



Project acronym:	VirtualArch
Project title:	Visualize to Valorize – For a better utilisation of hidden archaeological heritage in Central Europe
Project index number:	CE947
Project partners:	<ol style="list-style-type: none"> 1. Archaeological Heritage Office of Saxony, Dresden, Germany (DE) 2. Foundation Bruno Kessler, Trento, Italy (IT) 3. Museum of Natural History, Vienna, Austria (AT) 4. Nicolas Copernicus University, Department for Archaeology, Torun, Poland (PL) 5. Institute of Archaeology of the Czech Academy of Sciences, Prague, Czech Republic (CZ) 6. Autonomous Province of Trento, Cultural Heritage Department, Trento, Italy (IT) 7. Institute for the Protection of Cultural Heritage of Slovenia, Centre for Preventive Archaeology, Ljubljana, Slovenia (SI) 8. Slovak Academy of Sciences, Institute for Archaeology, Nitra, Slovak Republic (SK) 9. Municipality of Puck, Poland (PL) 10. City of Zadar (HR)

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Statement of originality

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

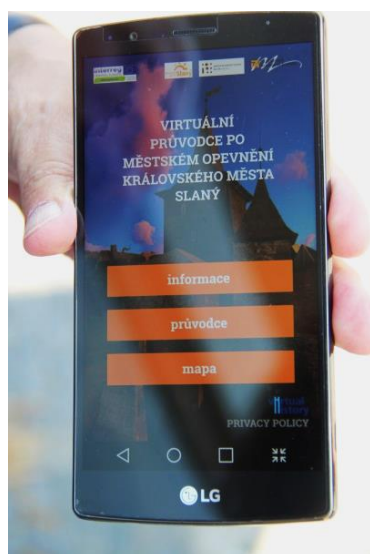


Short report

The Institute of Archaeology of CAS, Prague organized common field trip to pilot site Utín and other archaeological sites under the deliverable D.T2.2.8. "Common field work and prospection". Field trip was connected with the participation on conference "Computer Application in Archaeology" which was leaded by Institute of Archaeology of CAS, Prague. The venue was in Kouty (Ledeč nad Sázavou), hotel Luna (Vysočina region). All project partners were invited to participate on this occasion during two days, May 28-29, 2018. The representatives of the Archaeological Heritage Office of Saxony and the Institute for Archaeology of the Slovak Academy of Sciences, Nitra joined the Czech team for further activities.

May 28, 2018

The first stop was the royal town of **Slaný**, which lies about 25 km northwest of Prague in the Central Bohemian Region. Today is visible only torso of the monumental medieval fortifications of the city. Sophisticated defence system with many towers and bastions were largely demolished during the 19th century. Seeing the fortification in its original form makes it unique 3D reconstruction via smart phone app (Slany 1602), created by Jiří Unger. He presented the historical virtual reality directly in the streets of the town.





Paper Virtual Reality glasses, cardboard by Google for smart phone, tested in town of Slaný.

The archaeologist Dr. Petr Hrubý from the Masaryk University of Brno presented to the visitors the pilot site **Utín**. It is a small village, a part of the town of Přebyslav in the district of Havlíčkův Brod. The first mention in mining document is from 1258, dealing with the powers over the Silver Mines. Its potential was uncovered by geophysical measurements and small test excavations which indicate the existence of large mining settlement, dated back to 13th and 14th century. In the forest were visible sinkholes of mining shafts and thanks to the results of geomagnetic prospections visitors could imagine the extent of the settlement.

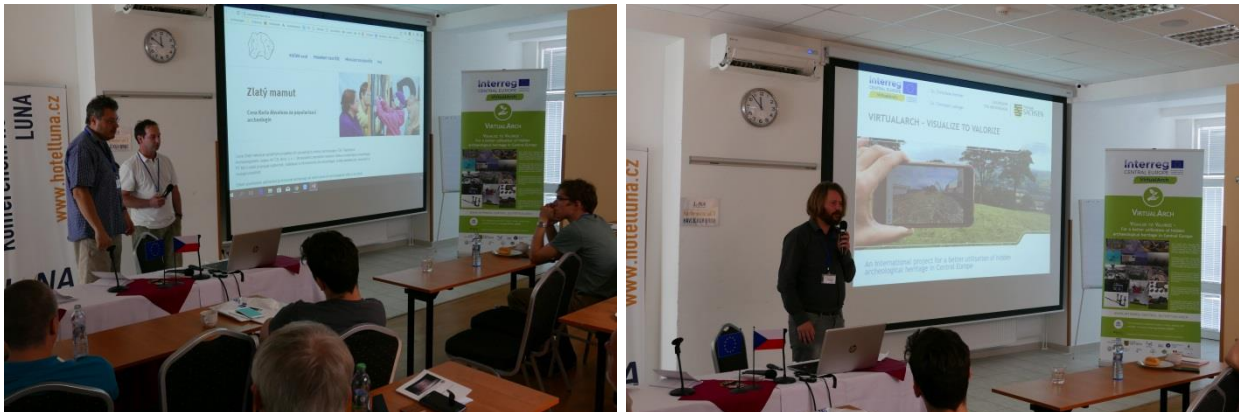




Finally, the group arrived to the venue of the archaeological conference, hotel Luna. Visitors were invited for evening keynote speech by Chris Green (University of Oxford), It's complicated: mapping and understanding 2,500 years of English archaeology.

May 29, 2018

On the next day continued the conference program. Within morning session "3D modelling and visualisation" was presented the methods of 3D visualisation by Jiří Unger and the idea of VirtualArch project by Christoph Lobinger.



Last stop on field trip was the site **Bylany** near Kutná hora. Neolithic settlement is located around 65 km east of Prague. Site covered a large area, primarily occupied by first farmers during the fifth millennium BC. Dr. Filip Velímský from Institute of Archaeology, department Kutná hora, gave an introduction to the history of archaeological research in Bylany. Excavation began in 1956. A base of Institute of Archaeology of CAS, Prague had been established right at the beginning of 1957 as a back-up for the entire research project in Bylany which continues until today. Filip took the group on the ongoing archaeological research.





After that visitors were accompanied by Dr. Markéta Končelová, from department Kutná hora, through the base camp. She introduced web page “Archaeological 3D virtual museum” and mobile application allows users to view and walk inside this Neolithic village with two rondel enclosures and long houses, as revealed by archaeological excavations.



<http://www.archaeo3d.com/en/home/>

Application works like a guide in a landscape with 9 stops full of knowledges. Button 360° allows looking around the Neolithic country. On the spot No. 3 near the base is information panel where the visitors can see Neolithic grave and the ceramic vessel in augmented reality.

