

PROJECT INFO

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1. INTRODUCTION

There is a clear idea both in Serbian government structure as well as in academic community that some improvements in the area of Safety & Security must be performed in order to remove the existing gap with EU countries. Namely, the organizational and infrastructural capacity of countries aiming to join EU is often not well aligned with the one in the EU and one of the main reasons for this gap is often the suboptimal academic and professional educational capacity, particularly in the area of S&S. It was concluded that one of the priorities is to increase educational capabilities in this area.

When it comes to the academic education in the field of S&S, it is not only that curricula and courses are not fully updated and modified according to EU standards; the other big issue is that the learning methods are obsolete since there is a limited effort to introduce available technology in education process. Use of new teaching methods like e-learning, simulation, workshops etc. is still in an early phase.

In order to address this problem the IMPRESS project seeks for innovative actions that can be performed. As a start, the new (ICT) technology is already implemented in ongoing project activities and will be further analyzed in order to find new tools that can make project management (communication, discussion, analyzing, result dissemination etc.) more effective. Also, established "knowledge alliance", as well as dissemination of past and ongoing EU projects in this area will help us to understand which innovative learning methods are in place in EU countries, that can be effectively implemented in our learning model.

This report provides overview of some actions taken in order to address this issue as well as a list of some innovative learning methods that are used in EU countries. The goal of this analysis is to propose some innovative actions that can be taken in the newly developed courses in the area of safety and security in Serbia.

2. OVERVIEW OF THE INNOVATIVE ACTIONS TAKEN IN ONGOING PROJECT ACTIVITIES

There is a range of various activities on the project that were performed. A list of most significant ones is given below.

- I. Since the improvement of IMPRESS project was according to some changes in the mobility part, there was an open discussion among the IMPRESS project members about various issues regarding project implementation. As a result of risk management actions taken in order to solve recognized problems two meetings were held:

1. **Meeting of the national partners on the project ImprESS (The Academy of Criminalistic and Police Studies, November 20th, 2017).**

Participations on this meeting were: The Academy of Criminalistic and Police Studies, Belgrade; University of Defense, Belgrade; The Faculty of Security Studies, Belgrade; University Educons, Sremska Kamenica; University Metropolitan, Belgrade and Steinbeis Advanced Risk Technologies Institute doo, Kragujevac.

The **aim** of the Meeting was firstly to familiarize domestic consortium members with the tasks and goals of the project as well as the roles and obligations of each participant individually. Precise definition of tasks and deadlines according to the project plan was

presented, and an effort to resolve possible dilemmas or disputes regarding project activities was made.

2. Pre-Kick-off meeting of the partners on the project ImprESS (The Academy of Criminalistic and Police Studies, December 4th, 2017)

Participations on this meeting were: The Academy of Criminalistic and Police Studies, Belgrade; University of Defense, Belgrade; The Faculty of Security Studies, Belgrade; University Educons, Sremska Kamenica; University Metropolitan, Belgrade; Steinbeis Advanced Risk Technologies Institute doo, Kragujevac; Steinbeis Advanced Risk Technologies Institute, SHB; University of Stuttgart and Foundation Tempus - Erasmus + office in Serbia

The **aim** of the Meeting was firstly to inform present members about progress of the project and also to precise duties, roles, responsibilities, budget matters, tasks and deadlines according to the project plan. Italian partner, Sant' Anna School of Advanced Studies, SSSA – Institute of Management was introduced. An effort to resolve any remaining dilemmas or disputes regarding project activities was made. In order to achieve this an presentation „Project Management, Reporting and National Erasmus+ Office monitoring” by Mr. Darko Milogorić, Junior Project Advisor, Group for Higher Education, Foundation Tempus - Erasmus + office in Serbia, was delivered.

- II.** In order to avoid possible overlapping and finding areas for additional cooperation, a workshop was held at the KPA (December 15th, 2017) with representatives of the following projects financed by Erasmus in Serbia
 - BE-OPEN (Boosting Engagement of Serbian Universities in Open Science)
 - K-FORCE (Knowledge FOr Resilient soCiEty)
 - ISSES (Information Security Services Education in Serbia)
 - NatRisk
- III.** Finally, Kick-off meeting was held at the KPA (Decembar, 20th, 2017). Special innovative actions predicted from this meeting were so called Interproject coaching meeting with NatRisk and K-FORCE discussed between leaders of the projects – to be scheduled in the first quarter of 2018. Also, some partners from ISSES are compatible with our partner on the project Belgrade Metropolitan University – and could be connected with them in possible security and safety area matching. That was discussed with project leader of ISSES and it was planned to connect those in order to have synergies in curriculum and course (subject) creation in our project. In order to have interested parties for our project (as some possible additional partners – without budget rights) we have offered all partners from the project that opportunity.
- IV.** For the purpose of official communication an e-mail address of the project is established by project coordinator - KPA (impress_project@kpa.edu.rs).
- V.** After some discussion a Logo of the project was chosen.
- VI.** For the purpose of official communication, and that for the needs of dissemination, profiles of the ImprESS project on social networks (Facebook, Twitter and LinkedIn) has been created.

- VII. Project web site (partner in charge - Steinbeis Advanced Risk Technologies Institute doo, Kragujevac), will be in function very soon.
- VIII. Communication between partners is performed by a variety of tools such as: e-mail, Google document, Doodle etc.
- IX. ICT is widely utilized in events (meetings, consultations, workshops) organization by means of video conferencing and online meetings through WebEx platform.
- X. For the purpose of project management an internet project management tool Trello is introduced.
- XI. The Quality control plan is prepared.
- XII. There has been a proposal to create Quality Champions Committee – which role would be purely advisory.
- XIII. When it comes to outputs of the project, such as creating of the Training center, the general conclusion was made that the University of Defense may be the best location for that.

3.. OVERVIEW OF THE INNOVATIVE ACTIONS (LEARNING METHODS) THAT ARE ALREADY IN PLACE

In this Section we will give a short overview of present (innovative) learning methods already implemented at members of the project consortium.

Overview of learning methods at project consortium members

4. RECOMMENDATIONS

In order to make transition from traditional (classroom) to innovative teaching/learning methods (e-learning), as well as to adopt modern ICT as much as possible, following actions are recommended:

- Introduction of image processing tools;
- Introduction of web semantics tools;
- Introduction of interactive visualization tools;
- Introduction of computer simulations tools (for example Simulation software XVR On Scene- which is extensive, versatile and flexible incident response training in a 3D environment);
- Introduction of web platforms for collaborative work and education;
- Introduction of virtual laboratory;
- Introduction of agent-based modeling and data mining techniques;

- Involvement of a number of already existing simulation software packages, equipment and know how in the simulation exercises management;
- Make attending classes online in real time (LIVE STREAMING) available;
- Introduction of Virtual Reality (VR) modules (with appropriate software and equipment (such as Virtual Reality Headsets, GoPro cameras, Unmanned aerial vehicle-UAV, etc.)
- Introduction of advanced decision making tools;
- Preparation of new lecturing/learning materials according to the shift to e-learning paradigm;
- Creation and maintenance of e-library with possible open access
 - e-library will contain all training materials (books, materials for further reading, articles, presentations, films, results from simulation trainings etc.).
- Development of E-testing together with marking schemes for each test;

With introducing the above mentioned innovative methods, we expect to establish the regional Training and Education Safety & Security centre in Serbia (TESS) where a number of already existing simulation software packages, equipment and know how in the simulation exercises management will be applied. Computer simulations will be combined with practical field exercises aiming to significantly elevate the effectiveness and efficiency of knowledge transfer. Virtual reality modules and advanced decision making tools will be incorporated.

The centre will be equipped with distance learning tools to give the possibility of participation of European lecturers in the learning process. It will also provide national/regional/international case-studies, integrated risk methodology assessment, hazard, risk and vulnerability national/cross-border/regional mapping and results publication.