CROSS-BORDER ACCESS INFRASTRUCTURE TO HIGH-LEVEL EDUCATION THROUGH WEB-CASTS
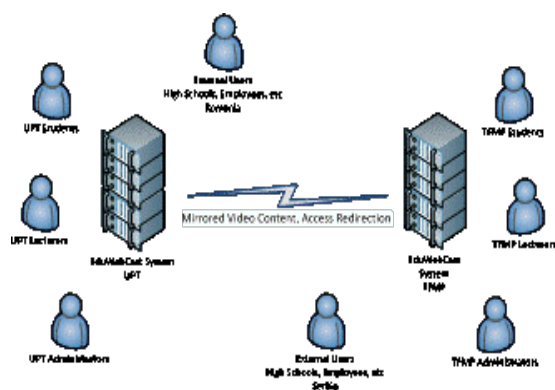
Goal of the project

The overall goal of the project is to increase the overall competitiveness of the economy in the border area by creating a cross-border partnership between the Faculty of Automation and Computers from Timisoara and the Technical Faculty from Zrenjanin and by improving the quality of education for the students and pupils from the border area.

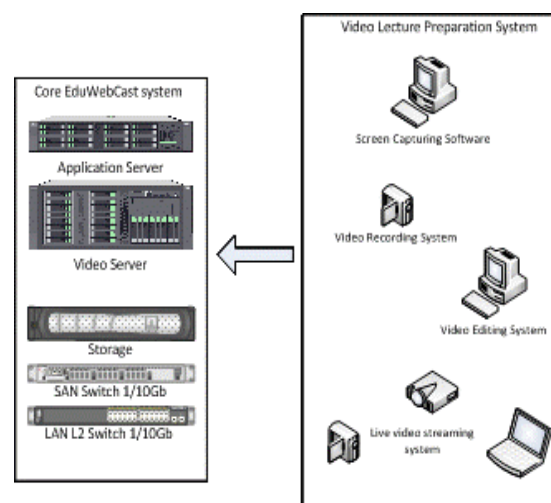### Short description of the project

The aim of this partnership is to implement an infrastructure for live and on-demand video streaming of learning material for the target groups and to this purpose establish a long and fruitful cooperation between teachers, pupils and students on both sides of the border.

The infrastructure is presented below:

The joint realization and administration of the web cast project is the result of the partnership between the two faculties and will lead to more common projects based on the materials created through the project, contests between pupils and students, possible periodic educational exchanges.

Besides the students, the academic personnel will have the chance to contact their homologues on the other side of the border and exchange opinions, information and teaching techniques which will help improve the entire educational process in both partners to the benefit of the target groups.

Project implemented by

- Politehnica University of Timişoara, UPT – Lead partner
- Technical Faculty "Mihajlo Pupin" Zrenjanin – Project partner

Implementation period

19.12.2013 – 18.06.2015

Main activities:

1. Communication and publicity activities;
2. Establishment of the hardware and software architecture;
3. Establishment of the content of the lectures;
4. Acquisition of the specific equipments and software.

Results

1. Several technical meetings took place both in Timişoara and Zrenjanin. As a consequence the architecture of the system was established both in the hardware and software parts.
2. The specifications were studied and both teams agreed on a list of equipment and on the features of the software.
3. The number of the lectures and their content were established.
4. After acquiring the foresight equipment, the common EduWebCast system was set up. The specific software, web pages and portal were designed and implemented.
5. The lectures were created, tested and uploaded on the EduWebCast system. They are accessible to the target groups.
6. Closing events were organized both in Zrenjanin and Timisoara.

Fields of interest:

Live and on-demand video

Applicability and transferability of the results:

- Achievement of a secure WiFi network covering a large area, offering also the EDUROAM service and IP streaming service
- Possibility to develop research oriented on IP streaming, network traffic and main features.

Research centre

Research Center in Computers and Information Technology

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