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**Title:** Report on the Implementation of Work Package 7 “Dissemination of the Project Results” in the Framework of the IRNet Project

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## **Report on the Implementation of Work Package 7 “Dissemination of the Project Results” in the Framework of the IRNet Project**

### **Abstract**

This article, prepared by an international team of researchers from different scientific areas connected with ICT, e-learning, pedagogy, and other related disciplines, focuses on the objectives and some results of the international project IRNet ([www.irnet.us.edu.pl](http://www.irnet.us.edu.pl)). In particular, the article describes research tools, methods, and a procedure of the Work Package 7 “Dissemination of the Project Results,” that is, objectives, tasks, deliverables, publications, and implementation of research trips in the context of the next stages and Work Packages of IRNet project – International Research Network.

**Key words:** International Research Network IRNet, research results, dissemination, ICT, e-learning, intercultural competences

## Introduction

According to the Objectives, drawing on detailed empirical work being carried out by the project participants, Work Package 7 focused on:

- exploring the implications of this project;
- exploring how university staff and students attempt to implement project results; and
- assessing (as the final WP) the overall scientific results of the project and the practical plans for long term collaboration in the future.

The implementation of WP7 was carried out through several tasks, e.g.:

- detailing the nature of national and international concepts outlined above on the important purposes of the higher education sector and the relationship between the institution/sector and wider policy in Poland, the Netherlands, Spain, Slovakia, the Czech Republic, Portugal, Australia, Ukraine, and Russia;
- mapping the similarities and differences in the changing educational and social missions of universities in the area of developing of ICT, e-learning, intercultural competences in Poland, the Netherlands, Spain, the Czech Republic, Slovakia, Portugal with those of Australia, Ukraine, and Russia; and
- sharing knowledge on the social, legal, cultural, technological, and economic conditions giving rise to this.

The conclusions of the comparative research, and teaching approaches that help or hinder full-time, part-time, and postgraduate students' success in their studies, including different categories of knowledge development, are used in order to achieve successful learning outcomes.

ICT, e-learning, and intercultural competences play a central role in the education of citizens and training specialists in the knowledge society, and in the education of an international community through aid-based programmes.

Six documents were elaborated: 1) a comparison of National and European Law on Informatisation (NaELoI); on Education (NaELoE); on Higher Education (NaELoHE); on Informatization, on Development of Digital Society, Strategy of Economic Development (NaELoIoDoDSSSED); and on Development on Societal Policy and Lifelong Learning (NaELoDoSPLLL); 2) a comparison of competitiveness as a key factor for sustainable development of a country; Webometrics indicator ranking; Ranking of University's Repository (<http://repositories.webometrics.info/>); 3) relevance of the exchange between the partner countries for ERA within the framework of the IRNet project (2014–2017); 4) MA programme (in particular, E-learning in Cultural Diversity) and/or postgraduate studies, training courses etc., started in 2014–2017, including the WP2, WP3, WP5 survey results, other surveys and interviews; 5) internationalisation of every partner's university; 6) table: CWUR 2016 – World University Rankings and the comparison of IRNet universities (of the data in 2013 and in 2016 or 2017 in every partner's university).

Work continued on developing and improving the MOOC course “ICT tools in e-learning.” Focus groups (approximately 10 students) from every partner’s country participated in this course and produced the results which were comprehensively and deeply analysed.

Within the framework of WP7 implementation, more than 60 articles and 5 books were published, 5 conferences were held, and more than 20 seminars and workshops were organised.

The Project’s key achievements in terms of facts and figures are:

- 121.67 months of research staff exchange were carried out over the 2 years of the project,
- 29 researchers were involved in the exchange programme,
- more than 120 papers were published by members of the network, and
- 12 conferences and more than 50 seminars and workshops were organised.

A new scientific journal, *International Journal on Research in E-learning* (<http://weinoe.us.edu.pl/nauka/serie-wydawnicze/international-journal-research-e-learning>), was successfully developed. 3 volumes and 6 issues have been published so far; the publication of the next issues is in progress.

The mobility of researchers has created new links and contacts between different countries, considerably strengthened their collaboration, and significantly enhanced the dissemination of knowledge within the participating institutions and worldwide. In the further part of the project, the following partnership contribution to the collaboration is expected: a dataset for analysing the development of ICT, e-learning, and intercultural competences in EU countries; a literature and ICT tools review and analysis of their place in European educational systems and in project partner countries; the detailed methodology of developing ICT and intercultural competences for evaluation of the network research effects in educational institutions of EU countries; deepening the classification of different welfare state regimes, assessing their effectiveness to represent different educational institutions; a detailed identity of a teacher in each project country as an expression of a certain welfare and educational regime; nationwide studies to assess the network research effects in each country; cross-national studies on these effects; educational suggestions concerning the issues studied in the project. Project website: [www.irnet.us.edu.pl](http://www.irnet.us.edu.pl).

**The successful completion of the second stage (2016–2017) of the IRNet project and of the project in general provided several major outputs:**

- highest quality competence in research in advanced pedagogical science in the area of e-learning, ICT, and intercultural competences with a significant influence on the development of the HEIs staff, and of open information and educational environments from different regions / countries;
- reinforcement of ERA as an internationally-renowned partner of AU and an initiator of cooperation projects in the next Erasmus+, Cost, IVF, H2020 with an international cooperation dimension focused on the participation of

companies and development of the close cooperation with outstanding EU and AU partners; and

- synergy of the research offer with the requirements of an innovative education approach and strengthening the cooperation between EU and non-EU HEIs in the framework of an open educational environment and development of SMART universities.

## **WP7: Dissemination of the Project Results (Months 41–48)**

### **Objectives**

The main objective is dissemination of the WP1–WP6 results and research results on ICT, e-learning, and intercultural competences for developing contemporary specialists. They have a central role in education of citizens and training specialists in the knowledge-based society, and in education of an international community through aid-based programmes.

### **Description of Work**

ICT, e-learning, and intercultural competences have a central role in education of citizens and training specialists in the knowledge-based society, and in education of an international community through aid-based programmes. The tasks of this package are:

**Task 7.1.** Detailing the nature of national and international concepts outlined above for important purposes of the higher education sector and the relationship between the institution / sector and wider policy in Poland, the Netherlands, Spain, Slovakia, the Czech Republic, Portugal, Australia, Ukraine, and Russia.

Documents to compare (June 2017):

- National and European Law on Informatisation (NaELoI);
- National and European Law on Education (NaELoE);
- National and European Law on Higher Education (NaELoHE);
- National and European Law on Informatisation, on Development of Digital Society, Strategy of Economic Development (NaELoIoDoDSSSED);
- National and European Law on Development on Societal Policy and Lifelong Learning (NaELoDoSPLLL).

**Task 7.2.** Mapping the similarities and differences in the changing educational and social missions of universities in the area of ICT, e-learning, intercultural competences (and internationalisation of higher education) in Poland, the Netherlands, Spain, Czech Republic, Slovakia, and Portugal in comparison with those of Australia, Ukraine, Russia and comparing the research results from 2014 and 2017.

The following research results were employed:

- a survey;
- an analysis of the documents (national, international);
- finalisation of the Thesaurus (Vocabulary) on specific terms: ICT, e-learning, DL, intercultural competences; and
- preparing the start of the MA study and / or postgraduate study, training courses, etc.

**Task 7.3.** Conclusions on the comparative research and teaching approaches that enhance or hinder full-time, part-time, and postgraduate students' success in their studies, including the way in which different categories of knowledge (methods, forms, technologies, tools) are used to achieve successful learning outcomes.

Implementation of the task was achieved in the following steps:

- a survey of the full-time, part-time, and postgraduate students of different partner institutions concerning their satisfaction of the study (HSPU): [https://docs.google.com/forms/d/e/1FAIpQLSf6mBb4vXOk4uRrxk4aG0KmC6MVe kb3Qk6x64VvJK1nCB7lOA/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSf6mBb4vXOk4uRrxk4aG0KmC6MVe kb3Qk6x64VvJK1nCB7lOA/viewform?usp=sf_link);
- the start of the MA studies (E-learning in Cultural Diversity, as described below) and / or postgraduate studies, training courses etc., with the possible consideration of the survey results. The mentioned MA programme and / or postgraduate studies, training courses etc. started in 2014–2017 with the possible consideration of the survey results of WP2, WP3, WP5, other surveys and interviews.

**Task 7.4.1.** *Innovation in Higher Education* conference and seminar, held on 16 June 2017 at DSTU.

**Task 7.4.2.** Workshop: “Formation of three levels of ICT competence of teachers, administrators, scientists by creating open educational e-environment and personal learning environment for student” (BGKU, Ukraine, 8 September 2017). Additionally, organisation of the 3<sup>rd</sup> International Scientific Conference *Open Educational E-environment of Modern University* (BGKU, Ukraine, 8 September 2017).

**Task 7.5.** *ICTE-2017* (OU, Czech Republic), held on 5–7 September 2017.

**Task 7.6.** Conference *Theoretical and Practical Aspects of Distance Learning – 2017 (Effective Developing Teachers' Skills in the Area of ICT and E-learning)* and workshop, held on 15–17 October 2017 in US, Poland.

**Task 7.7.** Final thoughts, conclusion, e-round table debate, and videoconference for all participants, held on 27 November 2017 and on 29 January 2018.

## Deliverables

**D 7.1.** *Innovation in Higher Education – 2017* Conference Proceedings (DSTU, UA, June–July 2017) was printed (Resp. prof. Maryna Romanyukha). Sadovoj, O. (Ed.). (2017). *Innovation in Higher Education / Інновації у вищій освіті*. Collection of Scholarly Papers of Dniprovsk State Technical University. Kam'ians'kie: DSTU, 2017.

**D 7.2.** A collection of theses: *Formation of three levels of ICT competence of teachers, administrators, scientists by creating open educational e-environment and personal learning environment for student* (BGKU, UA, September 2017) was printed (Resp. prof. Nataliia Morze) and is available on the website: <http://openedu.kubg.edu.ua/journal/index.php/openedu/issue/view/3/showToc>.

Morze, N., Makhachashvili, R., & Buinytska, O. (2017). *Open educational e-environment of modern university: Collected scientific works. Vol. 3*, ed. N. Morze. Kyiv: Borys Grinchenko Kyiv University [Відкрите освітнє е-середовище сучасного університету: Зб. наук. праць № 3 / ред. Морзе Н.В., Буйницька О.П. та ін.; за заг. ред. Морзе Н.В. Київ: Київ, Університет ім. Б. Грінченка, 2017]. Retrieved from <http://openedu.kubg.edu.ua/journal/index.php/openedu/issue/view/3/showToc>. The collection of papers was prepared in two language versions – Ukrainian and English. Indexed in ERIH PLUS, Google Scholar, Universal Impact Factor, Polska Bibliografia Naukowa, Research Bible, Eurasian Scientific Journal Index, Українські наукові журнали, Journal Impact Factor, Bielefeld Academic Search Engine, Socioindex.

**D 7.3.** *ICTE-2017 Conference Proceedings* (September 2017) (Resp. prof. Kateřina Kostolányová) are available in full electronic version. Kostolányová, K. (Ed.). (2017). Proceedings from *Information and Communication Technology in Education (ICTE-2017)*, 4–6 September 2017, Pedagogical Faculty, University of Ostrava, Ostrava.

**D 7.4.** Monograph *Effective development of teachers' skills in the area of ICT and e-learning* (US, Poland, December 2017) was printed (Resp. prof. Eugenia Smyrnova-Trybulska). Smyrnova-Trybulska, E. (Ed.). (2017). *Effective development of teachers' skills in the area of ICT and e-learning. Scientific monograph. E-learning Publishing Series, Vol. 9*. Katowice–Cieszyn: Studio Noa for University of Silesia.

The working paper on the effects of implementation of the project results: Smyrnova-Trybulska, E., Morze, N., Yakovleva, O., Issa, T., & Issa, Th. (2017). Some methodological aspects of MOOCs developing. In E. Smyrnova-Trybulska (Ed.), *Effective development of teachers' skills...* (pp. 139–158).

**D 7.5.** Monograph (updated title) *Universities in the networked society. Cultural diversity in learning communities*. Smyrnova-Trybulska, E., Kommers, P., & Malach, J. (Eds). (2018). *Universities in the networked society. Cultural diversity in learning communities*. International scientific monograph. Springer. In print. Scheduled delivery date: December 2018. Substantiation of delay in printing – the prestigious publishing house and a long reviewing procedure.

**D 7.6.** A jointly-written article for a leading journal or a chapter for a forthcoming volume resulting from the project to provide evidence-informed advice for university leadership and professional programmes (IJREL, US, Poland, or Springer monograph, 2018). The chapter is included in the monograph *Universities in the networked society. Cultural diversity in learning communities*.

1. Smyrnova-Trubulska, E. & Morze, N. (2018). Innovative MA programme “E-learning in Cultural Diversity.” In E. Smyrnova-Trybulska, P. Kommers, & J. Malach (Eds.), *Universities in the networked society...* [in print]
2. Kostolányová, K., Malach, J., Nagyová, I., Prextoová, T., & Chmura, M. (2018). Role of universities in process of digitalization of instruction and learning diversity. In: In E. Smyrnova-Trybulska, P. Kommers, & J. Malach (Eds.), *Universities in the networked society...* [in print]

**D 7.7.** A jointly-written article for a leading journal or a chapter for a forthcoming volume on teaching approaches that enhance / hinder students’ success in postgraduate studies, and on developing a tool kit on quality teaching in higher education with the focus on promoting participation, retention, and success by target equity groups. The article was prepared and printed: Morze, N., Kuzminska, O., & Liakh, T. (2017). Development of educational, scientific collaboration and project management with IC tools in universities. In E. Smyrnova-Trybulska (Ed.), *Effective development of teachers’ skills...* (pp. 347–364).

**D 7.8.** Report reviewing the scientific results of the Work Packages 6 and 7, practical arrangements and actions for joint projects, and further long-term collaboration were prepared.

**In the framework of the DLCC2017 conference in Cieszyn, US, Poland, on 17 October 2017 an e-round table debate was conducted** with participation of IRNet researchers and external experts. Moderators of the debate were Eugenia Smyrnova-Trybulska and Magdalena Roszak. In the framework of this conference and debate, results of the IRNet project were discussed and presented:

1. teachers’ and learners’ digital skills in different countries – formal regulation and informal approach; teachers’ skills and ICT competencies in e-learning; recommendations;
2. the quality of e-learning and ICT competences of teachers – ways of increasing their effectiveness;
3. innovative specialisations and MA programmes at partner universities in 2014–2017;
4. internalisation of higher education; presence and future internalisation at partner universities; and
5. from traditional university to open and smart university – suggestions and recommendations.

The more important of the research results are:

- elaborating the MOOCs “ICT tools for e-learning” (<http://el.us.edu.pl/irnet/>);
- developing a new international MA programme: E-learning in Cultural Diversity;
- submission of the application proposal in the framework of EMJMD, Erasmus Mundus (Reference number 599281-EPP-1-2018-1-PL-EPPKA1-JMD-MOB), with participation of IRNet partners as well as new partners – HEIs and companies;
- winning the grant No. 21720008 entitled “High school teacher competence in change” (<https://www.visegradfund.org/archive/results/visegrad-grants/>);



- starting and developing the new project **International Journal of Research in E-learning** (<http://weinoe.us.edu.pl/nauka/serie-wydawnicze/international-journal-research-e-learning>), peer-reviewed journal, ISSN 2451-2583 (Print) ISSN 2543-6155 (Online), **indexed in** ICI Journals Master List – Index Copernicus (82.36 pkt); ERIH+; the Central and Eastern European Online Library CEEOL; Academic Research Index <https://www.researchbib.com/>; Google Scholar; JIFACTOR.ORG; CEJSH; BazHum; Polska Bibliografia Naukowa <https://pbn.nauka.gov.pl>; Journal Factor; and
- International Master’s Degree programme, developed in cooperation with:
  - the University of Silesia in Katowice, Poland;
  - the University of Extremadura, Spain;
  - the Eastern Macedonia and Thrace Institute of Technology, Kavala, Greece;
  - the Kaunas University of Technology, Lithuania;
  - the ISMA University, Riga, Republic of Latvia; and
  - the Borys Grinchenko Kyiv University, Ukraine.
 Associated partners include:
  - Instituto Politécnico de Santarém / The Higher School of Education, Portugal;
  - University of Aveiro, Portugal;
  - International School for Social and Business Studies, Slovenia;
  - the Curtin University, Australia;
  - the Georgian Technical University, Georgia;
  - the Palestine Technical University, Palestine;
  - Helix5, the Netherlands;
  - IADIS, Portugal; and
  - StartinForum Uluslararası Danışmanlık Ticaret LTD Şirketi, Turkey.

## Secondments

### **Secondment of the University of Extremadura (UEx), the University of Ostrava (OU) to the Herzen State Pedagogical University of Russia (HSPU) (April–May 2017)**

This secondment is described in the previous issue of the *International Journal of Research in E-learning*: see *International Journal of Research in E-learning*, 3(2), 2017, 109–110.

### **Secondment of the Borys Grinchenko Kyiv University (BGKU), HSPU, the Dnieprodzerzhinsk State Technical University (DSTU) to OU (May, June–July 2017)**

This secondment is described in the previous issue of the *International Journal of Research in E-learning*: see *International Journal of Research in E-learning*, 3(2), 2017, 110–111.

### **Secondment of the University of Silesia in Katowice (US), OU to the BGKU (June–July 2017)**

The transfer of knowledge activities during this secondment was focused on the dissemination of the research results, in particular MOOCs “ICT tools for

e-learning,” the new MA programme: E-learning in Cultural Diversity, the new issue of *International Journal of Research in E-learning*, and other research results in the Ukrainian academic scientific environment. The following workshops were conducted:

1. 19 June 2017 – IRNet seminar at the South Ukrainian National Pedagogical University named after K. D. Ushynsky in Odessa. Meeting with first Vice-Rector prof. Olga Antonivna Kopus, Vice-Rector for Educational Work prof. Fedir Ivanovych Kazanzhy, and Chief of the International Department Svetlana Skorokhod. IRNet research results were presented there. Participants: prof. Eugenia Smyrnova-Trybulska, prof. Ewa Ogrodzka-Mazur, prof. Anna Szafrńska-Gajdzica, prof. Barbara Grabowska, dr Łukasz Kwadrans (US, Poland); dr Milan Chmura (OU, Czech Republic), prof. Nataliia Morze, dr Tetiana Liakh (BGKU, Ukraine).
2. 20 June 2017 – meeting with the Head of Primary Mathematics Education department of South Ukrainian National Pedagogical University named after K. D. Ushynsky in Odessa, prof. Svetlana Skvortsova, seminar with staff members of Primary Mathematics Education Department on ICT in primary mathematics education, and discussion about strengthening the cooperation in the framework of joint research and projects.
3. 21 June 2017 – Master thesis presentation at the Institute of Pedagogy, BGKU. Coordinator: prof. Nataliia Morze; participants: prof. Eugenia Smyrnova-Trybulska, prof. Ewa Ogrodzka-Mazur, prof. Anna Szafrńska-Gajdzica, prof. Barbara Grabowska, dr Łukasz Kwadrans, dr Milan Chmura. At the Institute of Pedagogy there was also PhD thesis presentation supervised by prof. Nataliia Morze.
4. 22 June 2017 – Master thesis presentation on ICT in foreign languages in intercultural communication, Institute of Philology. The coordinator and organiser of the presentation was prof. Rusudan Makhachashvili. Participants: prof. Smyrnova-Trybulska, prof. Ogrodzka-Mazur, prof. Szafrńska-Gajdzica, prof. Grabowska, dr Kwadrans, dr Chmura.
5. 22 June 2017 – IRNET project seminar on WP7 objectives, tasks, deliverables, methodology, and road map, conducted by prof. Eugenia Smyrnova-Trybulska. Participants: prof. Smyrnova-Trybulska, prof. Ogrodzka-Mazur, prof. Szafrńska-Gajdzica, prof. Grabowska, dr Kwadrans, dr Chmura.
6. 23 June 2017 – a visit to Chernihiv National Pedagogical University. Meeting with Dean of the Faculty of Information Technology doc. Eugenij Vinnichenko, Head of the Department prof. Yuriy Goroshko, authors of Gran Programme for support of mathematics teaching. Project seminar concerned ICT in teaching mathematics, and was conducted by prof. Goroshko and doc. Vinnichenko.
7. 26 June 2017 – IRNet project monthly videoconference: Project Meeting and Seminar on WP7 (in presence and online) conducted by prof. Eugenia Smyrnova-Trybulska. Participants: prof. Smyrnova-Trybulska, prof. Ogrodzka-Mazur, prof. Szafrńska-Gajdzica, prof. Grabowska, dr Kwadrans, dr Chmura.

8. 27 June 2017 – project seminar: “ICT tools for collaboration and project management.” Online pilot course test-run presentation was conducted by dr Tetiana Liakh, prof. Rusudan Makhachashvili, and dr Iryna Vorotnikova. Prof. Smyrnova-Trybulska, prof. Ogrodzka-Mazur, prof. Szafrńska-Gajdzica, prof. Grabowska, dr Kwadrans, and dr Chmura participated in the event.
9. 28 June 2017 – project seminar on the new European MA programme degree with participation of researchers from different countries and universities: University of Silesia in Katowice (Poland), University of Extremadura (Spain), Borys Grinchenko Kyiv University (Ukraine), Carinthia University of Applied Sciences (Austria), Palestine Technical University, Palestine, Tbilisi Technical University (Georgia), Curtin University (Australia), University in Almeria (Portugal), and Kaunas Technical University (Lithuania).
10. 29 June 2017 – seminar: “Applied and digital humanities education vision in inter-cultural environment,” conducted by prof. Rusudan Makhachashvili, dr Yuliya Shtaltovna. Participants: prof. Smyrnova-Trybulska, prof. Ogrodzka-Mazur, prof. Szafrńska-Gajdzica, prof. Grabowska, dr Kwadrans, dr Chmura.

### **Secondment of UEx to Curtin University (CU) (June–July 2017)**

The transfer of knowledge activities during this secondment was focused on the dissemination of the project outcomes. The following workshops and other events took place:

1. 6 June 2017 – meeting for Erasmus Mundus MA programme discussion through Adobe Connect. The goals of this activity were to clear up some important points about participation, and dates involved the presentation of the Erasmus Mundus Masters Design in the European Union institution.
2. 6 June 2017 – meeting for planning Perth visit regarding all the works involved in WP7. The goals of this action were to discuss the State of the MOOC development and other ongoing tasks within the topics of research projects, and to know the development and studies that have to be developed for the Erasmus Mundus Master Programme. The agenda was reviewed with Tomayess Issa.
3. 7 June 2017 – meeting for preparing seminars that would be performed after Curtin University exam period. The goal was to design the presentations of current research projects for PhD students of the Curtin School of Information Systems. The presentations were matched to the time and objectives established in the agenda.
4. 9 June 2017 – research and personal work. The goals of this action were to work on presentations for students and to discuss best proposals for getting the objectives.
5. 12 June 2017 – Adobe Connect meeting of the Spanish team. The goals of this action were to take decisions about the commitment of the University of Extremadura with the Erasmus Mundus Master Programme. There were some confusing points that had to be cleared up by the project coordinator prof. Smyrnova-Trybulska.

6. 13 June 2017 – the Spanish team meeting for discussing future IRNet research trips. The goal of this discussion was to plan future research trips of the Spanish team, in accordance with the last events related to some of our members. Some trips had to be rescheduled very quickly. The new plan included some important points about visa, flights, invitation letters, etc.
7. 14 June 2017 – meeting for re-scheduling events at Curtin University. The Spanish team members met with Tomayess Issa for important changes in the agenda. The goals were to get to know the innovations of Central Perth as an industry and research collaboration centre at Curtin University, established by Cisco in collaboration with foundation partners, such as Curtin University and Woodside Energy.
8. 28 June 2017 – meeting in Counselling Services. The goal was to know the model that the Counselling Services team offers to Curtin staff and students, in order to make a safe professional environment to deal with any issues affecting work or study.
9. 28 June 2017 – meeting with PhD and MA students. The goals were to present: “University of Extremadura. Research projects,” “Collaborative learning: theoretical and practical framework,” and “Measurement of Digital Storytelling outcomes in classrooms.”

#### **Secondment of BGKU to UEx (June–July 2017)**

The transfer of knowledge activities during this secondment was focused on the dissemination of project results. In the framework of WP7 the following tasks were conducted:

1. 29 June 2017 – IRNet project meeting and seminar at the University of Extremadura, Department of Pedagogy, moderated by prof. Prudencia Gutiérrez Esteban. The meeting centred on the visit to Badajoz schedule, the objectives and nearest deadlines of the WP7 delivery, discussion of a joint article, and conducting a questionnaire with the researchers from the University of Extremadura.
2. 6 July 2017 – IRNet project meeting and seminar at the University of Extremadura, Department of Pedagogy, moderated by prof. Sixto Cubo Delgado. The BGKU team took part in the discussion of the PhD research methodology and methodical premise within the e-learning context.

#### **Secondment of BGKU to Lusiada University (LU) (July 2017)**

1. 7 July 2017 – IRNet project meeting at Lusiada University campus, conducted by prof. Paulo Pinto and prof. António Reis; a visit to the ICT research and study centre for students; a visit to the in-service ICT conferencing and lecturing facilities. An account of conference recording and broadcasting ICT tools was made.
2. 10 July 2017 – IRNet project meeting at Lusiada University, moderated by prof. Pinto. The meeting centred on: the visit to Lisbon schedule; the objectives and nearest deadlines of WP7 delivery; discussion of a joint article; conducting

a questionnaire with the researchers from Lusiada University; and detailing the nature of national and international concepts outlined above for important purposes of the higher education sector and the relationship between the institution / sector and wider policy in Poland, the Netherlands, Spain, Slovakia, the Czech Republic, Portugal, Australia, Ukraine, and Russia.

### **Secondment of US, Constantine the Philosopher University (UKF), LU, UEx to BGKU (August–September 2017)**

The transfer of knowledge activities during this secondment was focused on the dissemination of research results, in particular MOOCs “ICT tools for e-learning,” the new MA programme: E-learning in Cultural Diversity, the new issue of *International Journal of Research in E-learning*, among the Ukrainian academic scientific environment.

1. 29 August 2017 – IRNet seminar with the participation of the researchers from US, Poland, LU, Portugal, UEx, Spain, BGKU, Ukraine, at BGKU.
2. 1 September 2017 – Master students seminar “IT in communication redefinition framework” with the participation of the IRNet researchers from the abovementioned educational institutions, held at BGKU.
3. 1 September 2017 – project seminar with the participation of the IRNet researchers from the abovementioned educational institutions, held at BGKU.
4. 2 September 2017 – Conference *Braine&Ukraine*, with the participation of the IRNet researcher and coordinator prof. Smyrnova-Trybulska, held in Kiev.
5. 4 September 2017 – videoconference, project meeting, and seminar on WP7, with the participation of IRNet researchers, conducted by prof. Smyrnova-Trybulska.
6. 5 September 2017 – individual research programme; preparing the article: “Information technologies in the operation of primary schools” for the 9<sup>th</sup> volume of the *E-learning* series: *Effective development of teachers’ skills in the area of ICT and e-learning*.
7. 6 September 2017 – round table debate with the participation of IRNet researchers, BGKU.
8. 6 September 2017 – project seminar and workshop with the participation of IRNet researchers, BGKU.
9. 6 September 2017 – visit in the Bilingual School (Spanish–English) with the participation of IRNet researchers, BGKU.
10. 6 September 2017 – visit to the SMART Lab and project seminar with the participation of IRNet researchers, BGKU.
11. 7 September 2017 – visit in the Unit Factory with the participation of IRNet researchers, BGKU.
12. 8 September 2017 – *Open E-environment of the Modern University* Conference, with the participation of IRNet researchers from BGKU, US, PL, UKF, SK, LU, PT, UEx, ES, BGKU, and UA. In the framework of the conference were held a lot different activities, including:

- a) a round table debate: “Discussion panel. Open education – myth or reality? Trends in modern education”;
- b) Panel 1. “E-university: Technologies and development tools”;
- c) during the conference, there were a number of IRNet researchers’ presentations:
- “Creating modern cloud-oriented personalized education environment taking into consideration educational process participants’ ICT competencies,” Nataliia Morze, Svitlana Spivak;
  - “LMS MOODLE tools inventory implementation to assure quality in-service teacher training,” Iryna Vorotnykova;
  - “Lifelong learning – A local case of success using web text-based discussion forums,” Isabel Alvarez, Paulo Pinto, Nuno Sotero da Silva;
  - “Networking is one of the effectiveness form of the international research. Some aspects,” Eugenia Smyrnova-Trybulska;
  - “The ICT potential for teaching sociological courses,” Oksana Shelomovska, Liudmyla Sorokina, Maryna Romaniukha, Kostiantyn Bohomaz;
  - “Digital storytelling and technologies,” António dos Reis;
  - “Formation students’ ICT competence: Case study,” Nataliia Morze, Olha Barna, Olena Kuzminska, Viktoriia Vember;
  - “Educational e-environment of modern university: Foreign experts’ perspective,” Nataliia Morze, Ewa Ogrodzka-Mazur, Paulo Pinto, Olena Glazunova, Josef Malach, Valeria Zabolotna, Nadiia Balyk;
  - “Students standing before the distance learning in institution of higher education,” Tetiana Liakh, Tetiana Spirina, Alona Popova;
  - “A way to measure complex concepts relationships when using digital storytelling,” Rafael Martin Espada, Juan Arias Masa, Sixto Cubo Delgado, Gemma Delicado Puerto, Prudencia Gutierrez Esteban, Laura Alonso-Díaz, Rocio Yuste Tosina; and
  - “Introduction to learning analytics adoption in higher education institutions,” Martin Drlík, Peter Švec, Martin Cápaj, Júlia Tomanová;
- d) Additionally, IRNet researchers took part in several workshops:
- “Robot programming mBot,” conducted by Sergey Dziuba;
  - “Potentialities in using LMS MOODLE to build up students’ competencies,” moderator: Liliia Varchenko-Trotsenko;
  - “Increase the digital capabilities of the teacher with the services, Google resources. Effective mobility,” moderator: Nataliia Sarazhynska;
  - “Gamification at primary school,” moderator: Artur Kocharyan;
  - “New Masters’ program: E-Learning Management,” moderators: Nataliia Morze, Olena Kuzminska.

### **Secondment of UEx, LU, OU to HSPU (August–September–October 2017)**

The transfer of knowledge activities during this secondment was focused on the dissemination of IRNet project results (WP7). The main activities were:

1. 23 August 2017 – meeting with the participation of Rafael Martín and Juan Arias for progressing on Digital Storytelling MOOCs.
2. 25 August 2017 – meeting and discussion on preparing articles for ICTE-2017 Conference proceedings (D 7.3) and for the monograph *Effective development of teachers' skills in the area of ICT and e-learning* (D 7.4.)
3. 28 August 2017 – meeting and discussion on preparing a paper for *Comunicar* journal about Digital Storytelling and means of measuring the learning improvement as part of the dissemination of results of the IRNet project; analysing test results.
4. 22 September 2017 – workshop and seminar on the IRNet research for students and future teachers of ICT and informatics, within the course named “ICT in natural science education.” In this seminar, they conducted a test aiming to determine the similarity between the concepts related to ICT and education. Some tools for qualitative analysis such as MEBA and webQDA were shown. Workshop and seminar were conducted by prof. Juan Arias and prof. Rafael Espada.
5. 25 September 2017 – workshop and seminar for Herzen University teachers on analysing test results, conducted by prof. Arias and prof. Espada. Objectives: reviewing the main aspects of the University of Extremadura research and planning possible collaboration projects for testing learning improvement in pilot teaching.
6. 26 September 2017 – seminar in Saint Petersburg State University about measuring learning improvement when using Digital Storytelling, conducted by Elena Gaevsкая. The aim of the project was to analyse the students' learning improvement of Information and Educational Centre “The Russian Museum: the Virtual Branch.” Workshop and seminar were conducted for Spanish students through Adobe Connect in order for them to do the same test as Russian students and compare the results on the perception of ICT and education.
7. 28 September 2017 – seminar for showing provisional results to the Russian team, further discussions and planning the next test, and reviewing the conditions for using software tools in new projects, with the participation of the IRNet researchers from UEx and HSPU.

### **Secondment of BGKU, HSPU, DSTU to US (September–October–November 2017)**

The transfer of knowledge activities during this secondment was focused on the dissemination of project results in the framework of WP7. The main activities were:

1. 24 September 2017 – meeting with the Minister of National Education in Poland, Anna Zalewska, and discussion of joint research in elementary and secondary school.
2. 25 September 2017 – meeting with the Mayor of Świebodzice, Bogdan Kożuchowicz, and discussion of joint projects on vocational education.

3. 4 October 2017 – scientific seminar, organised by the Department of Humanistic Education and Auxiliary Sciences of Pedagogy. Lectures: Dr Anna Porczyńska-Ciszewska, “Personal conditions of mental well-being – methodology of tests from the perspective of positive psychology”; mgr Ryszard Kalamarz, “E-learning in the acquisition of the ability to communicate in foreign languages as a key competence within the framework of academic foreign language teaching (on the example of tertiary-level English language classes).”
4. 8 October 2017 – seminar “Features of integration training in junior high schools: Experience of Poland and Ukraine.” Moderators: prof. Anna Szafrąńska-Gajdzica, prof. Barbara Grabowska.
5. 11 October 2017 – guest lecture and IRNet project seminar by prof. Piet Kommers, “Cognitive support through social media for multi-culture in international student exchange.” The issues taken into consideration were: the structure of cognitive competence, cognitive competence in intercultural environment, conceptual competence development through social media, redefinition and reconceptualisation in digital age.
6. 11 October 2017 – IRNet project meeting at the University of Silesia, Faculty of Ethnology and Sciences of Education. Moderator: prof. Eugenia Smyrnova-Trybulska; participants: prof. Natalia Morze, prof. Rusudan Makhachashvili, prof. Tetiana Liakh (BGKU), prof. Tatiana Noskova, dr Tatiana Pavlova (HSPU), prof. Marina Romanyukha, and prof. Lyudmila Sorokina (DSTU). The meeting centered on the schedule of the visit to the University of Silesia, and on setting up the objectives and nearest deadlines of WP7 delivery. Other activities included: a meeting with the Head and employers of Department of Special Pedagogy; a briefing on the structure and on the educational standards in the University of Silesia in Katowice and Poland in the wider context of IRNet project objectives; a discussion on the extensive study of feminist narratives in the wider scope of intercultural competences development.
7. 15 October 2017 – Management Board Meeting of IRNet team coordinators; *Theoretical and Practical Aspects of Distance Learning 2017* Conference opening dinner (Kamienica Konczakowskich Restaurant).
8. 16–17 October 2017 – 9<sup>th</sup> Annual International Scientific Conference *Theoretical and Practical Aspects of Distance Learning 2017 (Effective Development of Teachers’ Skills in the Area of ICT and E-learning)* (<http://www.dlcc.us.edu.pl/>) and workshop.
  - 21 IRNet presentations: “Evolution part I - From Socrates behaviourism to digital constructivism” (US, BGKU, HSPU); “Learning paradigms as input parameter for educational leadership” (UT); “Glossary of terms for ICT and e-learning: Comparison of the Polish, Spanish and Russian approach” (US, UEx, HSPU); “Evolution part II - Disruptive Innovation in the school of the future with a focus in ‘flipped classroom’” (Portugal); “Some trends of ICT tools application by teachers: A comparative study of Russian and



- Spanish experience” (UEX, HSPU); “Development of educational, scientific collaboration and project management with IC tools in universities” (BGKU); “Network communication as a means of improving the efficiency of teacher-student interaction” (DSTU); “The use of electronic educational resources in the didactic activities of academic teachers” (US); “Innovations In technical sciences as a tool of popularizing distance education” (DSTU); “How to reduce differences between requirements of modern LMS and their real use” (UKF); “Education of school staff for digital teaching and learning” (OU); “ICT, e-learning, DL, intercultural competences thesaurus structure modelling recommendations” (BGKU); “Information Technologies in the operation of primary schools” (US); “E-pedagogy and e-learning” (BGKU); “Designing the syllabus of the course Internet Technologies in Translation with the reference to the translation competences and challenges of the market” (Turkey); “Lifelong learning – Cultural and ethical impacts” (LU); “Formative and peer assessment in higher education” (BGKU); “Use of bot-technologies for educational communication at the university” (BGKU); “Didactical aspects of test creation: Theoretical component” (DSTU); “Some methodological aspects of MOOCs developing” (US, BGKU, HSPU, CU); and an “E-round table debate” (US, UKF, BGKU, DSTU, UT, OU, RMIT).
9. 17 October 2017 – e-round table debate with the participation of IRNet researchers and external experts. Moderators: Eugenia Smyrnova-Trybulska and Magdalena Roszak. The issues discussed were:
    - a) teachers’ and learners’ digital skills in different countries – formal regulation and informal approach; teachers’ skills and ICT competencies in e-learning: recommendations;
    - b) the quality of e-learning and ICT competences of teachers – ways of increasing effectiveness;
    - c) innovative specialisations and MA programmes at your university in 2014–2017;
    - d) internationalisation of higher education; presence and future internationalisation at your university; and
    - e) from traditional university to open and smart university – suggestions and recommendations.
  10. 17 October 2017 – Conference workshop and debate “How to implement a flipped classroom,” conducted by prof. António dos Reis, prof. Nataliia Morze, and prof. Olga Yakovleva. Subjects of study were: how to organise your students according to learning styles; teacher’s digital skills to be used in the school of the future.
  11. 18 October 2017 – lecture “Media for communication and education,” conducted by prof. Piet Kommers. Issues addressed were: communicative spin on education in the 21<sup>st</sup> century; philosophic paradigms of communication in

- education; synergy of media and message in education; and communicative competences development through digital media.
12. 18 October 2017 – Summer Young Educators Conference (<http://www.us.edu.pl/xxx-letnia-szkola-mlodych-pedagogow>) with the participation of IRNet researchers.
  13. 23 October 2017 – IRNet project seminar on the dissemination of WP7 results. Moderator: prof. Smyrnova-Trybulska; participants: prof. Smyrnova-Trybulska, prof. Morze, prof. Makhachashvili, prof. Liakh, prof. Noskova, dr Pavlova. The partnership's expected contribution to the area of collaboration was determined to be as follows:
    - a) a dataset for the analysis of the development effect of ICT, e-learning, and intercultural competences in different EU countries;
    - b) a literature and IT tools review and an analysis of their place and level in European educational systems and in the countries of project partners; study of the arrangements of different types of temporary work contracts as implemented in each of the EU countries; and
    - c) a detailed ICT and intercultural competences development methodology for the evaluation of the network research effect in educational institutions of different EU countries.
  14. 24 October 17 – project lecture and workshop by dr Maria Stec, US, “Multimodality in foreign language acquisition”; participants: prof. Makhachashvili, prof. Liakh, prof. Noskova, dr Pavlova. The issues discussed were: multimodality and multimodality in cross-cultural communication, iconicity in e-environment, communication multimodality premises, and multimodality and paraverbal media.
  15. 25 October 17 – meeting with the students of the Faculty of Ethnology and Sciences of Education, US, Poland, and a lecture “21<sup>st</sup> century competences development and the applied educational strategy of BGKU” given by prof. Rusudan Makhachashvili.

#### **Secondment of BGKU to LU (November–December 2017)**

1. 26 November 2017 – IRNet project meeting moderated by prof. Paulo Pinto; participants: prof. Rusudan Makhachashvili, prof. Isabel Alvarez; the meeting centred on the visit to LU schedule, and on setting up the objectives and nearest deadlines of WP7 delivery.
2. 27 November 2017 – IRNet project seminar, moderated by prof. Smyrnova-Trybulska; participants: prof. Morze, prof. Makhachashvili, prof. Liakh, prof. Noskova, dr Pavlova, prof. Romanyukha, and prof. Lyudmila Sorokina. The issues and tasks tackled were:
  - a) road map implementation, objectives, task, deliverables, methodology, discussion with the participation of all team coordinators and researchers, and their reports about the work progress; filling the WP7 tables (1–7)

- with results by coordinators or responsible persons (all teams coordinators participated);
- b) MOOC “ICT tools for e-learning” – the final stage of elaboration, reports of team coordinators (deadline – 27 November 2017, start for focus groups – the end of November 2017); report of the group coordinators and the experts on MOOC’s quality (responsible representative researchers from every team); tools and criteria for assessment of modules; analysing the results of assessment of every module via survey filling;
  - c) recording the MOOC promotion video for every module by the responsible person (recommended according to the template available on Google Drive), completing the methodological recommendations;
  - d) MA programme E-learning in Cultural Diversity, Erasmus Mundus Project – preparing documentation of an international MA course on E-learning in Cultural Diversity.
3. 29 November 2017 – three guest project workshops entitled “Applied strategies in communication education” at Lusiada University. The issues discussed were: the structure of communicative competence, communicative competence in intercultural environment, communication models in digital age, and BGKU applied strategy in communicative studies implementation.
  4. 30 November 2017 – IRNet project seminar moderated by prof. António dos Reis, “Digital skills developmet. Profiling, script and production of didactic video for crucial digital skills development – ICT tools for word cloud elaboration” (<https://youtu.be/AfQ3ZX-hEdg>).
  5. 4 December 2017 – IRNet project seminar moderated by prof. António dos Reis, “Digital skills frameworks comparative analysis. Profiling, script and production of didactic video for crucial digital skills development.”
  6. 7 December 2017 – IRNet project seminar for faculty, in-service teachers, and students “Communication in digital age”; moderator – prof. Pinto.
  7. 8 December 2017 – IRNet project seminar moderated by prof. António dos Reis, “Digital skills elaboration and implementation. Profiling, script and production of didactic video for crucial digital skills development – ICT tools for text mining and corpus analysis.”

### **Secondment of US, OU, University of Twente (UT) to CU (November–December 2017)**

The transfer of knowledge activities during this secondment was focused on: research results; selected results of the project, in particular the implementation of MOOC “ICT tools for e-learning,” a new master’s programme E-learning in Cultural Diversity; and preparation of an application for obtaining an Erasmus Mundus EMJMD grant. The work also concerned the dissemination of scientific journals among the international academic community. The journals discussed were: *International Journal of Research in E-learning (IJREL)* (<http://weinoe.us.edu.pl/nauka/serie-wydawnicze/international-journal-research-e-learning>), indexed

in ERIH+, IndexCopernicus and 10 other scientific databases; *Open E-environment of the Modern University*, indexed in ERIH+ and 9 other scientific databases; and the “E-learning” series (<http://weinoe.us.edu.pl/nauka/serie-wydawnicze/seria-e-learning/seria-e-learning>).

1. 17 November 2017 – IRNet project meeting and seminar with the participation of the researchers from US, OU, UT, and CU at Curtin University, conducted by prof. Smyrnova-Trybulska.
2. 20 November 2017 – IRNet project meeting, workshops, and seminar conducted by prof. Smyrnova-Trybulska, with the participation of the researchers from the abovementioned institutions at Curtin University.
3. 23 November 2017 – IRNet e-round table debate with the participation of the researchers from the abovementioned institutions at Curtin University.
4. 23 November 2017 – IRNet workshop on MOOC in education, conducted by prof. Piet Kommers, and round table debate with the participation of the researchers from the abovementioned institutions at Curtin University.
5. 23 November 2017 – IRNet Seminar on WP7 and MOOC’s improvement and evaluation, conducted by prof. Smyrnova-Trybulska, with the participation of the researchers from the abovementioned institutions at Curtin University. The objectives were: an analysis of the focus groups and certification of the participation on MOOC, and perspectives and direction of improving the MOOC.
6. 23 November 2017 – IRNet project meeting, seminar, and workshop on preparing new project proposals for Erasmus Mundus and Erasmus+ (KA2), with the participation of the researchers from the abovementioned institutions at Curtin University.
7. 23 November 2017 – recording the IRNet promotion and didactic video with the participation of researchers at the Curtin University.
8. 27 November 2017 – workshop, meeting, and seminar on the innovative MA programme in the area of e-learning and intercultural competences conducted by prof. Demetrios Sampson and prof. Smyrnova-Trybulska, with the participation of the researchers from the abovementioned institutions at Curtin University.
9. 27 November 2017 – IRNet project meeting and e-round table debate with the participation of the researchers from the abovementioned institutions at Curtin University.
10. 27 November 2017 – recording the didactic and promotion video as well as a didactic video for MOOC “ICT tools for e-learning,” with the participation of the researchers from the abovementioned institutions at Curtin University.
11. 27 November 2017 – monthly project meeting in presence and remote mode, and videoconference conducted by prof. Smyrnova-Trybulska, with the participation of the researchers from the abovementioned institutions at Curtin University. Photo reportage available on: <http://www.irnet.us.edu.pl/gallery/monthly-project-meeting-and-videoconference>.

12. 29 November 2017 – meeting of IRNet researchers from UT, US, CU with Staff and PhD students of Curtin University, and workshop on the dissemination of WP7, conducted by prof. Smyrnova-Trybulska.
13. 29 November 2017 – IRNet seminar and workshop “The role of visual materials in teaching,” conducted by dr Maria Stec (US), with the participation of the researchers from the abovementioned institutions at Curtin University.
14. 29 November 2017 – IRNet seminar and workshop “Self-learning strategies,” conducted by dr Anna Studenska (US), with the participation of the researchers from the abovementioned institutions at Curtin University.
15. 4 December 2017 – meeting with authorities and staff of the School of Information Systems (School IS). During the meeting with the participation of IRNet researchers, the discussion focused on joint research; preparation of new application proposals for win the grants for a new project – EU and Australia; MA course degree study; Erasmus Mundus, Erasmus + (KA2); joint MOOC “ICT tools for e-learning.” Participants of the meeting analysed agreements – Teaching and Research, exchange of University staff (academic teachers, researchers) and students.
16. 11–13 December 2017 – participation in the *International Conference on Educational Technologies (ICEduTech 2017)*, Western Sydney University, Sydney, Australia, with the following presentations: “Bibliometric science mapping as a popular trend: Chosen examples of visualisation of International Research Network results” (Eugenia Smyrnova-Trybulska), “Pilot verification of ‘Tools for adaptive learning’ module by PhD students at University of Ostrava” (Malach, J., Prextová, T., Chmura, M., Kostolányová, K.).

## Conferences

1. 1–12 April 2017 – *New Educational Strategies in Modern Information Space*, the Herzen State Pedagogical University of Russia, Saint Petersburg, Russia, with the participation of approximately 75 participants from different countries.
2. 16 June 2017 – 3<sup>rd</sup> International Scientific Conference *Innovations in Higher Education*, Dniprovsk State Technical University, Dniprodzerzhinsk, Ukraine, with the participation of approximately 40 participants.
3. 4–6 September 2017 – *ICTE2017*, University of Ostrava, the Czech Republic, with 75 participants from different countries.
4. 8 September, 2017 – 3<sup>rd</sup> International Scientific Conference *Open Educational E-environment of Modern University*, Borys Grinchenko Kyiv University, Ukraine, with approximately 100 participants.
5. 15–17 October 2017 – International Scientific Conference *DLCC2017* ([www.dlcc.us.edu.pl](http://www.dlcc.us.edu.pl)) *Theoretical and Practical Aspects of Distance Learning 2017 (Effective Development of Teachers’ Skills in the Area of ICT and E-learning)*, University of Silesia in Katowice, Cieszyn and Katowice, Poland, with the participation of more than 96 participants from more than 10 countries and

from more than 20 universities. Within the framework of the conference several events particularly connected with IRNet activities were held.

### Publications

- 1) Smyrnova-Trybulska, E., Morze, N., Kommers, P., Zuziak W., & Gladun, M. (2017). Selected aspects and conditions of the use of robots in STEM education for young learners as viewed by teachers and students. *Interactive Technology and Smart Education*, 14(4), 296–312.
- 2) Smyrnova-Trybulska, E., Kuzminska, O., & Morze, N. (2017). Flipped learning: Learning based on students experience. In K. Kostolányová (Ed.), *Proceedings from Information and Communication Technology in Education 2017*, Ostrava, Czech Republic, 4–6 September 2017 (pp. 64–69). Ostrava: Ostrava University.
- 3) Smyrnova-Trybulska, E., Kuzminska, O., & Morze, N. (2017). Flipped learning model: Tools and experience of its implementation in higher education. *The New Educational Review*, 49(3), 189–200.
- 4) Smyrnova-Trybulska, E., Morze, N., & Glazunova, O. (2017). Design of a university learning environment for SMART education. In T. Issa, P. Kommers, T. Issa, P. Isaiás, & T. B. Issa (Eds.), *SMART technology applications in business environments* (pp. 221–248). IGI Global. Chapter 11 DOI: 10.4018/978-1-5225-2492-2.ch011.
- 5) Smyrnova-Trybulska, E., Kommers, P., Morze, N., Pavlova, T., & Sekret, I., (2017). Using effective and adequate IT tools for developing teachers' skills. *International Journal of Continuing Engineering Education and Lifelong Learning*, 27(3), 219–245.
- 6) Smyrnova-Trybulska, E., Drlík, M., Švec, P., Kapusta, J., Munk, M., Noskova, T., Pavlova, T., Yakovleva, O., & Morze, N. (2017). Identification of differences in university e-environment between selected EU and non-EU countries using knowledge mining methods: Project IRNet case study. *International Journal of Web Based Communities*, 13(2), 236–261. DOI: 10.1504/IJWBC.2017.10004116.
- 7) Smyrnova-Trybulska, E. & Zuziak, W. (2017). Podejście inżynierskie w nauczaniu. *Zeszyty Naukowe Wydziału Elektrotechniki i Automatyki Politechniki Gdańskiej*, 52, 125–130.
- 8) Smyrnova-Trybulska, E. & Zuziak, W. (2017). Занятия по робототехнике в основной школе – инженерный подход в обучении и развитие компетентностей учащихся. In *Proceedings from New Information and Communication Technologies in Education NOTO2017 /Novye informacionnye tehnologii v obrazovanii i nauke: NITO2/* (pp. 332–337). Yekaterinburg: Russian State Vocational and Pedagogical University.
- 9) Smyrnova-Trybulska, E. (2017). Mapping and visualization of scientific bibliometric domains and research network activities. In M. Hruby (Ed.), *Proceedings*

- from *Distance Learning, Simulation and Communication DLSC2017*, Brno, Czech Republic, 31 May – 2 June 2017 (pp. 301–308). Brno: University of Defence.
- 10) Smyrnova-Trybulska, E., Kommers, P., Morze, N., Gladun, M., & Zuziak, W. (2017). Robotics in primary school in the opinion of prospective and in-service teachers. A comparison study. *International Journal of Continuing Engineering Education and Lifelong Learning*, 27(4), 318–338.
  - 11) Smyrnova-Trybulska, E. (2016). Some aspects of activities in the e-learning environment for academic teachers – a research report. *Edukacja Ustawiczna Dorosłych / Polish Journal of Continuing Education*, 4, 15–26.
  - 12) Smyrnova-Trybulska, E., Morze, N., & Pavlova, H. (2017). Quality hybrid education evaluation: Academic staff performance assessment (Cases: Borys Grinchenko Kyiv University and the University of Silesia). *ICTEJournal*, 6(1), 25–34. DOI: 10.1515/ijicte-2017-0003.
  - 13) Smyrnova-Trybulska, E. (Ed.). (2017). *Effective development of teachers' skills in the area of ICT*. E-learning series, volume 9. Katowice–Cieszyn: Studio Noa for University of Silesia.
  - 14) Smyrnova-Trybulska, E., Stec, M., Studenska, A., Noskova, T., Pavlova, T., Yakovleva, O., & Cubo, S. (2017). Glossary of terms for ICT and e-learning: Compare the Polish, Spanish and Russian approach. In E. Smyrnova-Trybulska (Ed.), *Effective development of teachers' skills in the area of ICT*. E-learning series, volume 9 (pp. 105–118). Katowice–Cieszyn: Studio Noa for University of Silesia in Katowice.
  - 15) Smyrnova-Trybulska, E., Morze, N., Yakovleva, O., Issa, Tomayess, Issa, Theodora. (2017). Some methodological aspects of MOOCs developing. In E. Smyrnova-Trybulska (Ed.) *Effective development of teachers' skills in the area of ICT*. Series on E-learning, 9 (2017) (pp.139–158). Katowice–Cieszyn: Studio Noa for University of Silesia in Katowice.
  - 16) Smyrnova-Trybulska, E., Zegzuła, D. (2017). Information Technologies in the Operation of Primary Schools. In E. Smyrnova-Trybulska (Ed.), *Effective development of teachers' skills in the area of ICT*. E-learning series, volume 9 (pp. 331–346). Katowice–Cieszyn: Studio Noa for University of Silesia in Katowice.
  - 17) Smyrnova-Trybulska, E. (2017). Innowacyjne narzędzia w edukacji. *Gazeta uniwersytecka*, 3(253), 20. Retrieved from <http://gazeta.us.edu.pl/node/421323>.
  - 18) Sadovy, O. V. et al. (Eds.). (2017). *Innovations in higher education – 2017*, collection of scholarly papers of Dniprovsk State Technical University (Technical Sciences: section “Education”). Proceedings from international conference *Innovations in Higher Education*. Zбірник наукових праць Дніпровського державного технічного університету. Ser.: , Tehnični nauki. Materiali Mižnarodnoï naukovu-praktičnoï konferencii “Innovaciiu višij osviti. Kamianske: DSTU.

- 19) Smyrnova-Trybulska, E., Stec, M., & Sudenska, A. (2017). Glossary for multicultural terms useful for distance education. In O. Sadovy et al. (Eds.), *Innovations in higher education – 2017*, collection of scholarly papers of Dniprovsk State Technical University (Technical Sciences: section “Education”). Proceedings from international conference *Innovations in Higher Education*. Zbìrnìk naukovìh prac' Dnìprovsk'ogo deržavnogo tehničnogounìversitetu. Ser.: , Tehnični nauki. Materiali Mižnarodnoì naukovo-prak-tičnoì konferencii “Ìnnovacii u višij osviti” (pp. 7–13). Kamianske: DSTU.
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## Summary

The successful completion of the IRNet project provided several major outputs:

- highest quality competence in research in advanced pedagogical science in the area of e-learning, ICT, and intercultural competences with a significant influence on the development of the HEIs staff, and of open information and educational environments from different regions / countries;
- reinforcement of ERA as an internationally-renowned partner of AU and an initiator of cooperation projects in the next Erasmus+, Cost, IVF, H2020

with an international cooperation dimension focused on the participation of companies and development of the close cooperation with outstanding EU and AU partners; and

- synergy of the research offer with the requirements of an innovative education approach and strengthening the cooperation between EU and non-EU HEIs in the framework of an open educational environment and development of SMART universities.

One may state that the knowledge generated by the project and the partnership's important contribution to the area of the European and international research include the following:

- a) a dataset for the analysis of the ICT, e-learning, intercultural competences developing effect in different EU countries was established: the results were published in a series of scientific articles, in particular in prestigious indexed journal *IJCELL*;
- b) a literature and IT tools were reviewed, and their place and their level in European educational systems and in the countries of project partners were analysed; the arrangements of different types of temporary work contracts as implemented in each of the EU countries considered were studied;
- c) a detailed ICT and intercultural competences development methodology for the evaluation of the network research effect in educational institutions of different EU countries was designed;
- d) a deepening of the classification of different welfare state regimes, assessing their effectiveness to represent different educational institutions, was conducted; this result was achieved also by means of a cluster analysis of the systems based on different methodologies and variables;
- e) a detailed identikit of a teacher in EU countries and 3 non-EU project countries as an expression of a given educational regime was described;
- f) country studies aimed at assessing the network research effect in each country were conducted; an important stage of elaboration of these studies consisted of submitting them to international journals; the methodologies were implemented (innovative MA course E-learning in Cultural Diversity, Postgraduate study, training courses, MOOCs, generally more than 210 publications, project journal *IJREL*, ICT-tools, more than 20 didactic videos shared on YouTube, etc.);
- g) a cross-country study of the network research effect was conducted; and
- h) education suggestions on the issues studied in the project were made.

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### **Raport z wdrożenia Pakietu Roboczego Work Package 7: „Rozpowszechnienie wyników projektu” realizowanego w ramach projektu IRNet**

#### Streszczenie

Artykuł ten został przygotowany przez międzynarodowy zespół badaczy reprezentujący różne obszary nauki związane z ICT, e-learningiem, pedagogiką oraz innymi dyscyplinami. Tekst skupia się na celach oraz wybranych wynikach międzynarodowego projektu IRNet ([www.irnet.us.edu.pl](http://www.irnet.us.edu.pl)). Szczególną uwagę skoncentrowano na opisie narzędzi, metod i procedur badawczych wykorzystanych podczas realizacji Pakietu WP7 „Rozpowszechnienie wyników projektu”, to znaczy na celach, zadaniach, rezultatach, publikacjach oraz realizacji wyjazdów naukowych w kontekście kolejnych etapów oraz pakietów projektu IRNet.

**Słowa kluczowe:** Międzynarodowa Sieć Badawcza IRNet, wyniki badań, rozpowszechnienie, e-learning, kompetencje międzykulturowe

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### **Отчет об осуществлении пакета 7: «Распространение результатов проекта», реализованный в рамках проекта IRNet**

#### Анотация

В статье, подготовленной международной группой исследователей из разных научных областей, связанных с ИКТ, электронным обучением, педагогикой и другими смежными дисциплинами, основное внимание уделяется целям и некоторым результатам международного проекта IRNet ([www.irnet.us.edu.pl](http://www.irnet.us.edu.pl)). В частности, в статье описываются инструменты исследования, методы и процедура рабочего пакета 7 «Распространение результатов проекта», а именно: цели, задачи, результаты, публикации и осуществление исследовательских поездок в контексте этапов и рабочих пакетов проекта IRNet - Международной исследовательской сети.



**Ключевые слова:** Международная исследовательская сеть IRNet, результаты исследований, Распространение, ИКТ, электронное обучение, межкультурные компетенции

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### **Informe sobre la implementación del paquete de trabajo 7 «Difusión de los resultados del proyecto» en el marco del proyecto IRNet**

#### **R e s u m e n**

Este artículo, preparado por un equipo internacional de investigadores de diferentes áreas científicas relacionadas con las TIC, el aprendizaje electrónico, la pedagogía y otras disciplinas relacionadas, se centra en los objetivos y algunos resultados del proyecto internacional IRNet ([www.irnet.us.edu.pl](http://www.irnet.us.edu.pl)). En particular, el artículo describe herramientas de investigación, métodos y un procedimiento del Paquete de trabajo 7 “Difusión de los resultados del proyecto”, es decir, objetivos, tareas, entregables, publicaciones e implementación de viajes de investigación en el contexto de las siguientes etapas y paquetes de trabajo del proyecto IRNet – Red Internacional de Investigación.

**Palabras clave:** Red Internacional de Investigación IRNet, resultados de investigación, difusión, TIC, e-learning, competencias interculturales