fall into oblivion.
To do all this, archaeology uses a **wide range of scientific research methods** – from the methods of prospecting and identification of archaeological sites, through their uncovering and recovery of artefacts first from the ground, then from under the deposits and layers of patina and corrosion, to the analysis of movable and immovable monuments and their resulting interpretation and presentation to the professional and lay public alike. Neither of these steps can be done without a wide range of instruments and methods used, but also without a thorough knowledge of the sources for the period, territory or type of monuments under study, which is supported both by an honest study of the available source base (published sources and depositories of museums, research institutes, monuments' offices, etc.) and by discussions with experts from the same and other disciplines during field research, laboratory analyses, interpretation of results or at conferences. Given that the **central object of study in archaeology** is the **man of the past**, and because we know that man is a curious, demanding and multifunctional being, it is clear that from the earliest days of human history our ancestors must have felt the need to use a variety of objects made of different materials and with different functions, to make use of a variety of raw materials, to improve the functionality and aesthetic aspects of their living space, but also to develop their spiritual sphere – whether in various ceremonies or in artistic creation.
Archaeology must therefore grasp **man** in all his **diversity** – as an "animal" with a direct relationship to his natural environment, but also as a "predator" exploiting, more or less considerately and rationally, his surroundings (or his contemporaries), and a "creator " – reshaping his own living space.

This is also how we have to look at some of the most significant results of the activities of the IA SAS.
All of them **reflect historical reality** and the **human being in it** in the greatest possible breadth – whether it is the detailed treatment of individual sites or the formulation and resolution of research topics with different objectives.

The Institute is engaged in both basic and applied research. Applied research in particular is oriented towards the needs of social practice – **the service of science to the public**. However, applied research and its outputs could not be realized without basic research, which represents basic data collection and analysis and provides basic sources (field research) and knowledge (analysis and evaluation of sources) for subsequent communication of results to the public sphere.

Research clusters operating in the field of basic research are created not only within departments but also across departments (see chapter1.7., 1.8.). Research questions reflect **current trends** and needs in international archaeological research, for example, addressing the **relationship between humans and landscapes** in particular periods or regions, based on a multi proxy approach, using methodologies from multiple humanities, social sciences and natural sciences disciplines. Larger **monothematic projects** focusing on research on specific **key sites** from specific historical periods with their background are also oriented in this way. Some of them are based on the results of earlier field research, while research on others has been carried out more recently and from the field phase onwards with a focused interdisciplinary approach. Let us mention, for example, the "centres of power" from the Bronze Age (Nižná Myšľa, Vráble or Spišský Štvrtok), from the Roman period (the station in Cífer or the castel in Iža) and from the Early Middle Ages (the Bojná hillfort), from the Bronze Age also important burial sites (Radzovce, Kyjatice, Nižná Myšľa, Nitra-Dolné Krškany), and from the Early Historic period the princely grave from Poprad (see chapters 1.8., 2.6.1.). All these sites are being investigated in cooperation with an **international team of researchers** and are supported by projects not only from the Slovak side

(VEGA, APVV), but also from abroad (e.g. DFG, National Geographic). The research includes the necessary steps of modern archaeological interdisciplinary scientific research – from non-destructive (archaeological prospecting, LIDAR, geophysics) through destructive methods of field archaeological research, sampling methods (of archaeological, palaeoenvironmental and archaeometrically analysable material) to analytical methods of processing and evaluation of sources in laboratories. The outputs are **both scientific** articles and monographs, but also **presentations to the public** in the media, in the form of exhibitions or attractive books. The results of research of this nature are attractive to audiences – both professional and lay – because they represent many aspects of life (and death) and become the basis for writing the stories of human history.
A number of projects focus on research into the **raw material hinterland** of sites and regions, which is equally impossible without the use of various natural science methods – geology, XRF analyses, radiocarbon or OSL dating, palynology, zoology, botany, etc. For example, IA SAS researchers are investigating the origin and processing of stone raw material, tin, copper or iron ore, the use of organic – plant and animal – resources as food or e.g. material for tool making, which again is not possible without interdisciplinary and international cooperation (see chapters 2.3.1., 2.4.1., 2.4.3., 2.4.4.)
We cannot omit an excellent example of research and outputs with a significant **societal impact** not only in **Slovakia** (media interviews), but especially **abroad**. These are IA SAS **researches outside Europe** – in Kuwait and Sudan. In the partner countries there is a huge interest in our archaeological expeditions and their results among the public, state and local politicians, local elites. The presentation of the results of the expeditions in the partner countries is given great emphasis and has a significant educational impact. In Sudan, the archaeological mission also had a charitable and developmental dimension (see chapters 1.8., 2.6.1.).

IA SAS scientists are also **part of research teams at other institutions abroad**. Attractive and scientifically important outputs are also the result of such collaborations (Galabnik site in Bulgaria, see chapter 2.1.2.)

In the period under review, the **Institute successfully participated** (in addition to those already mentioned) in **major EU project schemes (H2020, COST, Interreg)**, which are also a space for **networking scientists** from different parts of Europe (and other continents). These projects allow the IA SAS to engage in time- and money-consuming research projects with high demands for broad international collaboration, addressing topical and currently very popular themes such as the origins of ethnicities based on aDNA analyses, the history of everyday life in different periods, and producing attractive outputs (chapters 2.3.1., 2.4.1.). All European project schemes, as well as the calls of Slovak grant agencies, place great emphasis on societal impact and the applicability of scientific work for social practice.

Part of the research objectives of basic research is carried out with regard to the **needs of social practice** – and is therefore an example of the **intermingling of basic and applied research**. An example of this type of research is the **research** of many **castles**, where archaeological research must be carried out by law as part of their restoration by various civic associations, municipalities or local authorities. Subsequently, scientific outputs are promoted in the form of presentations of in situ architectures, attractive monographs or cultural routes (e.g. Hron River Valley Castle Route; see chapters1.8., 2.7.1.).
Basic and applied research are also intertwined in the use of **LIDAR** data and LIDAR images, which are gradually – hand in hand with their publication on the web – becoming a common part of archaeological work. They allow the identification of archaeological sites, so to speak, "from the table" and equally excellent field orientation in the next step of archaeological research – the verification and research of sites in the field (see chapter 2.6.1.). With the help of LIDAR we can discover new, previously unknown sites, but also refine the joint, area or internal structure of the known ones. The problem is that this tool – since it has become accessible to everyone in recent years – is a dangerous weapon in the hands of looters of archaeological sites. However, this problem is burning not only in Slovakia, but in almost all countries of the world (with or without LIDAR). This reality needs to be responded to with alacrity and urgency, which is made possible by the cooperation of IA SAS with the Monuments Board, where, on the basis of authorisations from the Monumets Board, IA SAS staff can carry out operational "interventions" in the field that would

otherwise only be permitted to government employees. In this way, the IA SAS is directly involved in the **rescue of acutely threatened national cultural heritage**. An example of a successful result of such an "intervention" is the research of the sacrificial site in Slatina nad Bebravou, which has yielded new results regarding ritual practices, but also long-distance contacts of protohistoric communities living in the territory of Slovakia (see chapters 1.8., 2.1.5., 2.6.1.) as well as the research of numerous hillforts (which, as potential sources of the "wealth of past elites", are the most endangered group of sites by the looters, followed by burial sites) in different parts of Slovakia.

An example of the intermingling of basic and applied research is **rescue field research**, which again meets the **urgent needs of social practice** and also results from **legislation**. Also in rescue field research, scientific research is a priority – in some cases, investors are receptive and willing to contribute to scientific rescue and even to the presentation of our cultural heritage, rather than putting commercial interests or the time aspect of the research at the forefront.
Sources from rescue research become the subject of scientific processing and concrete scientific projects are built on them.
Another aspect of the societal impact of the implementation of rescue research is the increase in **employment of young archaeologists**, as field activities are demanding on professional human resources. Some joined the Department of Rescue Archaeology and Prospecting before, others after completing their PhDs, and afterwards some might have gradually become researchers in other departments.

An essential part of research – basic or applied – is the **creation and maintenance of detailed databases** of the sites and sources studied. By law, the IA SAS holds archaeological documentation in physical form from all archaeological research in Slovakia, i.e. from all institutions authorised to carry out such research – **CEANS** (Central Register of Archaeological Sites in Slovakia). At the same time, it manages an archive of negatives and slides from excavations and finds, as well as two information systems (**ISAU** for archaeological sites and **Museion** for finds; see chapters 1.8. and 2.1.5).

Applied research responds to other current societal issues – this is evidenced by book publications focusing on **pandemics, collapses**, or presenting history in a "shortcut" for today's "hurried" people (chapter1.8.).

Within the framework of applied research, the Institute is also involved in the **promotion and presentation of cultural heritage** and our relevant outputs. **IA SAS** has a **diverse portfolio** of **presentation, visualisation and popularisation activities** (see chapters 2.7.), which it can carry out thanks to its **modern infrastructure** (see chapter 2.8.3). Also on this basis, we have been able to participate in a project under the Interreg Central Europe scheme (**VirtualArch**; chapter 2.3.1.), the outputs of which are presented to the public.
Applied research includes **experimental archaeology**, scientifically based activities in **archaeoparks**, creation of **exhibitions** and **scientific-popular publications** (see chapters 2.1.5., 2.7.1.).

In its activities, the Institute not only uses the potential of its internal staff, but also establishes a number of **partnerships at home and abroad**. From the domestic cooperation we should mention the cooperation with other institutes of the Slovak Academy of Sciences, with museums, universities, municipalities, municipal authorities, Monuments Board, etc. In the evaluated period we established 49 partnerships of various types with the foreign partners, a large part of which are bilateral agreements. These are a prerequisite for the Institute to fulfil many research objectives, but also "**think tanks**" and a base for the creation of larger international research teams.
A similar networking opportunity for scientists is provided by **international scientific conferences**, in which the Institute's staff not only participates (also in the form of invited lectures) but also (co-)organises many prestigious scientific events (traditional international conferences such as Celts…, Grundprobleme…, Questions on Neolithic and Eneolithic…; see chapter 2.3.2.).
In the field of **international cooperation** and its **societal impact**, we should also mention the hosting of two **SASPRO** fellows at our institution, one of whom has become our internal employee

and is active in submitting projects (APVV, ERC), the other has been awarded an assistant professor position at the University of Vienna (see chapter 2.3.1.).

A significant value of the Institute's activities is their **educational dimension**. IA SAS is involved in the education of scientific adolescents – our staff lectures at universities at home and abroad, supervises BC, MA and PhD theses, conducts summer schools in archaeology and field practice for university students. However, we should not forget outreach lectures at primary and secondary schools, various public forums, events such as Open Day, Researchers' Night, media interviews, etc. (see chapters 2.7.1.).
The Institute has also been involved in the international network of cultural journeys by participating in the creation and activities of the Cyril and Methodius Cultural Route (see chapter 2.7.1.).

Evidence of the **positive response** to the activities of the IA SAS in society is a number of **awards** for its staff (see chapters 2.3.9., 2.3.12.).

2.1.9. Table of research outputs

Papers from international collaborations in large-scale scientific projects (Dwarf team, ALICE Collaboration, ATLAS collaboration, CD Collaboration, H1 Collaboration, HADES Collaboration, and STAR Collaboration) have to be listed separately

Scientific publications	2016			2017			2018			2019			2020			2021			total			
	number	No. / FTE researches	No. / one million total salary budget	number	No. / FTE researches	No. / one million total salary budget	number	No. / FTE researches	No. / one million total salary budget	number	No. / FTE researches	No. / one million total salary budget	number	No. / FTE researches	No. / one million total salary budget	number	No. / FTE researches	No. /1 million total salary budget	number	averaged number per year	av. No. / FTE researches	av. No. / one million total salary budget
Scientific monographs and monographic studies in journals and proceedings published abroad *(AAA, ABA)*	1	0,014	0,615	4	0,057	2,388	0	0,000	0,000	0	0,000	0,000	7	0,114	2,828	4	0,061	1,545	**16**	**2,667**	**0,040**	**1,278**
Scientific monographs and monographic studies in journals and proceedings published in Slovakia *(AAB, ABB)*	7	0,100	4,302	9	0,129	5,373	18	0,257	9,605	17	0,260	7,446	9	0,147	3,636	8	0,122	3,090	**68**	**11,333**	**0,169**	**5,430**
Chapters in scientific monographs published abroad *(ABC)*	0	0,000	0,000	1	0,014	0,597	**2**	0,029	1,067	1	0,015	0,438	8	0,131	3,232	0	0,000	0,000	**12**	**2,000**	**0,030**	**0,958**
Chapters in scientific monographs published in Slovakia *(ABD)*	0	0,000	0,000	10	0,143	5,970	2	0,029	1,067	5	0,076	2,190	2	0,033	0,808	3	0,046	1,159	**22**	**3,667**	**0,055**	**1,757**
Scientific papers published in journals registered in Current Contents Connect *(ADCA, ADCB, ADDA, ADDB)*	6	0,086	3,688	1	0,014	0,597	4	0,057	2,134	5	0,076	2,190	7	0,114	2,828	10	0,153	3,862	**33**	**5,500**	**0,082**	**2,635**
Scientific papers published in journals registered in Web of Science Core Collection and SCOPUS not listed above *(ADMA, ADMB, ADNA, ADNB)*	28	0,402	17,210	22	0,316	13,134	15	0,214	8,004	33	0,504	14,455	26	0,424	10,505	44	0,671	16,995	**168**	**28,000**	**0,418**	**13,415**
Scientific papers published in other foreign journals (not listed above) *(ADEA, ADEB)*	4	0,057	2,459	5	0,072	2,985	2	0,029	1,067	3	0,046	1,314	3	0,049	1,212	4	0,061	1,545	**21**	**3,500**	**0,052**	**1,677**
Scientific papers published in other domestic journals (not listed above) *(ADFA, ADFB)*	6	0,086	3,688	3	0,043	1,791	4	0,057	2,134	2	0,031	0,876	2	0,033	0,808	2	0,031	0,772	**19**	**3,167**	**0,047**	**1,517**
Scientific papers published in foreign peer-reviewed proceedings *(AECA)*	19	0,273	11,678	21	0,301	12,537	21	0,300	11,206	25	0,382	10,951	21	0,343	8,485	9	0,137	3,476	**116**	**19,333**	**0,289**	**9,263**
Scientific papers published in domestic peer-reviewed proceedings *(AEDA)*	57	0,818	35,034	70	1,004	41,791	73	1,042	38,954	71	1,084	31,099	75	1,224	30,303	32	0,488	12,360	**378**	**63,000**	**0,941**	**30,184**
Published papers (full text) from foreign scientific conferences *(AFA, AFC)*	9	0,129	5,532	3	0,043	1,791	8	0,114	4,269	8	0,122	3,504	10	0,163	4,040	6	0,092	2,317	**44**	**7,333**	**0,110**	**3,514**
Published papers (full text) from domestic scientific conferences *(AFB, AFD)*	3	0,043	1,844	19	0,273	11,343	6	0,086	3,202	9	0,137	3,942	11	0,180	4,444	12	0	5	**60**	**10**	**0**	**5**

2.2. Measures of research outputs (citations, etc.)

2.2.1. Table with citations per annum (without self-citations)

Citations of papers from international collaborations in large-scale scientific projects (Dwarf team, ALICE Collaboration, ATLAS collaboration, CD Collaboration, H1 Collaboration, HADES Collaboration, and STAR Collaboration) are listed separately

Citations, reviews	2015		2016		2017		2018		2019		2020		total		
	number	No. / FTE researchers	number	No. / FTE researchers	number	No. / FTE researchers	number	No. / FTE researchers	number	No. / FTE researchers	number	No. / FTE researchers	number	averaged number per year	av. No. / FTE researchers
Citations in Web of Science Core Collection (1.1, 2.1)	441	6,33	209	3,00	221	3,15	527	8,04	675	11,02	586	8,94	**2 659**	**443,17**	**6,62**
Citations in SCOPUS (1.2, 2.2) if not listed above	115	1,65	165	2,37	530	7,57	105	1,60	587	9,58	230	3,51	**1 732**	**288,67**	**4,31**
Citations in other citation indexes and databases (not listed above) (3.2,4.2)	0	0,00	0	0,00	0	0,00	17	0,26	0	0,00	0	0,00	**17**	**2,83**	**0,04**
Other citations (not listed above) (3.1, 4.1)	4 123	59,15	2 287	32,81	2 707	38,64	2 997	45,75	2 408	39,30	2 336	35,64	**16 858**	**2 809,67**	**41,96**
Reviews (5,6)	9	0,13	6	0,09	1	0,01	6	0,09	3	0,05	6	0,09	**31**	**5,17**	**0,08**

2.2.2. List of 10 most-cited publications published any time with the address of the institute, with number of citations in the assessment period (2015 – 2020)

1. **AAB** PIETA, Karol. *Keltské osídlenie Slovenska: mladšia doba laténska*. Nitra: Archeologický ústav SAV, 2008. 384 s. Archaeologica Slovaca Monographiae. Studia, Tomus XI. ISBN 978-80-89315-05-5 (**184 Citations**)

2. **ABB** RUTTKAY, Alexander T. Waffen und Reiterausrüstung des 9. bis zur ersten hälfte des 14. Jahrhunderts in der Slowakei (II). In *Slovenská archeológia: časopis Archeologického ústavu SAV v Nitre*, 1976, roč. 24, č. 2, s. 245-395. ISSN 1335-0102. (**143 Citations**)

3. **AAB** PIETA, Karol. *Die Púchov-Kultur*. Nitra: Archeologický ústav SAV, 1982. 311 s. Studia Archaeologica Slovaca, I (**110 Citations**)

4. **AAB** FURMÁNEK, Václav - VELIAČIK, Ladislav - VLADÁR, Jozef. *Slovensko v dobe bronzovej*. Bratislava: Veda, 1991. 406 s. ISBN 80-224-0350-4 (**106 Citations**)

5. **AAB** KOLNÍK, Titus. *Römerzeitliche Gräberfelder in der Slowakei*. Teil I. Bratislava: VEDA, 1980. 330 s. Archaeologica Slovaca Fontes, Tom 14 (**98 Citations**)

6. **AAB** FURMÁNEK, Václav - BÁTORA, Jozef - OŽĎÁNI, Ondrej - MITÁŠ, Vladimír - KUJOVSKÝ, Rudolf - VLADÁR, Jozef. *Staré Slovensko 4* = Ancient Slovakia 4. Bronze Age. Doba bronzová. Nitra: Archeologický ústav SAV, 2015. 330 s. Archaeologica Slovaca Monographiae: Staré Slovensko, Tomus 4. ISBN 978-80-89315-87-1 (**97 Citations**)

7. **AAA** BÁTORA, Jozef. *Das Gräberfeld von Jelšovce / Slowakei: Ein Beiträg zur Frühbronzezeit im nordwestlichen Karpatenbecken*. Teil 1 und Teil 2. Kiel: Oetker/Voges, 2000. 302 S. Prähistorische Archäologie in Südosteuropa, Band 16. ISBN 3-9804322-9-7 (**85 Citations**)

8. **AAB** VARSIK, Vladimír. *Germánske osídlenie na východnom predpolí Bratislavy: sídliská z doby rímskej v Bratislave-Trnávke a v okolí*. Nitra: Archeologický ústav SAV, 2011. 404 s. Archaeologia Slovaca Monographiae - Fontes, Tomus XVIII. ISBN 978-80-89315-34-5 (**81 Citations**)

9. **AAB** HANULIAK, Milan. *Veľkomoravské pohrebiská: pochovávanie v 9.-10. storočí na území Slovenska*. Nitra: Archeologický ústav SAV, 2004. 391 s. Archaeologica Slovaca Monographiae. Studia, Tomus VIII. ISBN 80-88709-72-5 (**79 Citations**)

10. **AAB** VELIAČIK, Ladislav. *Die Lausitzer Kultur in der Slowakei*. Nitra: Archäologisches Institut der Slowakischen Akademie der Wissenschaften, 1983. 260 s. Archaeologica Slovaca Monographiae Studia, Tomus II (**77 Citations**)

2.2.3. List of 10 most-cited publications published any time with the address of the institute, with number of citations obtained until 2020

1. **AAB** FUSEK, Gabriel. *Slovensko vo včasnoslovanskom období*. Nitra: Archeologický ústav Slovenskej akadémie vied, 1994. 383 s. Archaeologica Slovaca Monographiae, 3. ISBN 80-88709-17-2 (**432 Citations**)

2. **AAB** FURMÁNEK, Václav - VELIAČIK, Ladislav - VLADÁR, Jozef. *Slovensko v dobe bronzovej*. Bratislava: Veda, 1991. 406 s. ISBN 80-224-0350-4 (**396 Citations**)

3. **AAB** PIETA, Karol. *Keltské osídlenie Slovenska: mladšia doba laténska*. Nitra: Archeologický ústav SAV, 2008. 384 s. Archaeologica Slovaca Monographiae. Studia, Tomus XI. ISBN 978-80-89315-05-5 (**335 Citations**)

4. **ABB** RUTTKAY, Alexander T. Waffen und Reiterausrüstung des 9. bis zur ersten hälfte des 14. Jahrhunderts in der Slowakei (II). In *Slovenská archeológia: časopis Archeologického ústavu SAV v Nitre*, 1976, roč. 24, č. 2, s. 245-395. ISSN 1335-0102 (**329 Citations**)

5. **AAA** FURMÁNEK, Václav. *Die Anhänger in der Slowakei*. München: C.H.Beck´sche Buchhandlung, 1980. 61 S. Prähistorische Bronzefunde, Band 3. ISBN 3 406 07243 7 (**246 Citations**)

6. **AAB** HANULIAK, Milan. *Veľkomoravské pohrebiská: pochovávanie v 9.-10. storočí na území Slovenska*. Nitra: Archeologický ústav SAV, 2004. 391 s. Archaeologica Slovaca Monographiae. Studia, Tomus VIII. ISBN 80-88709-72-5 (**242 Citations**)

7. AAB PIETA, Karol. *Die Púchov-Kultur*. Nitra: Archeologický ústav SAV, 1982. 311 s. Studia Archaeologica Slovaca, I (**233 Citations**)

8. **AAA** FURMÁNEK, Václav - VELIAČIK, Ladislav - VLADÁR, Jozef. *Die Bronzezeit im slowakischen Raum*. Rahden/Westf.: Leidorf, 1999. 206 S. Prähistorische Archäologie in Südosteuropa, Band 15. ISBN 3-89646-502-3 (**226 Citations**)

9. **AAB** KOLNÍK, Titus. *Römerzeitliche Gräberfelder in der Slowakei*. Teil I. Bratislava: VEDA, 1980. 330 s. Archaeologica Slovaca Fontes, Tom 14 (**216 Citations**)

10. **AAB** ŠALKOVSKÝ, Peter. *Häuser in der frühmittelalterlichen slawischen Welt*. Nitra: Archeologický ústav SAV, 2001. 190 s. Archaeologica Slovaca Monographiae, Tomus VI. ISBN 80-88709-52-0 (**194 Citations**)

2.2.4. List of 10 most-cited publications published during the evaluation period (2016-2021) with the address of the Institute, with number of citations obtained until 2021

1. **ADCA** DAMGAARD, Peter de Barros - MARCHI, Nina - RASMUSSEN, Simon - PEYROT, Michael - PIETA, Karol - SMRČKA, Václav - ŠTOLCOVÁ, Tereza - KRISTIANSEN, Kristian - WILLERSLEV, Eske. 137 ancient human genomes from across the Eurasian steppes. In *Nature*, 2018, vol. 557, no. 7705, p. 369-374. (2017: 41.577 - IF, Q1 - JCR, 17.875 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0028-0836. Dostupné na: https://doi.org/10.1038/s41586-018-0094-2 **(78 Citations**)

2. **AAB** BÁTORA, Jozef. *Slovensko v staršej dobe bronzovej* = Slovakia in the Early Bronze Age. Jozef Vladár, Egon Wiedermann (recenzenti). 1. vyd. Bratislava: Univerzita Komenského: Katedra archeológie ; Nitra: Archeologický ústav SAV, 2018. 446 s. ISBN 978-80-223-4605-4 (**39 Citations**)

3. **AAB** ELSCHEK, Kristian. *Bratislava-Dúbravka im 1. bis 4. Jahrhunderts n. Chr.: Germanischer Fürstensitz mit römischen Bauten und die germainische Besiedlung*. Recenzenti Eduard Droberjar, Vladimír Varsik. 1. vyd. Nitra: Archeologický ústav SAV, 2017. 396 s. Archaeologica Slovaca Monographiae: Studia, Tomus XXIX. ISBN 978-80-8196-010-9 (**37 Citations**)

4. **ABB** ROBAK, Zbigniew. The Origins and the Collapse of the Blatnica-Mikulčice Paradigm. In *Slovenská archeológia: časopis Archeologického ústavu SAV v Nitre*, 2017, roč. 65, č. 1, s. 99-162. (2017 - SCOPUS). ISSN 1335-0102 (**25 Citations**)

5. **AAB** BENEDIKOVÁ, Lucia - KATKINOVÁ, Jana - BUDINSKÝ-KRIČKA, Vojtech. *Ilava, poloha Porubská dolina: Pohrebisko lužickej kultúry na strednom Považí* = Ilava, Flur Porubská-Tal: Gräberfeld der Lausitzer Kultur im mittleren Waagtal. Recenzenti Juraj Bartík, Luboš Jiráň. Nitra: Archeologický ústav SAV ; Bratislava: VEDA, 2016. 453 s. Archaeologica Slovaca Monographiae: Studia, XXVII. ISBN 978-80-8196-001-7 (**20 Citations**)

6. **ABB** PIETA, Karol. Včasnostredoveké mocenské centrum Bojná – výskumy v rokoch 2007-2013 = Frühmittelalterliches Machtzentrum Bojná – Ausgrabungen in den Jahren 2007-2013. In *Bojná 2: Nové výsledky výskumov včasnostredovekých hradísk*. 2. rozšírené vydanie. - Nitra: Archeologický ústav SAV, 2017, s. 11-52. ISBN 978-80-8196-008-6 (**19 Citations**)

7. **AAB** BŘEZINOVÁ, Gertrúda. *Šperk zo skla a sapropelitu u Keltov na Slovensku* = Glass and sapropelite jewels of the Celts in Slovakia. Jozef Bujna, Karol Pieta (recenzenti). 1. vyd. Nitra: Archeologický ústav SAV, 2018. 154 s. Archaeologica Slovaca Monographiae: Studia, Tomus XXX. ISBN 978-80-9196-018-5 (**18 Citations**)

8. **ADMA** CSÁKYOVÁ, Veronika - SZÉCSÉNYI-NAGY, Anna - CSŐSZ, Aranka - NAGY, Melinda - FUSEK, Gabriel - LANGÓ, Péter - BAUER, Miroslav - MENDE, Balázs Gusztáv - MAKOVICKÝ, Pavol - BAUEROVÁ, Mária. Maternal Genetic Composition of a Medieval Population from a Hungarian-Slavic Contact Zone in Central Europe. In *PLoS ONE*, 2016, vol. 11, iss. 3, art. no. e0151206. (2015: 3.057 - IF, Q1 - JCR, 1.427 - SJR, Q1 - SJR). ISSN 1932-6203. Dostupné na: https://doi.org/10.1371/journal.pone.0151206 (**16 Citations**)

9. **ABA** BENEDIKOVÁ, Lucia. Kulturkontakte des slowakischen Teils der Westkarpaten während der Hallstattzeit. In *Das nördliche Karpatenbecken in der Hallstattzeit: Wirtschaft, Handel und Kommunikation in früheisenzeitlichen Gesellschaften zwischen Ostalpen und Westpannonien*. - Budapest: Archaeolingua, 2017, s. 335-382. ISBN 978-615-5766-00-8. (**15 Citations**)

10. **AAB** HORVÁTHOVÁ, Eva - NEVIZÁNSKY, Gabriel. *Stránska: Osada badenskej kultúry z obdobia eneolitu v kontexte vývoja severného Potisia*. Bratislava ; VEDA, vydavateľstvo SAV ; Nitra: Archeologický ústav SAV, 2017. 252 s. Archaeologica Slovaca Monographiae: Studia, Tomus XXVIII. ISBN 978-80-224-1583-5 (**15 Citations**)

2.2.5. List of most-cited authors from the Institute (at most 10 % of average FTE researchers per year) and their number of citations in the assessment period (2015–2020). The cited papers must bear the address of the institute

PIETA, K.:	1602 citations
FURMÁNEK, V.:	1032 citations
BÁTORA, J.:	844 citations
RUTTKAY, M.:	735 citations
VELIAČIK, L.:	709 citations
RUTTKAY, A.:	635 citations
SOJÁK, M.:	547 citations
HANULIAK, M.:	501 citations

2.2.6. List of most-cited authors from the Institute (at most 10 % of average FTE researchers per year) and their number of citations obtained until 2020. The cited papers must bear the address of the Institute

PIETA, K.:	3349 citations
FURMÁNEK, V.:	3089 citations
RUTTKAY A.:	2063 citations
RUTTKAY M.:	1974 citations
BÁTORA, J.:	1808 citations
FUSEK, G.:	1731 citations
VELIAČIK, L.:	1729 citations
HANULIAK, M.:	1607 citations

2.2.7. List of most-cited authors from the Institute (at most 10 % of average FTE researchers per year) and their number of citations obtained until 2021 of their papers published during the evaluation period (2016– 2021). The cited papers must bear the address of the Institute

PIETA, K.:	197 citations
BÁTORA, J.:	39 citations
RUTTKAY, M.:	82 citations
ŠTOLCOVÁ, T.:	78 citations
RAJTÁR, J.:	63 citations
BENEDIKOVÁ, L.:	61 citations
BÁTORA, J.:	58 citations
ELSCHEK, K.:	53 citations

2.3. Research status of the institute in international and national context

- **International/European position of the institute**

2.3.1. List of the most important research activities demonstrating the international relevance of the research performed by the institute, incl. major projects (details of projects should be supplied under Indicator 2.4). Max. 10 items for institute with less than 50 average FTE researchers per year, max. 20 for institutes with 50 – 100 average FTE researchers per year and so on

H2020 – ERC grants

IA SAS is collaborating in three ERC grants awarded and carried out in the evaluation period.

1. ERC Synergy Grant HistoGenes – Integrating genetic, archaeological and historical perspectives on Eastern Central Europe, 400-900 AD. HistoGenes 856453

Principal investigators: Walter Pohl, Patrick J. Geary, Johannes Krause, Tivadar Vida
Responsible researcher for Slovakia: M. Ruttkay
The IA SAS is a co-operation partner of the ERC and an associate partner of Eötvös Loránd University (Eötvös Loránd University). It is involved in DNA, isotope and radiocarbon analyses of about 600 graves from the 5th–9th centuries from the Central Danube area. In total, the project works with approximately 6,000 graves, making it probably the largest of its kind in the world at present. In 2021, a first group of samples was prepared and is being analysed in the laboratories in Leipzig. Regular online working meetings are held. A two-day workshop was also held in Vienna in September, at a time of slightly relaxed pandemic measures. Already the first partial results are showing until recently unimaginable possibilities for the reconstruction of family trees and family links in individual burial sites, the identification of diseases (especially tuberculosis and jaundice), as well as questions of the origin of individual population groups. https://www.histogenes.org/participating-institutions
Participating countries: Austria, Hungary, Germany, Slovakia, USA.

2. ERC consolidator projekt GEODAP – GEOarchaeology of DAily Practices: extracting Bronze Age lifeways from the domestic stratigraphic record.

Duration: 2021–2026
Principal investigator: Ass. Prof. Cristiano Nicosia, University of Padova
IA SAS, represented by J. Bátora, DrSc., is an associate partner of the ERC project, which deals with the common life during the Bronze Age in Europe. It focuses on activities of daily life. The outcome will be an innovative narrative on the Bronze Age, which will include social, economic and environmental aspects of a culturally interconnected European region. The focus is on 10 key archaeological sites in 6 European countries. Methods from geoarchaeology, organic chemistry

and archaeobotany will be used to reconstruct everyday activities based on the stratigraphy and cultural history at each of the investigated sites https://cordis.europa.eu/project/id/101001839
Participating countries: Croatia, Hungary, Italy, Serbia, Slovakia, Slovenia.

3. ERC Starting Grant MICROSCOPE – Zooming into the Population History of Iron Age Europe with Rare Genetic Variants.
Principal investigator: Stephan Schiffels
IA SAS, represented by K. Pieta, participated by selection and providing the samples for this project. Project MICROSCOPE investigated the pre-Roman European Iron Age with new genetic methods. The challenge in most periods of European prehistory since the Bronze Age is a high degree of genetic homogeneity among European populations. From Slovakia, population genetic background of individuals from Celtic graves (Palárikovo, Dubník, Chotín) has been investigated.
https://erc.europa.eu/projects-figures/erc-funded-projects/results?items_per_page=100&f%_5B0%5D=funding_scheme%3AStarting%20Grant%20%28StG%29&page=28

INTERREG – Central Europe

4. INTERREG – VirtualArch CE-947
Principal investigator for SK: M. Ruttkay
Since mid-2017, the VirtualArch project, in which the Institute was the leader of one of the working groups, was launched and completed in 2020. The project was implemented by 10 institutions from 8 countries. The aim was to present and create or find tools for the presentation of invisible archaeological monuments (extinct buildings, archaeological finds, etc.). Priority was given to agrarian settlements (Slovenia), underwater archaeology (ports of Puck/Poland and Sukosan/Croatia), ancient mines (Dipoldiswalde/Germany, Bohemia, Hallstatt/Austria), the city (Nitra) and archaeoparks (Italy). Representatives of the IA SAS had the task to digitalize archaeological situations in the territory of the city of Nitra and to create visualizations of the most interesting ones, which the visitor will be able to perceive despite the fact that the original situation is hidden underground or even no longer exists. For this purpose, virtual models and visualizations were also created. The newly created mobile application AUSAV
https://play.google.com/store/apps/details?id=sk.sav.archeol.ar&gl=SK has been put into use, where a visitor to Nitra can see the original medieval appearance while walking around the city by targeting, for example, the church, while visiting the casemate and looking at the Great Moravian rampart, and the reconstructed Renaissance rampart while looking at the explored remains of the Renaissance palisade. Everything is illustrated with 3D visualizations of individual finds and descriptive information. The app is also a basis for adding other objects from the whole territory of Slovakia.

Read more here: http://archeol.sav.sk/index.php/en/virtual-arch/

APP – store ***Google-play*** ***youtube playlist***

COST

5. Project COST: CA 15201 – Archaeological practices and knowledge work in the digital Environment (ARKWORK)

Principal investigator for IA SAS: A. Bistáková

Completed in 2021, the project aims to valorise the experience of research and heritage institutions in the recording of archaeological heritage, the creation and use of diverse documentation and record-keeping systems. The main objective of the project is to bring together the community of researchers in the field of archaeology, to synthesize their current projects on data production and use, to improve the knowledge of how archaeological information is produced, how it is used and how its positive impact on society can be maximized.

Duration: 2017–2020 (extended to 2021)

Number of co-investigating institutions: 28.

https://www.cost.eu/actions/CA15201/; www.arkwork.eu.

6. Project COST: CA 19141 – INTEGRATING NEANDERTAL LEGACY: FROM PAST TO PRESENT (iNEAL)

Principal investigator for IA SAS: A. Nemergut

The natural environment and its diversity played a key role in the settlement of Slovakia by Neanderthals. There are many known sites in Slovakia where traces of Neanderthal settlement have been found (Gánovce, Šaľa, Bojnice, Plavecký Mikuláš-Dzeravá skala cave, Radošina-Čertova pec cave, Zamarovce, Gánovce, Hôrka-Ondrej, Vyšné Ružbachy).

The Slovak sites have an important role in the research of the Middle Palaeolithic and early Late Palaeolithic settlement by Neanderthals in the wider European context. Therefore, the staff of the IA SAS was approached and joined the COST Thematic Action within Working Group 2 (WG.2). Their task will be the prospection and excavation of Middle and early Late Palaeolithic sites in Slovakia, techno-typological analysis of the cleavage industry from these sites, the use of raw materials by Neanderthals in Slovakia, including involvement in the wider project discussion, testing and application of new methodologies, and participation in archaeological experiments.

Neanderthals are the first truly recognised pan-European human population. Traces of their existence, including skeletal remains and evidence of their life, can be found in many European countries and cover a period of approximately 250,000 years. The COST project aims to overcome the gaps in knowledge of this population as well as the limitations of the research traditions in different European regions. In addition to the professional public, regional administrations, museums, creative enterprises, etc. will be able to use the results of the research and the database of available sources for research.

Duration: 2020–2024.

Number of co-investigating institutions: 27

https://www.cost.eu/actions/CA19141/#tabs|Name:overview

7. Project COST: CA 19131 – Europe Through Textiles: Network for an integrated and interdisciplinary Humanities (EuroWeb)

Principal investigator for IA SAS: T. Štolcová

EuroWeb supports a pan-European network of researchers and stakeholders from academia, museums, conservation, cultural and creative industries. Scholars from across the humanities (philology, art history, archaeology, history), social sciences (social anthropology, ethnology, economics, law) and natural sciences (geochemistry, conservation, chemistry, biology) join forces to bridge contemporary cultural, political and geographical gaps and facilitate interdisciplinary research leading to inspiring material for practitioners in the related and applied disciplines of fashion, art and design. Outputs include collaborative publications, research workshops, theoretical reflections and advances, digital infrastructure, a EuroWeb digital textile atlas, films and podcasts, and intensive mentoring, training and career development for ECI (Early Career Investigators). This is done through six working groups (WGs) – WG 1: Textile Technology, WG 2: Clothing Identity: Gender, Age and Status, WG 3: Textile and Clothing Terminology, WG 4: Company Structure, WG 5: Internal and External Communication and STSM (Short Time Scientific Mission) and WG 6: Management and Training. The Institute of Archaeology of the Slovak Academy of Sciences is involved in WG 1.

Duration: 2020–2024

Number of co-investigating institutions: 30
https://www.cost.eu/actions/CA19131

8. *Project COST: OC-2011-2-10516 – Colour and Space in Cultural Heritage (COSCH)*
Principal investigator for IA SAS: M. Ruttkay
There is a need to promote research, development and application of non-contact optical measurement techniques (spectral and spatial), adapted to the needs of heritage documentation, on a concerted European level, in order to protect, preserve, analyse understand, model, virtually reproduce, document and publish important culturall heritage in Europe and beyond.
Within the project, special attention is paid to testing different 3D documentation of archaeological finds with emphasis on detailed analysis of their surfaces. Modern instrumentation makes it possible to precisely define the composition of the materials and thus create a good prerequisite for the conservation and restoration of cultural heritage.
Duration: 2012–2016
Number of co-investigating institutions: 57
https://www.cost.eu/cost-action/colour-and-space-in-cultural-heritage-cosch/

SASPRO projects

In the evaluated period, the Academy of Sciences of the Slovak Academy of Sciences was the host institution of two SASPRO scholarship holders.

9. SASPRO 0104/301/03 Archival data on archaeological sites, finds and treasures of Slovakia
Duration: 2015–2018
Principal investigator: Dr. Péter Prohászka
The "archive archaeology" plays an increasing role in the international research. Its meaning is in gathering and publishing of all the written sources, located in various museums and other archives, mentioning the archaeological finds and sites. With the help of these written sources and reports it is possible to enlarge and precise the knowledge about older sites, archaeological contexts and to reconstruct the finding entities. With the support of correspondences and reports it is possible to clarify the find circumstances and to identify the artifacts in the collections of museums. These important sources are up to now untapped in the case of Slovakia. The area of the present Slovakia was until the year 1918 an integrated part of the Hungarian Kingdom, respectively the Habsburg monarchy, what was the reason why a part of the discovered archaeological finds were obtained by institutions in Vienna or Budapest (Münz und Antikenkabinet in Vienna or Hungarian National Museum in Budapest). Archival records about these finds are in the archives and libraries in Vienna and in Budapest. With the support of SASPRO these records were explored, the artifacts in the museums were identified and the results were published. It is an important aim to create a database also in the IA SAS with these archival records. The obtained information were analysed in the close cooperation with the expert scientists of the Institute of Archaeology SAS.
More information:
https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=20&news_no=7870
https://www.saspro.sav.sk/FellowshipInfo/sk?Oid=fd5ba714-4c09-4add-b8a1-a6bb6102d699

10. SASPRO 1340/03/03 Male Identities in La Téne period cemeteries in the Middle Danube area
Duration: 2016–2018
Principal investigator: Priv.Doz. Mag. Dr. Peter C. Ramsl
Discourse on male identities in the Iron Age has been dominated by thoughts about warrior identity. Only a fraction of male bodies, however, are staged as warriors in graves. This project explored alternative male identities. Which roles play men without weapons in this "warrior societies"? Is there the same or a different status of disarmed men with finger rings made of precious metal? First of all, different life-stage identities were analysed like "boy identity", "adult identity" and "old man identity" and as a very special – but very fascinating case "poor man identity". "Special identities" with unclear affiliation (male with "female" ring costumes, female with weapons etc.) which came along the last years, also give us the idea of multiple male identities. A

special case are “druid identities”, where remains of special medical-chirurgical instruments can be observed. We can also mention “craftsmen identities”, where special tools may let us identify professions resp. reflections of it. The main objectives of this project was to analyse this cases against the background of common models with the methods of ranking and in the field of gender analysis. A big advance is the enormous corpus of La Téne period graves or cemeteries in the working area of Slovakia, Eastern Austria and Moravia. Here the method of gender archaeology is to mention, which has become of very important impact to scientific research.
More information:
https://www.saspro.sav.sk/FellowshipInfo/sk?Oid=8ca6edb2-4a68-4c13-a9e9-4369758fb488

Researches of the Academy of Sciences of the Slovak Academy of Sciences outside Europe

11. Kuwaiti-Slovak archaeological Mission, and ***Slovak research in the Sudanese site Duweym Wad Haj, s***ee chapter 1.8., 2.6.1.

Selected international projects and research collaborations

12. Fidvár by Vráble – A Settlement at the Crossroads of the Early European Metallurgical Provinces: Intercultural Dynamics and Environmental Changes in one of the Landscape-Ecological Regions of key importance in Eastern Central Europe
Cooperation on the interdisciplinary research of an important settlement with the most significant Bronze Age settlement phase with the Römisch-Germanische Kommission, Deutsches Archäologisches Institut, Frankfurt am Main and other German institutions. The research at Vráble has brought new insights: the proto-urban type of building appears in Central Europe 300 years earlier than previously known. A building type similar to the one in Vráble is also encountered in Anatolia (Demirci Hüyük) and in the Trans-Ural region of Russia (Sintashta) in the same period. Paleogenetic analysis has shown that one of the individuals buried in Vráble in the period of the Únětice culture came to the area of Upper Žitava valley from the Eurasian region, i.e. from the northern Caucasus.
Seleced outputs:
BÁTORA, Jozef - TÓTH, Peter - RASSMANN, Knut - MÜLLER-SCHEEßEL, Nils. Vráble-Fidvár - centrálne sídlisko európskeho významu = Vráble-Fidvár - central place of the European importance. In Studia Historica Nitriensia: Supplementum - mimoriadne číslo časopisu venované životnému jubileu prof. Petra Romsauera: Sedem decénií Petra Romsauera, 2017, roč. 21/Supplementum, s. 19-33. (2017 - SCOPUS). ISSN 1338-7219.

13.-The Dynamics of Settlement Concentration Processes and Land-use in Early Farming Communities in the North-western Carpathian Basin
Spolupráca na projekte Institut für Frühgeschichte Christian Albrechts-Universität Kiel; 2013–2028.
Investigation of processes of settlement concentration and expansion includes also a focus on socio-environmental processes of great complexity and variability in detail. Currently, our knowledge about such processes in the Neolithic and the Bronze Age is still very insufficient. Even for a pure description of settlement patterns in a diachronic perspective, intensive fieldwork and data analysis within a multi-disciplinary and multi-scale approach is necessary. It can, however, be managed by a directed, intensive, and longterm effort. For a case study, the excellent preservation conditions in the Žitava Valley area enable us to study socio-economic and environmental processes leading to and away from social agglomerations, and social complexity among early farmers and early metallurgists.
Selected outputs:
https://doi.org/10.15184/aqy.2020.103
https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0226082
https://doi.org/10.1177/0959683619857239
Archaeology in the Žitava Valley I: The LBK and Želiezovce settlement site of Vráble. Ed. Martin Furholt, Ivan Cheben, Johannes Müller, Alena Bistáková, Maria Wunderlich, Nils Müller-Scheessel.

1. Aufl. Leiden: Sidestone Press, 2020. 541 p. Scales of Transformation in Prehistoric and Archaic Societies, Vol. 9. ISBN: 9789088908989.
https://www.sidestone.com/books/archaeology-in-the-zitava-valley-i

14.-A princely tomb from Poprad-Matejovce
International cooperation on the research of the unique find in Poprad; 2006–ongoing. Main research partner: Museum für Archäologie, Stiftung Schleswig-Holsteinische Landesmuseen Schloss Gottorf, Schleswig; Zentrum für Baltische und Skandinavische Archäologie, Schleswig. See more in chapters 2.3.1., 2.6.1.
Research is also funded by the **Slovak Academy of Sciences** within the **programme of support of the Seal of Excelence MSCA projects:**
SoE/2019/692/BELT 2019-2022 From the Late Roman Border to the Barbarian Inland: Study of the Leather and Textile Items Discovered in Germanic Elite Graves from the 4th and 5th Centuries with Focus on the Territory of Slovakia; 2019–2022
Principal investigator: Mgr. Tereza Štolcová, PhD.
Selected outputs:
Pieta, Karol – Štolcová, Tereza. Knieža z Popradu a jeho hrobka. Nitra: Archeologický ústav SAV, 2021. 160 s. Archeologické pamätníky Slovenska, Tom 12. ISBN 978-80-8196-053-6.

15. National Geographic Society grant EC-62092R-19 Exploring Bronze Age Society: The rise and fall of fortified settlement in Spišský Štvrtok (Slovakia)
Duration: 2019–2021
Principal coordinator: Mgr. Dominika, Oravkinová, PhD.)
Examining the artefacts along with the ruins of the Bronze Age settlement in Spišský Štvrtok at the Carpathian foothill by modern analytical approach revealed a whole range of previously unknown information. Especially after accomplishment of National Geographic Early Career Research Grant, noticeably more can be declared about the local technical system which defined past society. This involved past knowledge, raw material exploitation, manufacturing of artefacts, tools functions, and finally what monumental architecture were inhabitants able to construct using only this toolkit. The broad-spectrum interpretative potential of a new source base, especially those related to contact networks, is crucial for the establishment of further research of the Carpathian Early and Middle Bronze Age. Number of the partner institutions is involved in the project focusing on different partial topics.

Selected outputs:
ORAVKINOVÁ, Dominika – VLADÁR, Jozef. Some are more equal than others: Intrasettlement Social Organization in Spišský Štvrtok (EBA/MBA, Slovakia). In Cambridge Archaeological Journal, 2021, vol. 31, no. 2, p. 183-210. https://doi.org/10.1017/S0959774320000311
ORAVKINOVÁ, Dominika – VLADÁR, Jozef. The Phenomenon of Hoarding at the Fortified Settlement in Spišský Štvrtok. In Beyond Divides – The Otomani-Füzesabony Phenomenon: Current Approaches to Settlement and Burial in the North-eastern Carpathian Basin and Adjacent Areas. Ed. Klára P. Fischl, Tobias L. Kienlin. - Bonn: Habelt, 2019, s. 83-119. ISBN 978-3-7749-4241-7.

16. Activities with education impact
The IA SAS cooperates with universities at home and abroad. Research projects are also educational in nature. Within these projects, the so-called Summer Schools of Archaeology (e.g. on long-term excavations of sites in Bojná and Zvolen) are organized annually. Students of archaeology from different countries gain skills and knowledge about cultures in Central Europe directly on the sites. The exchange of experience and information also at the level of students has helped several of them to decide to start their doctoral studies at the Institute of Archaeology.
The staff of the Archaeological Institute of the Archaeological Academy of the Slovak Academy of Sciences are supervisors and consultants of foreign PhD students and lecture at universities abroad (Brno, Prague, Pilsen, Kraków).

17. International collaboration agreements
Bilateral and multilateral cooperation agreements are an important part of the functioning of the Institute in the Central European area (see chapters 2.1.5., 2.3.1.) These are mainly cooperation on the basis of the creation of research teams, exchange of information, organisation of events (exhibitions, conferences) but also the provision of archaeological material for processing.

Within this group, we can mention agreements that are targeted at field research of a specific site or to address a specific topic – from these we select:

- ***Interdisciplinary research of Late Palaeolithic stations – Trenčianske Bohuslavice, Kechnec (Seňa I)***

Archaeological research on important European settlements from the Late Palaeolithic. The research was carried out in cooperation with experts from institutions in Slovakia, Poland, Hungary and Germany. The aim was to establish the stratigraphic-chronological situation at the sites, to obtain characteristic chipped stone tools and organic material suitable for dating.

Selected outputs
https://doi.org/10.1080/00934690.2020.1733334
http://archeol.sav.sk/files/Trencianske_Bohuslavice_2017.pdf
https://doi.org/10.1016/j.quaint.2017.05.017
https://www.uispp.org/sites/uispp.org/files/downloads/kaminska_final.pdf
https://doi.org/10.1007/s41982-019-00044-2

- ***Transcarpathian socio-cultural conditions of the Baden culture population in the upper Vistula basin and in the Slovak territory of northern Tisza Valley (3300–2900 BC)***

Cooperation with the Archaological Museum in Kraków (NCN 2013/09/B/HS3/03401); 2014–2017.
The results of the project reflect the progress in addressing fundamental and even key questions concerning a number of until recently understudied phenomena recorded at BaC sites in the Upper Vistula and Upper Tisza basins. They reflect advances in the knowledge of absolute and relative dating, in the recognition of the channeling of foreign cultural influences into BaC environments, and also in the reconstruction of the causes and consequences of significant cultural regionalism.

- ***Transmission of steppe influences in Carpathian zone in 3rd millennium BC***

Cooperation on the project of the National Scientific Centre in Kraków (NCN; UMO-2020/37/B/HS3/03816; 2021–2024.
The project focuses on prospecting and research of mounds from the turn of the Eneolithic and Bronze Age occurring on the territory of the Eastern Slovak Lowland and in the southern part of the Ondavská vrchovina Highlands.

- ***Resilience of Tin Exchange Networks Along the Central European Amber Route***

Multilateral (SK, PL, CZ, SI, US, HR) research cooperation coordinated by the Department of Earth and Environmental Sciences, Brooklyn College of the City University of New York; 2021–2024.
It is focused on the tin isotopic analysis bronze artifacts of the Bronze and Iron Ages with the goal to determine the sources of this highly valued metal in Europe during the prehistory.

- ***Archeogenetic research***

Intitute cooperates with the archaeogenetic laboratory of Ron Pinhasi, Vienna, Austria (https://www.pinhasilab.at/research/), on the research of the population genetic structure in Europe since the Iron AgeTo address this, whole genomes from 204 individuals from Europe (including were collected. It was shown that most regions show remarkable inter-individual heterogeneity. Despite this high level of mobility, overall population structure across western Eurasia is relatively stable through the historical period up to the present, mirroring the geographic map.

18. Confereces

Scientific conferences serve as places for "networking" of scientists. During the period under review, the Institute of Archaeology of the Slovak Academy of Sciences organised or co-organised 15 national and 31 international conferences (see chapters 2.1.5., 2.3.2.).

19. International exhibitions

In the evaluated period, the IA SAS organised or participated in the organisation of a large number of exhibitions. Some of them had the character of large exhibitions with international impact and others belonged to smaller exhibitions of regional character (see chapters 1.8.- table; 2.1.5.).

2.3.2. List of international conferences (co)organised by the institute

1. Meeting of the European Archaeological Council (EAC), Nitra, Slovakia, 15. 1.–16. 1.2016.

2. 17th Internantional conference The Iron Age in Bohemia, Moravia and Slovakia. The theme: Centres of Power in the Middle La Téne. CELTS 2016. Trenčianske Teplice, Slovakia, 17. 5.–20. 5. 2016.

3. 35th International conference about Neolithic and Eneolithic in our Lands, Banská Štiavnica, Slovakia 26. 9.–29. 9. 2016

4. Multiple femininities – multiple masculinities: the diversity of gendered identities in the Bronze and Iron Ages., Klement, Ernstbrunn, Austria, 29. 9. – 30. 9.2016.

5. Archaeology of Failaka and Kuwaiti coast – current research, Nitra, Slovakia, 3. 10.–6. 10. 2016.

6. 28th International Symposium Basic Problems of the Early Historical Development in the Middle Danube Region, Nitra, Slovakia, 9.11.–12. 11. 2016.

7. Pipe lost, pipe found, Nitra, Slovakia, 14. 10.–16. 10. 2016.

8. Archaological studies concerning Early Middle Ages, Nitra, Slovakia, 18. 10.–20. 10. 2016.

9. 18th International conference The Late Iron Age in Middle Europe. CELTS 2017, Plumov, Bohemia, 16. 5.–19. 5. 2017

10. 49th International Conference on Medieval Archaeology - Archaeologia Historica on the topic: Production, processing and storage of food in the Middle Ages and Early Modern times. Zvolen, Slovakia, 18. 9.–22. 9. 2017.

11. 29. International Symposium Basic Problems of the Early Historical Development in the Middle Danube Region, Austria, 1. 11.–1. 11. 2017.

12. International lecture series: Current issues in Archaeology, Trnava, Slovakia, 1. 2.–30. 10. 2018.

13. Chieftain´s tomb from Poprad, Round table, Poprad, Slovakia, 26. 4.–27. 4. 2018.

14. 30 years of Nitra Castle research, Nitra, Slovakia, 6. 9.–8. 9. 2018.

15. Middle Slovakia in medieval times. Development of the settlement in the region before the granting of urban privileges to town of Zvolen. Zvolen, Slovakia, 14. 9. 2018.

16. Urnfield Culture and Hallstatt Period in Central Europe, Smolenice, Slovakia, 15. 10.–19. 10. 2018.

17. Transnational Stakeholder Workshop “Public archaeology and the use of innovative media and visualization tools", Nitra, Slovakia, 22. 10.–24. 10. 2018.

18. Diversity of Identities in Praehistory, Early History and Presence. Nitra, Slovakia, 29. 10.–30. 10. 2018.

19. Visual heritage 2018, Viedeň, Austria, 12. 11.–15. 11. 2018.

20. 30. International Symposium Basic Problems of the Early Historical Development in the Middle Danube Region, Brno, Bohemia 14. 11.–16. 11. 2018.

21. The Round table Kiel 2019, Kiel, Germany, 17. 1.–18. 1. 2019.

22. 20th International conference The Late Iron Age in Middle Europe. CELTS 2019. Stará Lesná, Slovakia, 14. 5.–17. 5. 2019.

23. 33th International conference about Neolithic and Eneolithic in our Lands 2019, Námestovo, Slovakia, 1. 9.–5. 9. 2019.

24. Archaeology Underwater Field School and workshop in Slovakia, Senec, Slovakia 22. 9.–28. 9. 2019.

25. International Conference SKAM 2019, Nitra, Slovakia, 21. 10.–23. 10. 2019.

26. 31. International Symposium Basic Problems of the Early Historical Development in the Middle Danube Region, Nitra, Slovakia, 19. 11.–22. 11. 2019.

27. International Obsidian Conference 2019, Sárospatak, Hungary, 27. 5.–29. 5. 2019.

International conferences supposed to be organised by the IA SAS in 2020 and 2021 have been postponed due to Covid 19 pandemic.

2.3.3. List of edited proceedings from international scientific conferences

Archaeology of Failaka and Kuwaiti coast – current research. Eds. Matej Ruttkay, Branislav Kovár, Karol Pieta. Nitra: Institute of Archaeology, Slovak Academy of Sciences ; Bratislava: VEDA, Publishing house of the Slovak Academy of Sciences ; Kuwait City: National council for culture, Arts and letters, 2019. 204 s. Archaeologica Slovaca Monographiae: Communicationes, Tomus XXIII. ISBN 978-80-8196-028-4

Archäologische Studien zum frühen Mittelalter: Internationale Konferenz Nitra vom 18. bis 20. Oktober 2016. Gabriel Fusek (Hrsg.). Nitra: Archeologický ústav SAV, 2017. 231 s. Archaeologica Slovaca Monographiae: Communicationes, Tomus XIX. ISBN 978-80-8196-009-3

Das nördliche Karpatenbecken in der Hallstattzeit: Wirtschaft, Handel und Kommunikation in früheisenzeitlichen Gesellschaften zwischen Ostalpen und Westpannonien. Hrsg. Elena Miroššayová, Christopher Pare, Susanne Stegmann-Rajtár. Budapest: Archaeolingua, 2017. 589 s. Archaeolingua, Volume 38. ISBN 978-615-5766-00-8

Doba popolnicových polí a doba halštatská: Zborník príspevkov z XV. medzinárodnej konferencie Doba popolnicových polí a doba halštatská Smolenice 15.–19. október 2018. Ed. Vladimír Mitáš, Ondrej Ožďáni. Nitra: Archeologický ústav SAV, 2020. 239 s. Archaeologica Slovaca Monographiae: Communicationes, Tomus XXV. ISBN 978-80-8196-036-9

Kelti / The Celts / Die Kelten 2019: 20. medzinárodná konferencia Doba laténska v strednej Európe Stará Lesná 14. - 17. 5. 2019 - Book of abstracts. Lucia Benediková, Gertrúda Březinová, Karol Pieta (eds.). Nitra: Archeologický ústav SAV, 2019. 74 s. ISBN 978-80-8196-032-1

Kolaps očami archeológie. Branislav Kovár, Matej Ruttkay (editori) ; Nitra: Archeologický ústav SAV ; Bratislava: VEDA, vydavateľstvo SAV, 2019. 210 s. Archaeologica Slovaca Monographiae: Communicationes, Tomus XXII. ISBN 978-80-8196-027-7

Ľudia a hory - archeologická perspektíva: Interakcie ľudských spoločenstiev horských a podhorských oblastí západného Slovenska. Igor Bazovský, Gertrúda Březinová (editori). Bratislava: Slovenské národné múzeum – Archeologické múzeum ; Nitra: Archeologický

ústav SAV, 2019. 241 s. Zborník Slovenského národného múzea: Archeológia, Supplementum 12. ISBN 978-80-8060-458-5. ISSN 1336-6637

Multiple Identities in Prehistory, Early History and Presence: proceedings of the saspro workshopsin Klement (Austria) 2016 and Nitra (Slovakia) 2018. Eds. Gertrúda Březinová, Alena Bistáková, Peter C. Ramsl. Nitra: Archeologický ústav SAV, 2020. 140 s. Archaeologica Slovaca Monographiae: Communicationes, Tomus 24. ISBN 978-80-8060-473-8

Otázky neolitu a eneolitu našich krajín 2017–2019. Ed.Ivan Cheben, Pavlína Kalábková, Milan Metlička ; Nitra: Archeologický ústav SAV ; Olomouc: Univerzita Palackého ; Plzeň: Západočeské muzeum, 2020. 280 s. Archaeologica Slovaca Monographiae: Communicationes, Tomus XXVI. Online: <http://www.cevnad.sav.sk/aktivita_1_1/Otazky%20neolitu%20a%20eneolitu.pdf>. ISBN 978-80-89315-41-3

Otázky neolitu a eneolitu našich krajín - 2013: Zborník referátov z 32. pracovného stretnutia bádateľov pre výskum neolitu a eneolitu Čiech, Moravy a Slovenska. Ivan Cheben (editor). Nitra: Archeologický ústav SAV, 2017. 300 s. Archaeologica Slovaca Monographiae: Communicationes, Tomus XVI. ISBN 978-80-8196-006-2

Sídla, artefakty a čas...: Zborník štúdií o dobe bronzovej a dobe halštatskej k 75. narodeninám Ladislava Veliačika. Lucia Benediková, Milan Horňák (editori). Nitra: Archeologický ústav SAV ; Vrútky: Via Magna, s.r.o., 2018. 340 s. Archaeologica Slovaca Monographiae: Communicationes, Tomus XXI. Online: <http://archeol.sav.sk/files/Fusek-Holescak-2018.pdf>. ISBN 978-80-8196-020-8

16th SKAM Lithic Workshop "Fossil directeur" - A phenomenon over time and space: 21-23 of October 2019, Nitra, Slovak Republic. Abstract book. Adrián Nemergut, Ivan Cheben, Jaroslava Ruttkayová, Katarzyna Pyzewicz (eds.). Nitra: Institute of Archaeology, SAS, 2019. 60 s. ISBN 978-80-8196-034-5

30 rokov výskumu Nitrianskeho hradu 1988-2018: 30 years of research at Nitra Castle 1988-2018. Ed. Peter Bednár, Matej Ruttkay ; Nitra: Archeologický ústav SAV, 2021. 236 s. Archaeologica Slovaca Monographiae: Communicationes, Tomus XXVII. ISBN 978-80-8196-055-0

49. medzinárodná konferencia archeológie stredoveku: Produkcia, spracovanie a skladovanie potravín v stredoveku a včasnom novoveku: Konferenčné materiály. Ed.Matej Ruttkay, Milan Hanuliak, Ján Beljak, Lucia Nezvalová, Marek Vojteček. Nitra: Archeologický ústav SAV, 2017. 52 s. ISBN 978-80-8196-005-5

2.3.4. List of journals edited/published by the institute and information on their indexing in WOS, SCOPUS, other database or no database, incl. impact factor and other metrics of journals in each year of the assessment period

Slovenská archeológia
Offcial publisher: Institute of Archaelogy SAS
Peer-reviewed journal
Periodicity: 2 issues per year
ISSN/e-ISNN: ISSN 1335-0102 (print) / ISSN 2585-9145 (online)
http://archeol.sav.sk/index.php/en/publications/the-slovenska-archeologia-journal-2/
https://www.scimagojr.com/journalsearch.php?q=21100855504&tip=sid&clean=0
https://www.scopus.com/sourceid/21100855504
https://jcr.clarivate.com/jcr-jp/journal-profile?journal=SLOV%20ARCHEOL&year=2020&fromPage=%2Fjcr%2Fhome

Year	Database	Q	SCI JR	SCOPUS Cite Score
2016	ERIH PLUS CEJSH	none	none	none
2017	ERIH PLUS CEJSH	none	none	none
2018	SCOPUS ERIH PLUS CEJSH	Q3 (Arts & Humanities – Archaeology, Social Sciences – Archaeology)	0.125	0.3
2019	SCOPUS ERIH PLUS CEJSH	Q2 (Arts & Humanities – Archaeology, Social Sciences – Archaeology)	0.167	0.6
2020	SCOPUS WoS (ESCI) ERIH PLUS CEJSH	Q2 (Arts & Humanities – Archaeology, Social Sciences – Archaeology)	0.306	0.4
2021	SCOPUS WoS (ESCI) ERIH PLUS CEJSH EBSCO	Q2 (Arts & Humanities – Archaeology, Social Sciences – Archaeology)	0.214	0.3

Študijné zvesti AÚ SAV
Offcial publisher: Institute of Archaelogy SAS
Peer-reviewed journal
Periodicity: 2 issues per year
ISSN/e-ISNN: ISSN -0560-2793 (print) / -
http://archeol.sav.sk/index.php/en/publications/the-studijne-zvesti-au-sav-journal/
https://www.scimagojr.com/journalsearch.php?q=21100860048&tip=sid&clean=0
https://jcr.clarivate.com/jcr-jp/journal-profile?journal=STUD%20ZVESTI%20ARCHEOL&year=2020&fromPage=%2Fjcr%2Fhome
https://www.scopus.com/sourceid/21100860048

Year	Database	Q	SCI JR	SCOPUS Cite Score
2016	CEJSH	none	none	none
2017	CEJSH	none	none	none
2018	SCOPUS WoS (ESCI) CEJSH	Q4 (Arts & Humanities – Archaeology, Social Sciences – Archaeology)	0.102	0.1
2019	SCOPUS WoS (ESCI) CEJSH	Q1 (Arts & Humanities – Archaeology) Q2 (Social Sciences – Archaeology)	0.292	0.4
2020	SCOPUS WoS (ESCI) CEJSH	Q3 (Arts & Humanities – Archaeology, Social Sciences – Archaeology)	0.139	0.4
2021	SCOPUS WoS (ESCI) CEJSH EBSCO	Q2 (Arts & Humanities – Archaeology, Social Sciences – Archaeology)	0.205	0.5

- **National position of the institute**

2.3.5. List of selected activities of national importance

- Systematic archaeological research of castles for the needs of conservation and presentation (see chapter 1.8. Cluster for the research of the Middle Ages).

- Rescue archaeological investigations – protection of cultural heritage from destruction during construction and modernization of the landscape. In the evaluated period, the IA SAS carried out up to 606 field research activities. The vast majority of these were rescue activities (see chapters 2.4.7. and 2.4.8.).

- Thematic exhibitions in regional museums – help to bring regional culture and the importance of protecting and preserving cultural heritage for future generations closer to the population. Several exhibitions have been installed in non-traditional places e.g. several poster exhibitions have been installed on bus stops, in the airport hall in Poprad, in supermarkets, etc. With these exhibitions we are trying to bring cultural heritage closer to the wider public (see chapters 1.8., 2.7.1.).

- National scientific conferences – meetings of archaeologists dealing with the problems of archaeology of Slovakia, at the level of various institutions (museums, monuments boards, universities; see chapter 2.3.10.).

- Building archaeoparks for the needs of education, presentation, preservation of cultural heritage. Within Slovakia, the IA SAS is involved in the presentation of archaeological cultural heritage in the parks of Nižná Myšľa, Liptovská Sielnica-Liptovská Mara-Havránok, Nitra-Martinský vrch, Štrba-Šoldov and Bojná (see chapters 2.1.5., 2.7.1.).

- Consultancy and expert activities in the field of preservation of cultural heritage – statements and assessments of construction activities in relation to archaeological monuments, activities of expertise for the needs of the authorities in criminal proceedings (see chapter 2.6.2.).

- Preparation of documents for legislative proceedings regarding the creation of the Monuments Act, the Construction Act, when declaring areas or sites as National Cultural Monument, UNESCO site, etc.

- Creation of a central database of archaeological sites on the territory of Slovakia with information made available to the public through the National Geoportal (see chapters 1.8., 2.1.5.)

- Expertise in several projects of monumental modifications for the needs of tourism, e.g. Total reconstruction of the medieval castle on the hillfort Havránok, Liptovská Mara, financed by the Žilina Self-Governing Region, preparation of the archaeological open-air-museum in Bojná (investor: Municipality of Bojná), preparation of the reconstruction of the gate of the hillfort Valy in Bojná (project of the Municipality of Bojná, financed by the Ministry of Culture of the Slovak Republic), as well as the monumental treatment of the extinct medieval settlement Šoldov (investor: Municipality of Štrba).

2.3.6. List of journals (published only in the Slovak language) edited/published by the institute and information on their indexing in WOS, SCOPUS, other database or no database, incl. impact factor and other metrics of journals in each year of the assessment period

None of below listed jurnals is involved in any database and so has any metrics available.

Archaeologické výskumy a nálezy na Slovensku

Offcial publisher: Institute of Archaelogy SAS

Peer-reviewed periodical

Periodicity: 1 issue per year

ISSN/e-ISNN: ISSN 0231-925X (print) / -

http://archeol.sav.sk/index.php/sk/publikacie-2/avans/

Východoslovenský pravek

Offcial publisher: Institute of Archaelogy SAS

Peer-reviewed periodical

Periodicity: irregular

ISSN/e-ISNN: ISSN 2644-4623 (print) / -

http://archeol.sav.sk/index.php/sk/publikacie-2/vychodoslovensky-pravek/

Slovenská numizmatika

Offcial publisher: Institute of Archaelogy SAS – Anton Točík's Society – National Numismatic Committee of the Slovak Republic

Periodicity: 1 issue in 2 years

ISSN/e-ISNN: - (it is published under ISBN numbers)

http://archeol.sav.sk/index.php/en/publications/slovak-numismatics/

- **Position of individual researchers in the international context**

2.3.7. List of invited/keynote presentations at international conferences, as documented by programme or invitation letter

YEAR 2016

BÁTORA, J.: Neue Forschungen zu frühbronzezeitlichen befestigten Siedlungen in der Südwestslowakei. Conference Prehistoric Conflicts Research, Bronze Age Hillforts between Taunus and Carpathian Mountains. 1th International LOEWE Conference with the cooperation of the Romano –Gemanic Commission and the Goethe University. 7. –9. 12. 2016.
BÁTORA, J./TÓTH, P.: Neolithic before Neolithic? The evidence of first farmers in south –western Slovakia. 22nd Annual Meeting of the European Association of Archaeologists Vilnius 31. 8 –4. 9. 2016.
BÁTORA, J./BAČA, M.: Looking for a spa? A social cohesion at Santovka – case study. 22nd Annual Meeting of the European Association of Archaeologists. Vilnius 31. 8 –4. 9. 2016.
BÁTORA, J./POKUTTA, D.: Isotopic Analyses and Forensic Profiling Techniques in Archaeology of Mass Burials: Grave no. 528 from Jelšovce. Conference Central Europa TAG (Theoretical Archaeology Group), Bratislava 8. – 9. 11. 2016.
BENEDIKOVÁ, L./DAŇOVÁ, K./KOVÁR, B.: Pottery of Al –Khidr. Archaeology of Failaka and Kuwaiti coast. Nitra 3. –6. 10. 2016.
ELSCHEK, K. Nitra, 28. Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum. Von der Severerzeit zur Zeit der Soldatenkaiser. Die germanische Siedlung und „römisch –germanische“ ländliche Niederlassung von Bratislava –Devínska Nová Ves 9. 12. 2016.
ELSCHEK, K. Nitra, 28. Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum. Von der Severerzeit zur Zeit der Soldatenkaiser. Die germanische Siedlung und „römisch –germanische“ ländliche Niederlassung von Bratislava –Devínska Nová Ves 9. 12. 2016.
FUSEK, G.: Hillfort in Divinka, northwestern Slovakia. Symposion: Our Heritage the Slavs. Kranj, 28.– 30. 10. 2016.
FUSEK, G.: Kleiner Hortfund vom Burgwall in Divinka. Conference „Archäologische Studien zum frühen Mittelalter“. Nitra, 18.– 20. 10. 2016.
HOLEŠČÁK, M.: Mongol arrowheads in area of today´s Slovakia. Conference „Mongol expansions and its influence on development in Eurasian area in the 13th and 14th centuries“. Ostrava, 5.– 8. 10. 2016.
HOLEŠČÁK, M.: Late nomad arrowheads in area of Slovakia. Conference „Archäologische Studien zum frühen Mittelalter“. Nitra, 18. – 20. 10. 2016.
HÜSSEN, C. /M./KOMORÓCZY, B./ RAJTÁR, J./ VLACH, M.: Nové poznatky o římských krátkodobých fortifikacích z období markomanských válek na území západně od Malých Karpat. XII. Protohistorická konference Archeologie barbarů. Přechodné a zánikové horizonty u barbarů. Mikulov, 6. –8.10. 2016.
JAKUBČINOVÁ, M.: Die Bestandteile der Pferde – und Reiterausrüstung aus dem frühmittelalterlichen Burgwall Valy bei Bojná = The *horse* riding *equipment* from the Early Medieval Bojna –Valy hillfort. Archäologische Studien zum frühen Mittelalter: 18.–20. októbra 2016. Nitra 2016.
KRČOVÁ, D./BIELICHOVÁ, Z.: The archaeological and environmental evidence of the finds from Germanic settlement in Hurbanovo. In Archäologische Studien zum frühen Mittelalter: Nitra 18.–20. októbra 2016. – Nitra: Archeologický ústav SAV, 2016.
LUŠTÍKOVÁ, L.: 28. Kaiserzeitliche Besiedlung der Ostslowakei. Internationales Symposium Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum. Nitra 9. –12. 11. 2016.
NEMERGUT, A.: New excavations of Late Palaeolithic and Mesolithic sites in Horná Orava (Slovak Republic). 25th Annual Meeting of the German Mesolithic Workgroup. Krásná Lípa, 17. –19. 3. 2016.
NEMERGUT, A.: New excavations of Late Palaeolithic and Mesolithic sites in Bobrov and Trstená. 5th GEPAARD. Gánovce, 28.–29. 4.2016.

NERUDA, P./KAMINSKÁ, Ľ.: Neanderthals at Bojnice travertine sites. 5. Geologicko – Paleontologicko –Archeologická Diskusia 2016. Gánovce 28. – 29. 4. 2016.
PIETA, K./RUTTKAY, M.: Al Qusur. The Late Pre –Islamic and Early Islamic Site. Archaeology of Failaka and Kuwaiti coast – current research, Nitra 4.10. 2016.
PIETA, K./ŠVIHUROVÁ, M.: Abschlusshorizont der Púchov –Kultur. 28. Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum. Nitra 9. –12.11. 2016.
PIETA, K.: Bemerkungen zu den mittel – und spätlatènezeitlichen Burgwällen im Waag – und Nitra –Tal. 17. International Conference KELTI/CELTS 2016, Trenčianske Teplice, 18.5.2016.
PIETA, K./ROBAK, Z.: 10 lat wykopalisk na grodzisku Bojná. Conference „Grody Czerwieńskie – złote jabłko polskiej archeologii". Kraków, 7. – 9. 12 2016.
PIETA, K./RUTTKAY, M./ROBAK, Z.: Kuwait – Al –Qusur excavation in 2016. Conference Archaeology of Failaka and Kuwaiti coast – current research. Nitra, 3. – 6. 10. 2016.
PROHÁSZKA, P.: Veränderungen und Prozesse im Barbaricum des Karpatenbeckens unter Tiberius. Tiberius in Illyricum Die Gründung Pannoniens. Károli Gáspár Universität Budapest 11. – 12. 02. 2017.
PROHÁSZKA, P.: Esztergom und Umgebung im Laufe des 5. Jahrhunderts als Beispiel für Mikroanalyse eines Kreises. 3rd Annual Meeting of MPOV Project. Nieborów 17. –19.04. 2016.
PROHÁSZKA, P.: Coin Hoards in Italy. Die Auswirkungen der Markomannenkriege und der Antoninischen Pest auf römische und barbarische Gesellschaften nördlich der Alpen. Archäologisches institut der Akademie der Wissenschaften der Tschechischen Republik. Brno 12. –15. 10. 2016.
PROHÁSZKA, P.: Das landnahmezeitliche Grab von Batta (1868) im Spiegel der Archivalien – Die Möglichkeiten einer Rekonstruktion. Archäologische Studien zum frühen Mittelalter. Nitra 18. –20. 10. 2016.
RAJTÁR, J.: Die archäologischen Zeugnisse der Markomannenkriege jenseits der mittleren Donau östlich der Kleinen Karpaten. The Impact of the Marcomannic Wars and the Antonine Plague on Roman and Barbarian Societies North of the Alpes. International Round Table, Brno, 12. –15. 10. 2016.
RAJTÁR, J.: Die römischen Kriegsoperationen gegen die Quaden während der Markomannenkriege. Grenzerfahrung und Erfahrungsgrenzen. Zur Archäologie und Geschichte von Interaktion in der europäischen Frühgeschichte. International Round Table – Frankfurt am Main, 13. –14. 9. 2016.
RAJTÁR, J.: Neue Forschungsergebnisse zu den temporären römischen Lager aus der Zeit der Markomannenkriege nördlich der mittleren Donau östlich der Karpaten. 28. Internationales Symposion Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum. Turning points along the Danube (post bellum Marcomannicum/post pugnam ad Hadrianopolem factam). A Comparison. Nitra, 9. –12.11.2016.
RAMSL, P. C.: Male identities in La Tène period cemeteries. Multiple femininities –multiple masculinities: The diversity of gendered identities in the Bronze and Iron Age. Ernstbrunn, Austria 29. –30. 9.2016.
RAMSL, P. C.: Krieg, Gewalt und Waffen in der Latènezeit. Conference Violence in Prehistory. Cluj 14. –17. 10. 2016.
RAMSL, P. C.: Latènezeitliche Gräber in Petronell –Carnuntum: Krieger, bewaffnete Männer oder einfach Rollenbilder einer Gesellschaft. MAMUZ, Tag der Niederösterreichischen Landesarchäologie 2016. Mistelbach 31. 5. 2016.
RAMSL, P. C.: Multiple Identities. Kelti/Celts 2016. Trenčianske Teplice 17. –20.5.2016.
RUTTKAY, M.: LIDAR und die frühmittelalterlichen Burgwälle. Archäologische Studien zum frühen Mittelalter. Nitra 18.–20. 10. 2016.
RUTTKAY, M./PIETA, K./ROBAK, Z.: Nowe metody badań wczesnośredniowiecznych grodzisk zachodniej Słowacji. Conference „Współczesne metody badań wczesnośredniowiecznych grodów Europy Środkowo –Wschodniej. Wrocław, 5. – 8. 9. 2016.
SOJÁK, M./NEMERGUT, A./CHEBEN, M.: Mezolit w Karpatach – Zabytki kamienne z dorzecza Czarnej Orawy i z doliny środkowego Wagu. Lecture, Jagielonsk University. Kraków, 5. 12. 2016.
VARSIK, V.: Markomannenkriege und die quadischen Siedlungen in der Slowakei. Conference „The Impact of the Marcomannic Wars and the Antonine Plague on Roman and Barbarian Societies North of the Alpes, Round table", Brno 12. –15. 10. 2016.
VLKOLINSKÁ, I.: Some observations about pottery from the Nitra –Lupka site – from the cemetery and from the pottery killns. Conference „Archäologische Studien zum frühen Mittelalter". Nitra, 18.–

20. 10. 2016
VLADÁR, J./ORAVKINOVÁ D.: Contribution to the art and its expressions at the end of Early Bronze Age on example of artefacts from fortified settlement in Spišský Štvrtok. „Inspiracje i funkcje sztuki pradziejowej i wczesnosredniowiecznej“. Biskupin 27. –29. 6. 2016

YEAR 2017

BAČA, M./BÁTORA, J.: Social cohesion in the Early Bronze Age. Santovka as case study. „Frühbronzezeit in Mitteleuropa“. Tagung der 25. Internationalen Konferenz. „Staršia doba bronzová ve střední Evropě“.. Mistelbach/Rakúsko, 10. - 13. 10. 2017.
BÁTORA, J.: Problematik des Untergangs der befestigten Siedlungen aus dem Ende der frühen Bronzezeit in nordkarpathischen Gebiet. Reicke´s Erbe. Terminologie, Chronologie und Identität in Mitteleuropa zwischen 2300 – 1600 v. Chr. Křtiny, 12 – 15. 6. 2017.
BÁTORA, J./RASSMANN, K./TÓTH, P.: Resuls of archaeological excavation in Rybník (2004-2017). „Frühbronzezeit in Mitteleuropa“ . 25. Internationale Konferenz. „Staršia doba bronzová ve střední Evropě“. Mistelbach 10. – 13. 10. 2017.
BÁTORA, J./BAČA, M.: The last excavation season in the Early Bronze Age fortified settlement in Santovka. Current situation and future perspectives. „Frühbronzezeit in Mitteleuropa“ . Tagung der 25. Internationalen Konferenz. „Staršia doba bronzová ve střední Evropě“. Mistelbach 10. – 13. 10. 2017.
BÁTORA, J./RASSMANN, K.: Vráble – an Early Bronze Age central settlement in SW Slovakia (excavations in 2007-2017). „Frühbronzezeit in Mitteleuropa“. Tagung der 25. Internationalen Konferenz. „Frühbronzezeit Mittelauropas“. Mistelbach 10. - 13. 10. 2017.
BEDNÁR, P./RUTTTKAY, M.: Nitra - ein frühmittelalterliches Machtzentrum: Eine Fiktion oder Wirklichkeit? Referát na konferencii: 29. Grundprobleme der frühgeschichtliche Entwicklung im mittleren Donauraum. Mistelbach 8. – 11. 11. 2017.
BEDNÁR, P. /HENNING, J. – RUTTKAY, M.: Bíňa im 9.-12. Jh. – Kontinuität der Machtzentrum? Biňa v 9.-12. storočí - kontinuita mocenského centra? Referát na konferencii: A 9. század és az átmenet a Kárpát-medencében és a Dunakanyarban. Visegrád, 22. – 23. 9. 2017.
BELJAK, J./BELJAK PAŽINOVÁ, N./PUTŠKO, M.: Nowe wyniki badan na stanowisku Pusty hrad w Zwoleniu (Słowacja). Medzinárodná Conference The Bronze Age and Early Iron Age in the Carpathian Mountains Krosno 16. – 17. 11. 2017.
DAŇOVÁ, K./DAŇOVÁ, M./STEHLÍKOVÁ, J.: Potential and Perspectives of Underwater Archaeology in Slovakia. 2nd Warsaw Seminar for Underwater Archaeology. Varšava 14.–15. 1. 2017.
ELSCHEK, K. Das Hinterland der Oppida von Bratislava und Devín im Südteil des slowakischen Marchlands. Ausgewählte Siedlungen und Funde aus der Spätlatènezeit und frühesten römischen Kaiserzeit. Round Table: Bratislava in the 1st century BC – Celtic oppida on the Middle Danube. Bratislava, 4. – 5. 7. 2017.
ELSCHEK, K**.** Die germanischen Fürstensitze des 1.-3. Jahrhunderts n. Chr. und die Funktion römischer, bzw. römisch-germanischer Bauwerke im südlichen Marchgebiet der Slowakei 29. Internationales Symposium „Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum. Mistelbach 8. – 12. 10. 2017.
FUSEK, G./HOLEŠČÁK, M.: Hillfort in Divinka in NW Slovakia. 4th International Scientific Conference on Mediaeval Archaeology: „Fortifications, defence systems, structures and features in the past”. Zagreb, 7. – 9. 6. 2017.
FUSEK, G./HOLEŠČÁK, M.: Die jüngste Befestigung des Burgwalls in Divinka, NW Slowakei. 29. Internationales Symposium: “Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum”. Mistelbach 8. – 11. 11. 2017.
CHEBEN, I.: Die West-Slowakei in der Epoche der Glockenbecher-Kultur und der Kosihy-Čaka-Kultur. Medzinárodná Conference Archaeologie et Gobelets. Kiel, 16. – 21. 05. 2017.
CHEBEN, I.: Siedlung und Gräberfeld der Aunjetitzer Kultur in Pata. Reinecke´s Erbe, Terminologie, Chronologie und Identität in Mitteleuropa zwischen 2300 und 1600 v. Chr. Křtiny, 12. – 15. 06. 2017.
LITVIAKOVÁ, Z./PAŠTEKA, R./KUŠNIRÁK, D./FELCAN, M./KRAJŇÁK, M. Geophysical survey at bronze age sites in southwestern Slovakia: case studies of fortified settlement in Hoste and burial ground in Majcichov: ,,12th International Conference of Archaeological Prospection´´ University of Bradford, 11. 9. – 18. 9. 2017.

KAŇÁKOVÁ, L./BÁTORA, J.: Lithic projekctiles and other chipped-stone industry of Nitra Culture. Gender and technology. „Frühbronzezeit in Mitteleuropa“. Tagung der 25. Internationalen Konferenz. „Staršia doba bronzová ve střední Evropě“. Mistelbach, 10. – 13. 10. 2017.
MINAROVIECH, J./RAJTÁR, J.: Style and technique of Roman architecture at the acropolis of oppidum in Bratislava. Conference: Bratislava in the 1st century BC – Celtic *oppida* on the Middle Danube. International Round-Table. Bratislava, 4. – 5. 9. 2017.
PAŠTEKA, R./HRONČEK, S./FELCAN, M./MILO, P./WILKEN, D./PUTIŠKA, R. A new semi-automated interpretation of concave and convex features in digital archaeogeophysical datasets: ,,12th International Conference of Archaeological Prospection´´ University of Bradford,11.9. – 18.9.2017.
PETŘÍK, J./CHMELA, T./HLÁSEK, D./DAŇHEL, M./TÓTH, P./NOVÁČEK, T./BÁTORA, J.: Local tradition of pottrery making and regional exchange in the Early Bronze Age (Strawberry tarts an cutlet with dumplings). „Frühbronzezeit in Mitteleuropa“ . Tagung der 25. Internationalen Konferenz. „Staršia doba bronzová ve stření Evropě“.. Mistelbach 10. – 13. 10. 2017.
TIRPÁK, J./BIELICH, M./MARTINAK, M./BEŠINA, D.: Results of the GPR survey of former Romanesque churches in Slovakia. 12th International Conference of Archaeological Prospection. Bradford, 12. – 16. 9. 2017.
PIETA, K./ROBAK, Z.: 10 lat wykopalisk na grodzisku Bojná. Grodziska, osady i cmentarzyska. Wybrane problemy badawcze. Lublin, 13. 1. 2017
PIETA, K.: The Late Iron Age in Devín. Bratislava in the 1st Cent. BC – Celtic oppida on the Middle Danube, round table. Bratislava, 4. 9. 2017.
PIETA, K./RUTTKAY, M.: The latest discoveries of the Slovak Archeological Mission in “Failaka Island”. 1st Archaeological Conference, Kuwait City, 21. 3. 2017.
RUTTKAY, M./PIETA, K./ROBAK, Z.: Reconstructions and making archaeological sites available to the public in the Early Medieval strongholds of Nitra-Martinský vrch and Bojná-Valy in Slovakia. „Early Medieval Central Places in Today's Rural Areas. Die Červenischen Burgen – der goldene Apfel der polnischen Archäologie. Zamość, 20. – 22. 9. 2017.
RAMSL, P.: La Tène cemeteries in Central Europe: new perspectives on diversity“. Keltové/CELTS 2017. Plumlov 16. – 19. 5. 2017.
RAMSL, P.: Late La Tène material from Palais Rasumofsky, Wien III”. Bratislava au Ier siècle avant J.-C. & les oppida celtiques du Moyen-Danube. Bratislava 12. – 13. 6. 2017.
RAMSL, P.: Interregional relations and connections in Central Europe's Iron Age. Muzeului Judeţean Mureş: „Connectivity in Iron Age. Targu Mures (Rumunsko), 12. – 15. 10. 2017.
RAMSL, P.: La Tène cemeteries in Eastern Austria and SW-Slovakia. Workshop MPI “Celtic population history. Jena (Nemecko), 22. 11. 2017.
RUTTKAY, M.: The East of the West. The Legasy of Charlemagne. New results of archaeological excavation in Zemplín. Východoslovenské múzeum Košice, 3. – 4. 10. 2017.
RUTTKAY, M./BEDNÁR, P: „Die Burgwälle des 9.-10. Jahrhunderts in der Slowakei: Neue Ansichten zu den Zentren“ Conference: Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum. Mistelbach, 8 – 10. 11. 2017.
VLKOLINSKÁ, I./SPIŠIAK, J.: The comparation of the vessels from Nitra locality - The cemetery and the pottery kilns on the basis of the archaeological and natural methods. The 3rd International Symposium on Pottery and Glass: „Ceramics and Glass in Interdisciplinary Research“. Wroclaw, 28. – 29. 9. 2017.
WAWRZCZAK, M./SOJÁK, M. Historia i stan badań nad słowacką częścią Pienin na tle porównawczym z Pieninami polskimi. In. Międzynarodową Konferencję Naukową. Nowy Targ, 13. – 14. 10. 2017.

YEAR 2018

BAČA, M./BÁTORA, J.: Health, power and welfare from the perspective of Early bronze Age cemeteries in SW Slovakia. XVIII Congres UISPP Paris Juin 2018.
BIELICH, M.: The Post-medieval Pottery from the Nitra Castle (the Archaeological Excavation in 2010 and 2013). Conference: Postmediaevalis. Post-medieval pottery between (its) borders. Prag, 17. 4. 2018.
BIELICHOVÁ, Z./DUCHOŇOVÁ, D./BIELICH, M.: Archaeological and historical records of turkey (Meleagris gallopavo) from Slovakia. International Workshop: Exploring the transatlantic history of the Turkey through archaeological evidence. York, 12. 6. 2018.

BISTÁKOVÁ, A./BLAŽOVÁ, E./BEDNÁR, P./RUTTKAY, M.: An evidence of archaeological activities in Slovakia, Visual Heritage, Digitize: Research – Record – Reactivate – Reconstruct hosted by CHNT 23 2018, Vienna – November 12.–15. 2018.

BORZOVÁ, Z./PIETA, K.: Landwirtschaftliches Gerät aus dem großmährischen Burgwall Bojná I und das Problem der Ernährung seiner Bewohner. 30. Internationales Symposium Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum Brno, 14. 11.–16. 11. 2018.

BUDAJ, M./HUNKA, J.: New finds of lead cloth seals from Slovakia. Conference: Numismatica Centroeuropaea III. Bystrzycza Kłodzka, 17.–21. 9. 2018.

ČAMBAL, R./KOVÁR, B.: Foreign pottery in the late La Tene environment of the Bratislava oppidum as exemplified by the finds at the site of Vydrica. Conference: Keltové 2018/AFEAF 2018. Praha, 9.-13.5.2018

DAŇOVÁ, K./DAŇOVÁ, M.: Identification of the Roads, Fords and Bridges based on Underwater Archaeology. Medzinárodná Conference: Rivers connect, rivers divide The river network of East Central and East Europe and its significance during the Middle Ages. On the 1000 yearś anniversary of Boleslaw The Braveś victorious battle on the river Bug. Poľsko, Hrubieszów, 27.–29. 6. 2018.

DAŇOVÁ, K./HLADÍKOVÁ, K./VÉLOVÁ, L./ERNÉE, M./STRÁNSKA, P.: Variability of Childrens Burial Rite of the Únětice Culture in Bohemia, Moravia and Slovakia. 11th Annual International Conference Society for the Study of Childhood in the Past. Natural History Museum, Vienna, 20.–22. 9. 2018.

HOLEŠČÁK, M: Archaeological Remains of the Mongol Presence in 13th Century “Upper Hungary”. American Centre for Mongolian Studies – Cultural Heritage, Ulanbátar, 15. 6. 2018.

HUKEĽOVÁ, Z.: An 11th-century cemetery for the sick and dying? 20th Annual Conference of the British Association of Biological Anthropology and Osteoarchaeology. Cranfield 15/09/2018.

CHEBEN, I./NEMERGUT, A./DAŇOVÁ, K.: Lithic raw material use at the prehistory in Poland and Slovakia. Flint in time and space. Warsow 30. 10. 2018.

KAMINSKÁ, Ľ.: Use of obsidian in the Palaeolithic and Neolithic of Slovakia. Preparatory meeting for IOC 2019. Budapest 10. 12. 2018.

KOMORÓCZY, B./VLACH, M./RAJTÁR, J./HÜSSEN, C.-M.: The latest discoveries and research results of the Roman military presence in Middle Danube barbaricum. Conference: 24. International Limes Congress Belgrade – Viminacium, 2.–9. 9. 2018.

KOVÁR, B.: Burial grounds from southern Slovakia and northern Hungary. Conference: Diversity of Identities in Prehistory, Early History and Presence. Nitra, 29.- 30. 10. 2018.

KROŠLÁKOVÁ, M.: Atypical dento-alveolar lesions indicating using teeth as a "third hand" in a possible craftsmen community from Tesárske Mlyňany. 20th Annual Conference of the British Association of Biological Anthropology and Osteoarchaeology. Cranfield 14/09/2018.

MINAROVIECH, J./RAJTÁR, J.: Roman Architecture in the Context of Celts in Bratislava: Style and Technique. 19. International Conference: Kelten/CELTS, Prag, 9. 5. 2018.

NEZVALOVÁ, L.: You shall not be buried on our ground - Unusual ways of burying dead in the Early Middle Ages. Life and death in mediaeval and early modern times. Záhreb 6. 6. 2018.

ORAVKINOVÁ, D.: „All humans are equal, but some are more equal than others“ Towards intra-site social organization at Spišský Štvrtok. Settlement layouts, system and structure of the Otomani-Füzesabony Cultural Complex. Miskolc, 7.– 9. 6. 2018.

PIETA, K. /BENEDIKOVÁ, L.: Early and Middle La Tène Period in the Slovak Carpathians –Pre-Púchov stage: current state of the art. 42e colloque international de l'Association Française pour l'Étude de l'Âge du Fer, Unité et diversité du monde celtique, Prague, 10.–13. 5. 2018.

PIETA, K./ŠVIHUROVÁ, M.: Influence of the Przeworsk Culture in the Púchov Culture Milieu. Przeworsk culture in the upper Tisa river basin in the Roman period. Sanok, 23.–25. 4. 2018.

PROHÁSZKA, P.: Angaben zur Fundgeschichte des Schatzes von Nagyszentmiklós. Kunsthistorisches Museum. Wien, 5. 12. 2018.

RAJTÁR, J./BIELICHOVÁ, Z./HAJNALOVÁ, M./KRČOVÁ, D.: Die Ernährung der Besatzung des römischen Holz-Erde-Lagers in Iža. 30. Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum" Brno, 14.–16. 11. 2018.

RAJTÁR, J.: Das Gräberfeld in Sekule. Conference: Das „Fürstengrab“ von Kariv, obl. Lwiw, und die römischen Bronzekessel mit Suebenkopfattaschen. Römisch Germanische Kommission des DAI, Frankfurt am Main 21. – 24.11. 2018.

RAJTÁR, J.: Ein Bronzefigürchen des gefesselten Barbaren aus Závod. XIV. Conference Archeologia barbarov, Brno 3.–5. 10. 2018.

ROBAK, Z./RUTTKAY, M.: The Nitra River - a lifeline of the Nitra Principality. Seminar Nr. 6: Die Červenischen Burgen – der goldene Apfel der polnischen Archäologie. Hrubieszów, 27.–29. 6. 2018.
RUTTKAY, M./HOLEŠČÁK, M.: Results of virtual archaeology in Slovakia. VirtualArch. Visualize to Valorize – For a better utilization of hidden archaeological heritage in Central Europe. Workshop, 23. 10. 2018.
TOMAŠOVIČOVÁ, T./FURMÁNEK, V.: Anthropomorphic applied motifs on the Neolithic Pottery. Some remarks on an Old Problem. International Conference From archaeology of objects to archaeology of ideas. Biskupin 11. 7.–13. 7. 2018.
TÓTH, P./ORAVKINOVÁ, D.: Settlement strategies at the end of the Early Bronze Age in Eastern Slovakia. Settlement layouts, system and structure of the Otomani-Füzesabony Cultural Complex. Miskolc, 7– 9. 6.2018.
WILCZYŃSKI, J./ŽAÁR, O./NEMERGUT, A./LENGYEL, G.: Trenčianske Bohuslavice – Gravettian hunter-gatherer campsite in the light of 2017 excavations. XVIII° CONGRES UISPP PARIS. 4.–9. 6. 2018.

YEAR 2019

BÁTORA, J.: Penetration of the Yamnaya culture into North-Carpathian region: preliminary knowledge. Yamnaja Interactions. University Helsinki 25 th – 26th 4. 2019.
BÁTORA, J.: Vráble – Zentralsiedlung aus der frühen Bronzezeit in der SW Slowakei. Humboldt-Kolleg. Piešťany 20. – 22. 9. 2019.
BEDNÁR, P.: Zu ausgewählten Problemen der Entwicklung der Burg Nitra im Mittelalter und zu Beginn der Neuzeit. Conference: Burg und Expansion. Brandenburg, 5.– 8. 4. 2019.
BELJAK, J./BELJAK PAŽINOVÁ, N./ŠIMUNKOVÁ, K.: *Something new about the castle crew. An archaeozoological perspective to castle and economy at the Deserted castle in Zvolen and Peťuša castle.* Conference Castrum Bene, Kutina 2019, 20. – 25. 5. 2019.
BELJAK, J./BELJAK PAŽINOVÁ, N.: A Zólyomi Puszta vár aktuális ásatás eredményei. Fiatal Középkoros Régészek 11. Konferenciája Veszprém 21.– 23. 11. 2019.
BIELICH, M./TIRPÁK, J.: Geophysical and archaeological research of the baroque church of Saint Nicolas in Kovarce, Slovakia. 13th International Conference on archaeological Prospection. Sligo 28. 8.–1. 9. 2019.
BŘEZINOVA, G. “Graves from the burial ground in Nitra-Zobor, Martinský vrch. 20. International Conference KELTI/CELTS, Stará Lesná 17. 5. 2019.
BŘEZINOVÁ, G./HRNČIARIK, E.: Bone and antler working workshop from Nitra (SK). The 13th Meeting of the Worked Bone Research Group (WBRG), University of Montreal, Canada, 7.-12. 10. 2019.
DAŇOVÁ, K./STEHLÍKOVÁ, J./DAŇOVÁ, M.: Significant Crossroads at the Lower Reaches of the River Váh. 3 th Warsaw Seminar on Underwater Archaeology. Warszawa 17. – 18. 1. 2019.
ELSCHEK, K. Siedlungsobjekte von der Wende der älteren und mittleren Latènezeit. 20. International Conference KELTI/CELTS, Stará Lesná 17. 5. 2019.
ELSCHEK, K.: Späte römische Kaiserzeit und frühe Volkerwanderungszeit im slowakischen Marchgebiet. 31. Internationales Symposion Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum, Nitra, 19.–22. 11. 2019.
FURMÁNEK, V./PAVELKOVÁ, J.: Demography of Urnfield Period in Slovakia. 6. International Congres Dr. Aleš Hrdlička. Humpolec, 3. – 6. 9. 2019.
HOLEŠČÁK, M.: Tatar coin hoard from Slovakia. Conference Nomads and their Neighbors in the Middle Ages. Sofia, Bulharsko, 20. – 23. 11. 2019.
HUKEĽOVÁ, Z./KROŠLÁKOVÁ, M.: Neolithic individual with possible Klippel-Feil syndrome and his place in community. 1st W.A.R.D. Berlin. 27.02.-01.03. 2019.
HUKEĽOVÁ, Z.: Life at Early Bronze Age site of Nižná Myšľa (Slovakia): Preliminary osteoarchaeological results. 6. International Congres Dr. Aleš Hrdlička. Humpolec, 3. – 6. 9. 2019.
CHEBEN, M.: Looking for a "Fossil directeur" in Neolithic lithic industries. International Conference 16th SKAM Lithic Workshop, 21.-23. 10. 2019, Nitra.
KAMINSKÁ, Ľ.: Use of obsidian from the Palaeolithic to the Neolithic in Slovakia. International Obsidian Conference 2019. Sarospatak (Maďarsko), 28. 5. 2019.
KAŇÁKOVÁ, L./BÁTORA, J./NOSEK, V.: Use-wear and ballistic research of Nitra culture projectiles - results. 26. International Symposion Staršia doba bronzová v Čechách, na Morave a

Slovensku. Modra 21.–24. 10 2019.
KOVÁR, B./DAŇOVÁ, K.: Pottery and stratigraphy of Al-Khidr – Preliminary report. The Fourth International Seminar on the Archeology of the Arabian Peninsula. Kuvajt City 26.- 28. 11. 2019.
KROŠLÁKOVÁ, M.: Wandering through Central Europe in the Middle Ages: possible burial of an Outlander. In 6th International Anthropological Congress of Dr. Aleš Hrdlička. IACAH (Humpolec, Česko 3 – 5. 9. 2019)
LAU, N./PIETA, K.: Das Fürstengrab von Poprad – der aktuelle Forschungsstand. 31. Internationales Symposion. Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum, Nitra, 20. 11. 2019
MÜLLER-SCHEESSEL, N. - CHEBEN, I. - HUKEĽOVÁ, Z. - FURHOLT, M.: Kopflose Skelette und aufgebahrte Leichen: Die Toten der bandkeramischen Siedlung von Vráble/Südwestslowakei im Vergleich mit gleichzeitigen Kollectiven. 85. Jahrestagung des WSVA gemeinsam mit dem MOVA Würzburg. 1.–5. 4. 2019.
NEMERGUT, A./CHEBEN, M: Unique grinded obsidian finds from Eneolithic site at Nitra-Selenec. International obsidian conference, Sárospatak, 27.–29. 5. 2019.
ORAVKINOVÁ, D.: „Order out of Chaos“. Modell of social organization in Early and Middle Bronze Age in the northeastern Carpathian Basin. 85. Jahrestagung des WSVA. Würzburg 1.-5. April 2019.
PIETA, K.: Münzfund aus Mošovce und sein Hintergrund. 20. International Conference KELTI/THE CELTS 2019, Stará Lesná 17. 5. 2019.
PIETA, K.: The Tomb of a Prince in Poprad (Slovakia). Workshop Locus Ludi. the Cultural Fabric of Play and Games in Classical Antiquity. ERC Advanced Grant, Université de Fribourg, 1.5. 2019.
PROHÁSZKA, P.: Aranyérmek késő római és kora népvándorlás kori sírokban. „Hadak útján. A népvándorláskor fiatal kutatóinak XXIX. konferenciája. Budapest, 15. – 16. 11. 2019.
PROHÁSZKA, P.: Bemerkungen zur Goldmünzbeigabe in römerzeitlichen und frühvolkerwanderungszeitlichen Gräbern in Mitteleuropa. „Das Ende und der Anfang. Abschlussphase der römischen Kaiserzeit im Mitteldonauraum.” 31. Internationales Symposion Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum. Nitra, 19.–21. 11. 2019
PROHÁSZKA, P.: Új adatok a nagyszentmiklósi kincs történetéhez. „Ősi írásaink a Kárpát-medencében” Budapest, 12. – 13. 12. 2019.
PYZEWICZ, K./NEMERGUT, A.: Moravany Dlhá leaf points under microscope. 16th Lithic SKAM Woekshop, Nitra, 21.–23. 10. 2019.
RAJTÁR, J.: Wo lagerten die Legionen von Mark Aurel? Conference: "Alexander von Humboldt, Vermessung der Welt (der Weg der Wissenschaft)". Humboldt Kolleg in der Slowakei, Piešťany 20.–22. 9. 2019.
ROBAK, Z.: Early medieval Hillfort Bojná-Valy – Seat of the Elites or a Garrison? Hadak útjan. A népvándorláskor fiatal kutatóinak XXIX. konferenciája. Budapest, Maďarsko, 15.-16.11.2019.
RUTTKAY, M./PIETA, K.: “Lates results of the Al-Qusur research (Slovak-Kuwaiti Archaeological Mission)”. 4th International Conference on the Archaeology of the Arabian Peninsula. Kuvajt City 26.11.2019.
RUTTKAY, M.: Experiences/best practise with 3D archaeology in Slovakia. Digital Heritage Economic value, technical trends and applications. Trento, 25. 9. 2019.
SOJÁK, M./VALDE-NOWAK, P.: Magdalenian key forms in Late Palaeolithic stone inventory in Huciva cave. In: 16th SKAM Lithic Workshop Nitra 21.–23. 10. 2019.
SOJÁK, M./CIEŚLA, M./KRASZEWSKA, A./RAK, K./SKLUCKI, J./VALDE-NOWAK, P.: Pierwsze wyniki wykopalisk w Jaskini Huciva w Tatrach Bielskich. In: 53. Sympozjum Speleologiczne, Szczawnica 10.–13. 10. 2019.
STEGMANN-RAJTÁR, S.: Collapse or continuity? Burying on the Hallstatt Period flat cemeteries in south-western Slovakia. Early Iron Age in Central Europe, Uniwersytet Wroclaw, 4.– 6. 7. 2019.
ŠTOLCOVÁ, T.: In vielen Blockbergungen versteckt: Textil- und Lederobjekte aus dem Fürstengrab von Poprad-Matejovce im Licht aktueller Forschung. 31. Internationales Symposion Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum. AÚ SAV Nitra, 20. 11. 2019.
VARSIK, V.: Spätantike germanische Residenzen in der Slowakei. 31. Int. Symposion Grundprobleme der frühgeschichtlichen Entwicklung im mittleren Donauraum, Nitra 19.-22. 11.

YEAR 2020

BIELICH, M.: Late Gothic and Renaissance Stove Tiles from Lietava Castle, Slovakia. Europa Postmediavalis 2020. Praha. Virtual conference.19.-21. october 2020.
BŘEZINOVÁ, G./GERE, M.: The La Téne period in Chotín, Komárno District. „Das kleine ist schön“ Keltische und frührömische Funde und Fundkomplexe. 26.-28.2.2020 Tatabányia, Maďarsko.
DROZD, D./NEUMANN, M./ BÁTORA, J.: Contribution of Archaeological prospection to the research of an Early Modern Battlefield near Veľké Vozokany. EAA Virtual Annual Meeting Budapest 24.– 30. 8. 2020.
HOLEŠČÁK, M.: Militaria with connection to the Mongol invasion of 1241-1242 north of Danube. European Association of Archaeologists virtual meeting, online, 26. – 30. 8. 2020.
HOLEŠČÁK, M.: Mongol Invasion of 1241-1242 North of the Danube: Orda Khan´s Trail to Esztergom. Mongols in Central Europe, Budapest online, 26. – 27. 2020.
HOLEŠČÁK, M./RUTTKAY, M.: Final report – WP2 output. Interreg – VirtualArch_6th meeting. 4. April 2020 – online.
ORAVKINOVÁ, D.: Exploring Bronze Age Society: The rise and fall of fortified settlement in Spišský Štvrtok (Slovakia). National Geographic Society: Virtual funding seminar – Central Europe. 22. 9. 2020.
ORAVKINOVÁ, D.: Exploring Bronze Age Society: The rise and fall of fortified settlement in Spišský Štvrtok (Slovakia). Project overview. National Geographic Society: Show and tell virtual meeting. 15. – 21. 5. 2020.
ORAVKINOVÁ, D./PETŘÍK, J.: Insights into pottery technology at the Early Bronze Age fortified settlement in Spišský Štvrtok. 26th EAA Annual Meeting: Virtual networking. 24. – 30. 8. 2020.
PYŻEWICZ, K./NEMERGUT, A./GRUŻDŹ, W./MIGAL, W.: To throw or to cut? An experimental approach on Szeletian leafpoints. 26th Annual Meeting in Budapest, Hungary. 26.–30. 8. 2020.
RUTTKAY, M. Archaeological Sources from the Territory of Slovakia (The 1st archaeological workshop of the HistoGenes ERC SyG project: Integrating genetic, archaeological and historical perspectives on Eastern Central Europe, 400-900 AD, Budapest 1. 10. 2020.
ZÁBOJNÍK, J.: Grave constructions at the cemetery from the Avar Khaganate period in Obid (Slovakia). Avars and Slavs. Two sides of a belt strap end: Avars on the nord and south of the Khaganate. Vinkovci. 7. Február 2020

YEAR 2021

BÁTORA, J.: Die Besiedlung des Gebietes von der Stadt Nitra in der frühen Bronzezeit. Conference: Starší a střední doba bronzová ve střední Evropě. Nymburg/ČR, 4.- 8. 10. 2021.
BŘEZINOVÁ, G.: Sídla Keltov na juhozápadnom Slovensku. XVI. Protohistorická Conference. Archeológia barbarov 2021. Trnava, 30. 9. – 2. 10. 2021.
BŘEZINOVÁ, G./GERE, M.: Graphite, an attractive material of the La Tène period in the territory of Slovakia. COMMUNICATION THROUGH THE AGES: PEOPLE, OBJECTS, IDEAS (From the Bronze Age to Late Antiquity), Trnava, 22nd–24th October 2021.
DEMIDENKO, Y./ŠKRDLA, P./RÁCZ, B./NEMERGUT, A./BÉRES, S.: Proto-Aurignacian in the Carpathian Basin of Eastern Central Europe. International Scientific Conference, Upper Palaeolithic of Europe: the time of cultural innovations, online, 6. – 8. 12. 2021.
DROZD, D./NEUMANN, M./BÁTORA, J.: What the lion is keeping quiet about – the Battle of Veľké Vozokany (1652) from perspective of KOCOA analysis. Conference: Archaeology of Conflicts. Hradec Králové.21.- 23. 10. 2021.
ELSCHEK, K.: Die germanischen Gräberfelder im Slowakischen Marchgebiet und die Zentralsiedlung mit Brandgräberfeld und Fürstengräbern vom 1-4. Jh. aus Zohor. Conference Gräber in Kontaktregionen. Wien 8. – 9. 11. 2021.
HOLEŠČÁK, M.: Alpra, Cuman bey in Hungary. Сходознавство на меж? (Oriental studies on the border of worlds and civilizations), online (Kiev), 27. – 28. 5. 2021.
HOLEŠČÁK, M.: Descendus Cumanorum: „ Man and his living space “. 52. International Conference Archaeology of Middle Ages, **o**nline, 20. – 22. 9. 2021.
HOLEŠČÁK, M.: Nomad helmet with Persian engravings from Budapest. Patterns of migration: Trajectories of Persian artefacts in the Pre-modern period, online Wiena 29. – 30. 10. 2021
HROMADOVÁ, B./NEMERGUT, A./KLARIC, L./MORAVCOVÁ-ÁBELOVÁ, M./VLAČIKY, M.: Upper Palaeolithic site complex near Moravany nad Váhom (Slovakia): old story, new challenges. 62nd

Annual Meeting of the Hugo Obermaier-Soicety, online, 6. – 8. 4. 2021.
CHEBEN, I./FURHOLT, M.: Tierdarstellungen im Mitteleuropäischen Frühneolithikum: Ein Neufund einer Schlangendarstellung aus Vráble, SW Slowakei. AG Neolithikum. virtual meeting, online, 4. 10. 2021.
PROHÁSZKA, P.: Alföldi András és a CIL III Pannonia tervei. auf Alföldy Géza emlékülés. Ungarisches Nationalmuseum am 5. November 2021, Budapest.
PROHÁSZKA, P.: A Felvidék régészeti felfedezése. auf der Konferenz Lokális kötődés és megmaradás von Honismereti Szövetség in Komárno 18-19. September 2021.
RAJTÁR, J.: Roman Fort in Iža. Workshop Projekt Living Danube Limes, Bratislava, 1. 7. 2021.
RAJTÁR, J.: Geophysical and Sonar Prospektion in Iža. Workshop Projekt Living Danube Limes, Iža, 13. 10. 2021.
ROBAK, Z.: Bojná - Anonymous' Mystery Hillfort Bana? 27th EAA Annual Meeting, Kiel, 6. – 11. 09. 2021.
ROBAK, Z.: The Great Moravian Hillfort Bojná -Valy and its Surrounding. 27th EAA Annual Meeting, Kiel, 6.–11. 09.2021.
RUTTKAY, M.: Archaeological sources from the Territory of Slovakia, first results, ERC Histogeenes online meeting. 3. 3. 2021.
SKORNA, H./BÁTORA, Jozef: Grosping consiliation in the Early bronze Age (from New Guinea to Slovakia). 29th EAA Virtual Annual Meeting Kiel 6. – 11. septembra 2021.
ŠTOLCOVÁ, T.: Poprad-Matejovce. Textilien und Leder aus den Blockbergungen. Prähistorische Archäologie, Römisch-Germanisches Zentralmuseum Leibniz-Zentrum für Archäologie, Mainz, 5.5.2021 (online).
ŠTOLCOVÁ, T./ZAJONC, J./VANDEN BERGHE, I.: Picking up the threads: the reconstruction of the 1,600-year old tapestry from Poprad-Matejovce based on new evidence. North European SYMPOSIUM FOR ARCHAEOLOGICAL TEXTILES XIV, Oulu, Fínsko, 23.–26.08.2021 (online).
VALDE-NOWAK, P./SOJÁK, M./CIEŚLA, M./KRASZEWSKA, M./LEMANIK, A./SKŁUCKI, J./NADACHOWSKI, A.: Late Magdalenian occupations in alpine type mountains of Central Europe – a case study of Hučiva Cave in Tatra Mountains (north Slovakia). In: Climate change and human occupation of mountain environments in prehistoric and protohistoric times HOME Commission (Human Occupation of Mountain Environment), UISPP, 4. 9. 2021. Online.
VARSIK, V.: Spätantike Residenzen im Quadenland. INTERNATIONAL CONFERENCE. COMMUNICATION THOUGH THE AGES: PEOPLE, OBJECTS, IDEAS., Trnava, 22.–23. 10. 2021 (online).

2.3.8. List of researchers who served as members of the organising and/or programme committees

YEAR 2016

BENEDIKOVÁ, L.: KELTI 2016. 17th Internantional conference The Iron Age in Bohemia, Moravia and Slovakia. 17.05.–20.05. 2016.
BENEDIKOVÁ, L.: Multiple femininities – multiple masculinities: the diversity of gendered identities in the Bronze and Iron Ages., Klement, Ernstbrunn, Austria, 29. 9. – 30. 9.2016.
BIELICH, M.: Pipe lost, pipe found, Nitra, Slovakia, 14. 10.–16. 10. 2016.
BŘEZINOVÁ, G.: KELTI 2016. 17th Internantional conference The Iron Age in Bohemia, Moravia and Slovakia. 17.05.–20.05. 2016.
DAŇOVÁ, K.: Meeting of the European Archaeological Council (EAC), Nitra, Slovakia, 15. 1.–16. 1.2016.
FUSEK, G.: Archaological studies concerning Early Middle Ages, Nitra, Slovakia, 18. 10.–20. 10. 2016.
CHEBEN, I35th International conference about Neolithic and Eneolithic in our Lands, Banská Štiavnica, Slovakia 26. 9.–29. 9. 2016.
CHEBEN, M.: 35th International conference about Neolithic and Eneolithic in our Lands, Banská Štiavnica, Slovakia 26. 9.–29. 9. 2016

SOJÁK, M.: 35th International conference about Neolithic and Eneolithic in our Lands, Banská Štiavnica, Slovakia 26. 9.–29. 9. 2016
KOVÁR, B.: Meeting of the European Archaeological Council (EAC), Nitra, Slovakia, 15. 1.–16. 1. 2016.
KOVÁR, B.: Archaeology of Failaka and Kuwaiti coast – current research, Nitra, Slovakia, 3. 10.–6. 10. 2016.
MITÁŠ, V.: Pipe lost, pipe found, Nitra, Slovakia, 14. 10.–16. 10. 2016.
PIETA, K.: KELTI 2016. 17. medzinárodná konferencia Doba laténska v Čechách, na Morave a na Slovensku. 17.05.–20.05.2016.
PIETA, K.: 28th International Symposium Basic Problems of the Early Historical Development in the Middle Danube Region, Nitra, Slovakia, 9.11.–12. 11. 2016.
RAMSL, P.: Multiple femininities – multiple masculinities: the diversity of gendered identities in the Bronze and Iron Ages., Klement, Ernstbrunn, Austria, 29. 9. – 30. 9.2016.
RUTKAY, M.: Meeting of the European Archaeological Council (EAC), Nitra, Slovakia, 15. 1.–16. 1.2016.
RUTKAY, M.: Archaeology of Failaka and Kuwaiti coast – current research, Nitra, Slovakia, 3. 10.–6. 10. 2016.
ZÁBOJNÍK, J.: Archaological studies concerning Early Middle Ages, Nitra, Slovakia, 18. 10.–20. 10. 2016.
ZAJACOVÁ, B.: Meeting of the European Archaeological Council (EAC), Nitra, Slovakia, 15. 1.–16. 1.2016.

YEAR 2017

BEDNÁR, P.: 49th International Conference on Medieval Archaeology - Archaeologia Historica. Zvolen, Slovakia 18. 09.–22. 09. 2017.
BELJAK, J.: 49th International Conference on Medieval Archaeology - Archaeologia Historica. Zvolen, Slovakia 18. 09.–22. 09. 2017.
HANULIAK, M.: 49th International Conference on Medieval Archaeology - Archaeologia Historica. Zvolen, Slovakia 18. 09.–22. 09. 2017.
HOLEŠČÁK, M.: 49th International Conference on Medieval Archaeology - Archaeologia Historica. Zvolen, Slovakia 18. 09.–22. 09. 2017.
NEZVALOVÁ, L.: 49th International Conference on Medieval Archaeology - Archaeologia Historica. Zvolen, Slovakia 18. 09.–22. 09. 2017.
PIETA, K.: 29. International Symposium Basic Problems of the Early Historical Development in the Middle Danube Region, Austria, 1. 11.–1. 11. 2017.
RUTTKAY, M.: 49th International Conference on Medieval Archaeology - Archaeologia Historica. Zvolen, Slovakia 18. 09.–22. 09. 2017.
RUTTKAY, M.: .: 29. International Symposium Basic Problems of the Early Historical Development in the Middle Danube Region, Austria, 1. 11.–1. 11. 2017.
VOJTEČEK, M.: 49th International Conference on Medieval Archaeology - Archaeologia Historica. Zvolen, Slovakia 18. 09.–22. 09. 2017.

YEAR 2018

BEDNÁR, P.: Transnational Stakeholder Workshop “Public archaeology and the use of innovative media and visualization tools", Nitra, Slovakia, 22. 10.–24. 10. 2018.
BEDNÁR, P.: 30 years of Nitra Castle research, Nitra, Slovakia, 6. 9.–8. 9. 2018.
FOTTOVÁ, E.: 30 years of Nitra Castle research, Nitra, Slovakia, 6. 9.–8. 9. 2018.
HOLEŠČÁK, M.: Transnational Stakeholder Workshop “Public archaeology and the use of innovative media and visualization tools", Nitra, Slovakia, 22. 10.–24. 10. 2018.
CHEBENOVÁ, P.: Urnfield Culture and Hallstatt Period in Central Europe, Smolenice, Slovakia, 15. 10.–19. 10. 2018.
KOVÁR, B.: Diversity of Identities in Praehistory, Early History and Presence. Nitra, Slovakia, 29. 10.–30. 10. 2018.
KUJOVSKÝ, R.: Urnfield Culture and Hallstatt Period in Central Europe, Smolenice, Slovakia, 15. 10.–19. 10. 2018.

MITÁŠ, V.: Urnfield Culture and Hallstatt Period in Central Europe, Smolenice, Slovakia, 15. 10.–19. 10. 2018.
OŽĎÁNI, O.: Urnfield Culture and Hallstatt Period in Central Europe, Smolenice, Slovakia, 15. 10.–19. 10. 2018.
PIETA, K.: Chieftain´s tomb from Poprad, Round table, Poprad, Slovakia, 26. 4.–27. 4. 2018.
PIETA, K.: 30. International Symposium Basic Problems of the Early Historical Development in the Middle Danube Region, Brno, Bohemia 14. 11.–16. 11. 2018.
RAMSL, P.: Diversity of Identities in Praehistory, Early History and Presence., Nitra, 29.10.–30.10.2018
RUTTKAY, M.: Transnational Stakeholder Workshop "Public archaeology and the use of innovative media and visualization tools", Nitra, 22.10.–24.10.2018.
RUTTKAY, M.: Visual heritage 2018, Vienna, 12.11.–15.11.2018.
ŠTOLCOVÁ, T.: Chieftain´s tomb from Poprad, Round table, Poprad, Slovakia, 26. 4.–27. 4. 2018.
ZAJACOVÁ, B.: Urnfield Culture and Hallstatt Period in Central Europe, Smolenice, Slovakia, 15. 10.–19. 10. 2018.
ZAJACOVÁ, B.: Transnational Stakeholder Workshop "Public archaeology and the use of innovative media and visualization tools", Nitra, Slovakia, 22. 10.–24. 10. 2018.

YEAR 2019

BENEDIKOVÁ, L.: 20th International conference The Late Iron Age in Middle Europe. CELTS 2019. Stará Lesná, Slovakia, 14. 5.–17. 5. 2019.
BISTÁKOVÁ, A.: The Round table Kiel 2019, Kiel, Germany, 17. 1.–18. 1. 2019.
BŘEZINOVÁ, G.: 20th International conference The Late Iron Age in Middle Europe. CELTS 2019. Stará Lesná, Slovakia, 14. 5.–17. 5. 2019.
DAŇOVÁ, K.: Archaeology Underwater Field School and workshop in Slovakia, Senec, Slovakia 22. 9.–28. 9. 2019.
CHEBEN, I.: The Round table Kiel 2019, Kiel, Germany, 17. 1.–18. 1. 2019.
KAMINSKÁ, Ľ.: International Obsidian Conference 2019, Sárospatak, Hungary, 27. 5.–29. 5. 2019.
KOVÁR, B.: 20th International conference The Late Iron Age in Middle Europe. CELTS 2019. Stará Lesná, Slovakia, 14. 5.–17. 5. 2019.
NEMERGUT, A.: Medzinárodná konferencia SKAM 2019, Nitra, 21.10.–23.10.2019
CHEBEN, I.: 33th International conference about Neolithic and Eneolithic in our Lands 2019, Námestovo, Slovakia, 1. 9.–5. 9. 2019.
CHEBEN, I.: International Conference SKAM 2019, Nitra, Slovakia, 21. 10.–23. 10. 2019.
PIETA, K.: 20th International conference The Late Iron Age in Middle Europe. CELTS 2019. Stará Lesná, Slovakia, 14. 5.–17. 5. 2019.
PIETA, K.: 31. International Symposium Basic Problems of the Early Historical Development in the Middle Danube Region, Nitra, Slovakia, 19. 11.–22. 11. 2019.
RAJTÁR, J.: 31. International Symposium Basic Problems of the Early Historical Development in the Middle Danube Region, Nitra, Slovakia, 19. 11.–22. 11. 2019.
SOJÁK, M.: 33th International conference about Neolithic and Eneolithic in our Lands 2019, Námestovo, Slovakia, 1. 9.–5. 9. 2019.

YEAR 2020

International conferences supposed to be organised by the IA SAS in 2020 have been postponed due to Covid 19 pandemic.

YEAR 2021

International conferences supposed to be organised by the IA SAS in 2021 have been postponed due to Covid 19 pandemic.

RAJTÁR, J.: Workshop of the Living Danube Limes 2021 project. Slovakia. Iža, 01. 07. 2021.
VARSIK, V.: 16th Protohistorical Conference Archaeology of Barbarians. Slovakia, Trnava 30. 09. 2021.

2.3.9. List of researchers who received an international scientific award

2016
Pieta Karol
Order of Constantine the Philosopher
Awarding institution: Slovanská unie, z.s., Czech republic
Description: For his merits in learning about the national history of the Czechs and Slovaks

Ruttkay Matej
Order of Constantine the Philosopher
Awarding institution: Slovanská unie, z.s., Czech republic
Description: For his merits in learning about the national history of the Czechs and Slovaks

2017
Pieta Karol
Certificate
Awarding institution: Department of Antiquities and Museums of National Council and Faculty of Arts, department of history, Kuwait
Description: Awarding of selected speakers at 1st Conference of Kuwait´s Organizing Committee.

Ruttkay Matej
Certificate
Awarding institution: Department of Antiquities and Museums of National Council and Faculty of Arts, department of history, Kuwait
Description: Awarding of selected speakers at 1st Conference of Kuwait´s Organizing Committee.

2021
Robak Zbigniew
Receiving the prestigious Alexander von Humboldt Fellowship (2021-2023)

- **Position of individual researchers in the national context**

2.3.10. List of invited/keynote presentations at national conferences, as documented by programme or invitation letter

YEAR 2016

BEDNÁR, P./RUTTKAY, M./BLAŽOVÁ, E.: Informačný systém AÚ SAV a sprístupnenie informácií o archeologických náleziskách (AÚ SAV). Vedecký seminár SAS pri SAV, Zjazd Slovenských archeológov 2016, Smolenice 13. 4. –14. 4.2016.
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RAMSL, P.: SASPRO - Multiple identities in La Tène period. Archeologický ústav SAV Nitra 10. 12. 2017.
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RUTTKAY, A. T.: Docent Anton Točík a archeológia stredoveku na Slovensku. Dni Antona Točíka. Nitra, 31. 5. 2017.
RUTTKAY, M./SMETANOVÁ, P.: Archeologický výskum Kostola sv. Jozefa v areáli Zoborského kláštora. Dni Antona Točíka, Nitra, 31. 5. 2017.
SAMUEL, M./HAVIAROVÁ, M.: Kostol sv. Martina v Banke. Výsledky archeologického a architektonicko-historického výskumu. Seminár: „Pamiatky Trnavy a Trnavského kraja“. Trnava, 7. 12. 2017.
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ŠVIHUROVÁ, M.: "Na kamennom koberci": Sídlisková zástavba na lokalite Liptovská Sielnica - Liptovská Mara III. In Archeológia barbarov: XIII. protohistorická konferencia 19. Bratislava: Filozofická fakulta UK, 20. 10. 2017.
ZÁBOJNÍK, J.: Sídliská avarského kaganátu na Slovensku. Doktorandské kolokvium. Nitra, 12. 6. 2017

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BAZOVSKÝ, I./ČAMBAL, R./HLADÍKOVÁ, K./RAJTÁR, J.: Nové hrobové nálezy zo Závodu.
BEDNÁR, P.: Archeologický výskum Budatínskeho hradu. Koloqvium o Budatínskom hrade. Žilina-Budatín, 11.06.2018
BENEDIKOVÁ, L. Archeologická topografia okresu Považská Bystrica: Pramene z neskorej doby bronzovej až strednej doby laténskej so zreteľom na nálezy depotov. Prezentácia. Konferencia (domáca) Horské a podhorské oblasti na západnom Slovensku (Aktuálny stav výskumu). Bratislava 15. 11. 2018.
BENEDIKOVÁ, L. Pozoruhodné polykultúrne nálezisko Veľké skaly/Roháč v Podskalí, okr. Považská Bystrica. Prezentácia. Konferencia (domáca) Výsledky nových archeologických výskumov na strednom Slovensku 3. Oravský Podzámok 6. 12. 2018.
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HUNKA, J.: Unikátna benátska medaila z Brezovice pri Sabinove. Kolokvium: Výnimočné solitérne archeologické nálezy. Bratislava, 18. 4. 2018.

HUNKA, J.: Významné nálezy mincí na Slovensku. Seminár: Cyklus numizmatických prednášok na počesť Pavla Endela. Smižany, 16. 6. 2018.

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IVÁN, P./ÖLVECKY, R./RAJTÁR, J.: Germánske žiarové pohrebisko v Sekuliach
Konferencia: 17. kolokvium „Nové germánske nálezy“, Archeologické múzeum SNM, Bratislava 13. 12. 2018.

MIROŠŠAYOVÁ, E.: Kultúrny obraz východného Slovenska v staršej dobe železnej. Vedecký seminár Slovenskej archeologickej spoločnosti pri SAV, Bratislava 11.-12. 4. 2018

MIROŠŠAYOVÁ, E.: 1. okrúhly stôl - „História skla za rok 2018“, východné a južné Slovensko. Hanušovce nad Topľou 23.- 24. 6. 2018.

NEVIZÁNSKY, G./PROHÁSZKA, P.: Ignác (Opatril) Gond a počiatky bádania Nitry. Konferencia: 30. rokov výskumu Nitrianskeho hradu, Nitra 6.–7. 9. 2018.
NOVÁČEK, T.: Stručné zhodnotenie výsledkov výskumu pohrebiska v Nižnej Myšli. 27. stretnutie východoslovenských archeológov. Košice 14.11.2018.
OŽĎÁNI, O.: Depot bronzových predmetov z hradiska lužickej kultúry na Sitne. Kolokvium: Dni Antona Točíka. Nitra 16. 5. 2018.
POLÁKOVÁ, Z.: Archeologický výskum na Šrobárovej ulici v Trnave. Od nálezov z doby rímskej po začiatok 20. stor. Pamiatky Trnavy a Trnavského kraja. Odborný pamiatkový seminár. Trnava, 11. 12. 2018.
ROBAK, Z.: Zo súkromnej zbierky do Národného Múzea. Kde sa narodil „blatnický veľmož“? Dni Antona Točíka. Nitra, 16. 5.2018.
ZÁBOJNÍK, J: Krištáľový mnohosten (ikosaéder) z Čataja. Kolokvium: Výnimočné solitérne archeologické nálezy. Bratislava, 18. 04. 2018.
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BELJAK, J./BELJAK PAŽINOVÁ, N./PUTŠKO, M./ČIERNY, M.: Výskum Pustého hradu vo Zvolene v roku 2019. 4. ročník odbornej konferencie Výsledky nových archeologických výskumov na strednom Slovensku. Stredoslovenské múzeum v Banskej Bystrici, 10. 12. 2019.
BIELICHOVÁ, Z. Protohistorické obdobie Slovenska z pohľadu archeozoológie. Odborná prednáška na doktorandskom kolokviu, ktoré sa konalo 6.12.2019 na AÚ SAV v Nitre. Prednáška.
BOBEK, P./DEBNÁR, P./MITÁŠ, V.: Správa o výskume v Mojmírovciach. Valné zhromaždenie, zjazd slovenských archeológov a vedecký seminár SAS pri SAV s exkurziou. Nitra, 10. 4. – 11. 4. 2019.
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DEBNÁR, P.: Vývoj železiarstva a hutníctva vnútorných Západných Karpatoch od včasného stredoveku po vysokú pec, 17. 06. 2019.
DEBNÁR, P.: Vývoj železiarstva a hutníctva vnútorných Západných Karpatoch vo vrcholnom a neskorom stredoveku. Doktorandské kolokvium. Nitra, 6. 12. 2019.
DEBNÁR, P: Železiarstvo vo východnej časti Štiavnických vrchov v stredoveku. 4. ročník konferencie: Výsledky nových archeologických výskumov na strednom Slovensku. Banská Bystrica 10. 12. 2019.
ELSCHEK, K. Bratislava, 2. 4. 2019, prednáška a power-point prezentácia na FFUK. Záhorie v dobe rímskej. Germánske kniežacie centrá a rímsky import.
GABULOVÁ, M./DAŇOVÁ, K./NEZVALOVÁ, L.: Správa o výskume v Dolných Krškanoch. Valné zhromaždenie, zjazd slovenských archeológov a vedecký seminár SAS pri SAV s exkurziou. Nitra, 10. 4. – 11. 4. 2019.
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HORVÁTHOVÁ, E.: Aktuálny stav výskumu opevnenej osady badenskej kultúry v Prešove. 28. stretnutie východoslovenských archeológov, Kaštieľ Stropkov, 13. 11. 2019.
HREHA, R./LUŠTÍKOVÁ, L./MALČEK, R./ŠVIHUROVÁ, M. Neolitické a eneolitické osídlenie dolného Zemplína (okr. Michalovce) vo svetle výskumu na trase plynovodu. Medzinárodná konferencia k problémom neolitu a eneolitu našich krajín. 28. stretnutie východoslovenských archeológov, Kaštieľ Stropkov, 13. 11. 2019.
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13. 11. 2019.
HUNKA, J.: Zaujímavý poklad novovekých mincí z Trebatíc. Zjazd slovenských archeológov, Nitra, 11.-12. 4. 2019.
HUNKA, J.: Nálezy mincí z okolia Trenčína. Sympózium Rozpad habsburskej monarchie a formovanie sústavy peňazí nástupníckych štátov, Trenčín, 22. 6. 2019.
HUNKA, J.: Nálezy rímskych mincí v Trenčíne a okolí. Sympózium Stopy Rimanov na Slovensku, Trenčín, 19. 9. 2019.
JEŽIŠKOVÁ, L. Liptovská Mara- prezentácia výsledkov. Doktorandské kolokvium. Nitra, 17.6.2019.
JEŽIŠKOVÁ, L. Liptovská Mara- prezentácia výsledkov. Doktorandské kolokvium. Nitra, 22.11.2019
KRČOVÁ, D. Rímsko-provinciálna keramika staršej doby rímskej a spôsoby jej používania v limitnom a germánskom prostredí na Slovensku. Doktorandské kolokvium. Nitra, 17. 06. 2019.
KRČOVÁ, D. Rímsko-provinciálna keramika staršej doby rímskej a spôsoby jej používania v limitnom a germánskom prostredí na Slovensku. Doktorandské kolokvium. Nitra, 22. 11. 2019.
MIROŠŠAYOVÁ, E.: Typológia keltskej keramiky zo Zemplína. Výskum 2001, 2002.
28. stretnutie východoslovenských archeológov. Krajské múzeum v Prešove – kaštieľ Stropkov. Kaštieľ Stropkov 13. 11. 2019.
OLŠAV, Š.: Predbežné výsledky výskumu v Nižnej Myšli v roku 2019. 28. stretnutie východoslovenských archeológov. Krajské múzeum v Prešove – kaštieľ Stropkov. Kaštieľ Stropkov 13. 11. 2019.
ORAVKINOVÁ, D.: Výšinné opevnené sídlisko v Spišskom Štvrtku a jeho prínos k poznaniu spoločnosti v závere staršej doby bronzovej. Súťaž mladých vedeckých pracovníkov SAV. Bratislava 28. Marec 2019.
POLÁKOVÁ, Z.: Stredoveká keramická kraslica z Nitry-Kyneku. Valné zhromaždenie SAS pri SAV a vedecký seminár s exkurziou. Nitra, 10. 4. – 11. 4. 2019
POLÁKOVÁ, Z.: Čo nové v Trnave? Výsledky záchranného archeologického výskumu na Šrobárovej ulici. Forum Tyrnaviense, Trnava: Katedra klasickej archeológie FF TU, 20. 11. 2019.
RAJTÁR, J.: „Kde táborili légie Marca Aurelia“. Konferencia: Stopy Rimanov na Slovensku. Trenčín 19. 9. 2019.
RUTTKAY, M.: 3D technológie používané v Archeologickom ústave SAV. 3D EXPO. Bratislava, 15. november 2019
RUTTKAY, M.: Moderné technológie v archeologickom výskume. Bratislava, 28. 4. 2019
SOJÁK, M.: Levoča pred písomnými správami. In: Vedecká konferencia pri príležitosti 770. Výročia prvej písomnej zmienky o Levoči. Mestské divadlo v Levoči, 7. 12. 2019.
ŠTOLCOVÁ, T.: Kniežacia hrobka z Popradu Matejoviec, AÚ SAV, 18.6.2019
VARSIK, V.: Neskoroantické kamenné stavby zo 4. storočia na Slovensku. Odborný seminár „Stopy Rimanov na Slovensku“, KPÚ Trenčín 19. 9. 2019.
VARSIK, V.: Rímske stavby na Slovensku – rezidencie germánskej elity. Archeologická kaviareň, Archeologické múzeum SNM, 24. 9. 2019.
VOJTEČEK, M.: Relikty novovekého fortifikačného systému v Čiernom na Kysuciach. Fortifikácie na Slovensko-Moravskom pohraničí: vedecký seminár. Žilina-Budatín, 5. 6. 2019

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BELJAK, J.: Archeologický výskum evanielického lýcea v Jelšave v roku 2016. Konferencia: Najnovšie poznatky z výskumov stredovekých pamiatok na Gotickej ceste, IV. Ročník. Rožňava 27. 8. 2020.
CHEBEN, Ivan - CHEBEN, Michal. Suroviny ako prostriedok kontaktov medzi kultúrami v období neolitu. Konferencia Argenti fodina 2020. Banská Štiavnica, 9.–10. 9. 2020.
LABUDA J./HUNKA, J.: Neznámy olovený stredoveký predmet z Glanzenbergu. Sympózium Argenti fodina 2020, Banská Štiavnica, 9.–10. 9. 2020.
NEMERGUT, A.: Využívanie surovín pre štiepanú kamennú industriu v staršej a strednej dobe kamennej na hornej Orave. Argenti fodina 2020, Banská Štiavnica. 9.–10. 9. 2020.
SOJÁK, M.: Zdravica 90. Spolupráca AÚ SAV a SMOPaJ v Liptovskom Mikuláši. Konferencia k 90. výročiu SMOPaJ. Liptovský Mikuláš 28.9.2020.

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ČIERNY, M.: Kosť a parohovina: Nálezy z hradov stredného Slovenska.
Doktorandské kolokvium. Dištančná forma - online, 29.4.2021.
DRAGONIDESOVÁ, P.: Sociálna štruktúra pohrebísk germánskej spoločnosti doby rímskej na základe analýzy pohrebísk v dolnom Pomoraví. Doktorandské kolokvium. Dištančná forma - online, 29.4.2021.
FOTTOVÁ, E.: Stavebné premeny JV bastiónu Divínskeho hradu. Vedecký seminár SAS v Starej Lesnej 1.6.-23.6. 2021.
KRČOVÁ, D.: Rímsko-provinciálna keramika staršej doby rímskej a spôsoby jej používania v limitnom a barbarskom prostredí na Slovensku. Doktorandské kolokvium. Dištančná forma - online, 29.4.2021.
OLŠAV, Š.: Enklávy pilinskej kultúry v Košickej kotline a Šarišskom podolí. Doktorandské kolokvium. Dištančná forma - online, 29.4.2021.
SOJÁK, M.: Stopäťdesiatročné jubileum speleoarcheologických výskumov na Slovensku (stručný prehľad do konca 2. svetovej vojny). In: 13. vedecká konferencia Výskum, využívanie a ochrana jaskýň, 7.-9. september 2021, Liptovský Mikuláš. Liptovský Mikuláš: SMOPaJ, 7. 9. 2021.

2.3.11. List of researchers who served as members of organising and programme committees of national conferences

2016
DAŇOVÁ, K.: Seminar: Underwater Archaeology. Trnava 5. –6. 12. 2016.
DAŇOVÁ, K.: Scientific Conference: The Days of Anton Točík. Nitra 15. 6. 2016.
HANULIAK, M.: Doctoral Colloquium. Nitra 7. 6. 2016.
HANULIAK, M.: Doctoral Colloquium. Nitra 6. 12. 2016.
HORVÁTHOVÁ, E.: 25 th Meeting of Eastern Slovak Archaeologists. Prešov 25. 10. 2016.
MIROŠŠAYOVÁ, E.: 25th Meeting of Eastern Slovak Archaeologists. Prešov 25. 10. 2016.
POLÁKOVÁ, Z.: Scientific Seminar of the SAS at the Slovak Academy of Sciences, Congress of Slovak Archaeologists 2016. Smolenice 13. 4. –14. 4. 2016.
RUTTKAY, M.: Doctoral Colloquium. Nitra 7. 6. 2016.
RUTTKAY, M.: Doctoral Colloquium. Nitra 6. 12. 2016.

2017
BIELICH, M.: IVth Conference on the history of pipe production and archaeological findings of pipes in Slovakia. Levice, 29. 9. 2017.
DAŇOVÁ, K.: Scientific Conference: The Days of Anton Točík, Nitra 31. 5. 2017.
HANULIAK, M.: Doctoral Colloquium. Nitra 7. 6. 2017.
HANULIAK, M.: Doctoral Colloquium. Nitra 22. 11. 2017.
HORVÁTHOVÁ, E.: 26 th Meeting of Eastern Slovak Archaeologists 2017. Stará Ľubovňa 5. 10.2017.
MIROŠŠAYOVÁ, E.: 26 th Meeting of Eastern Slovak Archaeologists 2017. Stará Ľubovňa 5. 10.2017.
POLÁKOVÁ, Z.: Scientific Seminar of the SAS at the Slovak Academy of Sciences, Congress of Slovak Archaeologists 2017. Nitra, AÚ SAV, 27. 4. 2017.
RUTTKAY, M.: Doctoral Colloquium. Nitra 7. 6. 2017.
RUTTKAY, M.: Doctoral Colloquium. Nitra 22. 11. 2017.

2018
BÁTORA, J.: Doctoral Colloquium. Nitra 18. 6. 2018.
BÁTORA, J.: Doctoral Colloquium. Nitra 26. 10. 2018.
BŘEZINOVÁ, G.: Scientific conference: mountain and mountainous areas in western Slovakia (current research). Bratislava 15. 11. 2018.
BENEDIKOVÁ, L.: Scientific conference: mountain and mountainous areas in western Slovakia (current research). Bratislava 15. 11. 2018.
DAŇOVÁ, K.: Scientific Conference: The Days of Anton Točík, Nitra, 16. 5. 2018.

GABULOVÁ, M.: Scientific Seminar of the SAS at the Slovak Academy of Sciences, Congress of Slovak Archaeologists 2018, Bratislava 11. 4 – 12. 4. 2018.
HOLEŠČÁK, M.: Scientific Seminar of the SAS at the Slovak Academy of Sciences, Congress of Slovak Archaeologists 2018, Bratislava 11. 4 – 12. 4. 2018.
HORVÁTHOVÁ, E.: 27th Meeting of Eastern Slovak Archaeologists 2018. Košice 14. 11. 2018.
MIROŠŠAYOVÁ, E.: 27th Meeting of Eastern Slovak Archaeologists 2018. Košice 14. 11. 2018.
NEZVALOVÁ, L.: Scientific Seminar of the SAS at the Slovak Academy of Sciences, Congress of Slovak Archaeologists 2018, Bratislava 11. 4 – 12. 4. 2018.
POLÁKOVÁ, Z.: Scientific Seminar of the SAS at the Slovak Academy of Sciences, Congress of Slovak Archaeologists 2018, Bratislava 11. 4 – 12. 4. 2018.
RUTTKAY, M.: Doctoral Colloquium. Nitra 18. 6. 2018.
RUTTKAY, M.: Doctoral Colloquium. Nitra 26. 10. 2018.

2019
BÁTORA, J.: Doctoral Colloquium. Nitra, 18. 06. 2019.
BÁTORA, J.: Doctoral Colloquium. Nitra, 06. 12. 2019.
GABULOVÁ, M.: Scientific Seminar of the SAS at the Slovak Academy of Sciences, Congress of Slovak Archaeologists 2019, Nitra, 10. 4. – 11. 4. 2019.
HOLEŠČÁK, M.: Scientific Seminar of the SAS at the Slovak Academy of Sciences, Congress of Slovak Archaeologists 2019, Nitra, 10. 4. – 11. 4. 2019.
HORVÁTHOVÁ, E.: 28th Meeting of Eastern Slovak Archaeologists 2019. Kaštieľ Stropkov, 13. 11. 2019.
MIROŠŠAYOVÁ, E.: 28th Meeting of Eastern Slovak Archaeologists 2019. Kaštieľ Stropkov, 13. 11. 2019.
NEZVALOVÁ, L.: Scientific Seminar of the SAS at the Slovak Academy of Sciences, Congress of Slovak Archaeologists 2019, Nitra, 10. 4. – 11. 4. 2019.
POLÁKOVÁ, Z.: Scientific Seminar of the SAS at the Slovak Academy of Sciences, Congress of Slovak Archaeologists 2019, Nitra, 10. 4. – 11. 4. 2019.
RUTTKAY, M.: Doctoral Colloquium. Nitra 18. 6. 2019.
RUTTKAY, M.: Doctoral Colloquium. Nitra 06. 12. 2019.

2020
Conference supposed to be organised by the IA SAS in 2020 have been postponed due to Covid 19 pandemic.

2021
BÁTORA, J.: Doctoral Colloquium. Online meeting. 29. 4. 2021.
GABULOVÁ, M.: Scientific Seminar of the SAS at the Slovak Academy of Sciences, Congress of Slovak Archaeologists 2021, Stará Lesná 21. 6. – 23. 6. 2021.
HOLEŠČÁK, M.: Scientific Seminar of the SAS at the Slovak Academy of Sciences, Congress of Slovak Archaeologists 2021, Stará Lesná 21. 6. – 23. 6. 2021.
NEZVALOVÁ, L.: Scientific Seminar of the SAS at the Slovak Academy of Sciences, Congress of Slovak Archaeologists 2021, Stará Lesná 21. 6. – 23. 6. 2021.
RUTTKAY, M.: Doctoral Colloquium. Online meeting. 29.4.2021.
POLÁKOVÁ, Z.: Scientific Seminar of the SAS at the Slovak Academy of Sciences, Congress of Slovak Archaeologists 2021, Stará Lesná 21. 6. – 23. 6. 2021.

2.3.12. List of researchers who received a national scientific award

2016
Beljak Ján
Annual Award of the Slovak Archaeological Society at the Slovak Academy of Sciences for 2015
Awarding institution: Slovenská archeologická spoločnosť pri SAV
Description: or exemplary archaeological research and summer school of archaeology at the Pustý hrad in Zvolen

Beljak Ján
Annual award of the magazine Monuments and Museums for the year 2015 in the category of discovery – find
Awarding institutions: revue Pamiatky a múzea, Slovenské národné múzeum, Pamiatkový úrad SR
Description: For a set of finds from the medieval cistern at the Pustý hrad in Zvolen in recognition of long-term excellent research results and the publication of finds.
Elschek Kristián
Bronze medal of the Academy of Sciences of the Slovak Academy of Sciences
Awarding institution.
Description: for significant support of the scientific programme of the IA SAS

Robak Zbigniew
Competition for young scientists of the Slovak Academy of Sciences up to 35 years of age. 1st prize for III. department of sciences
Awarding institution: The presidency of SAS
Description: Excellent publishing results

Hunka Ján
Medaila za zásluhy o rozvoj numizmatiky
Awarding institution: Slovenská numizmatická spoločnosť pri SAV, pobočka Trenčín

Pieta Karol
Prominent personality of the Slovak Academy of Sciences
Awarding institution: SAS

Pieta Karol
Science and Technology Prize 2016
Awarding institution: Minister of Education

Pieta Karol
First prize and the Premium for outstanding scientific response to a single work
Awarding institution: Literary Fund
Description: For outstanding scholarly response to a single work in the social sciences category

Ruttkay Matej
Letter of thanks and seal of the Monastery of St. Joseph
Awarding institution: Zobor Beautification Association - OZ
Description: Thanks for cooperation

Ruttkay Matej
Premium for a three-years scientific citation response
Awarding institution: the Literary Fund

Soják Marián
Bronze medal of the Academy of Sciences of the Slovak Academy of Sciences
Awarding institution.
Description: for significant support of the scientific programme of the IA SAS

2017
Bednár Peter
Special Prize - Revue Monuments and Museums
Awarding institution: the Editorial Board of the Cultural Heritage Review Monuments and Museums together with its publishers the Slovak National Museum and the Monuments Office of the Slovak Republic
Description: for the exhibition The Heritage of Charlemagne. Early Middle Ages as the Cradle of European Culture.

Čaprdová Eva
Special Prize - Revue Monuments and Museums
Awarding institution: the Editorial Board of the Cultural Heritage Review Monuments and Museums together with its publishers the Slovak National Museum and the Monuments Office of the Slovak Republic
Description: for the exhibition The Heritage of Charlemagne. Early Middle Ages as the Cradle of European Culture.

Hunka Ján
Medal for the General Assembly of the SNS at the Slovak Academy of Sciences Trenčín 2017
Awarding institution: the Central Committee of the Slovak Numismatic Society

Hunka Ján
Commemorative letter for the 30th anniversary of the establishment of the Martin Branch
Awarding institution: Slovak Numismatic Society

Hunka Ján
Commemorative letter for the participants of the XIX. of the XIX Numismatic Society of the Czech Numismatic Society of the XIX General Assembly in Trencin
Awarding institution: the Slovak Numismatic Society at the Slovak Academy of Sciences, Trenčín Branch

Ruttkay Matej
Award for Excellence in Publication
Awarding institution: SAS.
Description: Award for excellence in journal publications. These are publications from the previous year in scientific journals with the highest impact as measured by the Scimago Journal Ranking (SJR) index. Journals fall in the first percentile with the highest SJR in their respective scientific field

Ruttkay Matej
Štrba Municipality Award
Awarding institution. Municipality of Štrba
Description: For significant contribution to the archaeological research of the extinct medieval settlement of Šoldov

Ruttkay Matej
Special Prize - Revue Monuments and Museums
Awarding institution: the Editorial Board of the Cultural Heritage Review Monuments and Museums together with its publishers the Slovak National Museum and the Monuments Office of the Slovak Republic
Description: for the exhibition The Heritage of Charlemagne. Early Middle Ages as the Cradle of European Culture.

Ruttkay Matej
Premium for a three-years citation response
Awarding institution: the Literary Fund

Salátová Nikoleta
Special Prize - Revue Monuments and Museums
Awarding institution: the Editorial Board of the Cultural Heritage Review Monuments and Museums together with its publishers the Slovak National Museum and the Monuments Office of the Slovak Republic
Description: for the exhibition The Heritage of Charlemagne. Early Middle Ages as the Cradle of European Culture.

Soják Marián
Štrba Municipality Award
Awarding institution. Municipality of Štrba
Description: For significant contribution to the archaeological research of the extinct medieval settlement of Šoldov

Varsik Vladimír
Ocenenie Predsedníctva SAV za vedeckú publikáciu s mimoriadne veľkým počtom citácií
Awarding institution: Predsedníctvo SAV

2018
Bednár Peter
Prize for Scientific Popularization of the Slovak Academy of Sciences
Awarding institution: the Slovak Academy of Sciences
Description: award for popularization of science

Bednár Peter
Prize for Scientific Literature in the category of Social Sciences
Awarding institution. The Literary Fund
Description: Award for scientific and professional literature in the category of social sciences for the publication Peter Bednár - Zuzana Staneková - Peter Šimko: "Budatín Castle".

Furmánek Václav
Prize for outstanding response to a single work
Awarding institution: The Literary Fund
Description: Prize for the citations on the work: The pendents in Slovakia. Munich: C.H.Beck'sche Buchhandlung, 1980. 61 p. Prehistoric Bronze Finds, Volume 3.

Fusek Gabriel
Letter of thanks from the municipality of Divinka
Awarding institution. Municipality of Divinka, Mayor
Description: Letter of appreciation for professional approach, cooperation and contribution to the quality of the work: Monograph Divinka and Lalinok

Fusek Gabriel
Commemorative letter of the City of Nitra
Awarding institution. City of Nitra, Mayor
Description: thanks on the occasion of the 770th anniversary of the granting of royal privileges to the City of Nitra

Holeščák Michal
Prize for Scientific Popularization of the Slovak Academy of Sciences
Awarding institution: the Slovak Academy of Sciences
Description: for popularization of science

Hunka Ján
Bronze medal of the Academy of Sciences of the Slovak Academy of Sciences
Awarding institution. *Slovak Numismatic association*
Description: for significant support of the scientific programme of the IA SAS

Hunka Ján
Medal Spišská Nová Ves 1268
Awarding institution: Branch of Slovak Numismatic association Svit-Tatry
Description: for the fruitfull cooperation

Hunka Ján
Acknowledgements for long-term cooperation
Awarding institution: Association for the Rescue of St. Catherine's Monastery

Jakubčinová Miriam
Prize for Scientific Popularization of the Slovak Academy of Sciences
Awarding institution: the Slovak Academy of Sciences
Description: for popularization of science

Miroššayová Elena
Annual Award
Awarding institution: the Slovak Archaeological Society at the Slovak Academy of Sciences
Description: for outstanding contribution to the Slovak Archaeological Society under the Slovak Academy of Sciences in the position of President in the years 2007-2015.

Olexa Ladislav
Ždaňa Municipality Award
Awarding institution. Municipality of Ždaňa
Description: for a significant contribution to the implementation of archaeological research in the village

Pieta Karol
Scientific work with an exceptionally high number of citations
Awarding institution: SAS

Pieta Karol
Prize for Scientific Popularization of the Slovak Academy of Sciences
Awarding institution: the Slovak Academy of Sciences
Description: for popularization of science

Robak Zbigniew
Prize for Scientific Popularization of the Slovak Academy of Sciences
Awarding institution: the Slovak Academy of Sciences
Description: for popularization of science

Ruttkay Matej
Prize for Scientific Popularization of the Slovak Academy of Sciences
Awarding institution: the Slovak Academy of Sciences
Description: for popularization of science

Ruttkayová Jaroslava
Prize for Scientific Popularization of the Slovak Academy of Sciences
Awarding institution: the Slovak Academy of Sciences
Description: for popularization of science

Ruttkay Alexander T.
Prize for outstanding response to a single work
Awarding institution: The Literary fund
Description: for the work - *Weapons and equestrian equipment from the 9th to the first half of the 14th century in Slovakia (II). In Slovenská archeológia*

Soják Marián
Prize for Scientific Popularization of the Slovak Academy of Sciences
Awarding institution: the Slovak Academy of Sciences
Description: for popularization of science

Soják Marián
1st prize and gold medal. 11th annual Best book and promotional material about Slovakia in 2017
Awarding institution: Club of photojournalists, Slovak Syndicate of Journalists
Description: for the book Kniha Mesto Vysoké Tatry: Mesto Vysoké Tatry – včera a dnes Mesto Vysoké Tatry 2017..

Soják Marián
Extraordinary price
Awarding institution: the Slovak National Library in Martin
Description: for the comprehensive treatment of the history of the village of Švábovce

2019

Bátora Jozef
Commemorative medal
Awarding institution: the Rector of Comenius University in Bratislava
Description: on the occasion of the 100th anniversary of the founding of Comenius University in Bratislava

Bátora Jozef
Prize for scientific and professional literature 2018
Awarding institution. The Literar fund
Description: 2018 Prize for Scientific and Professional Literature in the category of social sciences for the work Slovakia in the Early Bronze Age

Benediková Lucia
Letter of thanks
Awarding institution: from the Liptov Museum in Ružomberok
Description: for cooperation in the preparation of the new exposition The image of the settlement of Liptov in Prehistory and Early historic times

Furmánek Václav
Letter of thanks
Awarding institution: Eastern Slovak Museum in Košice
Description: for cooperation

Fusek Gabriel
Letter of thanks from the municipality of Divinka
Awarding institution. Municipality of Divinka, Mayor
Description: Letter of appreciation for professional approach, cooperation and contribution to the history of Divinka

Holeščák Michal
Letter of thanks from the municipality of Divinka
Awarding institution. Municipality of Divinka, Mayor
Grounds: Letter of appreciation for professional approach, cooperation and contribution to the history of Divinka

Hunka Ján
medal Milestones of Organized Numismatics in Bratislava.
Awarding institution: Slovak Numismatic association Bratislava
Description: For long-term cooperation and on the occasion of the jubilee

Miroššayová Elena
Prize for the Development of Slovak Science at Home and Abroad
Awarding institution: the Literary Fund, Section for Scientific and Professional Literature and Computer Programmes
Description: recognition for lifetime contribution to the development of Slovak science at home and abroad.

Oravkinová Dominika
Competition for young scientists of the SAS up to 35 years of age
Awarding institution.SAS
Description: III. department of sciences, 3rd prize

Pieta Karol
Letter of thanks
Awarding institution: from the Liptov Museum in Ružomberok
Description: for cooperation in the preparation of the new exposition The image of the settlement of Liptov in Prehistory and Early historic times

Soják Marián
The Dean's Award of the Faculty of Arts of the Catholic University in Ružomberok for 2018
Awarding institution. Dean
Description: for excellent pedagogical activity.

Soják Marián
Municipality Award 2019
Awarding institution. Municipiality Batizovce
Description: for quality archaeological research, history processing and significant journalistic activity.

Šalkovský Peter
Prize for outstanding response to a single scientific work.
Awarding institution.The Literary fund
Description: for the woerk Häuser in der frühmittelalterlichen slawischen Welt. Archaeological Institute of the Slovak Academy of Sciences, 2001.

2020

Bátora Jozef
SAS Prize 2019
Awarding institution: Slovak Academy of Sciences
Description: for a publication with an exceptionally high number of citations: Furmánek, Václav - Bátora, Jozef - Ožďáni, Ondrej - Mitáš, Vladimír - Kujovský, Rudolf - Vladár, Jozef. Old Slovakia 4. Bronze Age. Nitra 2015.

Benediková Lucia
SAS Prize 2019 (2020) in the category Exhibition
Awarding institution. Slovak Archaeological Society at the Slovak Academy of Sciences
Grounds: extraordinary new exhibition in the Liptov Museum in Ružomberok

Furmánek Václav
SAS Prize 2019
Awarding institution: Slovak Academy of Sciences
Description: for a publication with an exceptionally high number of citations: Furmánek, Václav - Bátora, Jozef - Ožďáni, Ondrej - Mitáš, Vladimír - Kujovský, Rudolf - Vladár, Jozef. Old Slovakia 4. Bronze Age. Nitra 2015.

Holeščák Michal
Young Scientist Competition - 2nd prize
Awarding institution: Presidium SAS
Description: scientific study of high quality

Hunka Ján
diplom za prednášku
Awarding institution: Slovenská numizmatická spoločnosť, pobočka Trenčín

Kujovský Rudolf
SAS Prize 2019
Awarding institution: Slovak Academy of Sciences
Description: for a publication with an exceptionally high number of citations: Furmánek, Václav - Bátora, Jozef - Ožďáni, Ondrej - Mitáš, Vladimír - Kujovský, Rudolf - Vladár, Jozef. Old Slovakia 4. Bronze Age. Nitra 2015.

Mitáš Vladimír
SAS Prize 2019
Awarding institution: Slovak Academy of Sciences
Description: for a publication with an exceptionally high number of citations: Furmánek, Václav - Bátora, Jozef - Ožďáni, Ondrej - Mitáš, Vladimír - Kujovský, Rudolf - Vladár, Jozef. Old Slovakia 4. Bronze Age. Nitra 2015.

Ožďáni Ondrej
SAS Prize 2019
Awarding institution: Slovak Academy of Sciences
Description: for a publication with an exceptionally high number of citations: Furmánek, Václav - Bátora, Jozef - Ožďáni, Ondrej - Mitáš, Vladimír - Kujovský, Rudolf - Vladár, Jozef. Old Slovakia 4. Bronze Age. Nitra 2015.

Ruttkay Matej
Premium for a three-years scientific citation response
Awarding institution: the Literary Fund

Soják Marián
The main prize in the category of the monograph of the village: the history of Lučivná
Awarding institution. National Educational Centre at the Ministry of Culture of the Slovak Republic.
Description: best monograph of a village 2019

Soják Marián
Annual awards of the journal Monuments and Museums for 2019
Awarding institution: Journal Pamiatky a múzeá
Grounds: nomination in the category "Discovery, find" for the discovery of a Paleolithic settlement in the Hučivá hole cave in the High Tatras.

2021

Hanuliak Milan
Outstanding personalities of the Slovak Academy of Sciences
Awarding institution: Slovak Academy of Sciences
Description: Lifetime Achievement Award

Ruttkay Matej
Prize of the City of Nitra
Awarding institution: City of Nitra
Grounds: for many years of outstanding work for the city of Nitra and its history

Ruttkay Matej
Award of the Nitra self-governing region
Awarding institution: Nitra self-governing region
Description: for quite an extraordinary contribution to the knowledge of the history of the Nitra region

Soják Marián
Benefactor musaei Scepusiensis 2020
Awarding institution: Spiš Museum in Levoča
Description: Award for cooperation in science and research

2.4. Research grants and other funding resources

(List type of project, title, grant number, duration, total funding and funding for the institute, responsible person in the institute and his/her status in the project, e.g. coordinator "C", work package leader "W", investigator "I". Add information on the projects which are interdisciplinary, and also on the joint projects with several participating SAS institutes)

- **International projects**

2.4.1. List of major projects of Framework Programmes of the EU (which pilar), NATO, COST, etc.

For all below listed project see details in chapter 2.3.1

Title: *VirtualArch - Visualize to Valorize*
Grant number: INTERREG – VirtualArch CE-947
Duration: 01. 07. 2017 – 30. 06. 2020
Total funding/funding for the institute: 2 093 771,23€/ 189 132,48€(2017-2020)
Responsible person: Matej Ruttkay „W"

Title: *GEODAP – GEOarchaeology of DAily Practices: extracting Bronze Age lifeways from the domestic stratigraphic record.*
Grant number: *ERC consolidator grant*
Duration: 2021–2026
Total funding/funding for the institute: under responsibility of PI/0€
Responsible person: Jozef Bátora „I"

Title: *HistoGenes – Integrating genetic, archaeological and historical perspectives on Eastern Central Europe, 400-900 AD.*
Grant number: *ERC Synergy Grant HistoGenes 856453*
Duration: 2020–2026
Total funding/funding for the institute: under responsibility of PI/4 305€
Responsible person: Matej Ruttkay „I"

Title: *MICROSCOPE – Zooming into the Population History of Iron Age Europe with Rare Genetic Variants.*
Grant number: *ERC Starting Grant MICROSCOPE*
Duration: 2020–2026
Total funding/funding for the institute: under responsibility of PI/0 €
Responsible person: Karol Pieta „I"

Title: *Archaeological practices and knowledge work in the digital environment (ARKWORK).*
Grant number: *COST: CA 15201*
Duration: 2017–2021
Total funding/funding for the institute: under responsibility of PI/10 519€
Responsible person: Alena Bistáková „I“

Title: *INTEGRATING NEANDERTAL LEGACY: FROM PAST TO PRESENT (iNEAL)*
Grant number: *COST: CA 19141*
Duration: 2020–2024
Total funding/funding for the institute: under responsibility of PI/3 109€
Responsible person: A. Nemergut, Ľ. Kaminská „I“

Title: *Europe Through Textiles: Network for an integrated and interdisciplinary Humanities (EuroWeb)*
Grant number: *COST: CA 19131*
Duration: 2020–2024
Total funding/funding for the institute: under responsibility of PI/0€
Responsible person: T. Štolcová „I“

Title: *Colour and Space in Cultural Heritage (COSCH)*
Grant number: *COST: OC-2011-2-10516*
Duration: 2012–2016
Total funding/funding for the institute: under responsibility of PI/0€
Responsible person: M. Ruttkay „I“

Add information on your activities in international networks

In addition to the above mentioned projects within the framework of the EU schemes, two SASPRO projects are prestigious in terms of international activities, where the IA SAS was a guest institution – holders: Péter Prohaszka (HU), Peter C. Ramsl (AT); see more about SASPRO projects in chapters 2.1.5 and 2.3.1.

Bi- and multilateral research cooperation agreements as well as grant projects funded by non-European or national agencies are beneficial for the scientific research of the IA SAS, its results as well as for the professional development of its staff, such as the projects of the National Geographic Society or the Seal of Excellence project support scheme funded by the SAS (see chapter 2.3.1).

The international status of the Institute is also reflected in the interest of foreign researchers in study visits to the institution. In addition to participants of inter-academic exchange programmes, PhD students and postdoctoral fellows, Zuzana Chovanec, a researcher from the USA, was a Fulbright Fellow from the USA during the period under review. In her research project entitled “From poppies in the field to slumberous dreams: Defining the antiquity of the human-poppy relationship in Central Europe”, which includes a study stay in Central Europe, she was researching the use of poppies and other hallucinogenic plants in the history of Central European populations, as well as the preparation and distribution of narcotic substances derived from these plants.

Researchers from Hungary have also completed study stays at the Institute of Archaeology: postdoc – Szabina Merva (3-month stay), Pusztainé Fischl (6-month stay).

From the apppied research the engagement into the network of European cultural routes has to be mentioned. The IA SAS has been participating in the establishment and working of the European Cultural Route of St. Cyril and Methodius (see chapter 2.7.1.).

For **other** international activities see chapter 2.3.1.

- **National projects, incl. international projects with only national funding**

2.4.2. List of ERA-NET projects funded from SAS budget

None

2.4.3. List of projects of the Slovak Research and Development Agency, APVV

Title: *Dynamics of the exploitation of silicate material resources during the Paleolithic and neolithic in the western Slovakia*
Grant number: APVV – 14 - 0742
Duration: 01. 07. 2014 – 30. 06. 2019
Total funding/funding for the institute: 139 397€/119 388€ (2016-2019)
Responsible person: Ivan Cheben „C“

Title: *Central Europe between the Celtic Oppida and the Ancient Slavic Centres of Power*
Grant number: APVV – 14 - 0842
Duration: 01. 07. 2015 – 28. 06. 2019
Total funding/funding for the institute: 225 076€/202 435€ (2016-2019)
Responsible person: Karol Pieta „C“

Title: *Process and regularities of settlement development in mountain and foothill regions of Western Slovakia during prehistory and early historical period*
Grant number: APVV – 15 - 0491
Duration: 01. 07. 2016 – 30. 06. 2020
Total funding/funding for the institute: 232 269 €/116 134€
Responsible person: Gertrúda Březinová

Title: *Human and landscape in Kysuce and adjacent Považie region in middle ages and beginning of modern age*
Grant number: APVV – 15 - 0330
Duration: 01. 07. 2016 – 30. 06. 2020
Total funding/funding for the institute: 225 044€/225 044€
Responsible person: Gabriel Fusek „C“

Title: *From Upper Paleolithic to Neolithic: evolution of prehistoric techniques of flintknapping in Slovakia*
Grant number: SK-FR-2015-0026
Duration: 01. 01. 2016 – 01. 07. 2017
Total funding/funding for the institute:2 650 €/2 650€
Responsible person: Adrián Nemergut „W“

Title: *Medieval Nitra in material sources*
Grant number: APVV – 16 - 0449
Duration: 01. 07. 2017 – 31.12. 2021
Total funding/funding for the institute: 196 469€/196 469€/
Responsible person: Milan Hanuliak „C“

Title: *Contribution of Slovakia to Economic and Social Development of Central European Urnefields*
Grant number: APVV – 16 - 0441
Duration: 01. 07. 2017 – 31. 12. 2021
Total funding/funding for the institute: 197 267€/197 267€
Responsible person: Vladimír Mitáš „C“

Title: Vita intra muros - Interdisciplinary research of castles in central Slovakia
Grantnumber: APVV – 17 - 0441
Duration: 01. 08. 2018 – 31. 07. 2022
Total funding/funding for the institute: 204 445€/90 327€ (2018-2021)
Responsible person: Ján Beljak „C“

Title: *Slovak research in the Sudanese site Duweym Wad Haj*
Grant number: APVV – 17 - 0579
Duration: 01. 08. 2018 – 31. 07. 2022
Total funding/funding for the institute: 210 695€**/** 45 347€ (2018-2021)
Responsible person: Branislav Kovár „W“

Title: *The environment and settlement networks of late Prehistory on the example of selected periods and regions of Slovakia*
Grant number: APVV – 18 - 0276
Duration: 01. 07. 2019 – 30. 06. 2023
Total funding/funding for the institute: 175 000€**/**117 531€ (2019-2021)
Responsible person: Róbert Malček „C“

Title: *Nitra County Notitia by Matthias Bel (interpretation and application)*
Grant number: APVV – 18 - 0196
Duration: 01. 07. 2019 – 30. 06. 2023
Total funding/funding for the institute: 160 000€**/**4 600€ (2019-2021)
Responsible person: Matej Ruttkay „W“

Title: *Power centres and their hinterland in the 8th-11th centuries*
Grant number: APVV – 19 - 0563
Duration: 01. 07. 2020 – 30. 06. 2024
Total funding/funding for the institute: 198 000€/66 921€ (2020-2021)
Responsible person: Matej Ruttkay „C“

Title: Influence of the exploitation of natural resources on ways of life in the Bronze Age and Iron Age
Grant number: APVV – 20 - 0044
Duration: 01. 07. 2021 – 30. 06. 2025
Total funding/funding for the institute: 190 000€/6 887€ (2021)
Responsible person: Lucia Benediková „C“

Title: *Importance of obsidian sources in Slovakia in the Neolithic and Eneolithic period*
Grant number: APVV – 20 - 0521
Duration: 01. 07. 2021 – 30. 06. 2025
Total funding/funding for the institute: 180 000€/20 444€ (2021)
Responsible person: Ivan Cheben „C“

2.4.4. List of projects of the Scientific Grant Agency of the Slovak Academy of Sciences and the Ministry of Education, VEGA (for funding specify only total sum obtained from all VEGA grants in particular year)

2016 – amount of VEGA grants: 169 988€
2017 – amount of VEGA grants: 172 208€
2018 – amount of VEGA grants: 188 818€
2019 – amount of VEGA grants: 183 483€
2020 – amount of VEGA grants: 160 921€
2021 – amount of VEGA grants: 169 073€

1. Title: *Polished industry of Slovakia´s Neolith and Eneolith in the Context of Central Europe´s Raw Material Resources*
Grantnumber: 2/0147/13
Duration: 01. 01. 2013 – 31. 12. 2016
Responsible person: Ivan Cheben „C“

2. Title: *Edition of archaeological sources from the Neolithic and Eneolithic periods in Slovakia*
Grant number: 2/0063/13
Duration: 01. 01. 2013 – 31. 12. 2016
Responsible person: Gabriel Nevizánsky „C“
The project received an excellent evaluation from the VEGA project agency.

3. Title: *Medieval burials in Nitra region*
Grant number: 2/0156/14
Duration: 01. 01. 2014 – 31. 12. 2017
Responsible person: Peter Bednár „C“

4. Title: *Life in the borderlands. Settlement structures in the foothills and hinterland of the Pannonian Limite from the Younger LaTène period to the end of Antiquity*
Grant number: 1/0045/14
Duration: 01. 01. 2014 – 31. 12. 2016
Responsible person: Gertrúda Březinová „W“

5. Title: *Material culture and its contribution to reconstruction terrestrial life and burial practices in medieval society*
Grant number: 2/0044/14
Duration: 01. 01. 2014 – 31. 12. 2016
Responsible person: Milan Hanuliak „C“

6. Title: *Settlement Development in the South of Košice Basin during the Stone Ages (Upper Palaeolithic - Middle Neolithic*
Grant number: 2/0006/14
Duration: 01. 01. 2014 – 31. 12. 2016
Responsible person: Ľubomíra Kaminská „C“

7. Title: *The Warfare and Weaponry in Great Moravia and in the medieval Kingdom of Hungary*
Grant number: 2/0195/14
Duration: 01. 01. 2014 – 31. 12. 2017
Responsible person: Alexander T. Ruttkay „C“

8. Title: *Man and mountains through time - from prehistoric hillforts to medieval castles*
Grant number: 1/0208/15
Duration: 01. 01. 2015 – 31. 12. 2017
Responsible person: Ján Beljak „W“

9. Title: *Profiling of settlement enclaves on the routes of long-distance roads in the northern part of the Carpathian Basin*
Grant number: 2/0032/15
Duration: 01. 01. 2015 – 31. 12. 2017
Responsible person: Elena Miroššayová „C“

10. Title: *Technology and economics of raw materials in the context of the Palaeolithic in the Middle Danube region*
Grant number: 2/0181/14
Duration: 01. 01. 2014 – 31. 12. 2017
Responsible person: Adrián Nemergut „C“

11. Title: *Faience, Glass-crystalline, Glass Materials in the Prehistoric Times to the Early Middle Ages in Slovakia*
Grant number: 2/0111/14
Duration: 01. 01. 2014 – 31. 12. 2016
Responsible person: Susanne Stegmann-Rajtár „C“

12. Title: *Structure and determinants of settlement in the East. Slovakia against the background of natural, cultural and social conditions in the prehistoric to early modern period*
Grantnumber: 2/0030/15
Duration: 01. 01. 2015 – 31. 12. 2017
Responsible person: Eva Horváthová „C“
The project received an excellent evaluation from the VEGA project agency.

13. Title: *New Finds of Numismatic Monuments in Relation to Archaeological and Historical Sources*
Grant number: 2/0170/15
Duration: 01. 01. 2015 – 31. 12. 2017
Responsible person: Ján Hunka „C“

14. Title: *Power Structures of the Early Historical Period and the Early Middle Ages in Archaeological Sources*
Grant number: 2/0121/15
Duration: 01. 01. 2015 – 31. 12. 2017
Responsible person: Karol Pieta „C“

15. Title: *The castle in Iža - part of the Limes Romanus in Slovakia*
Grant number: 1/0364/15
Duration: 01. 01. 2015 – 31. 12. 2017
Responsible person: Ján Rajtár „W“

16. Title: *Raw materials and technologies in the early historical period in Slovakia*
Grant number: 2/0150/15
Duration: 01. 01. 2015 – 31. 12. 2017
Responsible person: Ján Rajtár „C“

17. Title: *Structure and dynamics of settlement in the late Eneolithic and early Bronze Age in the north-western part of the Carpathian Basin*
Grant number: 1/0411/16
Duration: 01. 01. 2016 – 31. 12. 2018
Responsible person: Jozef Bátora „C“
The project received an excellent evaluation from the VEGA project agency.

18. Title: *Archaeological studies concerning Early Middle Ages*
Grant number: 2/0075/16
Duration: 01. 01. 2016 – 31. 12. 2019
Responsible person: Gabriel Fusek „C“
The project received an excellent evaluation from the VEGA project agency.

19. Title: *Slovakia in the Bronze Age - Crossroad of Contemporary European Civilization*
Grant number: 2/0091/16
Duration: 01. 01. 2016 – 31. 12. 2019
Responsible person: Ondrej Ožďáni „C“

20. Title: *Corpus of te early medieval hillforts in Slovakia*
Grant number: 2/0175/16
Duration: 01. 01. 2016 – 31. 12. 2019
Responsible person: Matej Ruttkay „C“

21. Title: *Crisis and Collapse on the Borderline of the Middle Ages and Modern Times (Probes into the Issues in the Slovak Context)*
Grant number: 1/0095/17
Duration: 01. 01. 2017 – 31. 12. 2019
Responsible person: Ján Beljak „W“

22. Title: *Celts, Romans and Germans. Rural settlements and residences of the elite*
Grant number: 1/0243/17
Duration: 01. 01. 2017 – 31. 12. 2020
Responsible person: Gertrúda Březinová „W“

23. Title: *The role of material culture in the formation of economic, social and interethnic ties in medieval communities*
Grant number: 2/0037/17
Duration: 01. 01. 2017 – 31. 12. 2020
Responsible person: Milan Hanuliak „C“

24. Title: *Civilizational development and settlement structure in the period of the linear culture in the Lower Požitaví region*
Grant number: 2/0107/17
Duration: 01. 01. 2017 – 31. 12. 2020
Responsible person: Ivan Cheben „C“

25. Title: *Edition of archaeological sources from the Neolithic and Eneolithic periods of Slovakia II.*
Grant number: 2/0072/17
Duration: 01. 01. 2017 – 31. 12. 2020
Responsible person: Gabriel Nevizánsky„C“

26. Title: *The medieval village and its background*
Grant number: 2/0143/18
Duration: 01. 01. 2018 – 31. 12. 2021
Responsible person: Peter Bednár „C“

27. Title: *Dynamics of the environmental changes and landscape development in the Bronze and Iron Age in the northern part of the Western Carpathians*
Grant number: 1/0399/18
Duration: 01. 01. 2018 – 31. 12. 2021
Responsible person: Lucia Benediková „W“

28. Title: *Fords, bridges, waterways and settlement patterns in Považie and Ponitrie. Pilot project for utilisation of the archaeological underwater methods in Slovakia*
Grant number: 2/0146/18
Duration: 01. 01. 2018 – 31. 12. 2021
Responsible person: Klaudia Daňová „C“

29. Title: *Development and changes of settlement structures of the Upper Tisza river basin in prehistory and early history*
Grant number: 2/0084/18
Duration: 01. 01. 2018 – 31. 12. 2021
Responsible person: Eva Horváthová „C“

30. Title: *Slovakia and Central Danubia: development from the early historic period to the beginning of the Middle Ages*
Grant number: 2/0084/18
Duration: 01. 01. 2018 – 31. 12. 2021
Responsible person: Karol Pieta „C“

31. Title: *Metallurgy and non-ferrous metals use from late prehistory until early medieval age in area of Slovakia*
Grant number: 2/0115/18
Duration: 01. 01. 2018 – 31. 12. 2020
Responsible person: Ján Rajtár „C“

32. Title: *Roman fort at Iža and its position on the border of Pannonia*
Grant number: 1/0358/18
Duration: 01. 01. 2018 – 31. 12. 2021
Responsible person: Ján Rajtár „W“

33. Title: *Knowledge of the Bronze Age economy and society in the area north of the middle Danube, through archaeological and environmental sources*
Grant number: 1/0100/19
Duration: 01. 01. 2019 – 31. 12. 2022
Responsible person: Jozef Bátora „C“

34. Title: *Technology and economics of raw materials in the context of the development of Postpaleolithic lithic stone industries in Slovakia*
Grant number: 2/0101/19
Duration: 01. 01. 2019 – 31. 12. 2022
Responsible person: Adrián Nemergut „C“

35. Title: *Ethnic and cultural changes of medieval society (6th-13th centuries) in archaeological sources*
Grant number: 2/0088/20
Duration: 01. 01. 2020 – 31. 12. 2023
Responsible person: Gabriel Fusek „C“

36. Title: *Archaeology, anthropology and the sex of an individual as a key factor for understanding burial customs of prehistoric societies*
Grant number: 2/0145/20
Duration: 01. 01. 2020 – 31. 12. 2023
Responsible person: Zuzana Hukeľová „C“

37. Title: *Medieval Economy (6th - 13th Century)*
Grant number: 2/0124/20
Duration: 01. 01. 2020 – 31. 12. 2023
Responsible person: Matej Ruttkay „C“

38. Title: *The role of material culture in the formation of economic and social relations in the Late Medieval and Post-medieval communities*
Grant number: 2/0083/21
Duration: 01. 01. 2021 – 31. 12. 2023
Responsible person: Mário Bielich „C“

39. Title: *The landscape and settlements of the Celts and Germani Mutual relations, relations in and with the landscape*
Grant number: 1/0240/21
Duration: 01. 01. 2021 – 31. 12. 2024
Responsible person: Gertrúda Březinová „I“

40. Title: *Reflection of socio-economic changes in the structure of founding and construction of prehistoric settlements*
Grant number: 2/0062/21
Duration: 01. 01. 2021 – 31. 12. 2024
Responsible person: Jozef Ďuriš „C“

41. Title: *Development od culture and character of settlement from neolithic period up to the middle ages foristence in locality of Bratislava-Zlaté Piesky*
Grant number: 1/0608/21
Duration: 01. 01. 2021 – 31. 12. 2024
Responsible person: Milan Hanuliak „W“

42. Title: *Military and horse equipment in Medieval Period*
Grant number: 2/0159/21
Duration: 01. 01. 2021 – 31. 12. 2024
Responsible person: Michal Holeščák „C“

43. Title: *Settlement agglomeration of linear culture in the Žitava valley*
Grant number: 2/0075/21
Duration: 01. 01. 2021 – 31. 12. 2024
Responsible person: Ivan Cheben „C“

44. Title: *Mobility of prehistoric, protohistoric and historical communities in Slovakia and its manifestations in archaeological sources*
Grant number: 2/0139/21
Duration: 01. 01. 2021 – 31. 12. 2024
Responsible person: Anita Kozubová „C“

2.4.5. List of projects supported by EU Structural Funds

Title: *Data management of the Central Archaeological Record of the Slovak Republic*
Grant number: projekt_727
Duration: 01. 10. 2021 – 30. 09. 2023
Total funding/funding for the institute: under responsibility PI /58 445€
Responsible person: Matej Ruttkay „C“

2.4.6. List of other projects funded from national resources

Title: *Preserving and revitalising cultural and natural heritage and Promoting diversity in culture and the arts within the European cultural heritage*
Grant number: SKOS-CLT02004
Duration: 15. 10. 2014 – 29. 02. 2016
Total funding/funding for the institute: 399 729€/1500€
Responsible person: Matej Ruttkay „W“

Title: *Project SASPRO*
Grant number:
Duration: 01. 04. 2015 – 01.09.2018
Total funding/funding for the institute: 180 067€/120 891€
Responsible person: Péter Prohászka „C“

Title: *Project SASPRO*
Grant number:
Duration: 01. 01. 2016 – 31.12.2018
Total funding/funding for the institute: 208 578€/208 578€
Responsible person: Peter Christoph Ramsl „C“

Title: *From the Late Roman Border to the Barbarian Hinterland: A Study of Leather and Textile Objects Found in Germanic Elite Graves of the 4th and 5th Centuries AD, with a Focus on the Territory of Slovakia*
Grant number: SoE/2019/692/BELT

Duration: 01. 05. 2019 – 30.04.2022
Total funding/funding for the institute: 48 000€/40 000€
Responsible person: Tereza Štolcová „C“

Title: *Model reconstruction of archaeological buildings at the Bojná Valy Hillfort*
Grant number: Programme of the Ministry of Culture of the Slovak Republic.
Duration: 01. 01. 2018 – 31. 12. 2018
Total funding/funding for the institute: 64 000€/2 400€
Responsible person: Karol Pieta „W“

Title: *Research and restoration at the Pustý hrad in Zvolen*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.4. Restoration and conservation of torsional architecture.
Duration: 01. 01. 2016 – the research lasts
Total funding/funding for the institute: 94 987,68€/94 987,68€
Responsible person: Ján Beljak „W“

Title: *Research and restoration at the Castle Modrý Kameň*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.4. Restoration and conservation of torsional architecture.
Duration: 17. 06. 2016 – 30. 11.2016
Total funding/funding for the institute: 1 200€/1 200€
Responsible person: Ján Beljak „W“

Title: *Research and restoration at the Castle Čabraď*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.4. Restoration and conservation of torsional architecture.
Duration: 18. 05. 2016 – 31.12.2017
Total funding/funding for the institute: 1 080€/1 080€
Responsible person: Ján Beljak „W“

Title: *Research and restoration at the Castle Divín*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.4. Restoration and conservation of torsional architecture.
Duration: 31. 05. 2016 – the research lasts
Total funding/funding for the institute: 19 125,6€/19 125,6€
Responsible person: Eva Fottová „W“

Title: *Research and restoration at the Castle Muráň*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.4. Restoration and conservation of torsional architecture.
Duration: 01. 05. 2016 – 30.11.2016
Total funding/funding for the institute: 2 662,5€/2 662,5€
Responsible person: Róbert Malček „W“

Title: *Research and restoration at the Castle Gýmeš*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.4. Restoration and conservation of torsional architecture.
Duration: 01. 08. 2016 – 30. 12. 2021
Total funding/funding for the institute: 8 697€/8 697€
Responsible person: Mário Bielich „W“

Title: *Research and restoration at the Castle Vinné*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.4. Restoration and conservation of torsional architecture.
Duration: 01. 01. 2016 – the research lasts
Total funding/funding for the institute: 21 278,92€/21 278,92€
Responsible person: Peter Bednár „W“

Title: *Research and restoration at the St. Martin´s Church in Hontianska Vrbica*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.4. Restoration and conservation of torsional architecture.
Duration: 21. 07. 2016 – 16. 09. 2020
Total funding/funding for the institute: 4 600€/600€
Responsible person: Eva Fottová, Petra Smatanová „W“

Title: *Archaeological research at the Benedictine monastery in Hronský Beňadik*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.1. Restoration of cultural monuments.
Duration: 01. 03. 2017 – 25.01.2018
Total funding/funding for the institute: 1 159,2€/1 159,2€
Responsible person: Peter Bednár „W“

Title: *Research and restoration at the Castle Revište*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.1. Restoration of cultural monuments.
Duration: 17. 05. 2016 – the research lasts
Total funding/funding for the institute: 15 253,32€/15 253,32€
Responsible person: Kristína Kučeráková „W“

Title: *Research and restoration at the Castle Šášov*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.4. Restoration and conservation of torsional architecture.
Duration: 29. 04. 2016 – the research lasts
Total funding/funding for the institute: 2 629,32€/2 629,22€
Responsible person: Kristína Kučeráková „W“

Title: *Research and restoration at the Castle Lietava*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.4. Restoration and conservation of torsional architecture.
Duration: 27. 06. 2016 – the research lasts
Total funding/funding for the institute: 15 301,2€/15 301,2€
Responsible person: Mário Bielich „W“

Title: *Research and restoration at the Castle Hrušov*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.4. Restoration and conservation of torsional architecture.
Duration: 02. 07. 2018 – the research lasts
Total funding/funding for the institute: 6 691,2€/6 691,2€
Responsible person: Mário Bielich „W“

Title: *Research and restoration at the Plavecký hrad/Castle*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.4. Restoration and conservation of torsional architecture.
Duration: 02. 09. 2018 – the research lasts
Total funding/funding for the institute: 6 714€/6 714€
Responsible person: Mário Bielich „W“

Title: *Archaeological research of the extinct medieval village of Šoldov in the cadastre of Štrba*
Grant number: Programme of the Ministry of Culture of the Slovak Republic "Let's Restore Our House", sub-programme 1.4. Restoration and conservation of torsional architecture.
Duration: 17. 05. 2016 – 06.12.2018
Total funding/funding for the institute: 36 000€/36 000€
Responsible person: Matej Ruttkay „W“

2.4.7. List of projects funded from private funds

The IA SAS carried out 606 rescue excavations during the evaluated period. The legislation in Slovakia is set up in such a way that the research induced by construction activity (existence of a site, findings on the land threatened by the construction, or assumption of the existence of a site) is paid by the investor of the construction.

Year	Number of archaeological excavations	Amount
2016	116	292 298,32
2017	101	987 550,12
2018	115	322 954,76
2019	104	400 614,12
2020	75	517 884,36
2021	95	424 223,30

However, these were funds that were subsequently used for the implementation of the excavations – hiring of earthmoving machines, workers, purchase of consumables for the field (tools), refinancing of fuel and subsequent preservation of the finds obtained by the field archaeological research. Moreover, the salaries of involved archaeologists – mostly young reserachers after their PhD that were in this way able to find the employment in the Institute – were covered from these sources.

2.4.8. List of projects funded from other competitive funds

None

2.5. PhD studies and educational activities

2.5.1. List of accredited programmes of doctoral studies, period of validity, source of funding

- Constantine The Philosopher University in Nitra - Faculty of Arts 10. 11. 2011 (signed cooperation contract).
- Comenius University in Bratislava- Faculty of Arts 30. 6. 2009 (signed cooperation contract).

2.5.2. Summary table on doctoral studies (number of internal/external PhD students at the end of the year; number of foreign PhD students, number of students who successfully completed their theses during the year, number of PhD students who quit the programme during the year*)*

PhD study	2016			2017			2018			2019			2020			2021		
Number of potential PhD supervisors																		
PhD students	number, end of year	defended thesis	students quitted	number, end of year	defended thesis	students quitted	unumber, end of yea	defended thesis	students quitted	number, end of year	defended thesis	students quitted	number, end of year	defended thesis	students quitted	number, end of year	defended thesis	students quitted
Internal total	18	1	1	16	3	0	12	3	0	8	3	2	7	0	2	6	1	2
from which foreign citizens	1	0	0	1	0	0	1	0	0	1	0	0	0	0	1	1	0	0
External	6	2	0	5	0	1	3	2	0	3	1	1	3	2	0	3	0	0
Other supervised by the research employees of the institute	8			5	4		4	1		2	3		1			1		

2.5.3. PhD carrier path – Information on the next career steps of the PhD graduates who received their degree from the institute

2016

HORVÁTH, P.: Private sector
SLANÁ, A.: Považské múzeum (Múzeum of Považie region) in Žilina (archaeologist)
VLACH, M.: Institute of Archaeology of the Academy of Sciences of the Czech Republic, Brno (archaeologist)

2017

HOLEŠČÁK, M.: Institute of Archaeology SAS, Nitra; from 2020 Head of Department of archeology of the Middle Ages and early Modern History (archaeologist)
KISSOVÁ, M.: Institute of Archaeology SAS, Nitra; Department of rescue archaeology and prospecting (archaeologist)
VRTELOVÁ, A.: Economic and Social Council of the Slovak Republic – Ministry of Labour, Social Affairs and Family

2018

JAKUBČINOVÁ, M.: Department of archeology of the Middle Ages and early Modern History (archaeologist)
NEZVALOVÁ, L.: Institute of Archaeology SAS, Nitra; Department of rescue archaeology and prospecting (archaeologist)
ORAVKINOVÁ, D.: Institute of Archaeology SAS, Nitra; Department of rescue archaeology and prospecting (archaeologist)
VANGĽOVÁ, T.: Institute of Archaeology SAS, Nitra; Department of rescue archaeology and prospecting (archaeologist)
ZAJACOVÁ, B.: Private Archaeological Company – Archeo Sever s.r.o. (archaeologist)

2019

FELCAN, M.: Monuments Board of the Slovak Republic (archaeologist)
BOBEK, P.: Institute of Archaeology SAS, Nitra; Department of rescue archaeology and prospecting (archaeologist)

FOTTOVÁ, E.: Institute of Archaeology SAS, Nitra; Department of rescue archaeology and prospecting (archaeologist)
GÁBOR, P.: Tribeč Museum in Topoľčany (archaeologist)

2020

CHEBEN, M.: Institute of Archaeology SAS, Nitra; Department of rescue archaeology and prospecting (archaeologist)
OPOROSKOVÁ, S.: National Monuments Board, Žilina (archaeologist)

2021

DROZD, D.: Institute for Cultural Landscape Research (archaeologist)

In 2016–2021, 18 PhD. students successfully completed their defences. Two PhD students were employed outside the field of archaeology. The remaining 16 PhD students found employment in the field of archaeology. Several of the successful graduates (9) found employment at the IA SAS. Two of them work at the Regional Monuments Boards in Žilina and Bratislava, two work in regional museums in Topoľčany and Žilina. One of the former students works at the Institute of Cultural Landscape Research, one former PhD student works at the private archaeological company and one former student is employed at the Institute of Archaeology of the Academy of Sciences of the Czech Republic in Brno. The long-term study process that doctoral students have completed at the IA SAS has resulted in ongoing inter-institutional cooperation on scientific projects, publications, research and conferences.

2.5.4. Summary table on educational activities

Teaching	2016	2017	2018	2019	2020	2021
Lectures (hours/year)*	177	173	131	123	276	311
Practicum courses (hours/year)*	14	312	84	95	172	91
Supervised diploma and bachelor thesis (in total)	3	6	7	6	8	4
Members in PhD committees (in total)	4	7	4	7	6	8
Members in DrSc. committees (in total)	3	3	2	3	0	2
Members in university/faculty councils (in total)	7	7	7	6	5	3
Members in habilitation/inauguration committees (in total)	2	3	2	2	1	6

2.5.5. List of published university textbooks

KAMINSKÁ, Ľubomíra. Dejiny praveku a včasnej doby historickej na Slovensku: Vysokoškolská učebnica. Košice: Katedra histórie, Filozofická fakulta, Univerzita Pavla Jozefa Šafárika, 2018. 220 s. ISBN 978-80-8152-704-3

SOJÁK, Marián. Pravek Európy (s dôrazom na Karpatskú kotlinu a Slovensko): Vysokoškolské skriptá. Recenzenti Mária Novotná, Václav Furmánek. Ružomberok: VERBUM - vydavateľstvo KU, 2020. 143 s. ISBN 978-80-561-0859-8

2.5.6. Number of published academic course books

2.5.7. List of joint research laboratories/facilities with universities

The IA SAS cooperates with several universities at home and abroad. The cooperation is declared on the basis of contracts and joint projects, especially projects that use the potential of both or more workplaces. In practice, this means that archaeological research is partly carried out in laboratories at the site, but some parts of the research are carried out at specialised university departments as part of joint projects.

University: *Institut fűr Frűhgeschichte Christian Albrechts-Universität Kiel, Germany* – a research facility that analyses organic samples taken from sites from the Neolithic and Eneoliothic in Slovakia

University: *Universität für Bodenkultur UFT - Tulln, Austria* – research workplace, which analyses samples of strontium isotopes from sites in Slovakia and also functions as a training workplace for Slovak archaeologists.

University: *Eötvös Loránt University Budapest, Hungary* – student field practice and teaching at archaeological sites.

University: *Jagiellonian University of Cracow, Poland Hungary* – student field practice and teaching at archaeological sites.

University: *Masaryk university Brno, Czech Republic Hungary* – student field practice and teaching at archaeological sites.

University: *Commenius University Bratislava, Faculty of Arts, Department of Archaeology* – joint workplace in the research of fortified settlements from the Bronze Age.

University: *Constantine the Philosopher University in Nitra, Faculty of Natural Sciences* – laboratory processing of non-ferrous metal objects from the researches of the Institute of Archaeology of the Slovak Academy of Sciences in the period from the late prehistory to the early historical period

University: *Constantine the Philosopher university in Nitra, Faculty of Arts, Department of Archaeology* – laboratory processing of organic materials from Bronze Age and Iron Age excavations in the northern part of the Western Carpathians.

University: *Trnava University, Faculty of Philosophy and Art, Department of Classical Archaeology* – joint workplace in the research and processing of sources from the Roman castel in Iža

2.5.8. Supplementary information and/or comments on doctoral studies and educational activities – focused on what changes have occurred since the last evaluation in 2016

The topics of doctoral theses at the IA SAS usually correspond with the topics (partial tasks in) of grant projects. For this reason the PhD students become part of project teams after starting their studies. Integration into a scientific team is an important part of the scientific work that future researchers learn in this environment. It is also an opportunity to get to know the "bureaucratic" side of the project, which is again a preparation for the creation of their own grant projects.

The IA SAS regularly organises doctoral colloquia twice a year. During these colloquia, doctoral students report on the progress of their work or on problems that have arisen during their work. It is a space for discussion and searching for new possibilities in the progress of the work.

The IA SAS supports study trips and stays of PhD students, as well as participation in national and international conferences (see chapters 2.3.7., 2.3.10.).

The institution purposefully trains young researchers, several of whom are offered a postdoctoral position upon completion of their doctoral studies (see chapter 2.5.3.).

Due to demographic trends compared to the previous evaluation period, there is a noticeable decline in interest in doctoral studies in 2016–2021. However, this is a phenomenon that is also noted by other departments in the field of archaeology. Universities have also reported low interest in studying the discipline. It is a rule of thumb that universities have only 2 to 3 students in their final year of study. In this respect, the Institute of Archaeology of the Slovak Academy of Sciences is also open to foreign students who are interested in doctoral studies in archaeology in Slovakia.

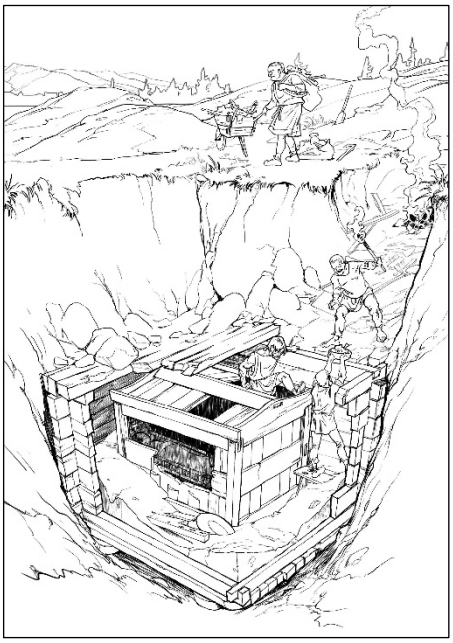
2.6. Societal impact

2.6.1. The most important case studies of the research with direct societal impact, max. 4 for institute with up to 50 average FTE researchers per year, 8 for institutes with 50 – 100 average FTE researchers per year and so on. Structure: Summary of the impact; Underpinning research; References to the research; Details of the impact; Sources to corroborate the impact. One page per one case study

From the large number of significant outputs, we select the following case studies:

"The prince of Poprad" and his tomb

Summary of the impact:
The significant discovery of a fully preserved princely wooden tomb (4th century AD) has gradually developed into a European research project involving researchers from five countries, whose main partners are the Institute of Archaeology of the Slovak Academy of Sciences and the Stiftung Schleswig-holsteinische Landesmuseen, Zentrum für baltische und skandinavische Archäologie. The tomb is an important part of the European cultural heritage and is becoming an iconic European find with increasing scholarly and popular outputs. This is evidenced by the interest among European experts and not only among the Slovak but also among general public abroad. The research brought together experts from European scientific institutions, representatives of the local government of the town of Poprad and the Prešov Self-Governing Region, as well as regional representatives of the museum institution.



Underpinning research:
The field research in 2006 was just the beginning of almost two decades of interdisciplinary scientific cooperation. The research in the evaluated period focused on the use and application of new methods of controlled drying of historical wood without preservatives, on a comprehensive analysis of the physical condition and origin of the buried specimen, on the creation of a dendrochronological curve for *Larix decidua*, on the digital and physical reconstruction of unique historical furniture, and on the reconstruction of the prince's historical clothing. Several journal studies for prestigious periodicals – e.g. also for the journal Nature, as well as book outputs have been produced. As part of the applied research in the period under review, intensive work was carried out on the preparation of documents for the realization of an exhibition dedicated exclusively to this find in the museum in Poprad.

References to the research – selection:
PIETA, Karol - ŠTOLCOVÁ, Tereza. Knieža z Popradu a jeho hrobka Recenzenti Erik Hrnčiarik, Juraj Bartík. 1. vydanie. Nitra: Archeologický ústav SAV, 2021. 160 s. Archeologické pamätníky Slovenska, Tom 12. ISBN 978-80-8196-053-6
LAU, Nina - PIETA, Karol. Die antike Öffnung des Kammergrabes von Poprad-Matejovce. In Na hranicích impéria: Jaroslavu Tejralovi k 80. narozeninám. - Brno: Masarykova univerzita: Archeologický ústav AV ČR, Brno, v. v. i., 2017, s. 255-266. ISBN 978-80-210-8579-4.
DAMGAARD, Peter de Barros - MARCHI, Nina - RASMUSSEN, Simon - PEYROT, Michael - PIETA, Karol - SMRČKA, Václav - ŠTOLCOVÁ, Tereza - KRISTIANSEN, Kristian - WILLERSLEV, Eske. 137 ancient human genomes from across the Eurasian steppes. In Nature, 2018, vol. 557, no. 7705, p. 369-374. (2017: 41.577 - IF, Q1 - JCR, 17.875 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0028-0836. Dostupné na: https://doi.org/10.1038/s41586-018-0094-2
LAU, Nina - PIETA, Karol - ŠTOLCOVÁ, Tereza. Poprad – Matejovce. Ein Kammergrab des 4. Jahrhunderts nach Chr. im Zipser Land. Band 1, Nitra – Schleswig 2022. 704 strán.

Detail of the impact:
The discovery of a tomb with uniquely preserved parts of its structure and furnishings made of organic materials (wood, textiles, leather) is an exceptional basis for a **comprehensive presentation of the personality of the representative of the Germanic power elite** from the end of the Roman period–the beginning of the Migration period.

The exciting story of his origins, his life, his health, his main activities during his lifetime is complemented by the story that unfolded after his death – thanks to detailed field research, we were able to unravel the criminal plot of the robbery of his grave after his burial and closure on the basis of field clues.
The tomb is a central element of the **new permanent exhibition** of the Podtatranské Museum in Poprad, which will contribute to the **development of tourism** in Slovakia.
Part of the preparation of this exhibition includes the **creation of many replicas** of the clothing and equipment of the prince and the tomb itself, which **benefit the wider community of artisans, as well as students** of local arts and crafts schools.
In addition to its undeniable **scientific value**, the **educational benefit** of the find to the public is naturally undeniable.
The tomb and the results of its research have long been the subject of media interest. In 2019, Slovak Television made a medium-length **documentary** about the find.

Sources to corroborate the impact – selection:
Film:
https://www.rtvs.sk/televizia/archiv/14735/202258#898.

Slovakia:
http://archeol.sav.sk/index.php/2022/05/04/hrobka-popradskeho-kniezata-sa-po-konzervacii-vracia-na-slovensko/#more-6103
http://archeol.sav.sk/index.php/2022/05/13/kniezacia-hrobka-z-popradu-sa-po-16-rokoch-vratia-na-slovensko/
https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=20&news_no=10349
https://www.muzeumpp.sk
https://www.teraz.sk/spravy/hrobka-popradskeho-kniezata-sa-po-rok/630781-clanok.html

Germany:
https://www.zeit.de/news/2022-04/26/grabkammer-nach-konservierung-auf-rueckweg-in-die-slowakei
https://www.shz.de/lokales/schleswiger-nachrichten/Grab-von-Poprad-Was-die-Funde-Schleswiger-Archaeologen-verraten-id37231572-amp.html
Video (from 22:20): https://www.ndr.de/fernsehen/sendungen/schleswig-holstein_magazin/Schleswig-Holstein-Magazin-26042022,shmag92870.html

Early Bronze Power Centre

Summary of the impact: An important site from the Early Bronze Age (2000 - 1500 BC) in the east of Slovakia in the village of Nižná Myšľa has already won many fans during the research. On the basis of public interest, work began on the presentation of the research results in the form of an archaeoskanzen. On the basis of the findings, replicas of two dwellings, an entrance gate with a palisade to Settlement I and a unique sacrificial pit were constructed. With financial assistance from the Government of the Slovak Republic, an information and cultural centre was built at the site in 2019/2020 as part of the archaeoskanzen; this is used in tourism and mainly as an educational centre for numerous school events. The archaeological research in Nižná Myšľa has also been a training site for students of archaeology and related disciplines from Slovakia and abroad for decades.

Underpinning research: Systematic research for scientific purposes has been carried out since 1977. Since 1988, the East Slovak Museum Košice and since 1995 also the COLLEGIUM MYSSLE civic association have been involved in the research. About a third of the prehistoric area of about 10 hectares has been explored so far. The older fortified settlement has been uncovered almost in its entirety, and 817 graves have already been discovered in the ancient burial ground. Nižná Myšľa is the largest burial site investigated. Thanks to systematic research, we can now address questions of detailed chronology, social differentiation of the people living in the settlement, morbidity and causes of death, as well as reconstruct life in the settlement. The rich finds fund has been the subject of many years of research. This has gradually yielded new insights into the acquisition of raw materials, their processing and the skills involved in making the products. On the basis of the material culture, we can observe contacts that go far beyond the borders of today's Slovakia.

References to the research: - výber

AEGER, Mateusz - STRÓZYK, Mateusz - OLEXA, Ladislav - NOVÁČEK, Tomáš. Dating the ladies: spatio-temporal development of the Early Bronze Age cemetery at Nižná Myšľa (Slovakia). In Documenta Praehistorica, 2021, vol. XLIII, p. 340-353. (2020: 0.587 - SJR, Q1 - SJR). ISSN 1408-967X. OLEXA, Ladislav - OLŠAV, Štefan - SZABOVÁ, Lucia. Vybrané doklady remeselnej činnosti na opevnenom sídlisku II v Nižnej Myšli = Selected Evidence of Crafts at the Fortified Settlement II in Nižná Myšľa. In Slovenská archeológia: časopis Archeologického ústavu SAV v Nitre, 2021, roč. 69, č. 2, s. 217–257. (2020: 0.306 - SJR, Q2 - SJR). (2021 - WOS, ERIH PLUS, SCOPUS, CEJSH). ISSN 1335-0102. Dostupné na: https://doi.org/10.31577/slovarch.2021.69.10

OLEXA, Ladislav - NOVÁČEK, Tomáš. Pohrebisko zo staršej doby bronzovej v Nižnej Myšli: Katalóg III (hroby 500-792). Nitra: Archeologický ústav SAV, 2017. 328 s. Archaeologica Slovaca Monographiae: Catalogi, Tomus XVIII. ISBN 978-80-8196-012-3

Detail of the impact:

Tourism: Nižná Myšľa is a popular tourist centre visited by families and schools. The information and cultural centre provides space for the organisation of accompanying events - lectures "Journeys into prehistory". An attraction for tourists is also the ongoing archaeological research, where they can see the work of archaeologists directly in the field.

Experimental Centre: the Archaeopark is also an experimental centre of the Institute of Archaeology of the Slovak Academy of Sciences, where various craft activities are tested.

Sources to corroborate the imapct: výber

https://www.archeoskanzen.sk/

https://www.sorger.sk/atrakcie/archeologicky-skanzen-nizna-mysla

https://www.pamiatkynaslovensku.sk/nizna-mysla-archeologicke-nalezisko

Early historical ritual sites

Summary of the impact: The systematic elaboration of cult manifestations with the interpretation of sacrificial sites and ritual burials has brought new insights into the religious ideas of Celtic, Germanic and Slavic communities in the Western Carpathian region. Elements of the long-term continuity of natural shrines and sacrificial sites were confirmed. The reconstruction of one of these sacrificial sites has served visitors for several decades as part of the Nature Museum at Havránok above Liptovská Sielnica. In the period under review, the Institute's staff participated in the presentation of this site to the public in cooperation with the administrator of the building, the Liptov Museum in Ružomberok.

Underpinning research:
Archaeologically identified manifestations of the cult in the form of sacrificial sites, deposits and burial complexes were analysed and confronted with the results of natural history analyses, including the DNA of the buried, as well as iconographic and historical sources. The result confirmed the intensive contacts of the local communities with distant parts of Europe at that time, including the ancient Mediterranean. The research confirmed the long-term continuity of the ritual depictions of valuables at natural sacrificial sites in the Western Carpathian region.

References to the research – selection:
PIETA, Karol. Hromadné nálezy z Prosieka a Vyšného Kubína: Poznámky k včasnostredovekému osídleniu Liptova a Oravy. In Slovenská archeológia: časopis Archeologického ústavu SAV v Nitre, 2016, roč. 64, č. 2, s. 261-280. ISSN 1335-0102.
BENEDIKOVÁ, Lucia - PIETA, Karol. Využitie krajiny stredného Liptova v praveku a včasnej dobe dejinnej. In Študijné zvesti Archeologického ústavu SAV, 2018, č. 63, s. 147-196. (2018 - WOS, SCOPUS). ISSN 0560-2793.
PIETA, Karol. Ein mittellatènezeitlicher Brandopferplatz in Slatina nad Bebravou. In Študijné zvesti Archeologického ústavu SAV, 2018, vol. 64, s. 89-114. (2018 - WOS, SCOPUS). ISSN 0560-2793.
THOMAS, Renate. Remarkable Bronze Find from Slatina nad Bebravou. In Študijné zvesti Archeologického ústavu SAV, 2018, vol. 64, pp. 115-148., Registrované v: WOS.
JEŽIŠKOVÁ, Lucia - PIETA, Karol. Laténske hradisko v Stupnom. In Študijné zvesti Archeologického ústavu SAV, 2019, roč. 65, s. 71-87. (2018: 0.102 - SJR, Q4 - SJR). (2019 - WOS, SCOPUS, CEJSH, ESCI). ISSN 0560-2793.
PIETA, Karol. Early Roman Period Burials of Púchov Culture: Buried Natives or Offered Foreigners? In Slovenská archeológia: časopis Archeologického ústavu SAV v Nitre, 2019, roč. 67, č. 2, s. 241-286. (2018: 0.125 - SJR, Q3 - SJR). (2019 - SCOPUS, WOS, ERIH PLUS, CEJSH). ISSN 1335-0102.
PIETA, Karol. Die frühvölkerwanderungszeitliche Höhensiedlung in Dolná Súča, Westslowakei: Ein Berg mit Hortungstradition. In Slovenská archeológia: časopis Archeologického ústavu SAV v Nitre, 2020, roč. 68, č. 1, s. 37-68. (2019: 0.167 - SJR, Q2 - SJR). (2020 - WOS, ERIH PLUS, SCOPUS, CEJSH). ISSN 1335-0102.

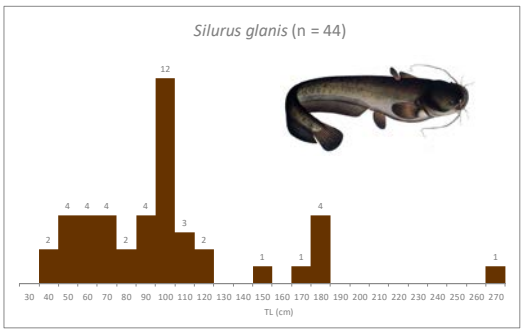
Detail of the impact:
The first Slovak open-air museum in Liptovská Sielnica-Liptovská Mara (Havránok), which was established and professionally guaranteed by the Institute of Archaeology of the Slovak Academy of Sciences, is an attractive part of tourism in Slovakia. It attracts thousands of visitors every year.
Part of its operation is a **live reconstruction of the sacrificial rituals** of early historic communities, which also includes **educational lectures** for the public by the staff of the IA SAS. Celtic festivals and expert lectures and thematic seminars are also held here.

Sources to corroborate the impact – selection

https://www.muzeum.sk/archeologicke-muzeum-v-prirode-liptovska-mara-havranok.html
https://liptovskemuzeum.sk/expozicia/havranok/
http://archeol.sav.sk/index.php/sk/stredolatenske-kultove-miesto-v-slatine-nad-bebravou/
https://spravy.pravda.sk/regiony/clanok/468313-v-keltskom-obetisku-nasli-cast-panciera-greckeho-bojovnika/
https://plus7dni.pluska.sk/historia/obetisko
https://www.sav.sk/index.php?doc=services-news&source_no=20&news_no=6536/6536

Animals as food in the past

Summary of the impact:



Animals have been part of human history since the beginning of time. The study of animal bones has become a desirable part of archaeological research. Current research on animal husbandry and dietary practices associated with the consumption of animal food has focused on the processing of large and by modern methods acquired archaeozoological material. These provide new insights into the range of animal food, and reveal other, hitherto not fully revealed species of animal food (aquatic animals). It is this knowledge that can be offered to the public in the form of engaging outputs.

Underpinning research:

Research in the period under review focused on the knowledge of the animal economy and the dependent food habits of communities settled in Slovakia in the past. Animal bone finds from archaeological sites from the Iron Age, Roman, medieval and modern periods were analysed and evaluated. Studies were produced in the form of extensive overview works for individual periods or cultures. Case studies aimed at detailed multidisciplinary evaluation of archaeological situations and objects have also been well received, and have contributed to expanding the interpretive possibilities of archaeozoology. Current research has also peripherally touched on the theme of animals in the rituals and burial practices of ancient human populations.

Surprising findings from the perspective of archaeozoology were brought by the research of findings from an important sacral monument – Zobor Monastery in Nitra. The analysis revealed the strict dietary habits of the Camaldolese order, and proved that they included many aquatic animals, including fish. The collection is also exceptional in terms of knowledge about the introduction of new animal species to our territory. The research included the first comprehensive treatment of a larger assemblage of fish bones in Slovakia to date.

Conference on diet: 49th International Conference on Medieval Archaeology - Archaeologia Historica on the topic: Production, processing and storage of food in the Middle Ages and Early Modern times. Zvolen, Slovakia, 18. 09. – 22. 09. 2017

References to the research – selection:

BIELICHOVÁ, Zora. Doba laténska na strednom a západnom Slovensku z pohľadu archeozoológie In: Ľudia a hory - archeologická perspektíva: Interakcie ľudských spoločenstiev horských a podhorských oblastí západného Slovenska, 2019, Supplementum 12, s. 195-237.

BIELICHOVÁ, Zora. Archaeozoology of the Late Roman Period Settlement at Veľké Zálužie in the Context of Regional Data. In: Slovenská archeológia: časopis Archeologického ústavu SAV v Nitre, 2019b, roč. 67, č. 1, s. 61-112.

BIELICHOVÁ, Zora - LABUDA, Jozef. Nálezy zvieracích kostí z výskumu Glanzenbergu tzv. Starého mesta v Banskej Štiavnici. In Zborník Slovenského banského múzea. ročník XXV. Banská Štiavnica: Slovenské banské múzeum, 2017, s. 30-69. BEF

BIELICHOVÁ, Zora - HAJNALOVÁ, Mária - KMEŤOVÁ, Petra - BARTA, Peter. Animal and Plant Remains from Two Kalenderberg Group (Hallstatt Culture) Cremation Graves in Devín-Záhrady, Slovakia. Interdisciplinaria archaeologica, 2020, vol. XI, issue 2, p. 149-176.

BIELICHOVÁ, Zora - SAMUEL, Marián - HENSEL, Karol. Ryby a pôst v Zoborskom kláštore pri Nitre vo svetle archeozoologických dokladov. In: Študijné zvesti Archeologického ústavu SAV, 2019, roč. 65, s. 133-178. ABB

HAJNALOVÁ, Mária - BIELICHOVÁ, Zora - RAJTÁR, Ján - KRČOVÁ, Denisa - ČEJKA, Tomáš - ŠUSTEK, Zbyšek - MIHÁLYIOVÁ, Jana. A Roman Structure from Hurbanovo, SW Slovakia: Multiproxy Investigation of Unique Waterlogged Deposit. In: Interdisciplinaria Archaeologica, 2018, roč. IX, vol. 1, s. 43–69. ADMB

HUKEĽOVÁ, Zuzana – BIELICHOVÁ, Zora – KROŠLÁKOVÁ, Mária – DAŇOVÁ, Klaudia – CHEBEN, Michal. Nosila rúško? Osteoarcheologický rozbor hrobu zo sídliska zo staršej doby bronzovej v Zbehoch. In: Slovenská archeológia: časopis Archeologického ústavu SAV v Nitre, 2020, roč. 68, Supplementum 1, s. 225-236. ADNB

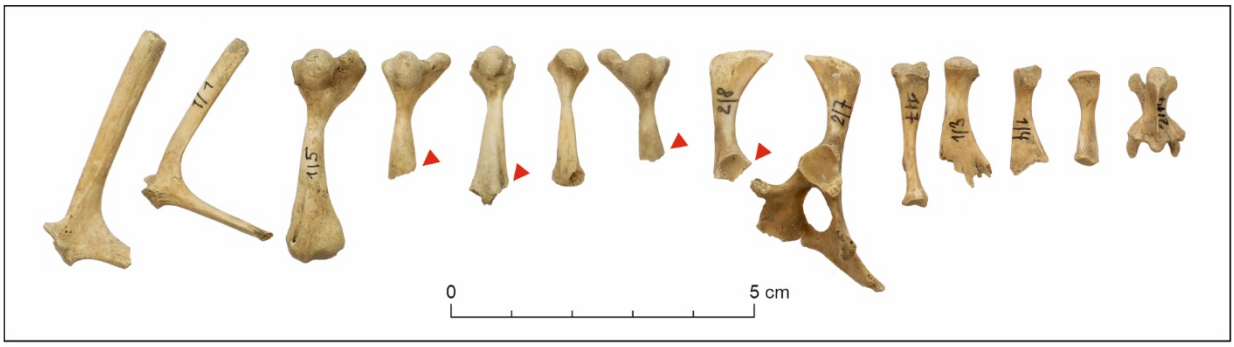
RUTTKAY, Matej - VOJTEČEK, Marek. Produkcia, spracovanie a skladovanie potravín v rurálnom prostredí v stredoveku a včasnom novoveku - stav a perspektívy výskumu na Slovensku. In 49. medzinárodná konferencia archeológie stredoveku: Produkcia, spracovanie a skladovanie potravín v stredoveku a včasnom novoveku. Ed.Matej Ruttkay, Milan Hanuliak, Ján Beljak, Lucia Nezvalová, Marek Vojteček. - Nitra: Archeologický ústav SAV, 2017, s. 8. ISBN 978-80-8196-005-5. AFF

Detail of the impact:

Natural history methods are an attractive part of archaeological research. They allow us to learn about our historical contemporaries – animals and their interactions with humans. Unique sets of archaeozoological findings from Nitra have been presented at several professional forums and in lectures for the public, on websites or on information panels of the educational nature trail.

Sources to corroborate the impact – selection:

https://zoborskyklastor.sk/7-strava-zoborskych-mnichov/



Romans and Slovakia

Summary of the impact:

The Roman castel in Iža was built in the 2nd–4th centuries. A.D. as a part of the Roman frontier fortifications of the limes romanus and the only permanent outpost of the Roman army on the left bank of the Danube on the northern borders of the province of Pannonia. During the period under review, attention was focused on research of its hinterland, on the scientific evaluation, but also on the presentation of the results to the public. The monument has been attracting the interest of the Slovak and international professional and lay public. In the summer of 2021 the castel in Iža as part of the international site "Borders of the Roman Empire - Danube Limes (western part)" was inscribed on the UNESCO World Heritage List. In the years 2020 and 2021, in cooperation between the Academy of Sciences of the Slovak Academy of Sciences and the Department of Classical Archaeology of the University of Trnava, with the support of the Police Department of the Slovak Republic and the company Helicop, s. r. o., a bottom survey and sonar measurements of the Danube river near Iža were carried out, which brought the discovery of the remains of the pillars of the Roman bridge. The IA SAS cooperates on the virtual presentation of the castel in Iža and was one of the organisers of the exhibition "Romans and Slovakia"

Underpinning research:

Comprehensive documentation of the excavations and a database of the finds was prepared using both conventional and modern archaeological methods, with maximum use of digital technologies, as well as natural scientific analyses. Research on hydrological conditions and archaeological finds in the Danube by underwater archaeology (it was established as an additional research cluster in the IA SAS in the evaluated period in response to the current challenges of archaeological research in Slovakia) methods was also carried out, which brought evidence of the existence of a bridge between the legionary camp in Brigetia and the castel in Iža. The project made significant use of cooperation with domestic and foreign institutions and experts, which was reflected in participation in a number of scientific events and publications, including several joint outputs.
Geophysical measurements, verification trenches and systematic surveys were carried out on the sites of temporary Roman camps – 22 camps were verified and/or discovered and investigated at 8 sites from the period of the Roman military expeditions to the area north of the middle Danube during the Marcomannic Wars.

References to the research – selection:

KOMORÓCZY, Balázs - RAJTÁR, Ján - VLACH, Marek - HÜSSEN, Claus-Michael. A companion to the archaeological sources of Roman military interventions into the Germanic territory north of the Danube during the Marcomannic Wars. In Marcomannic Wars and Antonine Plague Selected essays on two disasters that shook the Roman World. - Brno; Lublin: Czech Academy of Sciences, Institute of Archaeology: Instytut Archeologii, Uniwersytet Marii Curie-Skłodowskiej, 2020, 173-254. ISBN 978-80-7524-026-2.
LENĎÁKOVÁ, Zuzana - BÁBEK, Ondřej - KOMORÓCZY, Balász - VLACH, Marek - HÜSSEN, Claus-Michael - RAJTÁR, Ján: Petrophysical and geochemical characterization of sediments filling V-shaped ditches of Roman camps in Moravia, Czech Republic: Filling processes and the role of pedogenesis. In Geoarchaeology, 2020, vol. 35, iss. 3, p. 729-747.
KOMORÓCZY, Balázs - VLACH, Marek - HÜSSEN, Claus-Michael - RAJTÁR, Ján: C-14 dating of the Roman military interventions in the Middle Danube barbarian world. In Radiocarbon, 2019, vol. 61, no. 2, p. 515-530. ISSN 0033-8222.
RAJTÁR, Ján - HÜSSEN, Claus-Michael: Römische Feldlager aus der Zeit der Markomannenkriege in der Slowakei. In: Nick Hodgson, Paul Bidwell, Judith Schachtmann (eds.), Proceedings of the XXI International Congress of Roman Frontier Studies (Limes Congress) held at Newcastle upon Tyne in August 2009. Archaeopress Roman Archaeology 25, Oxford 2017, 537-544. ISBN 978 1 78491 5902.

HÜSSEN, Claus-Michael - KOMORÓCZY, Balázs - RAJTÁR, Ján - VLACH, Marek: Archaeological footprints of a superpower in hostile territory: Recent research on the traces of Roma militar activities in the barbarian region north of the Middle Danube. In Experiencing the Frontier and the Frontier of Experience: Barbarian perspectives and Roman strategies to deal with new threats. - London: Archaeopress Publishing Ltd, 2020, 10-36. ISBN 978-1-78969-681-1.
RAJTÁR, Ján - HÜSSEN, Claus-Michael: Ein eiserner Klappstuhl aus dem römischen Feldlager in Závod, Westlowakei. In Bericht der Bayerischen Bodendenkmalpflege. Band 62. - Bonn: Habelt, 2021, 347-358. ISBN 978-3-7749-4324-7.

Detail of the impact:
The development of the presentation activities of the Roman monument in Iža and its hinterland is also of **interest to the representatives of museums, local municipalities and state authorities**. In cooperation with the Academy of Sciences of the Slovak Academy of Sciences, a geophysical survey of the Iža castel site was carried out in 2021 within the framework of the international project "Living Danube Limes" of the EU Interreg-Danube Transnational Programme No. 359, which provided a picture of the preservation of the structure of its fortifications and internal buildings, as well as a **digital reconstruction of the appearance of the stone castel** at the time of its construction in the early 3rd century. AD (company 727, s. r. o.). As a **digital application**, it is and will be accessible to the general public, especially to visitors of the monument and the Roman and Ethnographic Museum in Iža, with an upgraded exhibition.
The knowledge gained from the research in Iža and the temporary Roman camps in Slovakia has been and is being presented in the **exhibition "Romans and Slovakia"** organised by the Slovak National Museum – Historical Museum, installed at Bratislava Castle from December 2021.

Sources to corroborate the impact – selection:
Interviews for press and media about the discovery of the underwater remains in Iža and UNESCO (selection):
https://www.cas.sk/clanok/2570371/necakali-ze-najdu-nieco-take-unikatny-objav-archeologov-na-juhu-slovenska-prepisuje-historiu/
https://spravy.rtvs.sk/2021/07/potapacmi-patraju-pri-obci-iza-po-zvyskoch-rimskeho-pristavu/
https://www.truni.sk/news/archeologovia-nasli-pozostatky-rimskeho-mosta-v-koryte-dunaja
https://www.rtvs.sk/radio/archiv/1314/1691903

Exhibition:
https://www.snm.sk/muzea-snm/historicke-muzeum/historicke-muzeum/navstivte/aktualne-vystavy?clanok=rimania-a-slovensko

Early medieval centres of power

Summary of the impact: Hillfort in Bojná was selected as one of the principal examples of the early medieval power centre, its hinterland and economy. Bojná became – apart from being scientifically key site of the knowledge on the Early Middle Ages, the centre of the further research of the early medieval hinterland and landscape, and the centre of scientific meetings – the symbolic „centre of power“ of the historical knowledge for the broader public about the national history of Slovakia. From the international point of view the site became one of a number in the network of archaeologically investigated and in situ presented spots from the early medieval period in Central Europe. Apart from being a „classical“ open air museum it is also a place of regular living archaeology venues attracting the attention of the public not only from the region but also from the rest of the country and from abroad. Besides, the local municipality established an in-door museum in the village and is being active in gaining external funding for the further research and improvement of the presentation of its results.

Underpinning research: Bojná hillfort has been being excavated by the IA SAS since 2007. The results of the project of systematic interdisciplinary research (archaeology, paleoenvironmental research, geophysics, LIDAR) of the system of early medieval fortifications in Bojná and their hinterland – including a few burial places – is unique in its scope, the amount of sources obtained and the results achieved. It has brought new information that goes beyond the regional framework and completes the picture of the origins and development of the Slavic settlement of the central Danube region. Currently, the 16th excavation campaign is carried out on the sites in and around Bojná.

References to the research – selection:

Bojná 2: Nové výsledky výskumov včasnostredovekých hradísk. Ed.Karol Pieta, Zbigniew Robak. Nitra: Archeologický ústav SAV, 2017. 416 s. Archaeologica Slovaca Monographiae: Fontes, Tomus XXII. ISBN 978-80-8196-008-6.

PIETA, Karol - RUTTKAY, Matej. Centrá Veľkej Moravy a ich prezentácia: Nitra a Bojná In Monumentorum tutela: ochrana pamiatok. 29. - Bratislava: Pamiatkový úrad SR: ICOMOS Slovensko, 2018, s. 15-34. ISBN 978-80-89175-86-4.

BORZOVÁ, Zuzana - PIETA, Karol - JAKUBČINOVÁ, Miriam*. Bojná 3: Poľnohospodárske náradie z hradiska Valy a jeho zázemia. Nitra: Archeologický ústav SAV, 2020. 152 s. Archaeologica Slovaca Monographiae: Fontes, Tomus XXIV. ISBN 978-80-8196-046-8.*

PIETA, Karol - ROBAK, Zbigniew. The Early Medieval Hillfort Bojná-Valy, Slovakia, and its Defence System. In Acta Archaeologica Carpathica. Vol. LII. - Kraków: Polish Academy of Sciences and Polish Academy of Arts and Sciences, 2018, s. 171-186. ISSN 0001-5229.

PIETA, Karol - JAKUBČINOVÁ, Miriam - ROBAK, Zbigniew - VANGĽOVÁ, Terézia. Výskum včasnostredovekej aglomerácie Bojná = Erforschung der frühmittelalterlichen Agglomeration Bojná. In Archeologické výskumy a nálezy na Slovensku v roku 2013. - Nitra: Archeologický ústav SAV, 2018, s. 129-133. ISSN 0231-925X.

ROBAK, Zbigniew. Wczesnosredniowieczne grodzisko Bojná-Valy na Slowacji. Nowe interpretacje. In Historia Slavorum Occidentis: czasopismo historyczne, 2021, vol. 28, no. 1, s. 36-64. ISSN 2084-1213. Dostupné na: https://doi.org/10.15804/hso210102.

PIETA, Karol - ROBAK, Zbigniew. The Military Finds from Bojná III and Klátova Nová Ves near Topoľčany, Slovakia. In Bewaffnung und Reiterausrüstung des 8. bis 10. Jahrhunderts in Mitteleuropa: Waffenform und Waffenbeigaben bei den mährischen Slawen und in den Nachbarländern. - Brno: Archeologický ústav AV ČR, 2019, s. 441-452. ISBN 978-80-86023-59-5.

PIETA, Karol - ROBAK, Zbigniew. The Early Medieval Hillfort Bojná-Valy, Slovakia, and its Defence System. In Acta Archaeologica Carpathica. Vol. LII. - Kraków: Polish Academy of Sciences and Polish Academy of Arts and Sciences, 2018, s. 171-186. ISSN 0001-5229.
VANGĽOVÁ, Terézia. Včasnostredoveká keramika z hradiska Bojná I-Valy. In Slovenská archeológia: časopis Archeologického ústavu SAV v Nitre, 2020, roč. 68, č. 1, s. 95-181. (2019: 0.167 - SJR, Q2 - SJR). (2020 - WOS, ERIH PLUS, SCOPUS, CEJSH). ISSN 1335-0102. Dostupné na: https://doi.org/10.31577/slovarch.2019.68.6
JAKUBČINOVÁ, Miriam. Výstroj jazdca a koňa v 9. storočí z územia dnešného Slovenska s prihliadnutím na nálezy v Bojnej: Dizertačná práca. Nitra: Archeologický ústav SAV ; Bratislava: Univerzita Komenského FF, 2018. 169 s.

Detail of the impact:
The comprehensiveness of research and presentation in the region allows to create a **comprehensible picture of the settlement structure and the use of the landscape for the scientific and lay public**. Those interested in the results of the research will find several reconstructions of residential and farm buildings on the site, as well as an attractive experimental reconstruction of the eastern gate of the hillfort. This 12-metre-high monumental work – a faithful replica of the historical wooden architecture from the 9th century - has a special reputation both at home and abroad.
The National Cultural Monument Bojná-Valy is a much visited **tourist site**.
The attractiveness of the site means the **involvement of the local authorities and the inhabitants** and **raising their awareness of the cultural heritage and the importance of its preservation**.
A number of activities attractive to the public and for the development of tourism are linked to the research, offering **developing** opportunities for **businesses**. Historical events in the region have also given **opportunities to many artistic entities**.

Sources to corroborate the impact – selection
Museum presentation; movies; fiction works; large number of online information incl. Video presentations, e.g.:
The Museum of Great Moravia in the village of Bojná, where visitors can find the results of the scientific work of the Institute of Archaeology of the Slovak Academy of Sciences in an accessible form, is technically operated by the Municipality of Bojná: https://www.bojna.sk/archeologicke-muzeum-velkej-moravy.html.
In 2019, a detective story based on the results of research in Bojná was published in the Czech Republic. Slovak Television made and broadcast two medium-length documentaries about the research results in 2019 and 2020.
https://visitnitra.eu/sk/destinacie/bojna/
https://www.youtube.com/watch?v=uKPfSDlsr6I
https://www.sdetmi.com/podujatia/detail/46568/archeologicke-nalezisko-valy/

Interdisciplinar research of castles

Summary of the impact:

The information obtained by archaeological, historical, construction-historical and archival research has been summarized over several years. Systematic research of castles in Pohronie has brought together several scientific institutions and municipalities. The result is the Pohronská cesta project, several engaging monographs and many scientific articles. The Pohron Castle Route project focuses on the presentation of the latest research results of guard castles, manor houses and towers built near the Hron River. Research and presentation of historical objects of medieval architecture to the wider public as important elements of tourism is a common part of the work of our institution also elsewhere in Slovakia. One of the many important attractions is the in situ presentation of the exceptional remains of the massive mound with a wooden structure at Bratislava Castle.

Underpinning research:

In the period under review, research was carried out at the castles of Vinné, Modrý Kameň, Zvolen-Pustý hrad, Revište, Šášov, Gýmeš, Lietava, Hrušov, Podhoroď Plavecký hrad, Muráň, Čabraď, Divín, Nitriansky hrad, Bratislavský hrad.

The research of medieval castles helped to refine their chronological development, to find out the construction phases and reconstructions of the castles and at the same time to get an architectural idea of their appearance in the individual centuries. This information is important for monument restoration and presentation. The research has also provided important insights into the fortification construction techniques that were intended to secure the castles from the enemy. The "history of everyday life" is conveyed to us by the artefacts found. Interdisciplinary research on botanical remains and animal bones has reconstructed the range and methods of eating in castles.

References to the research – selection:

Budatínsky hrad. Ed.Peter Bednár, Zuzana Staneková, Peter Šimko ; Nitra: Archeologický ústav SAV; Žilina: Považské múzeum, 2017. 231 s. ISBN 978-80-88877-81-3.

30 rokov výskumu Nitrianskeho hradu 1988-2018: Ed. Peter Bednár, Matej Ruttkay; Nitra, 2021. 236 s. Archaeologica Slovaca Monographiae: Communicationes, Tomus XXVII. ISBN 978-80-8196-055-0.

BELJAK, Ján - *BELJAK PAŽINOVÁ, Noémi - ŠIMKOVIC, Michal. Pustý hrad vo Zvolene a hrad Peťuša: vo svetle aktuálnych výskumov. Recenzenti Marta Mácelová, Dominik Repka. 1. vyd. Zvolen: Mesto, 2018. 100 s. ISBN 978-80-570-0010-5*

BELJAK, Ján - *BELJAK PAŽINOVÁ, Noémi - MÁZOR, Martin. Pustý hrad vo Zvolene - dejiny výskumu a obnovy kráľovského hradu 1992 - 2021: Pustý hrad vo Zvolene - history of research and restoration of the royal castle 1992 - 2021. Zvolen, 2021. 148 s. ISBN 978-80-570-3645-6*

BELJAK, Ján - *KALIČIAKOVÁ, Zuzana - ŠIMKOVIC, Michal. Výskum hradu Modrý Kameň 2013-2019 = Modrý Kameň castle research 2013-2019. Modrý Kameň: Občianske združenie Hradčan, 2020, s. 71-102. ISBN 978-80-970221-3-6.*

BELJAK, Ján - RUTTKAY, Matej - MÁCELOVÁ, Marta. Hradisko vo Zvolene – Môťovej vo svetle najnovších výskumov = Hillfort Zvolen – Môťová in the light of new discoveries. In *Stredné Slovensko v stredoveku: Vývoj osídlenia regiónu pred udelením mestských privilégií mestu Zvolen*. - Zvolen: Mesto, 2018, s. 124-157. ISBN 978-80-570-0554-4.

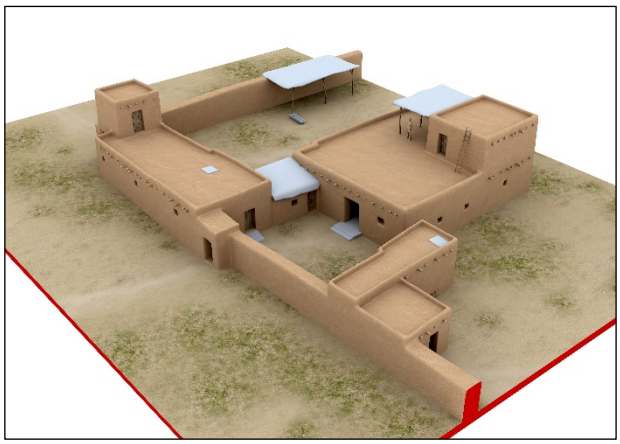
BIELICH, Mário. Late Gothic and Renaissance Stove Tiles from Lietava Castle, Slovakia. In. *Europa Postmediaevalis 2020: Post-medieval pottery in the spare time*. - Oxford: Archaeopress, 2021, 2021, s. 267-280. ISBN 978-1-78969-917-3.

Detail of the impact:
The increasing tourist activity breathed the castles into their former glory. After centuries, castles are once again becoming centres - but this time for active recreation, entertainment and education. Several reconstructed castles host period festivals and jousts.
Preserving cultural heritage: Without prior comprehensive research, it would not have been possible to carry out restorations, thus losing part of the cultural heritage that we can enjoy to the full today.

***Sources to corroborate the impact – selection*:**
https://www.pohronskehrady.sk/
https://ms-my.facebook.com/pohronskehrady/videos/podarilo-sa-n%C3%A1m-nie%C4%8Do-ve%C4%BEk%C3%A9-%EF%B8%8Fchcete-vedie%C5%A5-ako-vyzeral-hrad-revi%C5%A1te-v-17-storo%C4%8D%C3%AD/927929187913211
https://ms-my.facebook.com/pohronskehrady/videos/kr%C3%A1%C4%BEovsk%C3%A1-svadba-sa-po-takmer-800-rokoch-vracia-na-pust%C3%BD-hrad-vo-zvolene/257797581889921
https://webmagazin.teraz.sk/zivot/obnova-bratislavskeho-hradu-odkryla-uni/10987-clanok.html
https://www.sav.sk/?lang=en&doc=services-news&source_no=20&news_no=8995

Archaeology beyond Europe

Summary of the impact:



Research activities in the Middle East and North Africa represent the involvement of the IA SAS in international research networks active in this cultural-geographical region.The Institute is involved in two expeditions – the Kuwaiti-Slovak Archaeological Mission in Kuwait, and the Slovak Archaeological Mission in Sudan (the latter with the Institute of Oriental Studies SAS).

In addition to scientific research, both archaeological investigations have a significant social and cultural impact in all the countries involved.

In Kuwait, two sites are being investigated and worked on – a medieval settlement of a Christian community and a port and settlement from the Bronze Age. In Sudan, the site is again a religious building – dating from the modern period – namely the second largest mosque in Sudan. All three sites selected represent important monuments of key pillars of local history. The research has been accompanied by considerable interest from local, national and international experts, as well as sincere interest from the public, local politicians, journalists, etc. The presentation of the results of archaeological research to the public and to local and state government officials is given great importance by both Middle Eastern partners.

Thanks also to these two scientific research activities, the IA SAS contributes to the penetration of Slovakia into the group of countries with advanced scientific diplomacy.

Underpinning research:

Kuwaiti-Slovak archaeological Mission

During the period under review, the IA SAS investigated the extensive settlement of Al-Qusur from the 7th–8th centuries. The research activities also included the processing of material from the first phase of the KSAM in 2004–2009. Reconstruction, conservation and documentation of the finds is also an obvious part of the mission's work (see chapter 2.3.1).

Slovak research in the Sudanese site Duweym Wad Haj

Research from 2018 to 2022 in the cooperation of the Slovak (IA SAS, Institute of Oriental Studies SAS) and Sudanese Institutions of the old mosque at the Duweym site (see chapter 2.3.1).

References to the research – selection:

Archaeology of Failaka and Kuwaiti coast – current research. Eds. Matej Ruttkay, Branislav Kovár, Karol Pieta. Nitra: Institute of Archaeology, Slovak Academy of Sciences; Bratislava: VEDA, Publishing house of the Slovak Academy of Sciences; Kuwait City: National council for culture, Arts and letters, 2019. 204 s. Archaeologica Slovaca Monographiae: Communicationes, Tomus XXIII. ISBN 978-80-8196-028-4.

ASHKANAMI, Hasan J. - KOVÁR, Branislav. Investigating ancient technology and ceramic composition at Al-Khidr site (Failaka Island, Kuwait): Geochemical analyses of Bronze Age pottery by pXRF and thin-section petrographic analyses. In Arabian Archaeology and Epigraphy, 2021, vol. 32, no. 1, p. 8-20. (2020: 0.384 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1600-0471. Dostupné na: https://doi.org/10.1111/aae.12184

KOVÁR, Branislav - DAŇOVÁ, Klaudia - PIETA, Karol. Al-Khidr site on Failaka Island in the Bronze Age: Pottery. In Arabian Archaeology and Epigraphy, 2021, vol. 32, no. 1, p. 33-40. (2020: 0.384 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1600-0471. Dostupné na: https://doi.org/10.1111/aae.12194

HUDEC, Jozef - CHEBEN, Michal - KOVÁR, Branislav. Report on Surveys in Duweym Wad Haj. In Asian and African Studies, 2019, vol. 28, no. 2, p. 168-179. (2018: 0.125 - SJR, Q3 - SJR). (2019 - Scopus, Wos). ISSN 1335-1257.

HUDEC, Jozef - CHEBEN, Michal - KOVÁR, Branislav. Výskumy lokality Duweym Wad Hadž v Sudáne v rokoch 2017 a 2018 = Research at DuweymWad Haj in the Sudan in 2017 and 2018 Seasons. In Študijné zvesti Archeologického ústavu SAV, 2019, roč. 65, s. 207-220. (2018: 0.102 - SJR, Q4 - SJR). (2019 - WOS, SCOPUS, CEJSH, ESCI). ISSN 0560-2793.
HUDEC, Jozef - KOVÁR, Branislav - FULAJTÁR, Emil - LIESKOVSKÝ, Tibor - HORÁKOVÁ, Lenka - ČERNÝ, Miroslav - BARTA, Peter. A Brief Report on the 2019 Season in Duweym Wad Haj. In Asian and African Studies, 2021, vol. 30, no. 1, p. 202-224. (2020: 0.128 - SJR, Q3 - SJR). ISSN 1335-1257.
SMOLÁRIKOVÁ, Květa - HUDEC, Jozef. The Lower Torso of a Granite Royal Statue from Duweym Wad Haj. In Asian and African Studies, 2021, vol. 30, no. 2, p. 473-480. (2020: 0.128 - SJR, Q3 - SJR). ISSN 1335-1257.

Detail of the impact:
There is a great interest in KSAM's research activities among the local (as well as Slovak) public, Kuwaiti politicians and representatives of local elite families. The mission is widely visited by excursions of various groups (schools, various associations, Slovak expatriates in Kuwait, other foreign expats in Kuwait, diplomats, politicians, businessmen, etc.). The results of the expedition's stay in Kuwait are presented in various forums – local representatives organise lectures by our scientists in the museum or in other cultural and educational institutions. All these activities support the interest of the local authorities in obtaining information, rescuing, preserving and presenting their cultural heritage. Many media interviews have also been produced in Slovakia.
The archaeological research in Sudan had its charity and development dimension in addition to the dimension already mentioned for the Kuwait mission. Members of the mission support marginalised communities in the hard-pressed Sudan. The Slovak mission in Sudan was popularised in Slovakia as part of the eight-part RTVS series Slovak Archaeologists in Sudan.

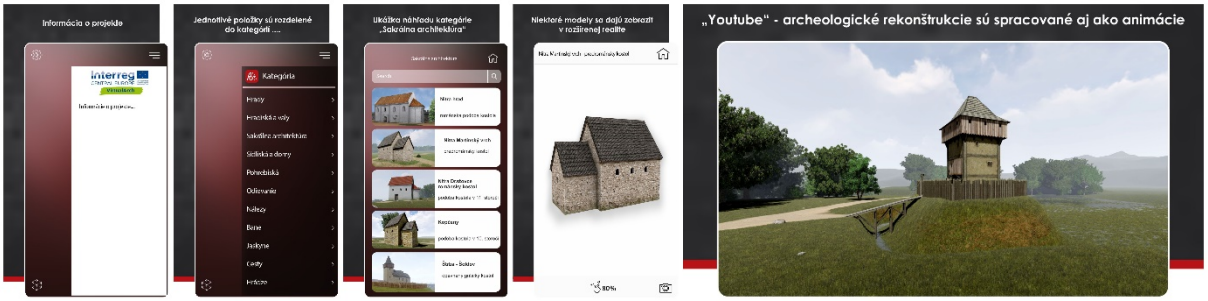
Sources to corroborate the impact – selection:
Kuwait
https://vat.pravda.sk/zem/clanok/514512-slovenski-archeologovia-skumali-v-kuvajte-osadu-al-qusur/
https://hnonline.sk/science/veda/595404-slovenski-archeologovia-objavili-v-kuvajte-staroveku-klimatizaciu
https://www.rtvs.sk/televizia/archiv/13986/190088#1853

Sudan movie series
https://www.rtvs.sk/televizia/archiv/18253/300110 (first part, other parts also available in RTVS archive)

Sudan other
http://www.rtvs.sk/televizia/archiv/13982/181537#2296
https://vat.pravda.sk/zem/clanok/498099-slovenski-egyptologovia-a-archeologovia-idu-do-sudanu/
https://dennikn.sk/1394614/slovenski-vedci-patraju-v-nubii-po-starovekom-osidleni-v-pusti-som-zazil-uplne-ticho-vravi-archeolog/
https://vedanadosah.cvtisr.sk/ludia/historia-a-archeologia/slovensky-vyskum-na-sudanskej-lokalite-duwejm-wad-hadz/

3D and virtual archaeology

Summary of the impact: Construction activities in cities and industrial areas bring innumerable archaeological movable and immovable finds. After a survey, however, most of the archaeological situations are destroyed by constructions. On the sites, we later see routes, houses, factories and other facilities. Only a small percentage of the objects remain uncompromised and covered with soil. Even less are publicly available.
Archaeologists, representatives of the public or the government as well as some investors attempt to present at least some of the discovered features, for example in a form of small exhibitions inside newly constructed buildings or popular leaflets. Such practices, however, are rare. Fortunately, virtual archaeology in all its variations brings new possibilities. Researchers from the IA SAS museums and non government civic associations try to indicate the best ways to make the invisible archaeological heritage in the city available to the public.



Underpinning research: Today, 3D documentation has become a standard method not only in the field, but also in our 3D laboratories. This venture relies on application of various approaches – laser scanners, photogrammetry, and other tools – often in combination. Today, numerous excavations are already being documented in a form of a comprehensive, daily 3D documentation. With this workflow archaeological finds are 3D recorded quickly, objectively and non-invasively.
In excavation and architecture documentation we have decided to proceed with photogrammetry or a combination of scanning and photogrammetry. The results are used in various types of outputs - scientific studies and monographs, popular science outputs, exhibitions, at home and abroad.

References to the research – selection:

ZAJACOVÁ, B./ARPÁŠ, A./RUTTKAY, M.: Inovatívne metódy v archeológii na príkladoch zo Žilinského kraja. 10. konferencia Inovačný rozvoj regiónov 2016. Žilina, 21.4.2016.
RUTTKAY, Matej. 3D Archaeology at the Archaeological Institute of the Slovak Academy of Sciences. In CHNT 23: Postkonference Visual Heritage 2018 - Wien; Bratislava: CHN: MUOP, 2018.
BEDNÁR, Peter – HOLEŠČÁK, Michal - RUTTKAY, Matej. _ZAJACOVÁ, Barbara: Transnational Stakeholder Workshop - INTERREG "Public archaeology and the use of innovative media and visualization tools", Nitra, 22.10.–24.10.2018
RUTTKAY, Matej. Three-dimensional archaeology. In Archeológia je moderná veda: Objavujeme naše (stredo)európske korene. Nitra, 2020, s. 63-73. ISBN 978-80-8196-042-0.
RUTTKAY, Matej. Presentation of archaeological cultural heritage in Nitra. In 30 rokov výskumu Nitrianskeho hradu 1988-2018: Nitra, 2021, s. 123-144. ISBN 978-80-8196-055-0.

Detail of the impact:
The results of these activities are welcomed with great public interest. At exhibitions, 3D presentations have become a magnet especially for the younger generation. Virtual and augmented reality products are also very popular. We also provide our services to foreign partners - currently the Reiternomaden exhibition in Schallaburg, Austria (in autumn in Halle). The results are also regularly presented in national and regional media and not infrequently used in scientific publications.

Sources to corroborate the impact – selection
VirtualArch - Interreg (interreg-central.eu)
http://archeol.sav.sk/index.php/en/virtual-arch/
Archeologické rekonštrukcie (sav.sk)
Virtuálna archeológia - fotogaléria - plus.sme.sk - plus.sme.sk
SAV - Aktuality - Archeológovia SAV predstavujú aplikáciu, ktorá umožní virtuálnu prehliadku artefaktov
IXPO - IXPO | TALK - Doc. RNDr. Matej Ruttkay, CSc.: Archeológia a nové technológie | Facebook
IXPO - Najväčší technologický festival
SAV - Aktuality - Na vedcov SAV boli zvedavé stovky návštevníkov festivalu IXPO
SAV - Aktuality - Vyšla 25. epizóda Vedeckého podcastu SAV
Čarovné Slovensko, marec 2021, www.facebook.com/magazincarovneslovensko
HNonline.sk - hnonline.sk - Moderné technológie menia aj archeológiu, dávno neexistujúcim stavbám vrátili pôvodnú podobu

Projects - *selection*:
INTERREG – VirtualArch CE-947
APVV-19-0563: Mocenské centrá a ich zázemie v 8.–11. storočí.
VEGA č. 2/0001/18: Slovensko a stredné Podunajsko: vývoj od včasnej doby dejinnej po začiatok stredoveku.
VEGA č. 02/0143/18: Stredoveká dedina a jej zázemie. VEGA 2/0124/20: Ekonomika stredoveku (6.-13. storočie)

LiDAR

***Summary of the impact*:** Archaeological research has literally been revolutionised by the rise of drone or aircraft scanning technology. It makes it possible to erase forest cover and new hitherto unknown structures began to appear before their eyes - hillforts, burial mounds, vanished roads, small waterworks, massive mining works, etc. The knowledge of these contexts is important for archaeological research itself, but it is also of immense benefit for the knowledge of the landscape. Its results are useful in tourism, in the creation of nature trails and cultural routes, as well as in many NGO activities.

Underpinning research: In 2013, IA SAS together with the National Forestry Centre in Zvolen were the first in Slovakia to start scanning large areas for archaeological purposes. Since the end of 2019 UGKK SR has been gradually publishing data from the entire territory of Slovakia, which is a great help for archaeologists. The team at IA SAS is gradually analysing the data and, in particular, carrying out detailed surface transects and documentation. usually in combination with geophysical surveys.

References to the research – selection:

RUTTKAY, Matej. Využitie leteckej prospekcie a skenovania pri výskume hradísk a ich zázemia na západnom Slovensku = Application of the aerial prospection and scanning for research of hillforts and their hinterlands in Western Slovakia. In Bojná 2 Nitra: Archeologický ústav SAV, 2017, s. 297-334. ISBN 978-80-8196-008-6.

RUTTKAY, Matej. 3D Archaeology at the Archaeological Institute of the Slovak Academy of Sciences. In CHNT 23: Postkonference Visual Heritage 2018 - Wien ; Bratislava: CHN: MUOP, 2018.

BEDNÁR, Peter – HOLEŠČÁK, Michal - RUTTKAY, Matej. _ZAJACOVÁ, Barbara: Transnational Stakeholder Workshop - INTERREG "Public archaeology and the use of innovative media and visualization tools", Nitra, 22.10.–24.10.2018

RUTTKAY, Matej. Strongholds – Routes – Frontiers – LIDAR: New Finding of the Research on Early Medieval Strongholds in Slovakia. In Archäologische Studien zum frühen Mittelalter, Nitra, 2017, s. 161-174. ISBN 978-80-8196-009-3.

RUTTKAY, Matej - PIETA, Karol - ROBAK, Zbigniew. Reconstruction and Making Archaeological Sites Available to the Public – the Case of the Early Medieval Sites in Nitra and Bojná. In Analecta Archaeologica Ressoviensia: Gone with the wind? Early medieval central pklaces in today´s rural areas. Volume 13. - Rzeszów: Institute of Archaeology RW, 2019, s. 171-186. ISSN 2084-4409. Dostupné na: https://doi.org/10.15584/anarres.2018.13.9 Typ: AECA

RUTTKAY, Matej - PIETA, Karol - ROBAK, Zbigniew. Nowe metody badań wczesnośredniowiecznych grodzisk zachodniej Słowacji = New methods of research of early medieval strongholds in Western Slovakia. In Wspólczesne metody badań wczesnośredniowiecznych grodów Europy Środkowo-Wschodniej. - Wroclaw: Instytut Archeologii i Etnologii PAN, 2019, s. 133-143. ISBN 978-83-66463-07-3

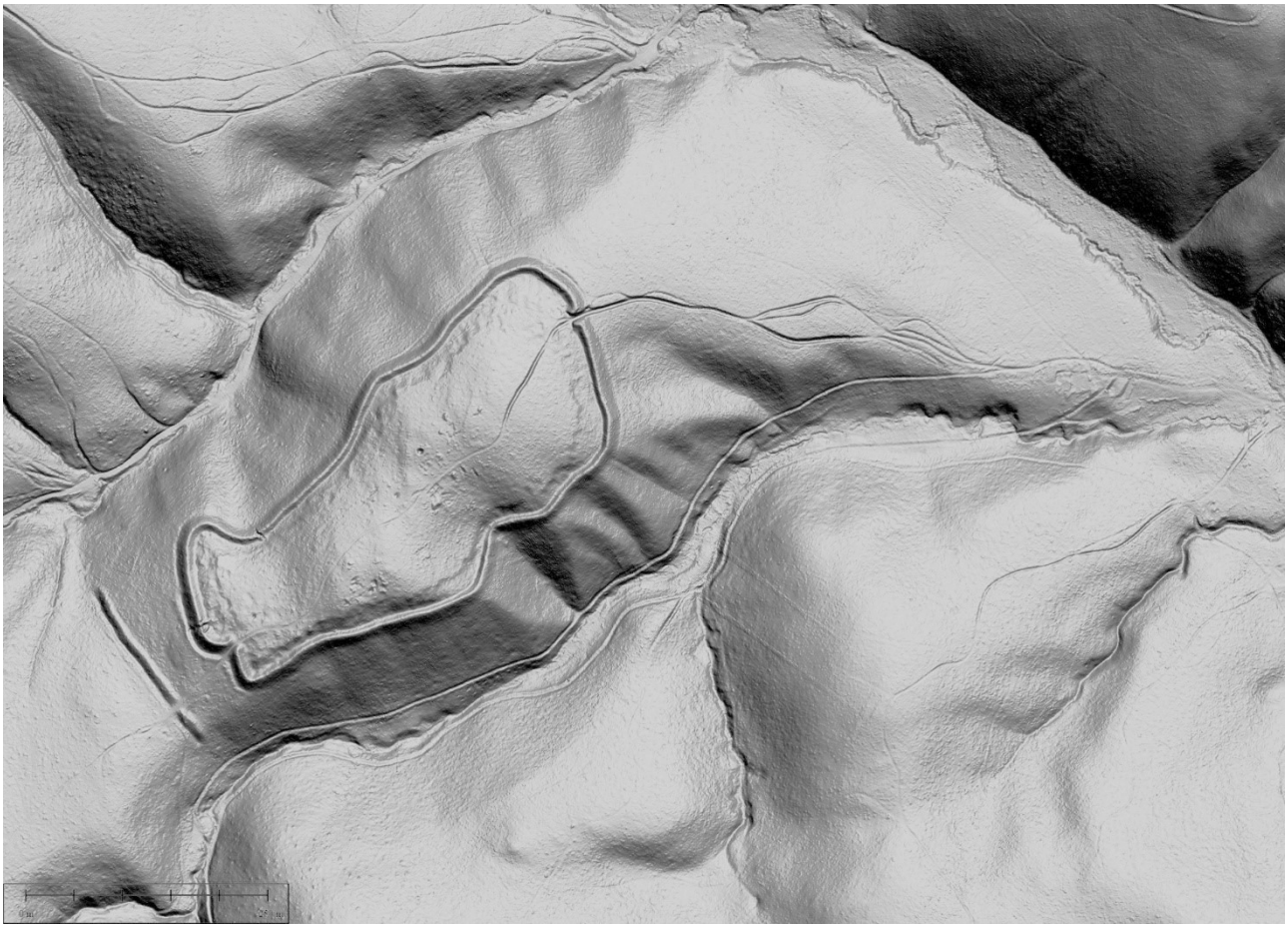
Detail of the impact:

Technology has intensified contacts and cooperation between archaeologists and local governments, which are very interested in the presentation of their regions. At the same time, cooperation with those interested in learning about the past from all ages has intensified.

Thanks to the openness of access to data, this phenomenon also has its negative side - the illegal looting of archaeological sites. This, in turn, has had a knock-on effect on changing the priorities of archaeological research - the necessity for rapid surveys and research and more intensive

cooperation with civic associations and amateurs. At the same time, pressure has been created to change the legislative environment so that hitherto unknown sites can be better protected.
The topic has received a great deal of interest from the local and regional media and local government.

Sources to corroborate the impact – selection
IXPO - Najväčší technologický festival
Lidar – Archeologický ústav SAV
SAV - Aktuality - Na vedcov SAV boli zvedavé stovky návštevníkov festivalu IXPO
Portrét archeológa Mateja Ruttkaya - TA3
HNonline.sk - hnonline.sk - Moderné technológie menia aj archeológiu, dávno neexistujúcim stavbám vrátili pôvodnú podobu
30 minute film **Lidar and Archaeology** – Trigon production pre RTVS



2.6.2. List of the most important studies and/or other activities commissioned for the decision-making authorities, the government and NGOs, international and foreign institutes (title, name of institution, contract value, purpose (max 20 words))

Title: Statements on construction activity
Name of institution: Monument authorities, municipalities, private persons, investors
Contract value: This is a service resulting from the Monuments Act
Purpose: Statements are issued for the use of the builder. They represent expert opinions on the potential occurrence of archaeological sites in the area threatened by the construction. During the evaluated period, IA SAS issued **2414 statements.**

Title: Preparation of documents for the legislative procedure for the creation of the new Monuments Act
Name of institution: Ministry of Culture
Contract value: This is a service
Purpose: The working group presented a detailed material on the necessary legislative changes in the Act on the Protection of the Monument Fund under the title "Comments and suggestions on the issue of legislation for the implementation of archaeological research in the Slovak Republic.

Title: Consulting the document "Strategy for the protection of Monument Fund for 2017-2022 - Action Plan for 2021-2022"
Name of institution: Ministry of Culture
Contract value: This is a service
Purpose: Cooperation of scientific staff in the assessment of the document for the needs of the Ministry of Culture

Title: Forensic expertise for the authorities in criminal proceedings
Name of institution: Ministry of the Interior
Contract value: This is a service
Purpose: On the basis of its expertise provide information, opinions and expertise on archaeological objects

Title: Reviewing of research documentation for the state administration
Name of institution: Ministry of Culture
Contract value: This is a service
Purpose: Researchers of the AU SAV are in the advisory bodies of the Ministry of Culture and the Monuments Office of the Slovak Republic, where they assess research documentation from archaeological research.

Title: Reviewing foreign projects
Name of institution: project agencies
Contract value: This is a service
Purpose: Several researchers are evaluators of international projects (14 projects evaluated)

2.6.3. List of contracts and research projects with industrial and other commercial partners, incl. revenues (study title, name of institution, contract value, country of partner, purpose (max 20 words))

The funds are used for the implementation of the research – hiring of earthmoving machines, workers, purchase of consumables for the field (tools), refinancing of fuel and subsequent preservation of the findings obtained by the field archaeological research.

Study title: Príprava cestnej infraštruktúry – Strategický park Nitra
Name of institution: Združenie Doprastav - Strabag
Contract value: 620 312,30 € without VAT
Country of partner: SK
Purpose: Rescue archaeological research

Study title: Vysokotlakový plynovod Slovensko - Poľsko
Name of institution: Eustream
Contract value: 175 200,00 € without VAT
Country of partner: SK
Purpose: Rescue archaeological research

Study title: Rýchlostná cesta R4 Prešov
Name of institution: Váhostav-SK
Contract value: 180 591,96 € without VAT
Country of partner: SK
Purpose: Rescue archaeological research

Study title: Rýchlostná cesta R2 Mýtna - Tomášovce
Name of institution: združenie Metrostav - Hochtief
Contract value: 73 819,75 € without VAT
Country of partner: SK
Purpose: Rescue archaeological research

Study title: Elektrické vedenie 2 x 400kV Križovany - Bystričany
Name of institution: SEPS (Slovenská elektrizačná a prenosová sústava)
Contract value: 30 976 € without VAT
Country of partner: SK
Purpose: Rescue archaeological research

Study title: Príprava cestnej infraštruktúry – Strategický park Nitra – Križovatka Šindolka
Name of institution: Združenie Doprastav - Strabag
Contract value: 79 440,00 € without VAT
Country of partner: SK
Purpose: Rescue archaeological research

2.6.4.1 List of intangible fixed assets (internally registered IP (confidential know-how), patent applications, patents granted, trademarks registered) denoting background IPR

2.6.4.2 List of licences sold abroad and in Slovakia, incl. revenues (background IPR identification, name of institution, contract value, country of partner, purpose (max 20 words))

2.6.5. Summary of relevant activities, max. 300 words (describe the pipeline of valorization in terms of Number of disclosure, Number of registered IP internally, number of CCR/LIC contracts and their respective summary values, the support you are receiving in specific points internally at the institute, at SAS, externally – also the limitations and drawbacks.

2.7. Popularisation of Science (outreach activities)

2.7.1. List of the most important popularisation activities, max. 20 items

1. PUBLICATION ACTIVITY

The IA SAS prepares scientific-popularization books, brochures, librettos for exhibitions and short informative texts about the visited archaeological sites – especially castles. At the same time, the Institute is active on social networks, where it presents mainly fieldwork – current research – short videos of finding situations in situ. Every year, the latest results of the current year's research are published on the website of the IA SAS in the form of short informative texts, see: http://archeol.sav.sk/index.php/sk/kontakt/vyskum/terenny-vyskum/

2. DOCUMENTARY MOVIES

The staff of the IA SAS actively participated in the production of three films of the public television RTVS – Slovak Archaeologists (Bojná, Poprad I, Poprad II), directed by J. Chudík, which were shown for the first time in 2019. The thirty-minute films made the remarkable results of the Institute's research available to the public, with considerable social resonance. In 2021, the IA SAS participated in the production of several feature-length documentary films with archaeological themes (the film Svätopluk – Česká televize, directed by Max Petrik, the film Lidar and Archaeology – Trigon production, directed by Chudík, the film Nižná Myšľa – Trigon production, directed by Chudík).

3. ESTABLISHMENT OF ARCHAEOPARKS

The most important sites investigated also represent a great potential for the possibility of presenting research results to the public. For this reason, the IA SAS cooperates with municipalities, local museums and civic associations in the construction of open-air museums. The designs of the individual buildings are based on the originals that have been researched on the site. The construction is almost always linked to experimental archaeology. In spite of the logistical difficulties, the constructed parks become centres of cultural activity in the regions and municipalities (see more in chap. 2.1.5.).

4 EXHIBITIONS

During the evaluated period the IA SAS organised or participated in the organisation of a total of 54 exhibitions (see chapter 1.8., 2.1.5.). Most of them were presented on the territory of Slovakia. Some of them had a national character, others were rather regional and highlighted the richness of individual regions. Several researches, e.g. Lietava Castle, Divin Castle and others, managed to install permanent exhibitions. In 2018, **an exhibition for the blind was also created experimentally at Lietava Castle** – in a tactile form, where the blind could feel objects and find out what material they are made of and what shape they have. In this way, it is possible to bring archaeology closer to disabled visitors. Due to the rich cultural heritage of Slovakia, we also regularly participate in exhibitions of European significance (see chapter 2.1.5.).

5. VISUALISATION OF CULTURAL HERITAGE

The IA SAS has been working for a long time on the visualisation of cultural heritage using the latest technologies. Thanks to the Interreg project, a number of 3D models of various historical architectures, as well as rare objects, have been prepared. An application has also been developed that makes archaeological cultural heritage accessible via mobile or tablet (see chapters 2.3.1 and 2.6.1).

6. HRON VALLEY CASTLE CULTURAL ROUTE

The Hron Valley Castle Route project focuses on the presentation of the latest results of archaeological, building-historical, historical and archival research of guard castles, manor houses and towers built near the Hron River – from the fortified Benedictine monastery in Hronský Beňadik to the Zvolen Castle. These important historical objects were guarded by rich Central Slovak mining towns: Nová Baňa, Pukanec, Kremnica, Banská Štiavnica, Banská Belá and Banská Bystrica. The project involves a total of nine castle ruins Dobrá Niva Castle, the Deserted Castle in Zvolen, Pet'uša Castle, Šášov Castle, Teplica Castle, Žakýl Castle, Revište Castle, Rudno Castle, Breznica Castle, further Luchtov Watchtower, Sokolia Skala Castle, Nová Baňa City Fortification, Žarnovica Manor House, Žiar nad Hronom Manor House, Hronský Beňadik Monastery and Zvolen Castle. The aim is to introduce historical objects of medieval architecture to the wider public as important tourism products. https://www.zahoramizadolami.sk/en/the-pohronie-castle-road/

7. THE CYRIL AND METHODIUS EUROPEAN CULTURAL ROUTE

The Cyril and Methodius route has been certified by the Council of Europe for Culture.

The project of the European Cultural Route of St. Cyril and Methodius withstood strong international competition from 13 candidates and thus became one of such important paths as e.g. St. Jacob's Way, leading to Santiago de Compostela in Spain. The route winds across Europe and, in addition to such important historical centers as Nitra, Velehrad, Zalavár (Blatnohrad), Thessaloniki, Rome and Plovdiv. It also stretches through the Bratislava region.

As part of the celebration of the arrival of Cyril and Methodius to Great Moravia, festivities are organised annually when the open air museums in Bojná and in Nitra on Martinský vrch (Martinský Hill) also come to life. The event includes commented lectures at the Nitra Castle, through archaeoparks, as well as at sacral sites such as the Romanesque church in Dražovce. Discussions and forums with the public, and conferences are organised, as well.

https://www.cyril-methodius.cz/

8. WEEK OF SCIENCE AND TECHNOLOGY

The staff of the IA SAS is regularly involved in national and global activities of the pouplarizing sciences. During the Week of Science and Technology, there is an open day and the event is accompanied by a number of activities for children and adults. During the 2020 and 2021 pandemic, staff produced an online programme for the week, showcasing the work of archaeologists from basic research to the final phase.

9. EUROPEAN RESEARCHERS' NIGHT

The aim of the event, which takes place at the end of September, is to bring science as close to people as possible. The work of archaeologists is presented through scientific stands in large shopping centres across Slovakia. Most of these are on the topics that people are most interested in (castles, fortified settlements, burial practices, production of objects in prehistoric times, food in historical periods and others).

10. WORLD TOURISM DAY

This is a regular event that takes place on 2 September. This event is usually accompanied by a programme in the open-air museum in Nitra on Martinský vrch. These are experiential tours of Slavic dwellings. Demonstrations of pottery firing, baking in a period kiln as well as access to the depositories where archaeological finds are stored were prepared. The whole event was accompanied by period music, demonstrations of archery and period clothing.

11. DISCUSSION SESSIONS SCIENTIFIC CAFÉ AND SCIENTIFIC CANDY SHOP

Researchers of the IA SAS are regular guests at various events that are streamed via the Internet. Thanks to the media, scientists can present their latest results in a light-hearted way and at the same time answer questions.

12. SCIENTIFIC BURROW

The project was aimed at popularising science to school-age children. Within the framework of experimental archaeology, the participants were introduced to the techniques of making stone tools, grinding/crushing grains into flour as well as modelling vessels according to prehistoric patterns. Presentation of archery and life in the Middle Ages was involved, too. During the pandemic of 2020 and 2021, the project was suspended.

13. EDUCATIONAL ACTIVITIES IN SCHOOLS

In the framework of popularization activities, the researchers strive to use the latest research results and convey them to schools in the teaching of history.

14. EXCURSIONS

We are also involved in the presentation of cultural heritage through excursions to archaeological sites. These are guided tours in the framework of various events related to the promotion of cultural heritage in the regions. The staff of the IA SAS at the individual regional branches cooperate very actively with the public, as evidenced by the 384 popularisation lectures, many of which were also given at the excursions.

15. PRESENTATION OF SCIENTIFIC RESULTS IN THE MEDIA

The IA SAS is a workplace with particular emphasis on the presentation of results to the public. All relevant information such as new research, interesting finds, exhibitions and activities are shared with the public. This is evidenced in Table 2.7.2, which shows the numbers of individual media outputs and lectures.

2.7.2. Table of outreach activities according to institute annual reports

Outreach activities	2016	2017	2018	2019	2020	2021	total
Articles in press media/internet popularising results of science, in particular those achieved by the Organization	208	156	89	112	74	77	716
Appearances in telecommunication media popularising results of science, in particular those achieved by the Organization	51	51	121	70	29	37	359
Public popularisation lectures	59	66	83	74	32	34	348

2.8. Background and management. Infrastructure and human resources, incl. support and incentives for young researchers

2.8.1. Summary table of personnel

2.8.1.1. Professional qualification structure (as of 31 December 2021)

	Degree/rank				Research position		
	DrSc./DSc	CSc./PhD.	professor	docent/ assoc. prof.	I.	II.a.	II.b.
Male	7	25	3	6	7	20	10
Female	1	23	0	2	1	6	17

I. – director of research with a degree of doctor of science/DrSc.

II.a – Senior researcher

II.b – PhD holder/Postdoc

2.8.1.2. Age and gender structure of researchers (as of 31 December 2021)

Age structure of researchers	< 31		31-35		36-40		41-45		46-50		51-55		56-60		61-65		> 65	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Male	1,0	1,0	3,0	3,0	3,0	2,1	8,0	7,2	1,0	1,0	3,0	3,0	6,0	5,0	2,0	2,0	13,0	8,0
Female	0,0	0,0	6,0	6,0	4,0	4,0	7,0	6,8	2,0	2,0	3,0	3,0	2,0	2,0	4,0	3,1	4,0	3,5

A – number

B – FTE

2.8.2. Postdoctoral fellowships (list of positions with holder name, starting date, duration. Add brief information about each fellow's career path before and after receiving PhD degree, etc.)

2.8.2.1. MoRePro and SASPRO fellowships

Title: *Project SASPRO*
Holder name: Péter Prohászka
Duration: 01. 04. 2015 – 01.09.2018

After the completion of the fellowship, due to his high scientific performance, the institute created a post-doc position for him.

Title: *Project SASPRO*
Holder name: Peter Christoph Ramsl
Duration: 01. 01. 2016 – 31.12.2018
After completing his scholarship, he obtained a position as assitent-prof. at Vienna University.

2.8.2.2. Stefan Schwarz fellowships

Title: *Stefan Schwarz fellowship*
Holder name: Mário Bielich
Duration: 01. 01. 2013 – 31.12.2016

Title: *Stefan Schwarz fellowship*
Holder name: Jozef Ďuriš
Duration: 01. 01. 2013 – 31.12.2016

Title: *Stefan Schwarz fellowship*
Holder name: Klaudia Daňová
Duration: 01. 01. 2015 – 31.12.2018

Title: *Stefan Schwarz fellowship*
Holder name: Rastislav Hreha
Duration: 01. 01. 2015 – 31.12.2018

Title: *Stefan Schwarz fellowship*
Holder name: Adrián Nemergut
Duration: 01. 05. 2015 – 30.04.2019

Title: *Stefan Schwarz fellowship*
Holder name: Róbert Olvecký
Duration: 01. 05. 2015 – 30.04.2019

Title: *Stefan Schwarz fellowship*
Holder name: Zuzana Poláková
Duration: 01. 04. 2017 – 30.04.2019

Title: *Stefan Schwarz fellowship*
Holder name: Miroslava Švihurová
Duration: 01. 09. 2017 – 31.08.2018

Title: *Stefan Schwarz fellowship*
Holder name: Michal Holeščák
Duration: 01. 06. 2018 – 31.05.2020

Title: *Stefan Schwarz fellowship*
Holder name: Branislav Kovár
Duration: 01. 04. 2017 – 31.12.2020

Title: *Stefan Schwarz fellowship*
Holder name: Zbigniev Robak
Duration: 01. 05. 2016 – 30.04.2020

Title: *Stefan Schwarz fellowship*
Holder name: Dominika Oravkinová
Duration: 01. 01. 2019 – 31.12.2019

2.8.2.3. Postdoctoral positions from other resources (specify)

In the evaluated period, the IA SAS offered jobs to internal PhD students who completed their studies directly in the institution:

Michal Holeščák, Miroslava Kissová, Eva Fottová, Lucia Nezvalová, Dominika Oravkinová, Teraza Vangľová, Pavol Bobek, Michal Cheben (geophysicist). Their salaries were paid from profits from rescue excavations. The young colleagues were given the opportunity to continue working in a renowned institution and at the same time to complete their education by obtaining a licence, which is a condition for conducting archaeological research independently in Slovakia.

Postdoctoral positions were also granted to staff who had completed their doctoral studies at other institutions:

Adrián Nemergut, Zbigniew Robak, Igor Murín (geophysicist), Zuzana Hukeľová (anthropologist), Mária Krošláková (anthropologist), their salaries were financed by profits from rescue excavations and by grant funding.

2.8.3. Important research infrastructure introduced during the evaluation period with the information about the sources of funding *(max. 2 pages)*

The activity of an archaeological research site is demanding on the infrastructure and especially on its functionality. The Institute has managed to significantly improve the working conditions for both scientists and other staff. During the previous period, the quality infrastructure necessary for interdisciplinary archaeological research had already started to be acquired thanks to the EU Structural Funds projects. As there are no support programmes in Slovakia for the sustainability of the infrastructure (from information systems, operating software to instrumentation), the primary task of the Institute was to ensure the reliable functioning of the instruments and their operation even after the end of specific projects. This was achieved mainly thanks to the indirect expenditure from the APVV and VEGA projects, a crucial part of which was ensured thanks to the resources obtained from business activities.Thanks to these resources, the necessary chemicals, ongoing repairs, calibration, etc. are also provided.

Individual laboratories operate mainly wihin the Department of scientific and technical information and restoration laboratories and within the Department of early historical archaeology and related natural science disciplines:

Laboratory for terrain prospecting
The laboratory belongs to the longest working laboratories in the Institute and is one of the most experienced laboratories in the EU. Currently, it includes a large scale of prospecting methods including 3D data. It was there where systematic aerial and geophysical survey using LIDARs was introduced first in the EU. Today, the laboratory uses a system of georadars, magnetometers, 3D scanners, metal detectors, an octocopter, etc. (RTK GNSS rover system GPS – Leica CS 08, 3D

scanner – terrain Faro; total stations; georadar X3M Sysem Kit 1). This enables us to identify extinct archaeological features, river side channels, mine excavations, etc.

Laboratory for 3D photogrametry and visualization

The laboratory focuses on photogrametric processing of features and photographs and their transfer to 3D environment – point cloud. It makes it possible to preserve the digital shape of photographed features and finds. It includes a photogrametry studio for documenting archaeological artifacts with accessories and software. The laboratory focuses also on modern and highly precise documentation of archaeological cultural heritage in several segments – small finds, ecofacts, standing architectures, archaeological sites. Today, the laboratory or the system of laboratories belong to the most effecive laboratories in Central Europe. Besides documentation itself, new technological procedures in three-dimensional documentation are being developed there. A series of scanners connected to several working staions and skilled scientific personnel can specify access to individual finds regardless of their size. Not only are the results a base for detailed analysis, they can be used to visualize individual segments. As for the equipment, we can mention e.g. 3D optical scanner Comet L3D with accessories, 3D printers/software.

Laboratory for documentation and analyses

The laboratory is designed to provide sophisticated analysis of archaeological samples, ecofacts and finds. Thanks to the modern equipment, analyses can be carried out in the laboratory itself. Moreover, the analyses are done immediately, without delays, which is essential for sensitive archaeological finds (often organic or soil sediments). Highly efficient equipment (SRF spectrometers Niton XL3t980 GOLDD+ with accessories; Keyence VHX-700F and other accesories; NIKON SMZ-800 with accessories, etc.) in the hands of our investigators and scientific technical workers have made the interdiscipinary processing of archaeological investigations highly effective. On the basis of XRF analysis in soil sediments, they can e.g. identify traces of ancient metallurgy, etc.

Laboratories for natural sciences

The IA SAS, as one of the first institutes in Europe, started to build an independent workplace for working with micro-remains of plants which help us identify food of ancient people and reconstruct the landscape as well as climate conditions. The submitted project has a new challenge – analysis of phytoliths which seems to be vital for the extinct settlements. The standard work of the laboratory includes archaeobotanical identification of grown plants, weeds, ligneous plants. In this laboratory, ancient textiles are also analyzed as well as their production technologies. The equipment of the laboratory contains mainly modern microscopes – Niton XL3t980 Gold, Nikon SMZ-800, NIKON SMZ 18 with numerous accessories.

Many other newly acquired instruments are part of the equipment of the field research teams. The staff is equipped with e.g. high-tech metal detecting instruments, precision GPS systems, total stations, geophysical instruments to be able to act by rescuing cultural heritage (see chapters 1.8., 2.1.5.).

To improve the conditions for reliable storage, extensive scientific depositories were completed in Nitra, including a new depository for organic finds with controlled humidity and temperature. Restructuring of the former central depositories in Malé Vozokany near Nitra is under way.

Efficiency is also clearly at the forefront – if other departments of the SAS have the necessary instrumentation for us, we communicate closely with them and mutually share the instruments (see chapter 3).

Appropriate computer equipment and ensuring the operation of servers and networks is a matter of course. The conditions have been created for the possibility of processing large finding assemblages, which was one of the biggest handicaps of the department in the past. Thanks to the information systems, the release of finds from scientific depositories has become more efficient, which makes further research work more effective.

2.9. Supplementary information and/or comments on all items 2.1 – 2.8 (max. 2 pages in total for the whole section)

Comments on organisational and management activities and on the HR policy

In the period under review, the Institute underwent a gradual but at the same time quite significant restructuring. In 2018, a new organisational structure was adopted, in which the roles of individual departments and sections were redefined. At the same time, the roles and responsibilities of individual managers were reorganised. This also entailed transfers of staff between departments and a rather significant step towards rejuvenating the workforce. The criterion was primarily one of scientific performance, so that "meritorious" researchers with a long track record of high performance were retained in the teams, usually on a part-time basis. This has enabled a new generation of researchers to be recruited, usually for postdoc positions. As an internal regulation, the forms of evaluation of research activities were codified.

The Scientific Council of the Institute was (and is) heavily involved in the development of concepts and evaluations. The Scientific Council has 7 members – 5 internal and 2 external.

Most of the management positions have been entrusted to the middle and young generation (30–45 years old) full of new ideas. There has been a change in the closer management of the Institute (L. Benediková took the place of I. Cheben as Deputy Director, A. Šupová took place of. M. Gubáňová). New management of international relations and preparation of international research projects was started. Steps were taken to gradually replace the responsible journal editors. Most of the monographic editions also received new editors-in-chief. All this has had an impact not only on the growth in the number and quality of international projects, but also on the quality of scientific and popularisation outputs. This, in turn, has resulted in a significant increase in scientific responses of all categories. The increase in the number of scientific studies in high impact journals worldwide is also a positive development.

There has also been a change in the gender dimension, with gender balance at all management levels (executive points 2:3, departments and sections 5:5). This statistic is gradually being improved in scientific growth.

The scientific and research activities have been partly affected by the process of transformation of the department (and all the institutes of the SAS) from budgetary organisation into a v.v.i. (public research instituton). The original transition was planned for 2018 and a lot of time and staff capacity has been devoted to its preparation. The transformation did not take place in the end (despite the already set and almost completed budgetary and administrative changes) due to a failure of communication on the part of the Ministry of Education. The transformation was restarted in 2021 after a modification of the law and the Constitution became v.v.i. as of 1.1.2022.

Comments on dissemination of results and popularisation

IA SAS has consistently placed great emphasis on dissemination of results and popularisation. Here, it effectively joins forces with regional government and the NGO sector – construction and operation of archaeoparks, nature trails, application of results in tourism, etc. The dissemination of results to the professional and lay public has also changed fundamentally. Through the web, comprehensive issues of journals and yearbooks published by the Institute since 1953 are available, as well as a large part of the monographic outputs. The mandatory use of DOIs has been introduced for our journal papers. The Central Register of Archaeological sites in Slovakia is also accessible through the national geoportal. In 2021, a new project from the EU Structural Funds was obtained. After its completion at the end of 2023, it will be possible to make the Institute's extensive holdings, which are an asset to the knowledge of European cultural heritage, more easily accessible. The newly dedicated and transformed 3D laboratory is involved in the active digitisation of the holdings, which are subsequently intended for scientific work as well as for publication. The effectiveness of these activities is confirmed by the numerous and varied awards for scientific popularisation, as well as prizes from various levels of local government.

The vision of the new Archaeological Museum and Popularisation Centre was prepared by the Nitra Self-Governing Region (original project with the Centre of Scientific and Technical Information of the Slovak Republic).

IA SAS succefully keepes the 65-years lasting cooperation with the Slovak Archaeological Society that is actually the body of proefsional archaeologists as well as amateur s interested in archaeology with direct budgetary relation to the IA SAS (as each such society operating under the head os the Slovak Academy of Sciences). Slovak Archaeological Society partipates significantly on scientific, educatzional and dissemination ctivities of the Isntitute by supporting and co-organising thw scientific conferences, leading excursions at home and abroad and participating on popularization activities.

Comments on the other scientific activities of the staff

The IA SAS researchers have been being members of editorial boards of 23 journals in Slovakia and of 22 journals abroad (including the journals published by the Institute, from others e.g. Zborník SNM-Archeológia, Musaica, Zborník Trenčianskeho múzea from domestic, Archaeologia Historica, Památky archeologické, Geochronometria, Acta Archaeologica Austriaca, Acta Archaeologica Carpathica, Archaeological Textiles Review from foreign journals).

The IA SAS researchers have been being members of scientific board of universities and scientific institutions at home and abroad – Constantine the Philosopher University in Nitra; Comenius University, Bratislava; Trnava University in Trnava; Danubius College; Slovak Historical Institute in Rome.

3. ***Implementation of the recommendations from the previous evaluation period***

The IA SAS has implemented most of the panel's recommendations from the previous evaluation period in its development plans and concrete activities.

Recommendation of the panel:

Reconsider the collaboration within other SAS institute

The department has significantly intensified its cooperation with institutes from all three departments of the SAS.

Among the successful collaborations we select:

Earth Science Institute SAS and its organisational units – cooperation in several segments, rontgen and tomographic analysis of metal objects, which brings new information about ancient technologies, but also knowledge necessary for better conservation and restoration of finds. Petrographic analyses of stone tools, as well as of raw materials used in jewellery, are also of great importance. There has also been cooperation in the research of geomagnetism of the earth with its use in dating archaeological situations.

Institute of Materials and Machine Mechanics SAS – analysis of diverse materials obtained by archaeological excavations. Remarkable findings were obtained during the research of Bronze Age artefacts, which were able to determine the provenance of the raw materials used. Also important were the analyses of coins, which were ultimately able to identify forgeries.

Institute of Measurement Science SAS – tomographic investigations of metal objects up to 11 cm in size. They are particularly helpful in identifying objects in a considerably corroded state, they allow to determine their material composition and also the technology of production. Due to the often poor state of preservation of the finds, the 3D image obtained is often the only reliable evidence of the appearance of the object.

Computing Centre SAS – cooperation in the publishing of journals, in the creation and development of a quality editorial system, which ultimately improves the quality of the journals published.

Institute of History SAS – cooperation especially in the research of medieval castles in Slovakia and especially in the field of the history of coinage.

Institute of Hydrology SAS – joint research activities to identify archaeological objects underwater, e.g. in the Danube riverbed, where, among other things, a unique discovery was identified – the pillars of a bridge probably dating back to the Roman period.

Institute of Ethnology and Social Anthropology SAS – cooperation in the reconstruction of ancient craft technologies. Through joint research it was possible to identify the purpose and technology of production of several parts of the equipment of the 4th century princely tomb in Poprad.

Plant Science and Biodiversity Center SAS – cooperation on genetic analysis of plant remains from the 4th century tomb in Poprad-Matejovce.

Institute of Oriental Studies SAS – cooperation the archaeological research on Near Eastern sites and processing of obtained sources.

Institute of Parasitology SAS – sampling of findspot situations and their analysis in order to identify parasites among ancient populations.

Institute of Landscape Ecology SAS – cooperation in the creation and use of geodatabases.

Institute of Forest Ecology SAS (Zvolen, and Technical University in Zvolen) – intensive cooperation in geophysical exploration and reconstruction of the ancient landscape and human influence on the natural environment in central Slovakia.

Reconsider the collaboration within other institute, museums and universities

Cooperation was also developed with other departmental research institutions in Slovakia.

Some examples of active cooperation:

City Museum in Bratislava – project of preservation and revitalization of cultural and natural heritage and promotion of diversity in culture and art within the European cultural heritage applied to one of the most important cultural monuments of Slovakia – Devín Castle.

National Forest Centre (Ministry of Agriculture and Rural Development) – cooperation in the aerial scanning of the terrain and in the evaluation and interpretation of the acquired data.

Office of Geodesy and Cartography – cooperation in the acquisition and analysis of three-dimensional ecological data.

State Geological Institute of Dionýz Štúr (Ministry of the Environment) – cooperation in the analysis of glass (jewellery, vessels, etc.). Preparation of the H2020 project.

Monuments Board – preparation of an APVV project (together with the Slovak Technical University) for identification and verification of archaeological sites by LiDAR.

Regional Monuments Board Žilina – intensive cooperation and coordination of activities in the identification and research of archaeological sites in northern Slovakia.

Slovak Museum of Nature Protection and Speleology Liptovský Mikuláš – cooperation with an archaeologist and a geologist in archaeological investigations.

Liptov museum in Ružomberok – long-time partner, cooperation in research of archaeological sites, in archaeological repairs, scientific rehabilitation and presentation of archaeological monuments in the museum's exposition in the Havránok National Natural Heritage Site, cooperation in the implementation of exhibition projects.

Slovak Technical University – cooperation in the analysis and interpretation of LIDAR data; cooperation in technological issues of historical buildings and their reconstruction from original materials.

Constantine the Philosopher University, **Faculty of Natural Sciences** – analysis and evaluation of semi-precious stones and glass objects.

Constantine the Philosopher University, Faculty of Arts – analysis and interpretation of archaeobotanical and palynological data; cooperation in archaeological investigations focused on the relationship between man and the landscape and medieval castles.

Slovak National Museum – Archaeological Museum, Natural History Museum, Historical Museum – cooperation on joint APVV projects, exhibition activities and collection processing.

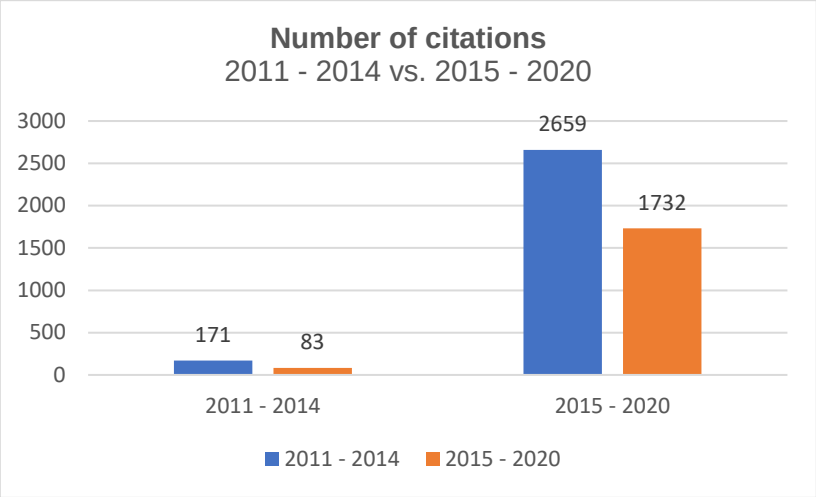
Recommendation:

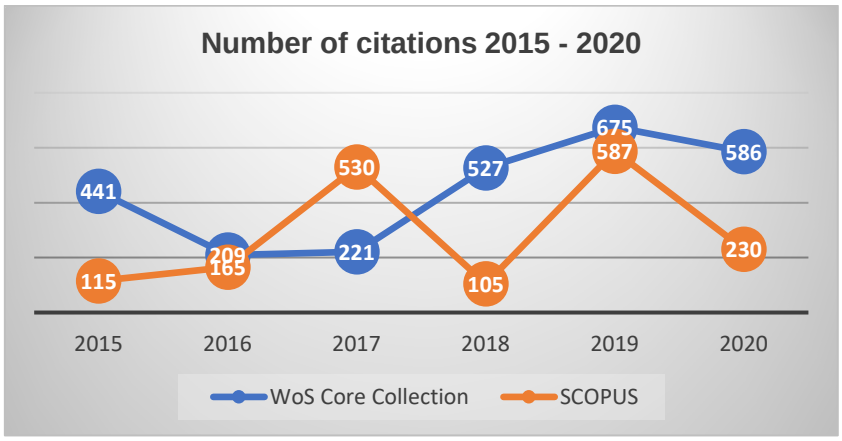
Organise an ongoing discussion between all researches, doctoral students included, about mission and strategy for the future, including ways to enlarge the international range of projects and publications

Strategic discussions at the workplace at multiple levels. Regular discussions at meetings of the academic community and especially at departmental meetings have clearly supported the further strengthening of multidisciplinary international collaboration within international research teams – such as ERC, Cost, etc. (see chapter 2.3.1.). The number and ranking of projects won or participation in projects confirms the effectiveness of these efforts, but also the visibility of the department in the international research space.

The pressure to publish in foreign languages and in foreign journals has also contributed to this improvement. The number of such foreign-language outputs, as well as the number of responses (including international databases WoS and Scopus) to them, has increased significantly. Working in international research teams has also resulted in joint studies in highly ranked journals.

Another positive development has been the registration of the Institute's two flagship journals in the WoS and Scopus databases, which has resulted in an increase in interest from abroad in publishing in these journals. The increased interest in publishing in these journals allows the international editorial boards to select higher quality studies. Monothematic supplements devoted to, for example, the Palaeolithic or the first historical ethnic groups have also been introduced.





Recommendation:

Suport larger international grant application

In the period under review there was a significant increase in the number of applications and/or partnerships in large European project calls (ERC, Cost, Interreg, Visegrad foundation, MSCA). The 14 projects supported under the grant schemes are described in detail in chapters 2.3.1.

Projects submitted but not funded are listed here:

Interreg – Danube Transnational Programme

Title: *River Archaeology: Research, Protection and Promotion of the Underwater Cultural Heritage of the Danube Basin*

Project number: 731

Duration: 1.1.2020–30. 6. 2022

Lead organisation: University of Ljubljana (Faculty of Arts), Slovenia

Responsible person for Institute of Archaeology SAS: Klaudia Daňová

Visegrad

Title: *Visegrad Network for the Archaeological Mapping of the Danube River Basin.*

Project number: -

Duration: 22.1.2018–21. 7. 2019

Lead organisation: Trnava University in Trnava, Slovakia

Responsible person for Institute of Archaeology SAS: Klaudia Daňová

H2020 – MSCA

Call: H2020-MSCA-IF-2016

Proposal title: *From the Late Roman Border to the Barbarian Hinterland: A Study of Leather and Textile Objects Found in Germanic Elite Graves of the 4th and 5th Centuries AD, with a Focus on the Territory of Slovakia – BELT*

Proposal number: 750331

Evaluation result: 91.80%

Seal of Excellence awarded

Applicant: T. Štolcová

Call: **H2020-MSCA-IF-2017**

Proposal title: *From the Late Roman Border to the Barbarian Hinterland: A Study of Leather and Textile Objects Found in Germanic Elite Graves of the 4th and 5th Centuries AD, with a Focus on the Territory of Slovakia – BELT*

Proposal number: 797485

Evaluation result: 91.20%

Seal of Excellence awarded

Applicant: T. Štolcová

Call: **H2020-MSCA-IF-2020**

Proposal title: *Current* understanding of the Medieval artefacts of the late nomads

Evaluation result: 82%

Applicant: M. Holeščák

Call: **ERC-2019-COG**

Proposal title: *Archival Archaeology of the Habsburg Monarchy*

Proposal number: 866308

Applicant: P. Prohászka

Recommendation:

Develop a forum of a reconceptualization and an ongoing theoretical and methodological discussion within the institute as a whole to open the paradigmatic possibilities offered by the recent technological acquisitions in line with the international debate on research paradigms in field

The tendency to focus on multidisciplinary interdisciplinary research is clear from both intra- and inter-institutional discussions. Current priorities are archaeogenetic research, the study of the relationship between man and landscape, the reconstruction of the life of ancient populations (diet, health, economy, migrations, etc.) – all with involvement in international research networks. This strategy is being pursued by the Institute. The key projects were listed in the previous chapters 2.3.1., 2.4.1., 2.4.3., 2.4.4., 2.4.5. In this case, these are often challenging long-term activities, but the results have already been reflected in publications.

Recommendation:

Engage in international post-graduate schools/training, like summer schools abroad, together with other SAS institutes and in cooperation with international partners

The Institute organizes annual summer schools of archaeology for all types of studies, usually in cooperation with foreign universities. Participants receive professional training and improve their skills in archaeological research. Graduates receive a detailed evaluation of their activities. We have intensified the sending of staff for internships at institutions abroad. Several have been awarded major long-term research fellowships (B. Kovár – Edinburgh, M. Holeščák – Sofia, Robak – Alexander von Humboldt-Stiftung, Mainz). Several of them had to be postponed due to the pandemic and are being implemented with delays.

Students from foreign universities and other departments are accepted for multi-month internships – mainly from Hungary, Poland, the Czech Republic, but also from the USA (Fulbright fellow – Z. Chovanec).

Two foreign scientists were awarded a SAS scholarship in the SASPRO programme and spent 3 years at our workplace. For one of them (Dr. P. Prohászka) we also created a postdoc position. He is one of the high performing researchers.

Further details are given in chapters 2.3.1, 2.4.1.

Recommendation:

Establish long term agreements with international partners for exchange, applications, doctoral training etc.

The Institute is extremely active in this field. In the period under review, 49 cooperation agreements (including 35 bilateral agreements) were concluded and used intensively. Among them we mention: Collaborative research agreement the University of Cologne; Collaborative research agreement Oxford Radiocarbon Acceleration Unit; Agreement on co-operation Österreichisches archäologisches Institut Wien; Agreement on co-operation Instytut Archeologii i Etnologii Polskiej Akademii Nauk; Agreement on co-operation Archeologický ústav AV ČR Praha, v.v.i.; Agreement on co-operation Archeologický ústav AV ČR Brno, v.v.i.; Agreement on co-operation Instytut archeologie Jagellonskej Univerzity, Kraków; Agreement on service providing AMS 14C dating of C14 archaeological samples, Foundation of the A. Mickiewicz University, Poznań; Agreement on co-operation Marie Curie-Skłodowska University in Lublin; Agreement on co-operation Eötvös Loránd Tudományegyetem, Budapest; Collaborative research agreement with Laboratóry Préhistoire et Technologie UMR 7055 CNRS; Cooperation agreement with Stiftung Schleswig – Holsteinische Landesmuseen Schleswig; Agreement on co-operation Friedrich-Schiller-Universität Jena; Cooperation with the Institute of History Chinese Academy of Social Sciences; Agreement on co-operation University of Natural Resources and Life Sciences, Tulln; Agreement on co-operation RGK DAI Frankfurt; Agreement on co-operation Institut fűr Frűhgeschichte Christian Albrechts-Universität Kiel; Agreement on co-operation Mariupol State University; Agreement on co-operation Uzhhorod National University.

Recommendation:

Work toward further digitizing of collections and publications in view of future integration in European digital research infrastructures.

The IA SAS has made extreme efforts to digitize its documentary holdings, such as excavations, research documentation, photographs, slides and also archaeological finds. Currently, 26,404 research reports, 286,051 negatives of photographic field documentation, 152,759 negatives of photographic documentation of objects, and 449,949 items of the finds fund of the IA SAS have been digitized. Older slide collections are being digitised gradually (3,045 out of 29,138).

In the framework of integration into European research networks, cooperation within the Interreg project (Museum of Natural History, Prehistorical Department, City of Zadar, Czech Academy of Sciences, Institute of Archaeology, University of Torun, Institute of Archaeology, Puck Town Municipality, Institute for the Protection of Cultural Heritage of Slovenia, Archaeological Heritage Office of Saxony, Autonomous Province of Trento, Cultural Heritage Directorate) was of great importance, where the Institute led one of the two main working groups. This cooperation has shown new possibilities for the use of digitisation in the scientific evaluation and presentation of different types of archaeological monuments.

The information systems built from our own activities and from externally acquired resources are an essential aid not only for scientists at home and abroad, but also for the registration of cultural heritage, state administration and local governments. The basic information is freely accessible on the National Geoportal of the Slovak Republic and from there it can be combined with European or world information systems. This is a relatively rare phenomenon in Europe. Recently, the Institute has started to publish directly via the web all its periodicals (including older editions, i.e. since the journals were founded in the 1950s), also many monographs, a large volume of 3D documentation, visualisations and reconstructions and other information.

In the field of recording archaeological finds, the IA SAS has built up a quality workplace with a rapid positive response at home and abroad, which has consequently multiplied the interest of foreign entities in cooperating with us.

Actually, the institute managed to obtain EU SF projects (2021–2023). One of its main outputs is a data publication platform. After its implementation, hundreds of thousands of digital objects from our databases will become accessible to the professional and lay public at home and abroad.

Recommendation:

Reconsider the departmental structure and the nationwide networks of units and sites to promote better integration and synergy within the institute by trimming its present complexity.

The comment arose from a misunderstanding when the Panel confused the number of managed buildings (more than 20, of which a crucial part in the main headquarters in Nitra) with the number of branches.

Nevertheless, here we have also made changes leading to better research efficiency. In fact, the IA SAS has a head office in Nitra, a research departments in Košice, in Spišská Nová Ves, and Zvolen. Detached branch offices (special facilities serving as depositories) are in Malé Vozokanyand Nitra-Martinský vrch. The other 6 mentioned "branches" are their own or rented temporary research bases for larger actual field research (e.g. Bojná, Iža). It is thanks to such a procedure, which is a standard procedure in archaeology globally, that effective research of the archaeological cultural heritage of individual regions of Slovakia is possible.

In the period under review, the Institute also secured external resources to concentrate a number of activities in Nitra. Gradually, large collections (ca. 400,000) of ceramics and so-called small finds from the outpost in Malé Vozokany were transferred to the newly built and largest depositories of archaeological finds. At the same time, large collections, temporarily housed in the premises of the East Slovak Museum in Košice, were returned to our depositories. Extensive collections of human bones, archaeobotanical samples, mortars, stone and pedological samples remained in Malé Vozokany. Their transfer to Nitra would require the construction of additional depositories and a cost in the millions of Euros, which is not feasible given the state of funding. The current spatial structure of the department corresponds to the practical requirements of archaeology and it should be emphasised that the newly built premises in Nitra, including the latest air-conditioned, humidity-controlled depository for the storage of organic samples, are highly appreciated by all domestic and foreign visitors from museums, universities and other research institutions.

All sites are also able to work and communicate in an online space, which proved to be highly effective during the COVID-19 pandemic.

4. ***Research strategy and future development of the institute for the nextfive years*** (Recommended 3 pages, max. 5 pages)

Research strategy of the institute in the national and international contexts, objectives, and methods (including the information on when the strategy was adopted)

IA SAS is a research institute with more than 80 years of research experience. It has developed from a small institute with only a few staff members into a consolidated interdisciplinary research institution with a rather broad spectrum of international collaboration. The institute is a major player in communication with the public. The basic strategy adopted for 2016/17–2022 is in force until the end of 2022, and here we present the contours of the new strategy, which, however, is a logical continuation of the original strategy, most of whose milestones have already been fulfilled and the remaining ones will be fulfilled by the end of 2022. We plan the new strategy, following the model of the national strategies, by 2030.

Indicators according to the Action Plan document (2017/2018–2022 plan)	**Implementation in the period 2016–2022**	**- /Completed**
Propose at least two and obtain at least one project under Interreg calls.	**We have been contracted to the Interreg VirtualArch project, where we were leading one of the two main working groups.** At the beginning of 2019, a project on underwater archaeology under the Interreg Danube Transnational Programme call for proposals passed the formal review – not supported.	**Y**
Processing of at least two interdisciplinary projects proposed for solution within the EU SF.	**EU SF project – Data management of the Central Archaeological Record of the Slovak Republic – supported** **CVTI – project Slovak Science Popularisation Centre – approved, waiting for financing** Landscape and ecosystem services (s UKF a SPU) - Applied research and evaluation of landscape, ecosystems and ecosystem services and Support for strategic research on biodiversity and adaptation to climate change and its impact on the environment – not supported.	**Y**
Obtaining a minimum of four projects APVV.	The increase in efficiency and success rate not only in the submission but also in the support of projects from the AU SAS has been significant. In total, **11** projects in which the department was the project leader and **3** in which it was a co-investigator were supported during that period. In addition, there were **33** VEGA projects in which the Institute was the project leader and **11** in which it was a co-investigator.	**Y**
Preparation of at least two creative industry projects.	Creative workshops in Nitra (Martinský vrch) – two projects in cooperation with the city of Nitra.	**Y**
Registration of at least one journal in the SCOPUS database.	2 x SCOPUS (Slovenská archeológia, Študijné zvesti AÚ SAV) and 2 x WoS (Slovenská archeológia, Študijné zvesti AÚ SAV).	**Y**

Significant increase in publications and citations in registered databases.	Accreditation 2012–2015: WoS: 171 citations + SCOPUS: 83 citations. Other datatbases: 13 181 citations Accreditation 2016–2021: WoS: 2659 citations + SCOPUS: 1732 citations. Other datatbases 16 858 citations	**Y**
Publications on significant archaeological sites and Discoveries	Completed (see chapter 2.1.2. – 2.1.4.)	**Y**
Publish at least 60 monographic works or studies in the form of monographs.	2016: 12 x monographs, 2017: 12 x monographs, 2018: 10 x monographs 2019: 17 x monographs, 2020: 14 x monographs, 2021: 12 x monographs. In addition, **11** expert monographs and **23** x compilation works of book character, several monothematic.	**Y**
The proposal of at least four interdisciplinary doctoral themes.	2018: 5 topics (2 interdisciplinary topics), 2019: 2 interdisciplinary topics, 2020: 2 interdisciplinary topics, 2021: 2 interdisciplinary topics.	**Y**
Opportunities for at least five positions for successful PhD graduates (outside the SAS scheme).	During the period under review we have created 10 postdoctoral positions from our graduates and 4 graduates from abroad (Prohászka, Nemergur, Robak, Hukelová). They were supported by the Schwarz Fund (12 fellows) to gain employment during the period under review.	**Y**
Obtaining at least two major DrSc.	Obtained 1x DrSc., 2x prof.	Partially implemente d
Gradually make all of the Institute's print publications available in PDF format and ensure that complete issues of our journals are published immediately after publication on a publicly accessible web portal.	Accessed journals and some monographic works and proceedings: http://www.cevnad.sav.sk/%C5%A1tudijn%C3%A9-materi%C3%A1ly.html. Slovenská archeológia – IA SAS Študijné zvesti – IA SAS	**Y**
Posting of basic data (name, type of site, dating) on registered archaeological sites on the national geoportal.	Basic data on the national geoportal are accessible (test mode). Data publication project acquired.	**Y**
Implementation of complete parts of archaeoparks in Bojná, Nitra, Nižná Myšľa, Štrba-Šoldov.	Bojná: part of the settlement, fortifications, and gate; Štrba-Šoldov: presentation of the church, built dwelling and wooden access bridge; Nižná Myšľa: part of the fortifications, entrance bridge, dwelling; Nitra: dwelling, pottery stove. We carry out regular activities everywhere.	**Y**

Preparation of documents for the project Slovak Science Popularisation Centre in Nitra on Martinský vrch (together with CVTI).	The project was handed over (28 February 2019) – promoter CVTI; cooperating inst. AÚ SAV, UKF and SPU and others = so called demand project, at the end of 2020 the CVTI governing body cancelled this part due to problems with procurement (increase in the price of construction works). The project is currently applying for support from the Recovery Plan (it is in the inventory of the Nitra Self-Governing Region and the Slovak Academy of Sciences)	**Y**
Processing of virtual presentations of important archaeological monuments in Nitra.	Gradual implementation within the VirtualArch (Interreg) project - available on the Institute's website: http://archeol.sav.sk/index.php/sk/virtualna-archeologia/. Visualizations are also implemented within other projects, as evidenced by the visual annexes in some monographs and studies published in the past years and also in the AU SAV application.	**Y**
Creation of 3D documents of both finds and field situations.	Movable and immovable monuments from a large number of sites were also visualised: Radzovce, Štúrovo-Obid, Poprad, Štrba-Šoldov, al-Qusur (Kuwait).	**Y**
To produce a minimum of 200 complete documentation of field research.	In 2016–2021, 537 field reports were processed from 606 field researches carried out.	**Y**

- **Development of basic research** with emphasis on:

  support of interdisciplinary approach (aDNA, isotope analyses, radiocarbon dating, botany, zoology, anthropology, geophysics, geology, etc.) – in the whole sphere of prehistory, early historic period, Middle Ages and early modern period – partly in the Institute and at the same time in cooperation with specialized research institutions at home and abroad.

  In this context, we will take the following steps in national and international context.

- ***National context:***

- successful completion of currently approved and ongoing APVV and VEGA projects;

- maintaining a successful balance of submitted, awarded, solved and positively evaluated VEGA projects;

- approaching the success rate in the national project agency APVV from the period 2016–2021 (here we have certainly peaked in the period under review and given the limited funding to the agency, it is almost impossible to increase our current efficiency);

- continue intensive scientific cooperation with the institutes of the Slovak Academy of Sciences and share both instrumentation and scientists with each other;

- carry out research in connection with the preservation of archaeological cultural heritage;

- support major scientific field research activities, in particular through projects with a commitment to publish the results as soon as possible;

- special attention to support for the analysis of LIDAR data and even more intensive verification by aerial scanning of identified objects (scientific importance, but also heritage protection);

- further development of the main journals registered in WoS and Scopus – Slovenská archeológia and Študijné zvesti AÚ SAV;

- organizing seminars and discussion forums in the sphere of theoretical and field research, the direction of archaeology as a discipline and also the vision of the department.

- ***International context:***

- fulfilling the scientific roadmaps in the context of the three ongoing ERC collaborative projects;

- increasing success rates in ERA, Horizon 2020 programmes – supporting applications for international projects – submission of at least two ERC projects and participation in other international consortia; submission of at least two MSCA and two Interreg projects;

- in connection with ongoing COST projects, we will also implement the research objectives set out in two MVTS projects approved by the SAV management – use of international networking;

- development of international scientific cooperation on research projects at home (Žitava valley with University in Kiel, Spiš and Eastern Slovakia with University Krakow, Zvolen with ELTE Budapest, etc.);

- continuation of research activities outside Europa (Kuwait, Sudan, possibly Egypt, Bahrain) – processing and publishing of further parts of the sources assemblages from the research completed so far;

- support for bilateral projects with an interdisciplinary character, e.g. continuation of the DFG project with the University of Kiel; project on aDNA analysis (Neolithic and Iron Age populations) in cooperation with the Universities of Vienna, Kiel, Jena, etc.;

- the thematisation of research questions with possible reflection on the situation in contemporary society (e.g. the problem of identity, gender, migration, collapse, the relationship between man and the earth in history, etc.) – already partly reflected in the current projects;

- increase in the number of scientific monographs published by renowned foreign publishers – at least two per year;

- support for the publication of scientific studies in reputable journals;

- together with ZBSA Schleswig, publishing four scientific monographs by an international research team – the Princely Tomb from Poprad;

- increasing the quantity and quality of research outputs – increasing the number of outputs and responses registered in scientific databases;

- on average, publish at least two monographs per year in renowned foreign publishing houses;

- efforts to attract foreign researchers or return of researchers from abroad – to obtain at least one SASPRO project, one project for Ukrainian researchers and to apply for research support of individuals (Mgr., PhD., Postdoc and experienced researchers) and teams from the Recovery Plan;

- seeking to participate in Ariadne projects;

- submit at least 2 projects under the H2020 calls;

- recruitment of foreign researchers and students for study and research stays (Fulbright Foundation; exchange programmes of the Ministry of Education, Erasmus);

- continue the operation of at least two international summer schools of archaeology;

- continue to strengthen its position in archaeogenetic consortia for research on prehistory, early historic and medieval times.

Science for society – applying research results

- opening of a modern archaeological exhibition about the princely tomb from Poprad in the Podtatranské múzeum museum;

- continue to support the functioning of archaeoparks;

- publishing a promotional publication on the Institute's activities after 2000 in both English and Slovak and publishing it on the web;

- to complete the preparation of software for the systematic publication of data from the information systems of the SAS and the continuous publication of various types of data with a possible link to Europeana;

- actively participate in the European Cultural Route of St Cyril and Methodius project;

- participate in at least three major international exhibition projects;

- activate cooperation with summer children's universities (Comenius University Bratislava, University of Constantine the Philosopher Nitra and possibly Pavol Jozef Šafárik University in Košice);

- to establish even closer cooperation with Regional Development Agencies and to integrate the results of archaeological research into the development of tourism;

- prepare the basis for the protection and use of archaeological sites for the Strategy for the Development of Culture (Ministry of Culture) and also in the Strategy for Culture and Creative Industry of the Slovak Republic 2030;

- actively cooperate in the submission and solution of creative industry projects;

- further preparation of digital 3D documents for the AUSAV application.

Enhancing the quality of doctoral studies

- Despite the declining number of domestic PhD applicants and the not infrequently lower professional quality of graduates, secure at least three new PhD students each year. Take advantage of the activation of foreign potential. Prepare an additional agreement on joint doctoral studies (University of Trnava) and at least one agreement on joint doctoral studies with a foreign university.

- Organise regular doctoral colloquia (usually in cooperation with several universities).

- **Career development for postdocs and researchers**

- maintain the trend of creating post doc positions for the most successful PhD graduates, or identifying suitable candidates for support from the Schwarz Fund;

- engaging high quality PhD graduates from abroad;

- continuing to increase scientific qualifications (qualification level within SAS IIa equivalent to doc. title at the universities – two on average each year, DrSc/prof – one every two years).

- **Infrastructure and quality of the research**

- in the interest of stability of scientific performance, continue the five-yearly evaluation of R&D at the Institute by regularly assessing the research priorities of both researchers and grant teams;.

- regularly confront academic-wide funding performance with the activities of research teams and individuals;

- support the maintenance, development and use of the Institute's modern infrastructure (laboratories, technical equipment, information systems) with the possibility of use by other entities in the research approach; regular mapping of opportunities – roadmap;

- support for the scientific conservation of archaeological finds and its staffing with university graduates – a problematic point so far, which is also related to the points below;

- building a central depository for organic finds;

- ensuring the operation and reliable functioning of the Central Register of Archaeological Sites, maintained in accordance with Law 49/2002 on the Protection of the Monuments Fund; if financial support is obtained, setting up a team dedicated to the verification of registered archaeological sites;

- a push for modern scientific documentation of archaeological sites and finds (3D scanning, reconstruction, modelling, visualisation, 3D printing, etc.);

- support for business activities throughout the whole scope of the charter (it is also a source for maintaining infrastructure);

- seeking to engage in "green energy" projects; Gradually moving towards energy neutrality (photovoltaics, heat pumps, waste management).