Cloud services for e-Learning in Mechatronics technology

518656-LLP-1-2011-1-UK-LEONARDO-LMP

http://www.adam-europe.eu/adam/project/view.htm?prj=8395
Cloud services for e-Learning in Mechatronics technology (518656-LLP-1-2011-1-UK-LEONARDO-LMP)

Project Information

Title: Cloud services for e-Learning in Mechatronics technology
Project Number: 518656-LLP-1-2011-1-UK-LEONARDO-LMP
Year: 2011
Project Type: Development of Innovation
Status: completed
Country: EU-Centralised Projects

Marketing Text: CLEM project is the first step to fulfil the vision of establishing “a global Mechatronics technology in VET knowledge repository for exchange and sharing”. So, the aims of this project is to design and develop an infrastructure for e-Leaning that can continue training of VET teachers in Mechatronics technology and a systematic framework that VET teaching and training systems and materials can be streamlined and shared. Consequently, the VET teachers and trainers can gain efficient and effective supports in obtaining the knowledge, designing and preparing their courses and teaching materials, and cooperating with colleagues over Internet via cloud services.

Summary: This project deals with mechatronics and addresses the EU need to update knowledge, to share experience and to develop web and cloud based solutions for teachers/trainers/teacher students and companies in the engineering sector.

Description: The CLEM project is to develop an e-Learning system based on cloud services and effective teaching materials and procedures to improve VET teacher training in mechatronics technology. CLEM involves multidisciplinary teams from design and operation levels. The project will be divided into 7 work packages which are designed to achieve the following objectives:

O1 Concept modelling for VET teacher training in Mechatronics technology
This objective is to capture and analyse the requirements for VET teacher training in Mechatronics technology and translate them into tangible approaches and tools. This will include the following sub-objectives:

O1.1 Production of a Methodological Manual for Cooperation
This objective is to build a network model for ensuring VET teachers' internationalisation and a capacity assessment of innovative methods for continual assessment of engineering knowledge and skills.

O1.2 Design of Rapid Course Development Tutorial
This objective is to enhance the generic skills and opportunities of VET staff to develop high-quality courses.

O1.3 Development of Innovation Cluster and VET course
This is specifically dedicated to the aspect of “transferability of innovation” in the sector.

O2 Development of infrastructure
The documents and materials will be translated into forms that can be processed by computer programs.

O2.1 Design and development of e-Learning infrastructure in Cloud
This objective allows the teaching materials and systems to be accessible and sharable via the cloud and service technologies.

O2.2 Implementation of Online Learning Modules and Interactive Learning Resources and Tools
The tools will be developed to improve the sectoral competences of the people involved

O3 Dissemination and exploitation of results
The Dissemination of findings to the range of audiences relevant to the project, including teachers, trainers, and policy decision-makers will be determined. Exploitation plans will be generated for consortia partners detailing next steps using CLEM outputs for future academic, commercial and municipal activities.

http://www.adam-europe.eu/adam/project/view.htm?prj=8395
Project Information

O4. Quality Assurance
A quality assurance plan and indicators to measure the quality will be established.

Themes:
- ICT
- Lifelong learning
- Higher education
- Open and distance learning
- Vocational guidance
- Continuous training
- Initial training
- Quality

Sectors:
- Professional, Scientific and Technical Activities
- Information and Communication
- Education
- Manufacturing

Product Types: teaching material
- website
- open and distance learning

Product information: This products of this project will include reports and software systems to support new teaching methods. The followings list the main outcomes of this project.

A Innovation Stimulation model which is used for the development of concepts for learning communities and inter-site collaboration in Europe, and with a special focus on Eastern Europe in the area of mechatronics/industrial engineering.

A Methodological Manual of Best Practices for Cooperation which will support VET practitioners and VET stakeholders with updated know-how about networking models for ensuring VET teachers’ internationalisation.

e-Learning infrastructure in Cloud which provides a facility to enable teaching materials and systems to be accessible and sharable via cloud and service technologies.

Collaboration tools, the produced technological infrastructure and the learning contents which can be used to run pilot course modules.

Project homepage: http://www.clem-project.eu/
Project Contractor

Name: Coventry University
City: Coventry
Country/Region: West Midlands
Country: UK-United Kingdom
Organization Type: university/Fachhochschule/academy
Homepage: http://www.coventry.ac.uk

Contact Person

Name: Kuo-Ming Chao
Address: Faculty of Engineering and Computing, Coventry University, Priory Street
City: Coventry
Country: UK-United Kingdom
Telephone: +44 24 76888908
Fax: 
E-mail: k.chao@coventry.ac.uk
Homepage:
## Coordinator

<table>
<thead>
<tr>
<th>Name</th>
<th>Coventry University</th>
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## Contact Person

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Cloud services for e-Learning in Mechatronics technology (518656-LLP-1-2011-1-UK-LEONARDO-LMP)

Partner

Partner 1
Name: Technical University of Cluj-Napoca
City: Cluj-Napoca
Country/Region: Nord Vest
Country: RO-Romania
Organization Type: university/Fachhochschule/academy
Homepage: http://www.utcluj.ro/

Partner 2
Name: University of Rousse
City: Rousse
Country/Region: Severen tsentralen
Country: BG-Bulgaria
Organization Type: university/Fachhochschule/academy
Homepage: http://www.uni-ruse.bg/en/ru.php

Partner 3
Name: ESTA-Bildungswerk gGmbH
City: Bad Oeynhausen
Country/Region: Detmold
Country: DE-Germany
Organization Type: SME - small and medium-sized enterprise (up to 250 employees)
Homepage: http://www.esta-bw.de/

Partner 4
Name: IFMA - French Institute for Advance Mechanics
City: AUBIERE
Country/Region: Auvergne
Country: FR-France
Organization Type: university/Fachhochschule/academy
Homepage: http://www.ifma.fr/
Cloud services for e-Learning in Mechatronics technology (518656-LLP-1-2011-1-UK-LEONARDO-LMP)

Partner

Partner 5
Name: Hildebrand Technology Limited
City: London
Country/Region: London
Country: UK-United Kingdom
Organization Type: SME - small and medium-sized enterprise (up to 250 employees)
Homepage: http://www.hildebrand.co.uk/

Partner 6
Name: University of Cassino
City: Cassino
Country/Region: Lazio
Country: IT-Italy
Organization Type: university/Fachhochschule/academy
Homepage: http://www.unicas.it/
Cloud services for e-Learning in Mechatronics technology (518656-LLP-1-2011-1-UK-LEONARDO-LMP)

Project Files

D10_Teacher_Training_Course_FinalV2.0.pdf

D11_Innovation_Stimulationv2.pdf

D2_public_part_report_FINAL.pdf

D3_CLEM_dissemination_final_report_v4.0.pdf

D4_Exploitation_Report-FinalV2.pdf

D5_Quality_Report_FinalV12.pdf
Quality Report


D7_OnlineLearningModulesv2.pdf

D8_CollaborativeLearning_Resourcesv3.pdf

D9_RapidCourseDevelopmentTutorialv2.pdf

ICEBE CLEM-GRANT-AJ formatted.pdf

This paper describes results of the CLEM project, Cloud E-learning for Mechatronics. CLEM is an example of a domain-specific cloud that is especially tuned to the needs of VET (Vocational, Education and Training) teachers. An interesting development has been the creation of remote laboratories in the cloud. Learners can access such laboratories to support their practical learning of mechatronics without need to set up laboratories at their own institutions. On the other hand the cloud infrastructure enables multiple laboratories to come together virtually to create an ecosystem for educators and learners. From such a system, educators can pick and mix materials to create suitable courses for their students and the learners can experience different types of devices.
Cloud services for e-Learning in Mechatronics technology (518656-LLP-1-2011-1-UK-LEONARDO-LMP)

Project Files

and laboratories through the cloud. The paper provides an overview of this new cloud-based e-learning approach and presents the results. The paper explains how the use of cloud computing has enabled the development of the new method, showing how a holistic e-learning experience can be obtained through use of static, dynamic and interactive material together with facilities for collaboration and innovation.

Muntean2014.pdf


Cloud computing has proved to bring many advantages to its users from industry where it has been applied for data analysis, operator training or for the delivery of either infrastructure or applications on demand. While some of these applications are still under development, the benefits that cloud computing offers – such as low cost, flexibility and speed of adding additional infrastructure – will push forward its implementation on more processes. In this paper we present an integrated architecture for the remote management and scheduling of mechatronic systems that allows users to take advantage of the potential of cloud computing. The paper also contains a review of Software-as-a-Service solutions available on the market – solutions that can be integrated in the architecture. Even though the paper focuses on mechatronic systems, the same architecture can be used on other applications too.
Products

1  CLEM
2  Final report
3  Progress Report
Product 'CLEM'

Title: CLEM

Product Type: website

Marketing Text: CLEM is an e-Learning system based on cloud services and derived from effective teaching materials and procedures to improve VET teacher training in mechatronics technology. It allows the users to develop their customised teaching materials in mechatronics rapidly to meet their demands.

Description: CLEM is a software system which is realised by the state-of-art of e-learning technologies. It provides a collaborative platform for developing teaching materials in a distributed environment. So, teachers/trainers/lecturers located at different locations can utilise this tool to rapidly develop their common materials. They can share and reuse teaching materials. The system will be built upon a new e-learning method which will be proposed in this project, so the more effective teaching method will enhance students' learning experiences and reduce teachers' workload.

Target group: Teachers in college and lecturers in University, researchers in e-Learning technologies

Result: It has a web-based software system allows teachers located at different sites to work together effectively and efficiently to provide on-line teaching materials.

The Manual of Best Practices for Cooperation will demonstrate a Network model for ensuring VET teachers' internationalisation, a capacity assessment of innovative methods for continual assessment of engineering knowledge and skills.

The online learning modules & E-Learning courses will exploit meta-data (goals, tasks, training activities, time structure), learning aids (exercises, assessment material).

Knowledge repository for VET teaching will be modelled in cloud services.

Area of application: Higher education, vocational training, e-learning

Homepage:

Product Languages: English

product files

2011_4542_PR_CLEM_pub.pdf


1st Period report

Executive Summary

The project concerns the development of a methodology for Cloud e-learning in Mechatronics. The idea is that the methodology will be made available to teachers of VET so that they can take advantages of new opportunities afforded through by the innovative technology of the Cloud. The approach may be very helpful for establishments which may not have state-of-the-art know-how in Mechatronics and also it will be useful for students who wish to study remotely from their place of work. To this end we have investigated various approaches for taking advantage of the Cloud for E-learning in Mechatronics, as well as investigating ways in which we can bring knowledge of both the new approach and the developing area of Mechatronics to VET teachers.

The project has reached the half way stage. So far, we have consolidated the project mission, approach, investigated the current practice and state of technology and produced some of the deliverables, namely the online learning modules and a major part of the manual of best practice for cooperation.

Initially we distributed a multi-response questionnaire to teachers of VET in the partner countries. The reason for doing this was to assess current practice and levels of knowledge. We have found that a number of teachers of VET lack experience and knowledge of the new internet and Cloud approaches to learning. The results of the questionnaire have informed our approach to the project in that we consider it especially important now to educate VET teachers on the new methods and provide a means for them to exploit facilities offered by the Cloud.

The development can be viewed as two main phases: the development or compilation of the static learning modules (i.e. static
material above the various areas of Mechatronics); and the development of the dynamic exercises which will involve remote laboratory access. The compilation of the static modules is now practically complete with samples of the static modules being online at http://elecnics.com. In the next year the development of the dynamic content will take place alongside completing the online environment in a way that encourages sustainability and continuation of the mission of this project. To this end our mission is to create an environment where an eco-systems can develop, in other words an environment of innovation and stimulation in Mechatronics that is self-sustaining by the interested community of VET teachers and industrialists.
Product 'Final report'

Title: Final report
Product Type: others
Marketing Text: A final report including an executive summary and a summary description of project objectives, a description of the main outcomes and results, partnerships, the potential impact and the contribution to EU policies.

Description:
Target group:
Result:
Area of application:
Homepage:
Product Languages: English

product files

Final report

2011_4542_FR_CLEM_pub.pdf
Product 'Progress Report'

Title: Progress Report

Product Type:

Marketing Text:

Description:

Target group:

Result:

Area of application:

Homepage:

Product Languages: English

product files

2011_3560_PR_ELGI_pub.pdf

Events

**Special session in IEEE CSCWD 2014**

Date 22.05.2014

Description Present the CLEM architecture and demonstrate the system functions

Target audience Researchers, teachers, lectures

Public Closed event

Contact Information

Time and place 22nd May 2014 Taiwan

**Workshop - Research Seminar- IFMA France**

Date 15.05.2014

Description Presentation of the CLEM project and results. Demonstration of the teaching platform and virtual labs

Target audience Professors, teachers, Research Engineers, Technicians, PhD Students and Post-Docs

Public Event is open to the public

Contact Information

Time and place IFMA, May 15th 2014

**COVENTRY UNIVERSITY, FACULTY ENGINEERING AND COMPUTING, REF2020 CONFERENCE**

Date 14.05.2014

Description This is a Coventry University faculty run event on our future research strategy.

Target audience lectures and staff

Public Event is open to the public

Contact Information

Time and place 14TH MAY 2014, Coventry University
Events

CLEM workshop - China

Date 13.05.2014

Description It will report the complete product of CLEM project and how it works.

Target audience Researchers, University lecturers and school teachers

Public Closed event

Contact Information

Time and place Fudan University, Shanghi, China
13-14, May, 2014

International Workshop – testing at Coventry, UK

Date 08.05.2014

Description This is a Technical University international event for international guests and staff.

Target audience Researchers and teachers

Public Event is open to the public

Contact Information

Time and place Coventry, 8-9 May, 2014

CLEM workshop at Ruse

Date 24.03.2014

Description Presentation of CLEM objectives and achievements at the end of the project

Target audience automation engineers and university researchers and lecturers

Public Event is open to the public

Contact Information

Time and place 24.03.2014,
Ruse, Bulgaria
Events

Regional networking - ESTA Germany

Date 24.03.2014

Description Share the results of CLEM with the delegates

Target audience Managers training companies

Public Event is open to the public

Contact Information

Time and place 24.03.2014, ESTA, Germany

Testing the remote laboratory installed at TU Cluj-Napoca

Date 05.03.2014

Description This was a Technical University internal event for final year Master students and staff. The Technical University of Cluj-Napoca CLEM team (led by Dr. Stan) disseminated the CLEM project during a special event for 2nd year Master students and staff. Master students who currently work at the Bosch factory in Cluj were particularly interested in the project. They have suggested we use the system in combination with Bosch PLCs components. In this way, CLEM project can be useful for them.

Target audience final year students

Public Event is open to the public

Contact Information

Time and place 05.03.2014, TU Cluj-Napoca

Testing the remote laboratory installed at TU Cluj-Napoca

Date 05.03.2014

Description This is a Technical University internal event for 2nd year BSc students and staff. The Technical University of Cluj-Napoca CLEM team (led by Dr. Stan) disseminate the CLEM project during a special event for 2nd year BSc students and staff.

Target audience teachers and students

Public Event is open to the public

Contact Information

Time and place 5th of March 2014

http://www.adam-europe.eu/adam/project/view.htm?prj=8395
Events

FINAL YEAR MASTER STUDENT AND STAFF EVENT at Romania

Date 28.02.2014

Description This is a Technical University internal event for final year Master students and staff. The Technical University of Cluj-Napoca CLEM team (led by Dr. Stan) disseminates the CLEM project during a special event for 2nd year Master students and staff. Master students who currently work at the Bosch factory in Cluj are particularly interested in the project. They suggest we use the system in combination with Bosch PLCs components. In this way, CLEM project can be useful for them.

Target audience 2nd year Master students and staff

Public Event is open to the public

Contact Information

Time and place 28.02.2014, Cluj

SETTING UP THE REMOTE LABORATORY IN CLUJ-NAPOCA AND TESTING

Date 28.02.2014

Description This is a Technical University internal event to set up and testing the remote laboratory. The Technical University of Cluj-Napoca CLEM team suggest we use the system in combination with Raspberry Pi and Arduino. CLEM project can be useful for students by remotely testing the hardware components through Internet.

Target audience students and staff

Public Event is open to the public

Contact Information

Time and place 28.02.2014, e Technical University of Cluj-Napoca
Events

Internal information workshop - ESTA  Germany

Date  28.02.2014
Description  Overview on existing projects
Target audience  Staff
Public  Closed event

Contact Information
Time and place  28.02.2014, ESTA Germany

British Computer Society Event at Warwick, UK

Date  19.02.2014
Description  The British Computer Society Poster event is an annual event organised by the local branch of the British Computer Society where researchers can present their work via a poster as part of a poster competition. Researchers from Coventry University and the University of Warwick can enter. The audience consisted mainly of local professionals working in computing, together with some academics from the two universities. This year the event was held at the University of Warwick, UK. Prof. Kuo-ming Chao and Research Assistant, Antonios Nanos, of Coventry University, presented a poster on CLEM. They also demonstrated CLEM, encouraged delegates to try out the system and obtained feedback from attendees. This group completed a smaller questionnaire for feedback.
Target audience  computer scientists from local industry
Public  Closed event

Contact Information
Time and place  19th February 2014, University of Warwick
Events

**CLEM Seminar -2 at Cassino (Italy)**

Date  12.02.2014

Description  Dissemination of the results in center of Italy was carried out by organizing a dissemination seminar at the Dept. of civil and Mechanical Engineering at the University of Cassino and Southern Lazio.

Target audience  Teachers and Trainers of private companies, High Schools and Statal Institute for teaching were involved.

Public  Event is open to the public

Contact Information

Time and place  12/02/2014
  Cassino (Italy)

**CLEM Seminar -1 Bari(Italy)**

Date  31.01.2014

Description  In order to give maximum dissemination of the results achieved by the CLEM project, the UNICAS organized events for dissemination through which the results were released. In particular, Unicas organized two events dedicated specifically to the dissemination of the Clem Project results that were attended by teachers and trainers in schools and private companies. The dissemination of the results in south of Italy was obtained involving teachers and trainers of Institute and private companies. We are organized a dissemination seminary by involving several private companies and institutional referees as shown in Fig. 26. After a questionnaires were distributed to participants to get their impressions/ comments.

Target audience  Teachers and lectures

Public  Event is open to the public

Contact Information

Time and place  31/01/2014, Bari, Italy,
Events

Teacher training course at ESTA, Germany

Date 16.01.2014
Description Teacher training course
Target audience Teachers
Trainers
Public Event is open to the public
Contact Information
Time and place 16.01.2014, ESTA, Germany

Regular 6 month meeting in 2nd 2013 at ESTA Germany

Date 16.12.2013
Description Regional networking meeting
Target audience Managers training companies
Public Closed event
Contact Information
Time and place 16.12.2013, ESTA Germany

7th Partners Meeting

Date 28.11.2013
Description Report latest development in CLEM platform
Target audience Partners
Public Closed event
Contact Information
Time and place 28th - 29th November 2013
IFMA, Clermont-Ferrand, France
Events

**Ongoing EU funded Projects at Ruse, Bulgaria**

- **Date**: 05.11.2013
- **Description**: Presentations of Ongoing EU funded Projects” at University of Ruse in 2013
- **Target audience**: staff and lectures
- **Public**: Event is open to the public
- **Contact Information**
  - **Time and place**: 05.11.2013, Ruse, Bulgaria

**Annual conference - ESTA Germany**

- **Date**: 17.10.2013
- **Description**: Regional Cont. training conference OWL
- **Target audience**: Managers training companies
- **Public**: Closed event
- **Contact Information**
  - **Time and place**: 17.10.2013, ESTA Germany

**Night 2013, Researchers in knowledge triangle initiative at Ruse, Bulgaria**

- **Date**: 27.09.2013
- **Description**: Present different EC research initiatives and achievements
- **Target audience**: Researchers and lectures
- **Public**: Event is open to the public
- **Contact Information**
  - **Time and place**: 27.09.2013; Ruse, Bulgaria
Events

New Trends in Mechatronics Technology

Date  26.09.2013
Description  Research seminar on Mechatronics Technology
Target audience  Researchers and Lectures
Public  Event is open to the public
Contact Information
Time and place  26/09/2013, Universidad Politécnica de Valencia, Departamento de Ingeniería Mecánica y de Materiales

ICEBE 2013

Date  11.09.2013
Description  Demonstrate the use of CLEM platform for e-learning
Target audience  around 100 teachers from all around the world
Public  Closed event
Contact Information
Time and place  11-13th September, Coventry University

The 1st Workshop on Cloud Computing for Mechatronic Systems (CCMS'13)

Date  11.09.2013
Description  Topics of interest in this workshop include, but are not restricted to:
• Cloud Computing for Mechatronic Systems
• Virtual Prototyping in Mechatronics
• Sensors and Actuators
• WEEE
• Arduino-based Mechatronic Systems
Target audience  Researchers and teachers from the world
Public  Closed event
Contact Information
Time and place  11.09.2013, Coventry
Events

**Special Teacher Training Workshop at Coventry University**

Date  11.09.2013

Description  Train VET and schools teachers to use CLEM platform

Target audience  School and VET teachers

Public  Closed event

Contact Information

Time and place  12th September 2013, Coventry University

**Special CLEM Workshop, ICEBE 2013**

Date  11.09.2013

Description  Training session for teachers from different places in the world

Target audience  teachers and researcher

Public  Closed event

Contact Information

Time and place  11th September, Coventry University

**BCS-CAS Special Teacher Training Workshop**

Date  11.09.2013

Description  Training course for teachers

Target audience  Teachers

Public  Closed event

Contact Information

Time and place  12th September 2013, Coventry University
Events

THE 1ST WORKSHOP ON CLOUD COMPUTING FOR MECHATRONIC SYSTEMS (CCMS’13)

Date 11.09.2013

Description The 1st Workshop on Cloud Computing for Mechatronic Systems (CCMS’13) held in conjunction with the 10th IEEE International Conference on e-Bussiness Engineering (ICEBE2013) 11.09.2013, Coventry, United Kingdom: http://conferences.computer.org/icebe/2013/index.htm. Keywords of the workshop are cloud computing, mechatronics, e-learning, Arduino. Workshop has been organized by the following persons involved in CLEM project:
Dan Stan (sergiustan@ieee.org)
Kuo-Ming Chao (csx240@coventry.ac.uk)
Anne James (csx118@coventry.ac.uk)
Dan Mandru (Dan.Mandru@mffm.utcluj.ro)
Giorgio Figliolini (figliolini@unicas.it)
Pierluigi Rea (rea@unicas.it)
Cheddi Bouzgarrou (belhassen-cheddi.bouzgarrou@ifma.fr)
Joshua Cooper (jcooper@hildebrand.co.uk)
Daniel Bratanov (dany@manuf.uni-ruse.bg)
Pavel Vietlimov (pvv@manuf.uni-ruse.bg)
Juergen van Cappele (juergen.vancapelle@esta-bw.de)
Kerstin Struckmeier (kerstin.struckmeier@esta-bw.de)
Ionut Muntean (ionut.muntean@aut.utcluj.ro)
Emil Teutan (emilteutan@yahoo.com)
Ioan Ardelean (ioan_ardelean@yahoo.com)
The Topics of interest in this workshop include, but are not restricted to:
• Cloud Computing for Mechatronic Systems
• Virtual Prototyping in Mechatronics
• Sensors and Actuators
• WEEE
• Arduino-based Mechatronic Systems
Authors have been invited to submit a full paper of at most 6 pages (IEEE formatting guidelines), including figures and references. The contact author must provide the following information to the workshop chairs: paper title, authors’ names, affiliations, postal address, phone, fax, and e-mail address of the author(s), about 200-250 word abstract, and about five keywords. Prepare your paper as a PDF file and submit it to the workshop organizers using the ICEBE 2013 conference paper management system:
https://www.easychair.org/account/signin.cgi?conf=icebe2013
Concerning workshop organization, authors of accepted submissions are asked to give a 20-25 minutes presentation of their research work. Presentations should include research results, interesting research questions, and open issues to be discussed during the workshop. The workshop has been hosted by Coventry University, Coventry, UK.

Target audience researchers and lectures
Public Event is open to the public

Contact Information

Time and place 11.09.2013, Coventry

http://www.adam-europe.eu/adam/project/view.htm?prj=8395
Events

6th All partners meeting

Date 10.09.2013
Description Presenting progress of the work in each workpack
Target audience Project Partners
Public Closed event

Contact Information
Time and place 11th -13th September 2013
Coventry University

IFMA 2nd year student project

Date 01.09.2013
Description Design and construction of a modular mechatronic platform dedicated to contribute at CLEM project development and exploitation
Target audience 2nd year students
Public Event is open to the public

Contact Information
Time and place IFMA, France,September 2013 to April 2014

IEEE CSCWD at Whistler, Canada

Date 29.06.2013
Description Present the latest development of CLEM platform
Target audience 100 – delegates from all around the world
Public Closed event

Contact Information
Time and place 27th-29th June 2013, Whistler, Canada
Events

5 All Partners Meeting

Date 13.06.2013

Description Report the development in static modules and dynamic teaching materials as well as e-learning platform

Target audience partners

Public Closed event

Contact Information

Time and place Cluj-Napoca, Romania
13-14 and June 2013

Business Intrigue Day at Coventry

Date 19.03.2013

Description The added values of the CLEM platform to industry

Target audience Business people from the region

Public Closed event

Contact Information

Time and place 20th March 2013, Coventry

Second Wednesday

Date 12.03.2013

Description Report the latest development of the CLEM project

Target audience researcher and people from industry from the region

Public Closed event

Contact Information

Time and place 13th March 2013, Serious Games Institute, Coventry
Events

**CAP4COM**

Date 10.03.2013

Description Present the main concepts in CLEM and the expected outcomes

Target audience senior colleagues from Coventry and partner institutions

Public Closed event

Contact Information

Time and place 11th March 2013, Coventry University

**All Partners meeting**

Date 07.03.2013

Description Presenting the latest development in the project and remote lab

Target audience Partners

Public Closed event

Contact Information

Time and place 7th– 8th of March 2013 Meeting at Bad Oeynhausen, Germany

**2nd Partners Meeting**

Date 08.11.2012

Description Presenting the project deliverables and findings in relation to mechatronic and cloud computing

Target audience Partners

Public Closed event

Contact Information

Time and place 8th – 9th of Nov. 2012 Meeting at Cassino, Italy
Events

CASES

Date  28.09.2012

Description  Present and outline the CLEM project and the main ideas in E-Learning

Target audience  colleagues from Coventry University and academic visitors from the Ukraine and China

Public  Closed event

Contact Information

Time and place  28th September 2012, Coventry University
## Events

### 1st All Partners Meeting

**Date** 14.06.2012

<table>
<thead>
<tr>
<th>Start</th>
<th>End</th>
<th>Description</th>
<th>Session Owner</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>09:30</td>
<td>Arriving - Coffee/Tea</td>
<td>UR</td>
</tr>
<tr>
<td>09:30</td>
<td>09:45</td>
<td>Host Welcome</td>
<td>UR</td>
</tr>
<tr>
<td>09:45</td>
<td>10:00</td>
<td>Agenda and Sessions Chairs Presentation</td>
<td>COV UNI</td>
</tr>
<tr>
<td>10:00</td>
<td>10:15</td>
<td>Last meeting minutes – tasks updates undelivered or scheduled to be delivered in the last meeting</td>
<td></td>
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<tr>
<td>10:15</td>
<td>10:45</td>
<td>Project overview, progress summary, upcoming tasks (informative session only)</td>
<td>COV UNI</td>
</tr>
<tr>
<td>10:45</td>
<td>11:00</td>
<td>Coffee break</td>
<td>COV UNI</td>
</tr>
<tr>
<td>11:00</td>
<td>11:15</td>
<td>Partners Updates (Deliverables Owners – tasks delivered, upcoming tasks, problems encountered) – Part 1 (WP1-4)</td>
<td>COV UNI, IFMA, UNICAS, TUCluj</td>
</tr>
<tr>
<td>11:15</td>
<td>12:00</td>
<td>Partners Updates (Deliverables Owners – tasks delivered, upcoming tasks, problems encountered) – Part 2 (WP5-7)</td>
<td>UNICAS, UR, ESTA</td>
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<tr>
<td>12:00</td>
<td>14:00</td>
<td>Lunch (if can be provided)</td>
<td></td>
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<tr>
<td>14:00</td>
<td>14:30</td>
<td>Upcoming deliverables/tasks requirements and assign/reassign</td>
<td>COV UNI</td>
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<tr>
<td>14:30</td>
<td>15:30</td>
<td>Technical Requirements per tasks - Planning ahead for next meeting and package deliverables</td>
<td>TUCluj</td>
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<tr>
<td>15:30</td>
<td>16:00</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>16:00</td>
<td>16:30</td>
<td>Cloud Computing Introduction Weidong Li – COV UNI</td>
<td></td>
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<tr>
<td>16:30</td>
<td>17:00</td>
<td>Additional Q&amp;A</td>
<td>ALL都需要 session chair</td>
</tr>
<tr>
<td>17:00</td>
<td>18:00</td>
<td>University of Rousse wants to show the facilities they have and offer a tour informational</td>
<td>UR</td>
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<tr>
<td>18:00</td>
<td></td>
<td>To ask host Dinner (if can be provided)</td>
<td></td>
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**15th June, 2012**

<table>
<thead>
<tr>
<th>Start</th>
<th>End</th>
<th>Description</th>
<th>Session Owner</th>
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<tbody>
<tr>
<td>09:00</td>
<td>09:15</td>
<td>Welcome back – Coffee/Tea (if can be provided)</td>
<td></td>
</tr>
<tr>
<td>09:15</td>
<td>10:15</td>
<td>Virtual Collaboration - Virtual Meeting System Presentation and General Information</td>
<td>Anne James – COV UNI</td>
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<tr>
<td>10:15</td>
<td>11:15</td>
<td>Dissemination Strategy</td>
<td>IFMA</td>
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<td>11:15</td>
<td>11:30</td>
<td>Coffee break</td>
<td></td>
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<tr>
<td>11:30</td>
<td>12:15</td>
<td>Teaching material – user test- results addressing</td>
<td>UR</td>
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<tr>
<td>12:15</td>
<td>13:00</td>
<td>Teaching material scopes, modules, partners co-ordination</td>
<td>UR</td>
</tr>
<tr>
<td>13:00</td>
<td>13:30</td>
<td>Lunch (if can be provided)</td>
<td></td>
</tr>
<tr>
<td>13:30</td>
<td>15:00</td>
<td>UR tour - Actual teaching content facilities that they can offer, in- depth presentation</td>
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<tr>
<td>15:00</td>
<td>15:45</td>
<td>Sum Up Session</td>
<td>COV UNI</td>
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<tr>
<td>15:45</td>
<td>16:00</td>
<td>Onward Possibility for partners’ informal discussion – departure arrangements</td>
<td>ALL</td>
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**Target audience** Partners

**Public** Event is open to the public

**Contact Information**

http://www.adam-europe.eu/adam/project/view.htm?prj=8395
Events

University of Rousse
"Angel Kunchev", Address of the place to be updated (Street, building, room), Rousse, Bulgaria

Kick-off meeting at Coventry, UK

Date 09.02.2012
Description Kick-off meeting
Target audience
Public Closed event
Contact Information
Time and place 9-10 February 2012, Coventry, United Kingdom

GIB workshop

Date 17.02.0014
Description On 18.02.2014 ESTA is invited to an international consortium meeting that is operated from GIZ (Gesellschaft für Internationale Zusammenarbeit). Topic is to present the international audience some of the projects and topics that German training providers work on.
Target audience International audience on project development
Public Event is open to the public
Contact Information
Time and place 18.02.2004, ESTA Germany