

## Project Deliverable Information Sheet

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## Document Control Sheet

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With the aim of identifying and reaching new communities, CERIC has established the outpost with the University of Uzhhorod in Ukraine (UZHNU), which became an important contact of CERIC in the region. The collaboration with the Uzhhorod University has enabled CERIC to reach the scientific community in Ukraine and neighbouring countries. The outcome of this alliance is defined in the number of research proposals submitted from Ukraine throughout the past years since the start of the project.

This collaboration aims at promoting international scientific cooperation and initiatives to support science diplomacy. Through the outpost events organized by scientists of the UZHNU, the objective is to raise awareness among the scientific community in the region about the open access opportunities available at CERIC, and the possibility of using different advanced techniques of analysis in research focused on Material, Biomaterials and Nanotechnology. With that, ACCELERATE supports in creating bridges towards scientific collaborations and opportunities, and reducing the barriers that prevent researchers from the region to create a stronger user community which accesses and uses the facilities of European Research Infrastructures. Moreover, bringing together researchers from Ukraine and neighbouring countries helps in creating the opportunity for constructive dialogue across national and cultural borders and differences, speaking the language of science as a universal tool.

Throughout the ACCELERATE project, UZHNU organized 7 outpost events, in parallel with international scientific conferences to reach a wider user community. Through these events, participants get introduced to CERIC, its Partner Facilities and scientific opportunities. Research results and developments in various fields are also presented and discussed. This enables researcher to exchange knowledge and best practices, and to strengthen their scientific network.

The outpost established incorporates the following event:

- **Satellite Event at the NESY Winterschool 2017 | 06 March 2017 | Altaussee, Austria**

The first event organized in the frame of this task was a scientific training which was necessary for the establishment of the CERIC outpost in Ukraine. Researchers from the Uzhhorod University took part in the satellite workshop at the well-known NESY Winterschool for Synchrotrons and Neutron Radiation. The purpose was to get acquainted with CERIC's scientific techniques and capabilities presented by researchers from CERIC's Partner Facilities, including: Electron Microscopy, Ion Beam Analysis techniques and NMR Spectroscopy for Structural Characterization. It was also an opportunity to exchange knowledge with other participants of the school coming from Austria and neighbouring countries.

- **CERIC session at the 19th Conference of Czech and Slovak Physicists | 06 September 2017 | Faculty of Humanities and Natural Sciences in Prešov, Slovakia**

The conference focused on presenting and sharing research results, finding new collaborations and discussing about future developments in physics and the related fields. ACCELERATE jointed the conference to raise awareness among the Czech and Slovak physicists and the communities of the neighbouring countries, about the research opportunities that CERIC offers. The satellite session co-organized by CERIC and UZHNU incorporated an introduction of CERIC facilities and open access, and presentations of research projects by CERIC users from Charles University in Prague in Czech Republic and from the Uzhhorod National University in Ukraine. Examples of research topics presented include: *Low loading platinum-based thin film catalysts for proton exchange membrane fuel cells*, and the *Mechanism of Interaction of Adenin Information Biomolecules with TiO<sub>2</sub> Surfaces*.

- **ACCELERATE Satellite Conference at the VIII Ukrainian Scientific Conference on Semiconductor Physics (USCPS) | 03 October 2018 | Uzhhorod, Ukraine**

The session aimed at introducing CERIC as a multi-technique large-scale research infrastructure which offers various opportunities to researchers in the region. It included a technical part in which researchers from partner facilities will present their research results and discuss the challenges faced through it. An example of the research topics presented include: Quantum chemical calculations of vibrational spectra, electronic and spatial structures of adenine and thymine molecules presented by a CERIC user at the UZHNU.

- **ACCELERATE Satellite Conference at the Clusters and Nanostructured Materials (CNM-5) | 22 October 2018 | Uzhhorod, Ukraine**

The session aimed at introducing researchers of the region to CERIC's open access opportunities developed specially for targeted countries – among them Ukraine. Additionally, the session included hints for writing a successful proposal that opens the doors towards some of the best large scale research facilities in Central and Eastern Europe. The conference brought together researchers to share knowledge about the latest achievements in the fields of nanomaterials and nano sized systems.

- **ACCELERATE satellite Conference at the School-conference of Young Scientists" Modern Material Science: Physics, Chemistry, Technology" | 27 May 2019 | Uzhhorod, Ukraine**

The event was organized in collaboration between the National Academy of Sciences of Ukraine and the UZHNU. In addition to the presentation of CERIC, the event aimed at introducing young

scientist to the latest achievements in the field of synthesis, the study and application of new materials, nanoscale systems and nanomaterials. Along with the research projects presented, the program of the session incorporated also a presentation by the Horizon2020 National Contact Point (NCP) in Ukraine who described how Horizon 2020 represents a real opportunity for self-realization for young scientists of Ukraine.

- **ACCELERATE Satellite Session at the 5th Regional Scientific-Practical Conference ‘Information Technologies in the Life of Students and Young Scientists of Transcarpathia’ | 07 November 2019 | UZHNU, Ukraine**

This event brought together early-stage researchers and the scientific community in Ukraine to expand their scientific knowledge through the research results presented. These include, in addition to the presentation by UZHNU about its collaboration with CERIC, the following research projects: Multiplatform tools for implementing cryptology algorithms, The general concept of algorithmic classification tree in pattern recognition problems, and more.

The last outpost event is planned to be held in May 2020. However, due to the Coronavirus emergency, it will be organized in line with the national restrictions put in place in Ukraine. Considering the situation, the UZHNU have decided to organize an additional outpost event during 2020, by holding a second edition of the ACCELERATE satellite session at the Clusters and Nanostructure Materials conference (CNM-6).

Moreover, with the aim of reinforcing the CERIC regional outpost in Ukraine, two CERIC researchers at the Charles University (Czech Republic) visited the Uzhhorod University in February 2019 and held a series of strategic meetings that regard the CERIC – Uzhhorod Univ collaboration. The visit included also the participation of the researchers at the 73rd final scientific conference of the teaching staff of UZHNU.

The collaboration between UZHNU and CERIC’s Czech Partner Facility, Charles University in Prague, expands to the support in the transfer of equipment and instrumentation to the UZHNU, and the training for their usage. An example of these instruments includes: Auger Spectrometer and Mass Spectrometer.