International research network for study and development of new tools and methods for advanced pedagogical science in the field of ICT instruments, e-learning and intercultural competences

Report on Deliverable D2.5	

Deliverable number:	**D 2.5**
Deliverable name:	Report "First outcomes of WP2 activities and research carried out within the framework of the IRNet project"
Scheduled delivery month:	8
Scheduled delivery date:	August 2014

I. OBJECTIVES OF THE WP2

The goal of the WP2

The overall goal of the WP2 is to anticipate the coming years when universities will face the need to work together, both in terms of student exchange and in terms of technological and infrastructural procedures for exchanging staff members and open online courseware material. The recent attention for MOOCs (*Massive Open Online Courses)* is only a small part of the solution. Much more vital are the compatibility of institutional policies, benchmarks for effectiveness and the mutual recognition of assessment characteristics.

Planned research activities:

- to review of the existing literature, legal documents, web sources, etc, drawing on contributions from a range of relevant disciplines (education, computer science, intercultural education, sociology, anthropology, political science)
- to analyze legal, ethical, human, technical, social factors of development ICT, e-learning and intercultural development in partner's countries;
- to add new perspectives on the problem of understanding the higher education and developing some key competences - globalization nexus in different regional and national contexts

WP2 coordinator: UT (The Netherlands)

II. RESEARCH ACHIEVEMENTS

Task 2.1: Mapping and developing an account of factors involved in process of globalisation and regionalization in developing key competences, including their interests, scales of influence, and temporal horizons.

- the following terms have been studied and defined for the common glossary: *globalization, key competences, intercultural competence, PLE (personal learning environment)*;
- a questionnaire for students (Polish, English, Russian and in other language version) was elaborated and a questionnaire for academic teachers was improved.

Outcome:
- Glossary of main definitions was developed
- Questionnaires for students and academic teachers were elaborated

Task 2.2: Examining the role of higher education policy in globalisation processes

- the main documents on international cooperation, including international agreements of universities involved into the project, Spain, Russian and Slovak legislation concerning the development of a knowledge society (from aid to e-learning as a means of building competences) and the role played by higher education institutions have been studied.
- an analysis of the education system in the Spain, Russian and Slovak through studying of the legal and official university and faculty documents has been made.

Outcome:
- a list of fundamental international, Polish, Australian, Czech, the Netherlands, Portugal, Slovakian, Spanish, Ukrainian, Russian and other partners countries documents on education and their comparative study;
- an analysis of the policy of different partners countries in the field of higher education from the perspective of globalization and entering the European educational space: the score ranking system for evaluation of students' educational achievements, curricula, competence development and system of training. Analysis of the projects of leading Russian universities in the field of e-learning and intercultural competences.

Task 2.3: Identifying the role of key international higher education institutions in policy developing of key competences and in new forms of international cooperation.

- a matrix of guidelines for research in international cooperation, its new forms and student exchange programs was elaborated;
- the administrative structure of the university responsible for the evaluation of teaching quality and teacher's training as been analyzed;
- the university's activity in international research programs was studied;

- The search for innovative projects of partners universities in the field of international cooperation was held.
- The following main sources were analyzed:
  - *World Declaration on Higher Education for the Twenty-First Century: Vision and Action and Framework for Priority Action for Change and Development in Higher Education*
  - *United Nation Development Programme*
  - *The Millennium Development Goals: Eight Goals for 2015*
  - *European Association of Institutions in Higher Education*
  - *European Educational Research*
  - *Evaluation education system in OECD Countriesh*
  - *The European Higher Education Area in a Global Setting*
  - *Erasmus+ The EU Programme 2014-2020 for Education, Training, Youth, and Sport*
  - *Council Resolution of 31 March 1995 on improving and diversifying language learning and teaching within the education systems of the European Union, other*

Outcome:
- the Matrix and guidelines for research into international cooperation, its new forms and student exchange programs.

Task 2.4: Analysis of processes of competences development – e.g. processes operating simultaneously on different scales, contemporary trends and previous research

- didactic principles of ICT competences as well as competences in area of the e-learning and teaching, the mechanisms of improving education, methodological background of the competence approach to the University Students' Training in Badajoz, Sankt Petersburg, Nitra, psychological assumptions of enhancing students' creativity within their professional competence at higher school have been studied.

Task 2.5.: Individual/join research at the visited institutions.

- both the national system of quality assessment of university teaching and the international quality assessment system have been explored;
- the entries within the glossary of projects' terms and a questionnaire concerning the main information were prepared;
- the project researchers took part in all the roundtables and discussions together with other researchers, namely the ICT policy in partner universities.

Outcome:
- Glossary of main definitions was developed
- Questionnaires for students and academic teachers were elaborated

Task 2.6.: Analyses of legal, ethical, human, technical and social factors of ICT and e-learning development and the state of intercultural competences in every partner country.

- a table including all the main factors and indicators was worked out;
- the Polish, Netherlands, Slovak, Spanish, Portugal, Czech, Australian, Ukraine, Russian, and others national legislation concerning ICT, e-learning and intercultural competences was explored;
- project participants did research into the virtual University Campus, which serves all university centers, promoting cultural adaptation of students and developing cultural competences.

Outcome:

- Glossary of main definitions was developed
- Questionnaires for students and academic teachers were elaborated

    Sections of the questionnaire:

    Dimension 1. The assessment of the quality of the distance course
    Dimension 2. The quality access to Internet and use an educational sources
    Dimension 3. The attitude of teachers and students to ICT education
    Dimension 4. Tools and kind of the communication with academic teachers
    Dimension 5. E-learning application
    Dimension 6. Kind of use of distance learning systems
    Dimension 7. Students proposals in area of increase effectively the educational process with ICT and Web support.

Task 2.7.: Researchers take part in events, such as conferences, workshops and roundtables, particularly those which deal specifically with their topic(s) of research.

During secondments the IRNet researchers took part in the various conferences/ workshops/ meetings. The list of project events is presented in the III. "Transfer of knowledge and training activities" and IV.1 „Conferences".

Task 2.8: Meeting for all project participants in Spain. Videoconferences and roundtable debate.
The researchers from Ukrainian, Russian and Spanish work groups took part in **2** videoconferences, **5** debates, **6** roundtables and discussions while their secondment to University of Extremadure, Badajos, Spain.
The Poland, Australian, Portugal, Slovak, Czech Republic work groups participated in the meeting in remote mode which took place on 24.03.2014 at the UEx.

Task 2.9. Meeting and Workshop (HSPU, Russia),
The researchers from Polish, Russian, Netherlands and Spanish work groups took part in **8** Meetings, 2 videoconferences, 2 Workshops, **7** debates, **5** roundtables and discussions while their secondment to HSPU, Sankt-Petersburg, Russia.
The Ukrainian, Australian, Portugal, Slovak, Czech Republic work groups participated in the meeting in remote mode which took place on 28.04.2014 at the HSPU.

Outcome:

As results of joint activities in HSPU (April, 2014) series of articles were elaborated: newspaper and scientific journal.

Task 2.10. Conference *DIVAI 2014* (*Distance Learning in Applied Informatics*) UKF (Slovakia)

International Scientific Conference ***DIVAI 2014, Distance Learning in Applied Informatics*** was organized by UKF, Nitra, Slovakia and held on May 5-7, 2014 in Sturovo, Slovakia (http://conferences.ukf.sk/divai2014).

The conference was dedicated to the questions of the use of computer simulation, the possibility of distance learning and the use of ICT technologies in the evaluation of knowledge and students' independent work.

As results of activities at the DIVAI 2014 conference (May, 2014) series of scientific articles were elaborated and printed in the Conference Proceedings, several presentations were presented during conference session. In addition 7th May a Project Meeting was held with participation of a partners from Slovakia, Russia, Ukraine, Poland, Czech.

Outcome:

- the report *First outcomes of WP2 activities and research carried out within the framework of the IRNet project – international scientific network* was prepared and presented during conference session.

Task 2.11. Conference *Innovations in higher education* and dissemination of the initial results of the research on the law, ethical, human, technical, social factors of ICT developments, e-learning and intercultural developments in deferent countries" (DSTU, Ukraine).
The conference was dedicated to Legal framework for the development of distant and e-learning in IRNet partner-countries; Ethical, human techniques, social factors of Development ICT, e- learning and intercultural development in in IRNet partner-countries; Technological and informational methods of distance and e-learning in IRNet partner-countries.

As a results of activities of the ***Innovations in higher education* Conference are:**
- several scientific **articles** were elaborated and will printed in the Conference Proceedings,
- several **presentations** were presented during conference session in presence and remote mode (in **videoconference** form using Adobe Connect Technology). Among lecturers are project participants from Ukraine, Poland, the Netherland, Portugal, Spain.

Outcome:

- Report *The general conception of analyses and implementation the legal, ethical, human, technical and social factors of ICT and e-learning development in several european countries – international research network* was prepared and presented during conference session.

III. TRANSFER OF KNOWLEDGE AND TRAINING ACTIVITIES (WORKSHOPS)

The following knowledge exchange activities have taken place as part of WP2:

1) Secondment HSPU, DSTU, BGKU to UEX (March 2014)

<u>Researchers involved:</u>

University of Extremadura. Badajoz, Spain
Prof. Laura Alonso Diaz
Prof. Juan Arias Masa
Prof. Sixto Cubo Delgado
Prof. Gemma Delicado Puerto
Prof. Prudencia Gutierrez Esteban
Prof. Rocio Yuste Tosina
Herzen State Pedagogical University. St.Petersburg, Russia
Prof. Tatiana Noskova
Prof. Tatyana Pavlova
Prof. Olga V. Yakovleva
Dniprodzerzhinsk State Technical University. Kiev, Ukraine
Prof. Oleksandr Sadovoy
Prof. Maryna Romaniukha
Borys Grinchenko Kyiv University. Kiev, Ukraine
Prof. Natalia Morze
Prof. Olga Melnychenko

The transfer of knowledge activities during the visit were focused on the studied by researchers the main documents on international cooperation, including international agreements of project universities, the Spain, Russian and Ukraine legislation concerning the development of a knowledge society (from aid to e-learning as a means of building competences) and the role played by higher education institutions. Project Researchers made an analysis of the education system in the Spain, Russian and Ukraine through studying of the legal and official university and faculty documents.

It was possible to discuss the **Analysis of processes of competences development – e.g. processes operating simultaneously on** different scales, contemporary trends and previous research; Analysis of legal, ethical, human, techniques, social factors of Development ICT, e-learning and intercultural development in every partners countries.

This visit provided the following support and knowledge to the project and future research possibilities: To analyze methodological background and main approaches of conducting international investigations on ICT, e-learning and intercultural competences in order to work out a system of measuring instruments appropriate for the research at the international level;

To analyze and evaluate the level of ICT, e-learning and intercultural developments in every participating country applying the system of measuring instruments approved; To compare the results obtained and to draw the conclusion about barriers in ICT, e-learning and intercultural competences, taking into consideration descriptions of the national specifics of law, human, social, ethical and technological factors of their implementation, other

Meetings, Seminars and Workshops:

- 03-05-2014. Meeting with the Dean of the Faculty of Education Welcome of the Dean of Faculty of the Education in Badajoz. Presentation of the institution.
- 03-05-2014. Meeting with the members of the IRNET Project. The activities developed during this session were: ● Personal presentation of staff members and staff of the faculty. ● WP2: goals, tasks, etc. ● Approval of the work agenda. ● Analysis of Proposed work of Prof. Piet Kommers. ● DIVAI 2014. ● Debate and agreement about the coordination and development of work.
- 03-13-2014. Meeting with the Director of Mérida University Center (CUM) Participants: ● IRNET UEx staff members. ● IRNET Invited members. ● Staff of the Merida University Center: ○ Juan Carlos Peguero Chamizo, PhD, Director. ○ Luis Arévalo Rosado, PhD, Associate Director. ○ Prof. Rafael Martín Espada. ○ Prof. Javier Carmona Murillo.
- 03-13-2014. General meeting with the Faculty of CUM Participants: ● IRNET UEx staff members. ● Invited IRNET partners: HSPU, DSTU, BGKU. ● CUM Faculty members: Objectives: ● To develop a formal presentation from every partner ● To develop a formal presentation of UEx virtual Campus Activities:
- 03-13-2014. Meeting with the members of the IRNET Project Participants: ● IRNET UEx staff members ● Invited IRNET partners: HSPU, DSTU, BGKU Objectives: ● Fixing a monthly working plan (March) ● A proposal to send a communication to Divai2014's Conference ● Review of WP2 ● Planning the final report Activities: Debate on the objectives put forward on behalf of all the members.
- 03-13-2014. Mérida University Center Visit Participants. To show the University Center of Mérida and its Technological facilities. Establish connections and differences between IRNET team faculties Activities: 1. Tour around the CUM 2. Debate about connections and differences between IRNET team faculties 03-25-2014. Meeting with the Director of IT Service The meeting was offered by the director and assistant director of the Computer Science Department of the UEx, Alfonso Gazo Cervero, PhD and David Rodríguez Lozano, PhD. The Department (SIUE) is a service to support teaching and research in the frame of the Statutes of the University Of Extremadura (article 49). Such support has among its objectives teaching and research and facilitating the administrative functioning of the University. Its main functions are the maintenance of the corporate applications of

the UEX (academics, human resources, research, library and other online service via "Portal de Servivios"), development of information systems for other University services, support users with official software, university e-mail, maintenance of antivirus programs, university identity card and negotiating and developing New Technologies in the University Of Extremadura's four campuses, principally in those aspects related to the implications of the Information Technologies and the Communication in the Teaching and Research quality (Institutional Web, Virtual CampusRedUEX, Virtual Shared Campus G9, Video Conferences).

https://www.dropbox.com/s/c02o4qhmgjz3x0a/UExITServices.ppt

- 03-24-2014. Interview with the Press Office of the UEX 03-25-2014. Meeting with the Director of IT Service The meeting was offered by the director and assistant director of the Computer Science Department of the Uex, Alfonso Gazo Cervero, PhD and David Rodríguez Lozano, PhD. The Department (SIUE) is a service to support teaching and research in the frame of the Statutes of the University Of Extremadura (article 49). Such support has among its objectives teaching and research and facilitating the administrative functioning of the University. Its main functions are the maintenance of the corporate applications of the UEX (academics, human resources, research, library and other online service via "Portal de Servivios"), development of information systems for other University services, support users with official software, university e-mail, maintenance of antivirus programs , university identity card and negotiating and developing New Technologies in the University Of Extremadura's four campuses, principally in those aspects related to the implications of the Information Technologies and the Communication in the Teaching and Research quality (Institutional Web, Virtual CampusRedUEX, Virtual Shared Campus G9, Video Conferences). https://www.dropbox.com/s/c02o4qhmgjz3x0a/UExITServices.ppt
- 03-25-2014. Meeting with the Rector and Vice-Rector of International Affairs The Rector and Vice-Rector of International Affairs at Extremadura University received the Irnet Project group. During the reception the Rector and Vice-Rector at Borys Grinchenko Kyiv University, Prof. Natalia Morze, signed an agreement between the two institutions.
- 03-25-2014. Meeting with the members of the IRNET Project Participants: ● IRNET UEx staff members ● Invited IRNET partners: HSPU, DSTU, BGKU ● CUM Faculty members: Objectives: ● To work on activities of Workpackage 2. Activities: 1. Work on Piet´s document about the Legal situation of the in different Countries 2. Present and discuss the Google Drive questionnaire developed in order to be validated by the different partners of the project.
- 03-25-2014. Meeting with the Director of SOFD (Service of Orientation and Teacher Training) Participants: ● IRNET UEx staff members ● Invited IRNET partners: HSPU,

DSTU, BGKU ● Director of Service of Orientation and Teacher Training Objectives: ● To get to know the Service of Orientation and Teacher Training Activities: Welcome by Director of SOFD 9 (https://www.dropbox.com/s/vnyg0kwub49e858/Lecture%20Training%20%20 Unit%202014.pdf)

- 03-26-2014. Conference to Faculty of Education "University, Education and Learning in Russia and Ukraine" The Universities BGKU, HSPU and DSTU offered a lecture about the education systems in Russia and Ukraine. 10 https://www.dropbox.com/s/4a8jre99a1pby6n/BGKU%20Conference.ppt https://www.dropbox.com/s/qq7tug7jzotc3ux/Conference%20in%20Badajoz.%20Russia.ppt https://www.dropbox.com/s/4qa6zo7q4bf3q0g/Information%20about%20DSTU.ppt

- 03-27-14. Visit to the Teacher Training Colleague During the visit to Caceres, the members of the project, enjoyed a late breakfast at the cafeteria. Then, they took a tour around the facilities of the Teacher Training College. Among other things, they visited classrooms, the conference room, the cafeteria, the music lab, the computer lab, the copy office, the student's room, etc. They were very interested in 11 the computer lab, the digital boards and asked several questions related to technology.

- 03-27-14. Meeting with the members of the IRNET Project Participants: ● IRNET UEx staff members ● Invited IRNET partners: HSPU, DSTU, BGKU Objectives: ● To work on Workpackage 2 activities. ● To work on the final report. Activities: 1. Discussion of the final report structure

- 03-27-14. Meeting with Vice-Rector of the On line University Participants: ● IRNET UEx staff members ● Invited IRNET partners: HSPU, DSTU, BGKU ● Vice-rector of the online university Objectives: ● To Know the Online University of Extremadura 12 Activities: Presentation and discussion with the Vice-rector of the online university Rectorate buildings https://www.dropbox.com/s/d4pn2jzbcg916ge/Digital%20university.%20University%20of% 20Extremadura.pptx

https://dl.dropboxusercontent.com/u/1488553/Final%20report.%20Activities%20BGKU-HSPU-DSTU-UEX.%20March%202014.pdf

2) Secondment US, UEX, UT to HSPU (April 2014)

Researchers involved:

Herzen State Pedagogical University. St.Petersburg, Russia
Prof. Tatiana Noskova
Prof. Tatyana Pavlova
Prof. Olga V. Yakovleva
University of Silesia, Katowice, Poland
Prof. Eugenia Smyrnova-Trybulska
Prof. Ewa Ogrodzka-Mazur
dr Anna Gajdzica

University of Extremadura. Badajoz, Spain
Prof. Sixto Cubo
Prof. Laura Alonso Diaz
Prof. Juan Arias Masa
Prof. Rocio Yuste Tosina
University of Twente, The Netherlands
Prof. Piet Kommers

The transfer of knowledge activities during the visit were focused on the **mapping and developing an account of factors involved in process of globalisation and** regionalization in developing key competences, including their interests, scales of influence, and temporal horizons concerning Russian Higher education, in particular HSPU as well as other partners institution, for example UT, US. UEx; **Identifying the role of key international higher education institutions in policy developing of key** competences and in new forms of international cooperation; Analysis of legal, ethical, human, techniques, social factors of Development ICT, e-learning and intercultural development in every partners countries.

Research activities: Studying the catalogue of literature and scientific publications, Questionnaires, Interview, conference reports, scientific discussion, roundtable debate, etc .

Conferences, Seminars, Workshops and Meetings:
▪ 02.04.2014 – **Meeting** with the faculty staff, familiarization with the structure and activities of the Faculty of Information Technology, tour around the University campus, tours around the palace and park of the university complex.
▪ 07.04.2014 – **Meeting** with the Director of University Library, familiarization with the fund of rare books, computer services, modern technologies of library work.
▪ 10.04.2014. *IT-Specialist of Herzen State Pedagogical University of Russia,* St. Petersburg, Presentations: *System of education in Poland, Higher education in the Netherlands*
▪ 11.04.2014 – **Meeting** with the Vice-Rector for Informatization V. Boikov, getting acquainted with IT-infrastructure of the university, excursion to server-rooms, open-access classes and music and computer laboratory.
▪ 15.04.2014. **International Scientific Conference** *High-tech information educational environment*, Herzen State Pedagogical University of Russia, St. Petersburg,
   Presentation:
   o *Elearning and lifelong learning at the University of Silesia (Prof. Eugenia Smyrnova-Trybulska, US, Poland),*
   o *Innovations in Higher education in the Netherlands (Prof. Piet Kommers, UT, The Netherland)*
   o *Intercultural pedagogy in the Polish system of higher education (Prof. Ewa Ogrodzka-Mazur, dr Anna Gajdzica, US, Poland),*
   o *Pedagogical essence of the virtual educational environment – Prof. Noskova Tatiana, HSPU, Russia)*
▪ 16.04.2014.***Seminars and Workshop:** Best pedagogical minds and their impact on the integration of past, present and future of Europe, (Лучшие педагогические умы и их*

влияние на интеграцию прошлого, настоящего и будущего Европы) Herzen State Pedagogical University of Russia, St. Petersburg,

- 18.04.2014 – **Meeting** with the Director of Herzen University Museum.
- 18.04.2014. ***Workshop*** *"Elearning" (Электронное обучение), organizing by* Department of Information and Communication Technology, Building 1, Coordinator prof. Vlasova E.Z. *conducted by dr Ilya Gosudariev*, Herzen State Pedagogical University of Russia, St. Petersburg, Participants: *Prof. Piet Kommers, UT, The Netherland, Prof. Ewa Ogrodzka-Mazur, dr Anna Gajdzica, US, Poland), Prof. Eugenia Smyrnova-Trybulska, US, Poland, Prof. Noskova Tatiana, HSPU, Russia, participants from* Department of Information and Communication Technology*)*
- 23.04.2014. **Meeting** at the Institute of Childhood, Herzen State Pedagogical University of Russia, St. Petersburg, Participants: *Prof. Piet Kommers, UT, The Netherland, Prof. Ewa Ogrodzka-Mazur, dr Anna Gajdzica, US, Poland), Prof. Eugenia Smyrnova-Trybulska, US, Poland,* Presentation: *E-learning development at the University of Silesia, Intercultural education of children in the opinion of Polish students – future teachers, Internationalisation and Creative education at the University of Twente).*
- ***Seminars****: Information technology in university teacher preparation (Информационные технологии в вузовской подготовке педагога),* Herzen State Pedagogical University of Russia, St. Petersburg, 24.04.2014. Participants: *Prof. Piet Kommers, UT, The Netherland, Prof. Ewa Ogrodzka-Mazur, dr Anna Gajdzica, US, Poland), Prof. Eugenia Smyrnova-Trybulska, US, Poland, Prof. Sixto Cubo Delgado, UEX, Extremadure University, Spain, Prof. Rocío Yuste Tosina, Prof. Laura Alonso Díaz: Prof. Juan Arias Masa, UEX, Extremadure University, Spain, Prof. Noskova Tatiana, Prof. Tatiana Pavlova, dr Olga Yakovleva, HSPU, Russia, participants from* the Faculty of Information and Communication Technology, *HSPU, Russia)*
- 24.04.2014. **Meeting** at the Faculty of Psychology and Education. Herzen State Pedagogical University of Russia, St. Petersburg, Presentation: *Social change and resistance towards transforma-tions in the research into relations in multicultural environments.* Participants: *Prof. Piet Kommers, UT, The Netherland, Prof. Ewa Ogrodzka-Mazur, dr Anna Gajdzica, US, Poland), Prof. Eugenia Smyrnova-Trybulska, US, Poland, Prof. Sixto Cubo Delgado, UEX, Extremadure University, Spain, Prof. Rocío Yuste Tosina, Prof. Laura Alonso Díaz: Prof. Juan Arias Masa, UEX, Extremadure University, Spain, Prof. Noskova Tatiana, Prof. Tatiana Pavlova, dr Olga Yakovleva, HSPU, Russia, participants from* the Faculty of Information and Communication Technology, *HSPU, Russia, participants from* the Faculty of Information and Communication Technology*).*
- 25.04.2014. **IRNet Scientific Seminar.** Herzen State Pedagogical University of Russia, St. Petersburg, Chair of Informatization of Education.
- 25.04.2014. **Meeting** with the Vice-Rector for International Cooperation S.M. Shilov.
- 28.04.2014. **IRNet Scientific Seminar** in presence and remote mode, videoconference with prof. Antonio Reis. Case study for Masters. Herzen State Pedagogical University of Russia, St. Petersburg, Participants: *Prof. Piet Kommers, UT, The Netherland, Prof. Ewa Ogrodzka-Mazur, dr Anna Gajdzica, US, Poland), Prof. Eugenia Smyrnova-Trybulska, US, Poland, Prof. Sixto Cubo Delgado, UEX, Extremadure University, Spain, Prof. Rocío Yuste Tosina, Prof. Laura Alonso Díaz: Prof. Juan Arias Masa, UEX, Extremadure*

University, Spain, Prof. Noskova Tatiana, Prof. Tatiana Pavlova, dr Olga Yakovleva, HSPU, Russia, participants from the Faculty of Information and Communication Technology, HSPU, Russia, participants from the Faculty of Information and Communication Technology)

4) Secondment HSPU, DSTU, BGKU to UKF (May-June 2014)

Researchers involved:

UKF, Nitra, Slovakia
dr Martin Drlík
dr Martin Cápay
dr Jozef Kapusta
dr Julia Tomanová
Herzen State Pedagogical University. St.Petersburg, Russia
Prof. Tatiana Noskova
Prof. Tatyana Pavlova
Prof. Olga V. Yakovleva
Dniprodzerzhinsk State Technical University. Kiev, Ukraine
Prof. Maryna Romaniukha
Prof. Mykola Nakaznyi
Prof. Liudmila Sorokina
dr Valerii Zavgorodnii
dr Kateryna Yalova
Borys Grinchenko Kyiv University. Kiev, Ukraine
Prof. Natalia Morze
Prof. Olga Veselovska

The transfer of knowledge activities during the visit were focused on the reflecting the main methodological aspects of previous research of the chair of informatization of education of UKF, HSPU, BGKU, DSTU: technological approach in education; environmental approach in educational activities; psihodidaktic approach for the educational environment modeling; basic concepts of modeling; algorithmization of network communication (Noskova, 2011); models of network communication (Noskova, 2011); extracurricular activities of students (Iakovleva, 2013), the professional competence of teachers in the information environment (Pavlova, 2010); pedagogy in network environment (Noskova, 2013); research areas in Herzen University; examples of network teaching methods; module of International Master training program "ICT for professional development of teachers"; International Scientific and practical conference "High-tech educational environment". Presented possible areas for joint research. Meeting with the vice-rector for Academic Affairs of the University of Constantine the Philosopher, professor Zhilova. Discussed the questions of training students in Slovak universities. Prof. Zhilova noted that distance learning is not widely used, but extensive use of ICT technologies for the organization of independent work of students and knowledge control takes place. Discussed a number of issues related to problems in the implementation of motivation to e-Learning. Discussed the proposal for the signing of agreements on issues of further cooperation in the exchange of teachers and students. meeting with the head of the

department of computer science, Prof. Milan Turcani to discuss the problems that exist in the field of e-learning on the part of students and teachers of the motivation for the preparation and use of ICT technologies in the educational process. The chair works in three directions: training of teachers, working with databases and data mining, modeling and automation of processes. The main indicator of the department is the existence of publications as a result of research. Common ground in the field doing research and general publications was found. Other research activities.

During this visit, the International Scientific Conference *DIVAI 2014*, *Distance Learning in Applied Informatics* was organized by the UKF (May 5 - 7, 2014, Sturovo, Slovakia). The conference was dedicated to the questions of the use of computer simulation, and the possibility of distance learning and the use of ICT technologies in the control of knowledge and students' independent work.

Conferences, Seminars, Workshops and Meetings:
- 2-05-2014   Visiting the Faculty of Natural Sciences, **Meeting** with employers of the Computer Science Department
- 5-7-05-2014   Participation in **the International Scientific Conference *DIVAI 2014***, *Distance Learning in Applied Informatics* was organized by the UKF (May 5 - 7, 2014, Sturovo, Slovakia).
- 12-05-2014   **Meeting** with the Dean of the Faculty of Natural Sciences
- 13-05-2014   Participated in the scientific **mini-seminar** for the project participants at the UKF, reflecting the main methodological aspects of previous research of the chair of informatization of education of HSPU. Main sections of the report: technological approach in education; environmental approach in educational activities; psihodidaktic approach for the educational environment modeling; basic concepts of modeling; algorithmization of network communication (Noskova, 2011); models of network communication (Noskova, 2011); extracurricular activities of students (Iakovleva, 2013), the professional competence of teachers in the information environment (Pavlova, 2010); pedagogy in network environment (Noskova, 2013); research areas in Herzen University; examples of network teaching methods; module of International Master training program "ICT for professional development of teachers"; International Scientific and practical conference "High-tech educational environment". Presented possible areas for joint research. Visiting of University Library, Research activities: Studying the catalogue of literature and scientific publications …
- 14-05-2014   **Meeting with the Rector and Vice-Rectors.**
- 14-05-2014   Took part in the organization of the **meeting** with the students of the Faculty of Natural Sciences. Made a presentation of HSPU, education in Russia, specifics of preparing students on the faculty of information technologies. Discussed the questions of students' plans for future professional activities, free tome organization and interests.
- 15-05-2014   Visit to the university library, **Meeting** with Director of the Library. The library is a modern building, which was built with the support of the European Union in 2011, the technical equipment and the possibility of on - line access to a global directory is an achievement of library science in the modern world. All literature in the public

domain, except for the most valuable historical publications 16-19 century works that are in the archive directory. It has been demonstrated repository where you store theses, bachelor's and master qualification works with automatic sliding shelves and catalogs. In general, the library is equipped with up to date and consistent with international standards. Once a month in the library is an action book exchange. An interesting element of the structure was the University Student Art - Gallery, where students design training areas exhibit their creative achievements.

- 19-05-2014   Visiting of the Pedagogical Faculty. **Meeting** with the vice-rector for Academic Affairs of the University of Constantine the Philosopher, professor Zhilova. Discussed the questions of training students in Slovak universities. Prof. Zhilova noted that distance learning is not widely used, but extensive use of ICT technologies for the organization of independent work of students and knowledge control takes place. Discussed a number of issues related to problems in the implementation of motivation to e-Learning. Discussed the proposal for the signing of agreements on issues of further cooperation in the exchange of teachers and students.
- 20-05-2014   **Meeting** with the head of the department of computer science, prof. Milan Turcany to discuss the problems that exist in the field of e-learning on the part of students and teachers of the motivation for the preparation and use of ICT technologies in the educational process. The chair works in three directions: training of teachers, working with databases and data mining, modeling and automation of processes. The main indicator of the department is the existence of publications as a result of research. Common ground in the field doing research and general publications was found.
- 21-05-2014   **Meeting** with the Vice-Rector for Lifelong Learning Education
- 30-05-2014   Participation in the **Project Meeting** (in presence and remote mode, Videoconference using Adobe Connect)
- **meeting with the Rector and Vice-Rector for Academic Affairs and the Vice-Rector for Lifelong Learning Education** of the University of Constantine the Philosopher. Discussed the questions of training students in Slovak universities. Discussed a number of issues related to problems in the implementation of motivation to e-Learning. Discussed the proposal for the signing of agreements on issues of further cooperation in the exchange of teachers and students.
- **meeting with the head of the department of computer science**, discussion on the issues in the field of e-learning, particularly the motivation of students and teachers for the preparation and use of ICT technologies in the educational process. The chair works in three directions: training of teachers, working with databases and data mining, modeling and automation of processes. The main indicator of the department is the existence of publications as a result of research. Common ground in the field doing research and general publications was found.
- **project meeting** with the participation of all IRNet project participants arrived to attend the conference DIVAI: discussion on the details of the questionnaire for students. Discussion on the directions of UKF partner's scientific work: computer graphics, 3D modeling of objects, dada mining.
- **a videoconference** of the participants of the IRNet project: discussion on the the results of the participation in the international conference DIVAI and on the first results of the

visit in the UKF.

IV. DISSEMINATION OF RESULTS

The dissemination of the initial results has been performed by means of conferences as well as publications of the articles related to the project's scientific outcomes. However, these means are not fully exhaustive of the dissemination of the project activities undertaken in the framework of the project, which were the subject of many other activities and presentations during visits in the partners/beneficiaries institutions.

1. CONFERENCES

1) International scientific-practical conference ***High-tech information educational environment*** was held on April 15, 2014 in HSPU, Sankt Petersburg, Russia.

   High-tech information educational environment − is a perspective educational environment, in which information and communication processes are deployed in both traditional and virtual (electronic) formats, causing qualitative changes in the scientific, educational, social and cultural problems.

   The conference was dedicated to Innovation in terms of educational activities informatization, IT in scientific research, Socio-cultural effects of informatization.

   The conference was attended by more than 50 participants from Russia, Poland, the Netherland, Australia, others countries

2) International Scientific Conference ***DIVAI 2014, Distance Learning in Applied Informatics*** was organized by UKF, Nitra, Slovakia and held on May 5-7, 2014 in Sturovo, Slovakia (http://conferences.ukf.sk/divai2014);

   The conference was dedicated to the questions of the use of computer simulation, the possibility of distance learning and the use of ICT technologies in the evaluation of knowledge and students' independent work.

   The conference was attended by more than 40 participants from Slovakia, Czech Republic, Poland, Ukraine, Russia, Lithuania, Slovenia, others countries

3) International Scientific Conference ***Innovations in higher education*** was held on June 25, 2014 in DSTU, Ukraine.

   The conference was dedicated to Legal framework for the development of distant and e-learning in IRNet partner-countries; Ethical, human techniques, social factors of Development ICT, e- learning and intercultural development in IRNet partner-countries; Technological and informational methods of distance and e-learning in IRNet partner-countries.

   The conference was attended by more than 30 participants from Ukraine, Slovakia, Czech Republic, Poland, Portugal, Spain, others countries

2. PUBLICATIONS

DIVAI2014 Conference Proceedings, Editors: Milan Turčáni, Martin Drlík, Jozef Kapusta, Peter Švec, Constantine the Philosopher University in Nitra, Faculty of Natural Sciences, Department of Informatics, Editors Nitra, ISBN 978-80-8094-691-3.

- Kommers P., Smyrnova-Trybulska E., Morze N., Noskova T., Pavlova T., Yakovleva O., 2014**. *First Outcomes of WP2 Research Carried Out Within the Framework of the IRNet Project – International Research Network* In: *DIVAI 2014 – Distance Learning in Applied Informatics. Conference Proceedings, 5-7 May 2014*. Editors: Milan Turčáni, Martin Drlík, Jozef Kapusta, Peter Švec, Constantine the Philosopher University in Nitra, Faculty of Natural Sciences, Department of Informatics, Editors Nitra, PP. 357-372, ISBN 978-80-8094-691-3.

- *Iryna V. Sekret, Piet A. M. Kommers* **Conceptual issuses of the digital competence development in the framework of the Council of the European Union** In: *DIVAI 2014 – Distance Learning in Applied Informatics. Conference Proceedings, 5-7 May 2014*. Editors: Milan Turčáni, Martin Drlík, Jozef Kapusta, Peter Švec, Constantine the Philosopher University in Nitra, Faculty of Natural Sciences, Department of Informatics, Editors Nitra, PP. 183-194, ISBN 978-80-8094-691-3.

- *Valeriy Zavgorodniy, Katerina Yalovaya, Ksenia Yashina, Oleksandr Sadovoy, Marina Romanuha* **Uniform Information and Educational Space for Distance Learning of Ukrainian IT Students** in: *DIVAI 2014 – Distance Learning in Applied Informatics. Conference Proceedings, 5-7 May 2014*. Editors: Milan Turčáni, Martin Drlík, Jozef Kapusta, Peter Švec, Constantine the Philosopher University in Nitra, Faculty of Natural Sciences, Department of Informatics, Editors Nitra, PP.549-560, ISBN 978-80-8094-691-3.

- *Martin Drlik, Peter Svec, Jan Skalka* **Comparison of Approaches to the Data Analysis in the Virtual Learning Environments** In: *DIVAI 2014 – Distance Learning in Applied Informatics. Conference Proceedings, 5-7 May 2014*. Editors: Milan Turčáni, Martin Drlík, Jozef Kapusta, Peter Švec, Constantine the Philosopher University in Nitra, Faculty of Natural Sciences, Department of Informatics, Editors Nitra, PP.561-572, ISBN 978-80-8094-691-3.

- *Martin Cápay* **Online Learning Systems in Various Forms of Studies** In: *DIVAI 2014 – Distance Learning in Applied Informatics. Conference Proceedings, 5-7 May 2014*. Editors: Milan Turčáni, Martin Drlík, Jozef Kapusta, Peter Švec, Constantine the Philosopher University in Nitra, Faculty of Natural Sciences, Department of Informatics, Editors Nitra, PP. 285-294, ISBN 978-80-8094-691-3.

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- Piet Kommers, Eugenia Smyrnova-Trybulska, Nataliia Morze, Tomayess Issa ***Conceptual aspects: analyses law, ethical, human, technical, social factors of Development ICT, e-learning and intercultural development in different countries setting out the previous new theoretical model and preliminary findings',*** *Int. J. Continuing Engineering Education and Life-long Learning*, Vol. X, No. Y, pp.000-000.

- Tatiana Noskova, Olga Yakovleva, Tatiana Pavlova, Eugenia Smyrnova-Trybulska ***Students in the Information Environment: a Study of Educational and Extracurricular Activities',*** *Int. J. Continuing Engineering Education and Life-long Learning*, Vol. X, No. Y, pp.000-000.

- Noskova T., Pavlova T., Yakovleva O., Morze N., ***Quality features of university information environment in its external indicators***, *Int. J. Continuing Engineering Education and Life-long Learning*, Vol. X, No. Y, pp.000-000.

- Yalova K., Zavgorodnii V., Romanyukha M., Sorokina L. ***Challenges and prospects in development of e-learning system for IT-students,*** *Int. J. Continuing Engineering Education and Life-long Learning* Vol. X, No. Y, pp.000-000.

- Ewa Ogrodzka-Mazur, Anna Gajdzica, ***New professionalism of the teacher and education towards interculturalism***, *Int. J. Continuing Engineering Education and Life-long Learning*, Vol. X, No. Y, pp.000-000.