



*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 Milestone 1**

<b>Milestone number:</b>	<b>1</b>
<b>Milestone name:</b>	Decision on Clarification next research direct based on evaluation of analyses law, ethical, human, technical, social factors of Development ICT, e-learning and intercultural development in every partners countries
<b>Scheduled delivery month:</b>	8
<b>Scheduled delivery date:</b>	August 2014

Milestone 1 report						
Decision on Clarification next research direct based on evaluation of analyses law, ethical, human, technical, social factors of Development ICT, e-learning and intercultural development in every partners countries						
WPs	Deliverable ID	Deliverable description	Planned Milestones	Progress status	Amended Milestone	Comments
WP2	D 2.1.	„DIVAI 2014 Conference Proceedings”	1	were published		DIVAI2014 Conference Proceedings, Editors: Milan Turčáni, Martin Drlik, 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. ( <a href="http://conferences.ukf.sk/public/conferences/1/2014/divai2014.pdf">http://conferences.ukf.sk/public/conferences/1/2014/divai2014.pdf</a> ).
WP2	D 2.2.	Working paper “Conceptual aspects: analyses of legal, ethical, human, technical, social factors of development of ICT, e-learning and intercultural development in deferent countries”	1	was published		Kommers P., Smyrnova-Trybulska E., Morze N., Issa Tomayess, Issa Theodora: “Conceptual aspects: analyses of legal, ethical, human, technical, social factors of development of ICT, e-learning and intercultural development in deferent countries” Vo.25, No.4, 2015 Special Issue “E-Learning and



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						Lifelong Learning in European Countries and Australia" in the International Journal of Continuing Engineering Education and Lifelong Learning (IJCEELL, ERIH).
WP2	D 2.3.	"Innovations in Higher Education" Conference Proceedings	1	were published		„Innovations in higher education and dissemination of the initial results of the research on the legal, ethical, human, technical, social factors of information-communication technology, e-learning and intercultural developments in deferent countries, June 25, 2014”, International conference proceedings. A collection of scholarly papers of Dniprodzerzhynsk State Technical University, Technical Sciences, section Education, Ch. Editor A.P. Ogurtsov. Dniprodzerzhynsk: DSTU. 2014. No 1 (24). Supplement. 97p.)
WP2	D 2.4.	A conceptual framework for a joint research project based on lasting collaboration with the project participants	1	was elaborated		
WP2	D 2.5.	The report "First outcomes of the WP2 activities and research carried out within the framework of the IRNet project"	1	was published		was published on the project website <a href="http://www.irnet.us.edu.pl/work-packages/wp2">http://www.irnet.us.edu.pl/work-packages/wp2</a> <a href="http://www.irnet.us.edu.pl/sites/default/files/d2.5_irnet_deliverable.pdf">http://www.irnet.us.edu.pl/sites/default/files/d2.5_irnet_deliverable.pdf</a> ).

In WP2 "Analyses of legal, ethical, human, technical and social factors of ICT and e-learning development and intercultural competences in every partner country", the analysis of legal documents of 9 IRNet countries and 10 universities was conducted and the comparison of legal factors of ICT and e-learning development in different countries was made, and identical, similar, overlapping data and differences in state policies and university regulations in different project partners were found. It was identified that in West European universities the MOOCs potential is adopted in a way stimulating the further use of other ICT tools and e-learning for flexible learning and teaching and for internationalisation of education. In Central European universities and in Australia, the blended learning is implemented due to some regulations of the Minister of Science and Higher Education.



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*Consortium elaborated the next research direct based on evaluation of analyses law, ethical, human, technical, social factors of Development ICT, e-learning and intercultural development in every partners countries and presented decision on the conferences such as : “High-Tech Information Educational Environment” in HSPU (April, 2014, Sankt Petersburg, Russia), DIVAI 2014 (Distance Learning in Applied Informatics) in UKF (May, 2014, Slovakia), 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” in DSTU, (June, 2014, Dneprodzerzhinsk, Ukraine), other as well as in numerous project publications and videos.*

### **Objectives**

1. 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 the educational effectiveness indicators in the countries involved in the Project – literature and regulatory documents reviews
  - To analyze the ICT, e-learning and intercultural competences indicators in the countries involved in the Project - literature and regulatory documents reviews
  - To analyze the intercultural competences indicators, affecting the efficiency of e-learning - the analysis of the newest published studies
  - To work out a system of indicators for a joint research project
2. To analyze and evaluate the level of ICT, e-learning and intercultural developments in every participating country applying the system of measuring instruments approved.

### **The proposed group of study:**

- Students of different levels of education
- Teachers
- University administration and management
- University educational e-learning environment
- Prospective research methods:
  - Questioning
  - Interviews
  - Observation
  - Analysis of educational products
  - Analysis of communication processes in the environment of e-learning
  - Analysis of management processes in e-learning
  - Factor and cluster analysis of the e-learning environment parameters

### **To obtain reliable and comparable data about:**

- ICT development,
- e-learning,



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- teachers' and students' practices and attitudes towards ICT,
- e-learning management by the university administration,
- the processes of e-learning environment development.

3. 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 drawn in the previous WP.

- Presentation of research results
- Present the results of the analysis of data obtained at each university with a justification of the results
- To provide a comparative analysis of the results obtained in different institutions with hypotheses to make progress in the field of distance learning and the use of remote forms of education and IT
- Making recommendations on preparing contemporary specialists and preparing students for e-learning
- Testing recommendations in the universities - project participants
- Preparation of publications and presentation at conferences, discussion of the results achieved

**Teams of participants:**

- Form the research tools and organize the follow-up work of all project participants
- Carry out a comprehensive study of the educational environment of e-learning, collect data using research tools
- Show and watch examples of innovative practice e-learning
- Carry out the methodological workshops for expansion of the methodological framework of the joint research
- Establish a working group for further research in remote mode
- Expand scientific contacts

**Researchers are supposed to carry out the following activities (1):**

- **Overview and systematization of approaches to the ICT competence evaluation** for students' (undergraduate and graduate students, future teachers), school teachers, university lecturers in each of the countries participating in the project
- **Overview and ordering tools used for assessment of ICT competence** of students (undergraduate and graduate students, future teachers, school teachers, university lecturers in each of the countries participating in the project).
- **Comparative analysis of systematic materials and system development tools that will be suitable for use in all countries** participating in the project and will provide reliable and comparable data on the development of ICT, e-learning, educational activities of teachers and students, the ratio of ICT in learning and professional life, as well as their cross-cultural understanding
- **Comparative analysis of approaches to the management of e-learning at the university level** (the basis for the analysis are the regulations governing e-learning at the university level,



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analysis of the processes of educational policy implementation and analysis of a virtual learning environment of the institution (based on regulations, selected within the WP 2 and analysis tools virtual educational environment for its internal indicators proposed in the framework of WP 2).

- **Develop a model system of information technology in teaching activities and model of pedagogical activity**, adequate to knowledge society
- **Develop tools for evaluation and assessment of a professional educator's information environment internal indicators** as means of estimating the level of professional ICT competence.

**Research perspectives:**

- To create new scientific journal - International Journal on Research in E-learning (IJREL): Editorial Board, executive Editor, Organizational and Technical Questions.
- To create and integrate new innovative educational programs (specializations) on the basis of the European and national standards and qualification frameworks.
- Conducting research among specialist from education and business and elaboration an innovative educational program for postgraduate studies on e-learning.



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