Projects and Products Portal for Leonardo da Vinci

USORA - Unified Solution of Remote Access in Practical Vocational Engineering Education

2013-1-PT1-LEO05-15527

http://www.adam-europe.eu/adam/project/view.htm?prj=11045

Project Information

Title: USORA - Unified Solution of Remote Access in Practical Vocational Engineering Education

Project Number: 2013-1-PT1-LEO05-15527

Year: 2013

Project Type: Transfer of Innovation

Status: granted

Country: PT-Portugal

Marketing Text: The aim of USORA project is contribution to raising the level of vocational education students and continuous education of professional workers in engineering domain, but specially in ICT and robotics.

Summary: With this project we are focusing on the fact that currently there is a lack of skilled worker in ICT and robotic sector due the rapid growth of this domain. The trend shows constant growth of the gap between industry need and available skilled workforce, specially due the rise of Asian manufacturers and engineers and competition with Europe.
Several studies in Europe point out that the engineering fields are not the first choice of young people, however the engineering skills and robotic field itself are one of the key knowledge of European economy growth in a long perspective.

The aim is planned to archive by carrying out following activities:
- Performing deep analysis of current industrial and educational situation, study methods and student behavior in target sector;
- Adapting the DistanceLab and VirtualLab systems according to acquired knowledge
- Establishing the Remote Lab prototype system in Portugal
- Integrating the robotic platform developed in Portugal with a new e-environment
- Full piloting of the solution in Portugal and also in Germany and Estonia
All listed activities are on the frame of professional project management and financial surveillance. The dissemination is continuous process starting on the very beginning of the project and continuing after the official end, by following the developed Valorization Strategy document.

The partnership has strong competence in the main project fields. Theoretical and practical aspects of system design are main strength of the Estonian and Portugal partners. The ICT and embedded system experience and tight connections with industry is the focus of German partners.

Description: Main outcomes of the project are:
- Adapted remote lab system established in Portugal and available for vocational education institutions;
- Educational module & teaching material compatible with ECVET system;
- Open format for learning material;
- Specification for LMS and ECVET integration.

Long term outcomes are the rise of competence of new and practicing engineers and the contemporary learning tools. To come along with significant better vocational education in the end there will be a better position of European companies (including SME-s) in global competition.

Themes:
*** Labor market
*** Open and distance learning
*** Vocational guidance

Sectors:
*** Professional, Scientific and Technical Activities
*** Education

Product Types:
material for open learning
open and distance learning
procedure for the analysis and prognosis of the vocational training requirement
teaching material
website

Project Information

Product information:

Projecthomepage: http://usora.cc/

Project Contractor

Name:	Articacc Lda
City:	Setúbal
Country/Region:	Lisboa
Country:	PT-Portugal
Organization Type:	SME - small and medium-sized enterprise (up to 250 employees)
Homepage:	http://www.artica.cc

Contact Person

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Coordinator

Name:	Articacc Lda
City:	Setúbal
Country/Region:	Lisboa
Country:	PT-Portugal
Organization Type:	SME - small and medium-sized enterprise (up to 250 employees)
Homepage:	http://www.artica.cc

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Partner

Partner 1

Name: ITT Group OÜ
City: Tallinn
Country/Region: Eesti
Country: EE-Estonia
Organization Type: SME - small and medium-sized enterprise (up to 250 employees)
Homepage: http://www.ittgroup.ee

Partner 2

Name: Vörumaa Kutsehariduskeskus
City: Võru
Country/Region: Eesti
Country: EE-Estonia
Organization Type: others
Homepage: http://www.vkhk.ee

Partner 3

Name: it:matters UG (haftungsbeschränkt)
City: Bochum
Country/Region: Nordrhein-Westfalen
Country: DE-Germany
Organization Type: SME - small and medium-sized enterprise (up to 250 employees)
Homepage: http://it-matters.eu

Partner 4

Name: Hochschule Bochum
City: Bochum
Country/Region: Nordrhein-Westfalen
Country: DE-Germany
Organization Type: university/Fachhochschule/academy
Homepage:

Partner

Partner 5

Name:	Association of Instituto Superior Técnico for Research and Development
City:	Lisboa
Country/Region:	Lisboa
Country:	PT-Portugal
Organization Type:	university/Fachhochschule/academy
Homepage:	http://www.ist.utl.pt

Partner 6

Name:	Estudos Técnicos e Profissionais SA
City:	Lisbon
Country/Region:	Lisboa
Country:	PT-Portugal
Organization Type:	others
Homepage:	http://www.inete.pt

Products

1 VirtualLab & DistanceLab integration web environment

2 Learning situations on embedded systems and robotics

3 USORA methodology

4 USORA frameworkd

5 VET Systems Study

Product 'VirtualLab & DistanceLab integration web environment'

Title:	VirtualLab & DistanceLab integration web environment
Product Type:	
Marketing Text:	Its a very important platform that clearly enhances and innovates the teaching and learning in embedded systems and reduces the need for investment from the education and training bodies do to the facility of remote and distance labs.
Description:	USORA platform where it can be accessed both the remote and distance labs
Target group:	Education and professional training
Result:	Online education and training material (e-learning) (PR16)
Area of application:	
Homepage:	http://home.roboticlab.eu/en/start?s=translation_true
Product Languages:	German Portuguese English Estonian

Product 'Learning situations on embedded systems and robotics'

Title:	Learning situations on embedded systems and robotics
Product Type:	teaching material
Marketing Text:	Learning situations on embedded systems and robotics, with material for both teacher and student.
Description:	It comprehends contents for professionals with a huge market demand, and it encompasses a teaching and learning methodology that results very well and reduces investment costs.
Target group:	Education and training bodies
Result:	Innovative education and training modules (PR14)
Area of application:	
Homepage:	
Product Languages:	Estonian English Portuguese

Product 'USORA methodology'

Title:	USORA methodology
Product Type:	material for open learning
Marketing Text:	Methodology and tools for course and content development based on USORA framework.
Description:	It's a easy to use methodology and the tools prove to enhance and facilitate the creation of new curricula and learning situations.
Target group:	Teachers and trainers
Result:	Guidance material to new approaches and methodologies (PR15)
Area of application:	
Homepage:	
Product Languages:	Portuguese English

Product 'USORA frameworkd'

Title:	USORA frameworkd
Product Type:	modules
Marketing Text:	Technical document for USORA framework use to create and deliver ECVET courses.
Description:	USORA platform
Target group:	Technology teams and companies
Result:	Others (PR25)
Area of application:	
Homepage:	
Product Languages:	English

Product 'VET Systems Study'

Title:	VET Systems Study
Product Type:	others
Marketing Text:	Study and comparing of VET systems in participating countries and Europe for general.
Description:	
Target group:	Education and training bodies
Result:	Guidance material to new approaches and methodologies (PR15)
Area of application:	
Homepage:	
Product Languages:	English