Projects and Products Portal for Leonardo da Vinci

eLearning course - How to Build and Implement DTN Based Internet Access with Gender and Cultural Sensitive Approach

2010-1-SE1-LEO05-04796

http://www.adam-europe.eu/adam/project/view.htm?prj=8333

Project Information

Title: eLearning course - How to Build and Implement DTN Based Internet Access with Gender and Cultural Sensitive Approach

Project Number: 2010-1-SE1-LEO05-04796

Year: 2010

Project Type: Transfer of Innovation

Status: granted

Country: SE-Sweden

Marketing Text: DTN is a new way to establish ICT access that suits self-governed initiatives such as NGOs, SMEs and citizens in remote and rural areas. The European Digital Agenda aims to give all Europeans basic broadband by 2013. e-Learning DTN transfers knowledge from an EU FP7 project and has developed an e-Learning course on how to build DTN based internet access, which is a new way to establish ICT access that suits self-governed initiatives by NGOs and citizens in remote and rural areas.
DTN makes the exchange of data between the source and destination tolerant of time delays; if there isn't a continuous path from source to destination when the data is sent the data can be held at some intermediate node (which might be any computer or server). People, cars, helicopters and similar moving “data mules” that travel in the remote area actually take the data with them and deliver it to the next node in the network 'cloud'.

Summary: N4C (Networking for Communications Challenged Communities: Architecture, Test Beds and Innovative Alliances) was a FP7 project in which the partners developed internet for remote regions where it is not simple or not cheap or, even feasible to gain access in any of the conventional ways. N4C used Delay and Disruption Tolerant Networking (DTN) technology. In eLearning-DTN the project team aims to offer information on how to build DTN based internet access, thus transferring knowledge from N4C to new audiences. The project pays attention to the course content being inclusive for all and that when ICT is developed and implemented, it is important to apply a gender equality perspective and to promote gender equality policies.

Description: The project includes four former partners in the N4C project and a spin-off company from the former N4C project. A learning platform and training content were developed in two steps (draft and final versions) and tested by strategically chosen audiences. The learning material consists of seven modules:
1. How to start – what you need in the form of ICT software and other equipment
2. How to implement software
3. How to build your network – people, mules and nodes
a) Case: An environmental company building a DTN network for business
b) Case: An NGO developing DTN for a rural village
4. Working with people in deployment - how to recruit users
5. Case A: Deployment to NGO in Swedish Lapland
6. Case B: Environmental deployment
7. Case C: How SME and NGO can deploy / encourage business on DTN
a) A case of an environmental company building a DTN network for business
b) A case of an NGO developing DTN for a rural village

Themes:
*** Utilization and distribution of results
*** ICT
*** Lifelong learning
*** Open and distance learning
* Others
* Enterprise, SME
* Equal opportunities

Sectors:
*** Information and Communication
** Professional, Scientific and Technical Activities
** Agriculture, Forestry and Fishing
* Public Administration and Defence; Compulsory Social Security

Product Types: open and distance learning
teaching material

Project Information

	material for open learning modules website
Product information:	The eLearning-DTN course can be used in schools, and in learning at work places but also among people studying on-line. eLearning-DTN has brought the digital inclusion frontline further by making educational material about how to practically build networks and products with DTN available for SMEs and NGOs, rural populationor and other non-experts. We also dare to say that our proejct has taken LLL further by developing new models for experimental learning. This achievement can be deployed to the VET (vocational, educational and training) sector. We have also developed models and methods for testing complicated LLL course-material about technical issues. Another achievement is development on test methods; next-bench observation methods and questionnaires. Further we have developed business models for deployment of a course the can be downloaded free of charge from the internet. In that aspect we have taken IPR issues further and that part of our development can be used in other circumstances. It has been confirmed that eLearning-DTN is globally unique and valuable. Initaitives have been taken from actors in USA to make the eLearning-DTN training program part of the IPNSIG portfolio. IPNSG stands for Interplanetary Networking Special Interest Group of the Internet Society (www.ipnsig.org). The connection comes from that DTN was first designed for space agencies' purposes.
Projecthomepage:	http://www.elearning-dtn.eu/

Project Contractor

Name:	Luleå University of Technology
City:	Luleå
Country/Region:	Övre Norrland
Country:	SE-Sweden
Organization Type:	continuing training institution
Homepage:	http://www.ltu.se

Contact Person

Name:	Maria Udén
Address:	Arbetsvetenskap
City:	Luleå
Country:	SE-Sweden
Telephone:	+46 920 493023
Fax:	+46 920 49 13 99
E-mail:	maria.uden@ltu.se
Homepage:	http://www.ltu.se

Coordinator

Name:	Luleå University of Technology
City:	Luleå
Country/Region:	Övre Norrland
Country:	SE-Sweden
Organization Type:	continuing training institution
Homepage:	http://www.ltu.se

Contact Person

Name:	Maria Udén
Address:	Arbetsvetenskap
City:	Luleå
Country:	SE-Sweden
Telephone:	+46 920 493023
Fax:	+46 920 49 13 99
E-mail:	maria.uden@ltu.se
Homepage:	http://www.ltu.se

Partner

Partner 1

Name: Power Lake AB
City: Stockholm
Country/Region: Stockholm
Country: SE-Sweden
Organization Type: others
Homepage: http://www.powerlake.se

Partner 2

Name: MEIS storitve za okolje d.o.o.
City: Šmarje-Sap
Country/Region: Slovenija
Country: SI-Slovenia
Organization Type: others
Homepage: http://www.meis.si

Partner 3

Name: Instituto Pedro Nunes
City: Coimbra
Country/Region: Centro (P)
Country: PT-Portugal
Organization Type: others
Homepage: http://www.ipn.pt

Partner 4

Name: Tolerant Networks Ltd
City: co. Kildare
Country/Region: Dublin
Country: IE-Ireland
Organization Type: others
Homepage: http://tolerantnetworks.com/

Project Files

Deployment meeting eLearning-DTN Feb 2013.pdf

http://www.adam-europe.eu/prj/8333/prj/Deployment%20meeting%20eLearning-DTN%20Feb%202013.pdf

Deployment meeting / Final meeting of the eLearning-DTN project

Flyer eLDTN in ADAM.pdf

http://www.adam-europe.eu/prj/8333/prj/Flyer%20eLDTN%20in%20ADAM.pdf

The eLearning-DTN flyer

R25 Final.pdf

http://www.adam-europe.eu/prj/8333/prj/R25%20Final.pdf

Description of the e-Learning portal

Products

1 eLearning-DTN learning material and web portal

2 Newsletters, flyer

3 eLearning-DTN web site

Product 'eLearning-DTN learning material and web portal'

Title:	eLearning-DTN learning material and web portal
Product Type:	open and distance learning
Marketing Text:	This is where you can learn about when, where and how to build your own network with DTN, for business or community purposes.
Description:	The learning portal is accessed via a simple login procedure. The learning material is organized in modules aimed at different groups of learners: network technicians and other technical staff, business and community leaders, product developers.
Target group:	SMEs, NGOs, public offices as municipality boards, tourist industry in remote areas, environmental surveillance
Result:	The central product of the eLearning-DTN project is a set of modules with learning material. This material is made available in a structured way via a web portal. The modules can be combined into tailored courses to fit the needs and aims of each student or student group. Access is free of charge. The material has been rigorously tested by carefully chosen test groups.
Area of application:	This e-Learning material can be used by learners independantly or if desired with the project partners.
Homepage:	http://www.elearning-dtn.eu/Training-Platform.htm
Product Languages:	English

Product 'Newsletters, flyer'

Title:	Newsletters, flyer
Product Type:	others
Marketing Text:	The Newsletters and project flyer provides printer friendly format easy-access information about the project and our learning material
Description:	The dissemination material produced during the project time
Target group:	The general audience
Result:	
Area of application:	Introductory information purposes
Homepage:	http://www.elearning-dtn.eu/News.htm
Product Languages:	Slovenian Portuguese English Swedish

Product 'eLearning-DTN web site'

Title:	eLearning-DTN web site
Product Type:	website
Marketing Text:	At www.elearning-dtn.eu you find information about Delay Tolerant Networking (DTN), our learning material, the partners, and more. You also find the link to our learning portal where all material is made available in a structured way.
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	www.elearning-DTN.eu
Product Languages:	English Portuguese Slovenian Swedish