

EXPERIENCES OF INTERNATIONAL SEMI-VIRTUAL CAMPUS

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EDINET

E-LEARNING IN DISTRIBUTED DATA NETWORK LABORATORY

- The aim of the Edinet project was to design, develop and test new methods of teaching technology using existing technical infrastructure
- General objective of the Edinet was to contribute the modernisation agenda for universities and to analyse common pedagogical principles for blended learning
- The participants of the project were from seven different European countries (Austria, Czech Republic, Germany, Finland, Poland, Slovakia and Switzerland)

WHY EDINET?

- To achieve the most effective results in technology, education requires proper laboratory equipments
- The equipment must be updated regularly and therefore costs of teaching will easily rose high for each single institution
- Only with sufficient laboratory exercises students will get the competence that they need in working life and they will gain confidence in their skills, too
- The lack of technically and pedagogically tested learning environments make difficult to develop and carry out the technology education

PROJECT APPROACH

- The main activities carried out in the Edinet were:
 - 1) To generate a common pedagogical framework for international blended learning and research environment
 - 2) To design blended learning modules and activities
 - 3) To promote and stimulate international communication, cooperate skills, teamwork, and virtual mobility by means of SVC
 - 4) To establish a system for common use of existing data network laboratories
 - 5) To develop training program for teachers and students
 - 6) To pilot and test selected training modules, the whole concept and the technical system (platform)

WORKPACKAGES

WP0: Administration

- Coordinator School of IT, JAMK University of Applied Sciences, Finland

WP1: Pedagogical Framework for E-Learning

- Coordinator TEC, JAMK University of Applied Sciences, Finland

WP2: Blended Learning Modules

- Coordinator Technical University of Kosice, Slovakia

WP3: Semi-Virtual Campus

- Coordinator Technical University of Ostrava, Czech

WP4: Supporting Competences

- Coordinator TEC , JAMK University of Applied Sciences, Finland

WP5: Training Program

- Coordinator University of Applied Sciences, Bremen, Germany

WP6: Piloting

- Coordinator University of Applied Sciences FH JOANNEUM, Graz, Austria

WP7 Quality and Evaluation

- Coordinator TEC, JAMK University of Applied Sciences, Finland

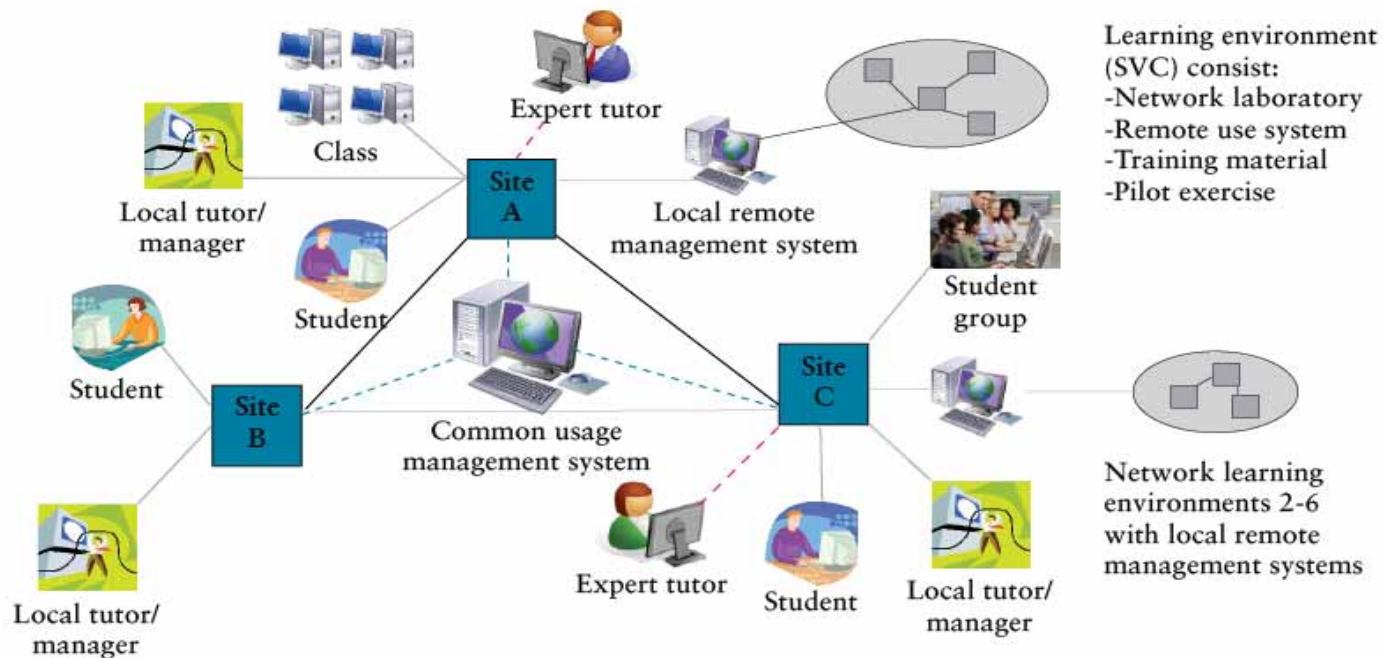
WP8 Dissemination

- Coordinator The Academy of Humanities and Economics in Lodz, Poland

WP9 Exploitation

- Coordinator The Academy of Humanities and Economics in Lodz, Poland

THE EDINET SEMI-VIRTUAL CAMPUS ARCHITECTURE

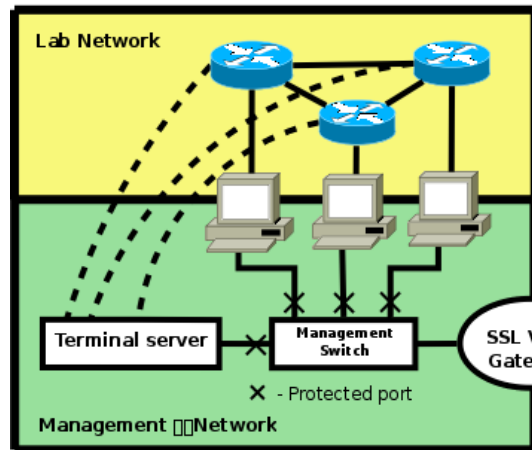


SEMI-VIRTUAL CAMPUS

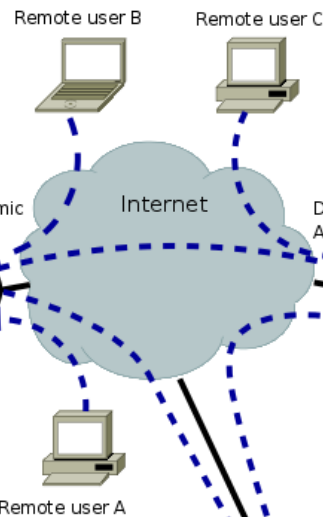
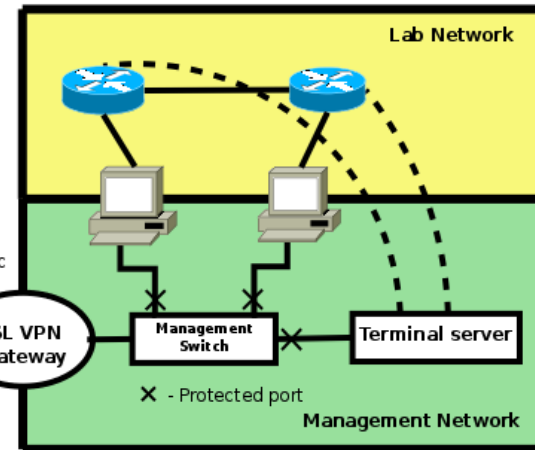
- Allow equal access of users of all partners to resources of other partners (tasks and lab equipment) – OER principle
- SVC Components
 - Common Portal
 - Databases for Tasks, Reservation, User groups and Lab Devices
 - VPN CA for generation of one-time passwords for VPN access to labs
 - VPN Gateways to Lab Management Network of individual partners' labs
 - Local AAA Servers
 - Authenticate users of respective partner
 - Maintain user database and provide GUI to administer user database by local administrator/teacher

REMOTE MANAGEMENT OF LAB DEVICES

Partner 1 Lab



Partner 2 Lab



Partner 3 Lab



RESULTS OF THE EDINET (1)

- Edinet project has provided the developed SVC and gave one idea for universities and HEIs to implement virtual campuses, particularly in the area of data network technology but also in other areas of laboratory based education
- Results and findings of the Edinet will hopefully take part to strengthen competitiveness of both the European universities as well as enterprises by making it possible to share the resources and the knowledge by the model of SVC

RESULTS OF THE EDINET (2)

- The Edinet model implements virtual mobility in a new way. It contributes to quality of lifelong learning by developing and creating a model of open learning environment where students of universities, as well as employees of enterprises, can study learning modules by remote connection
- In this way digital competence among the users will be improved. The principle of open learning environment comes true also by sharing, integrating, and mutually improving local resources, knowledge and best practices

RESULTS OF THE EDINET (3)

- One of the goals in the Edinet was to study and analyse partner organisations' curriculums related to the principles of the Bologna process. This prepares a way to approve SVC based studies from different universities to students' curriculums
- Main ideas of the project included to design, develop and test new methods in teaching on existing infrastructure, to assess needs in data network educations between partner institutions, and also to develop further the common educational structure based on together agreed pedagogical principles

RESULTS OF THE EDINET (4)

- As mentioned, studying and teaching in the Edinet SVC environment are based on connectivity of the laboratories. Study groups can easily be implemented so that the students, as well as the teachers, can be from different countries and cultures
- This will require communication between representatives of different cultures as well as social competences. This can be seen to correspond to situation in international company network

RESULTS OF THE EDINET (5)

- Cultural and linguistic diversity were boosted in the project by gathering project partners with quite broad geographical and cultural background
- In all consortium countries the official language is another than English, but as a common language for communication in the project, English was chosen. In addition, reports, learning modules and training programmes were produced in English language

RESULTS OF THE EDINET (6)

- According to Lisbon declaration, small and medium-sized (SMS) enterprises play a central role in European economy
- For the workers of these enterprises, model of the modern and appealing SVC can make it easier to start part time studies as distance and time are not anymore relevant limiters
- In addition, Edinet SVC model gives more opportunities for the students to study learning modules, which their own university cannot offer locally

THANKS FOR YOUR INTEREST!

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- The project's webpage is available at: www.svc-edinet.eu